



TOOLS & EQUIPMENT

The World trusts.

August 2016



Groz has always exceeded the expectations of tool manufacturers and users the world over. Groz carefully makes each tool under stringent quality control processes that are achieved in a hi-tech environment spread over 500,000 square feet



Total quality & control via advanced horizontal & vertical machining centers



Robotically armed & conveyorized double booth powder coating plant with a capacity of 15 million sq inches / month



Pressure die casting - Plc controlled semi automatic equipment.



The heart of our operation is the design center, where our research & product development specialists use high end software & equipment to develop custom solutions



Quality Assurance Statement

The satisfaction of all customers is the fundamental principle of the GROZ corporate philosophy.

GROZ stands committed to the quality of its products and service with the assurance of complete back-up support.

With a wide range of products, prompt service and vast experience, GROZ remains dedicated to the customer.



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LED WORK LIGHTS

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Whilst every effort has been made to ensure accuracy of information given in this catalogue at the time of going to print, July 2016, our policy of continuous improvement determines the right to change specifications without notice. Customers must ensure that goods are suitable for the purpose intended.

1

INDUSTRIAL EQUIPMENT

Tools, equipment & complete solutions that enhance customer's energy efficiency, productivity & operations

NEW PRODUCTS TO LOOK OUT FOR

6



Direct Drive
Air Compressor

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Waste Oil
Evacuation Kits

www.groz-tools.com

1

2HP Reciprocating Direct Drive Air Compressor

Direct Drive Compressor produce compressed air immediately without needing to fill up the receiver tank.

These are designed for extensive use in stapling and nailing applications on packaging stations, cleaning, denting and painting jobs in automotive body shops, tyre inflation applications in fuel stations and for general purpose jobs in small workshops

Dual Material Construction

Cast Iron Cylinder Block:

The cylinder block is made up of cast iron that reduces wear & tear thus imparting longevity to the unit

Aluminium Crankcase & Cylinder head:

Aluminium helps in better heat dissipation thus enhancing performance. Also Aluminium being a light weight material reduces overall weight making the compressor easy to handle.

Compact Design:

In-line design of the compressing unit makes it compact

Shock Absorbing Pads:

effectively absorbs vibration and keep the whole unit stable during operation

Strong large wheels for convenient movement of the unit.

Oil Dipstick with vent hole keeps a check on oil level in the oil sump and releases excess pressure.

Two Pressure Gauges: one for pressure setting in the receiver tank and one for regulating the outlet pressure from the receiver

Pressure Switch with overload protection keeps the compressor safe even in voltage fluctuations.

Plastic Shroud keeps the hot and moving parts safe and prevents any accidents.

Supplied with Polyurethane coiled hose for attaching any equipment such as blow gun, paint spray guns, tyre inflator etc.

ORDERING INFORMATION

CAT NR.	BOX QTY.
RAC/DD/2-11/24-1	1


NEW!


Tyre Inflating



Paint Spray Gun



Cleaning

SPECIFICATIONS

MOTOR RATING	1.5 KW, 2 HP	
CYLINDER	1	
STAGE	1	
AIR RECEIVER CAPACITY	24 litres	
RPM	2850	
FAD (FREE DELIVERY)	170 LPM / 6 CFM	
MAX. PRESSURE	116 PSI / 8 BAR	
NOISE LEVEL	80 db	
DIMENSIONS	WIDTH	610 mm
	DEPTH	310 mm
	HEIGHT	580 mm
WEIGHT	24 kg	
ELECTRIC SUPPLY	230V, 1 Phase, 50 Hz.	

2
**Reciprocating Belt Driven
Air Compressors**

A selection of air compressors designed & manufactured to the highest quality standards using the best raw materials & components. Proven quality, robust design & durable performance makes these the ideal choice for everyday use



- 1 INTERCOOLER
- 2 CYLINDER BLOCK - STURDY, WEAR RESISTANT CAST IRON CONSTRUCTION
- 3 OIL SUMP
- 4 SAFETY VALVE
- 5 DRAIN VALVE - FOR EMPTYING THE CONDENSATE COLLECTED IN THE TANK
- 6 AIR RECEIVER TANK - WITH BITUMEN LINING FOR INCREASED RESISTANCE TO RUST
- 7 OUTLET PORT
- 8 BASE PLATE - BOLTED DESIGN FOR ENHANCED RIGIDITY & RESISTANCE TO RUST
- 9 PRESSURE GAUGE
- 10 IN-BUILT STARTER WITH PRESSURE SWITCH
- 11 MOTOR: DESIGNED TO MEET STRINGENT EURO NORMS
- 12 AIR FILTER - EASILY WASHABLE, SPONGE TYPE FILTER
- 13 PROTECTIVE CAGE - ENHANCED SAFETY
- 14 BELT DRIVE
- 15 ALUMINIUM HEAD

 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

Reciprocating Belt Driven Air Compressors (continued)

Dual Material Construction

World's only compressor with a unique dual material construction

- i) The cylinder block is made up of cast iron that prevents wear & tear, thus imparting longevity to the unit
- ii) Crankcase & cylinder head are made from aluminium – Compact design and choice of aluminium as a raw material helps in efficient cooling of the unit. Aluminium crankcase keeps the oil in the sump cooler, thus enhancing the performance of the unit

Efficient Ventilation

Larger flywheel keeps air directed towards the cylinder for faster heat dissipation & efficient ventilation

High pressure cylinder with higher temperature is positioned closer to the flywheel which also helps in faster cooling of the unit

Output tubing designed to pass from the front of the flywheel, further reducing the temperature of the air in the tank

In-Line Design

Compact & superior to "V" type construction: air flow in the in-line design is directed towards both the cylinders uniformly keeping maximum temperature within check as compared to the "V" type construction where air flow is directed towards one side of the "V" at any given time

Motor

Class "F" insulation, motor is designed as per EURO norms

Air Filter

Easy to maintain & replaceable sponge type air filter is easily washable

Built in Starter

Protects the unit from sudden voltage fluctuations & enables usage with varying voltages

Intercooler*

Reduces the temperature of compressed air which improves efficiency by reducing power consumption.

Bolted Design Base Plate

Makes it convenient to assemble or disassemble the compressor unit from the tank. Bolted design also eliminates possibility of rust as compared to a welded design

Safety Valves

In-built safety valves for safety against pressure build ups

Oil Sight Glass

For controlling the oil level

Drain Valve

For emptying the condensate collected in the tank

Caged Belt and Pulley Assembly

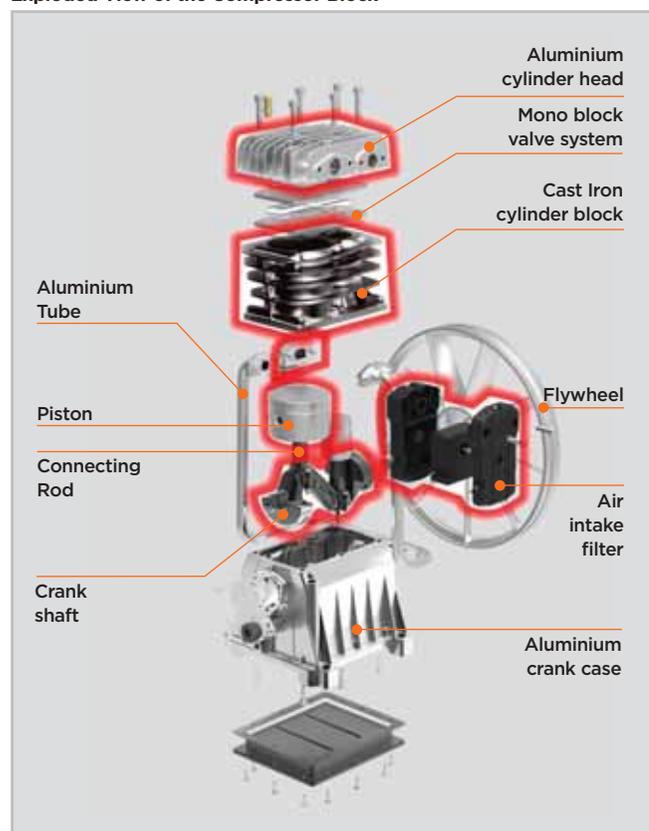
for enhanced safety in operation

* Only in multiple stage version



RAC/7.5-22/270

Exploded View of the Compressor Block



RAC



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SPECIFICATIONS

	RAC/3-21/150	RAC/3-21/150-1	RAC/3-21/200	RAC/3-21/200-1	RAC/5.5-22/200	RAC/7.5-22/270
MOTOR RATING	2.2 KW, 3 HP	2.2 KW, 3 HP	2.2KW, 3HP	2.2KW, 3HP	4 KW, 5.5 HP	5.5 KW, 7.5 HP
CYLINDERS	2	2	2	2	2	2
STAGES	1	1	1	1	2	2
AIR RECEIVER CAPACITY	150 litres	150 litres	200 litres	200 litres	200 litres	270 litres
AIR DISPLACEMENT	350 LPM / 12.4 CFM	350 LPM / 12.4 CFM	350 LPM / 12.4 CFM	350 LPM / 12.4 CFM	550 LPM / 19.5 CFM	830 LPM / 29 CFM
FAD (FREE DELIVERY)	190 LPM / 6.7 CFM	190 LPM / 6.7 CFM	190 LPM / 6.7 CFM	190 LPM / 6.7 CFM	440 LPM / 15.53 CFM	620 LPM / 22 CFM
MAX. PRESSURE	175 PSI / 12 BAR	175 PSI / 12 BAR	175 PSI / 12 BAR	175 PSI / 12 BAR	175 PSI / 12 BAR	175 PSI / 12 BAR
NOISE LEVEL	74±3 db (A)	74±3 db (A)	74±3 db (A)	74±3 db (A)	75±3 db (A)	76±3 db (A)
DIMENSIONS	WIDTH	1360 mm	1360 mm	1460 mm	1460 mm	1600 mm
	DEPTH	460 mm	460 mm	460 mm	460 mm	500 mm
	HEIGHT	990 mm	990 mm	990 mm	990 mm	1000 mm
WEIGHT	115 kg	115 kg	140 kg	140 kg	158 kg	192 kg
CLASS OF INSULATION	F	F	F	F	F	F
ELECTRIC SUPPLY	400 V, 3 Phase, 50 Hz.	230 V, Single Phase	400 V, 3 Phase, 50 Hz.	400 V, 3 Phase, 50 Hz.	400 V, 3 Phase, 50 Hz.	400 V, 3 Phase, 50 Hz.

ORDERING INFORMATION

CAT NR.	MOTOR RATING	AIR RECEIVER CAPACITY	BOX QTY.
RAC/3-21/150	2.2 KW, 3 HP	150 litres	1
RAC/3-21/150-1	2.2 KW, 3 HP (Single Phase)	150 litres	1
RAC/3-21/200	2.2 KW, 3 HP	200 litres	1
RAC/3-21/200-1	2.2 KW, 3 HP (Single Phase)	200 litres	1
RAC/5.5-22/200	4 KW, 5.5 HP	200 litres	1
RAC/7.5-22/270	5.5 KW, 7.5 HP	270 litres	1

3

Coolant Mixers

CMX

Coolant / Liquid Mixers are used for mixing liquid coolant concentrate with water

Used in several industrial applications for correct mixing of coolants

Manufactured from aluminium, the GROZ coolant mixers work on rotary disc valve mechanism

Compact construction & minimal parts

Driven by pressure from water supply

Adjustment for mixing ratio is variable & controlled via a simple turn of the knob

In-built suction tube & 2" bung fits directly onto 205 litre coolant drums

RECOMMENDED USE
Cutting / Metalworking Fluids

FEATURES

CAPACITY

UPTO
1100 LITRES /
HOUR



CMX/1

On / Off lever

Regulator Plate

Braided Hose



CMX/3

ORDERING INFORMATION

CAT NR.	MIXING RATIO	BOX QTY
CMX/1	0-11%	1
CMX/3	0-9%	1

4

Oil Skimmers

OSK

Belt Oil Skimmers remove tramp oils from coolant tanks, CNC machines, part washers etc.

Light weight non-corroding aluminium die cast construction

Magnet on the base permits installation on any metal base

Compact design fits on almost all CNC machines & also on a 2" dia. bung hole on 205 litre drums

Built-in oil decanter/separator - the decanter collects oil & coolant picked up by the skimmer & separates it through the mechanism of gravity

Oil is sent to a disposal container & coolant back to the coolant tank - saving about 90% of the coolant

SPECIFICATIONS

MOTOR RATING	24V AC
INPUT VOLTAGE	220V AC, 50 Hz
RPM (220V AC, 50 HZ)	30
BELT MATERIAL	Polyurethane
MAX. TEMPERATURE	60°C

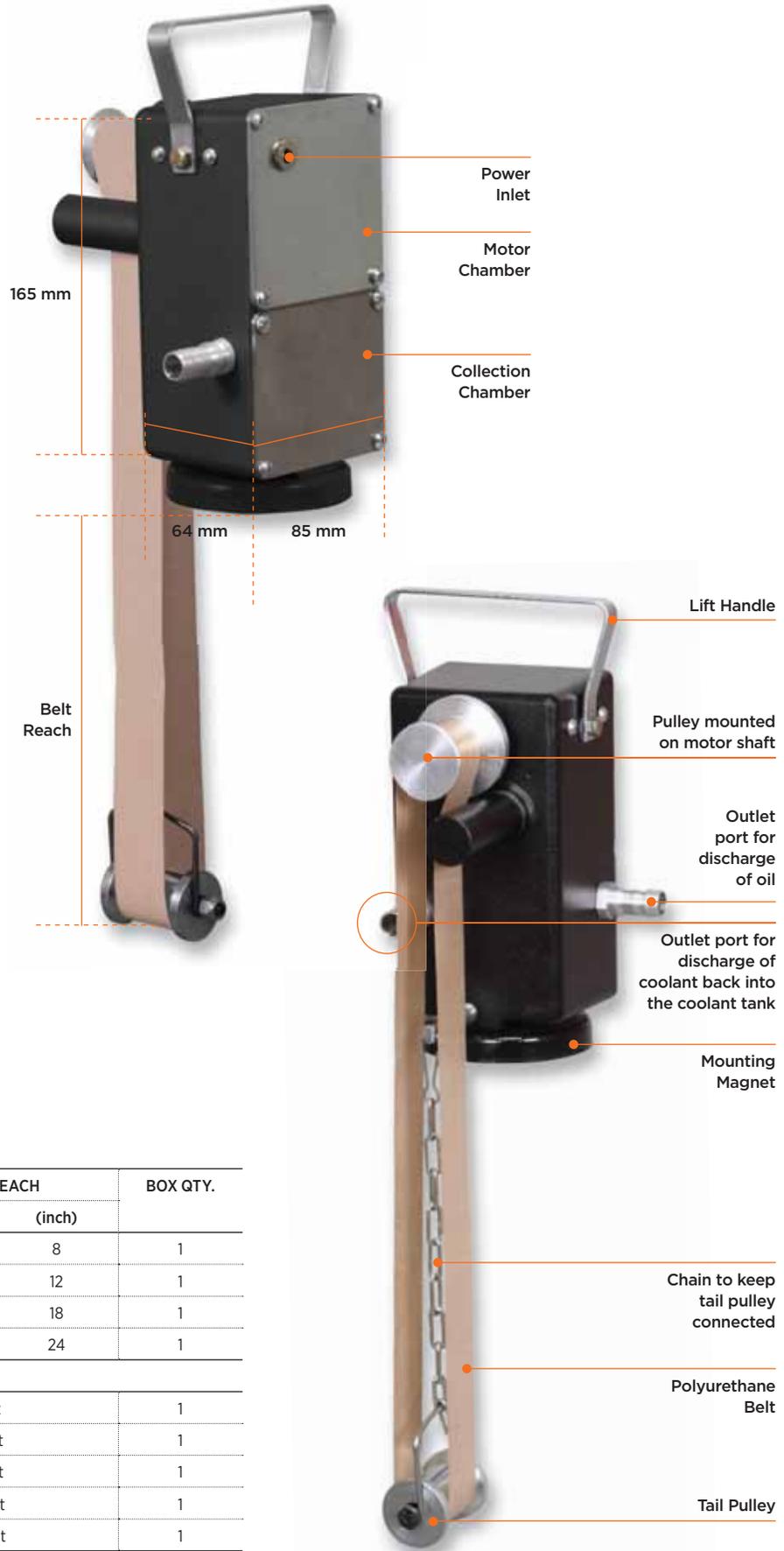


Spare Belt

ORDERING INFORMATION

CAT NR.	BELT WIDTH	BELT REACH		BOX QTY.
	(mm)	(mm)	(inch)	
OSK/220/308	30	200	8	1
OSK/220/3012	30	300	12	1
OSK/220/3018	30	450	18	1
OSK/220/3024	30	600	24	1

SPARE BELT		
BELT/OSK/308/N	8" Reach Spare Belt	1
BELT/OSK/3012/N	12" Reach Spare Belt	1
BELT/OSK/3018/N	18" Reach Spare Belt	1
BELT/OSK/3024/N	24" Reach Spare Belt	1
BELT/OSK/5024/N	50" Reach Spare Belt	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

5

Air Operated Double Diaphragm Pumps

Double Diaphragm Pumps are designed for use in applications requiring large volume transfer in a short time

Driven by compressed air, these can transfer contaminated media & are very useful for cleaning out pits with mixed liquids such as oil, water etc.

Handle a wide variety of fluids with solid content: as there are no close fitting or rotating parts

Self priming: pump is designed for high suction lift even at dry start up & also with heavier fluids

Ability to run dry: as there are no close fitting or sliding parts

Portable / simple installation: Simply connect air supply line & liquid line; pump is ready to perform

Explosion proof: safe pumps since they are operated by compressed air

Pumping efficiency remains constant: no rotors, gears or pistons that wear over time, hence no decline in performance

All pump models are designed for use with an inlet air pressure of 20-100 PSI

Air inlet threaded 1/4" NPT (F)

Pumps are available in a choice of 2 materials:

- i. Aluminium body with a Hytrel® diaphragm. These can be used for all high temperature applications
- ii. Polypropylene - body with
 - a. Santoprene Diaphragm - for use with abrasives, acids, caustic etc.
 - b. Teflon (PTFE) Diaphragm - for use with fluids such as solvents

FEATURES

AIR INLET PRESSURE

**20 - 100 PSI
(1.4 - 6.89 BAR)**



	AODD/1-4/FPT/N	AODD/1-2/BAH/N
SIZE	1/4"	1/2"
CASING	Polypropylene	Aluminium
DIAPHRAGM	PTFE	Hytrel®
FLOW RATE	0 -11 LPM	0 - 50 LPM
PUMP INLET/ OUTLET NPT (F)	1/4"	1/2"
AIR EXHAUST NPT(F)	3/8"	3/8"
MAX PARTICLE SIZE	N/A	1 mm
SUCTION LIFT (DRY)	5-feet	5-feet
MAX AIR CONSUMPTION	250 LPM (8.83 CFM)	450 LPM (15.9 CFM)
WETTED COMPONENTS	Polypropylene, PTFE	Aluminium, PA, Stainless steel, Hytrel®
VALVE BALL MATERIAL	PTFE (Flat type)	Hytrel®
AIR MOTOR	Ryton®	Aluminium
MAXIMUM LIQUID TEMPERATURE	60°C	80°C

Note:

Other materials, configurations and sizes can be custom manufactured on order

TEMPERATURE RANGE FOR VARIOUS MATERIALS

BODY / CASING MATERIAL	LIQUID TEMPERATURE RANGE
Aluminium	0°C to 100°C
Polypropylene	0°C to 60°C
DIAPHRAGM MATERIAL	LIQUID TEMPERATURE RANGE
Hytrel® (TPEE)	0°C to 80°C
Santoprene® (TPO)	0°C to 90°C
Teflon® (PTFE)	0°C to 100°C

AODD

INDUSTRIAL
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AODD/1-2/FPT/N	AODD/1-2/FPS/N	AODD/3-4/BAH/N	AODD/3-4/BPS/N	AODD/0-1/BAH/N
1/2"	1/2"	3/4"	3/4"	1"
Polypropylene	Polypropylene	Aluminium	Polypropylene	Aluminium
PTFE	Santoprene®	Hytrel®	Santoprene®	Hytrel®
0 - 45 LPM	0 - 45 LPM	0 - 110 LPM	0 - 110 LPM	0 - 110 LPM
1/2"	1/2"	3/4"	3/4"	1"
3/8"	3/8"	3/4"	3/4"	3/4"
N/A	N/A	2.0 mm	2.0 mm	2.0 mm
8-feet	8-feet	18-feet	18-feet	18-feet
350 LPM (12.4 CFM)	350 LPM (12.4 CFM)	1200 LPM (42.4 CFM)	1200 LPM (42.4 CFM)	1200 LPM (42.4 CFM)
Polypropylene, PTFE	Polypropylene, PTFE	Aluminium, Stainless steel Hytrel®	Polypropylene, Santoprene®	Aluminium, Stainless steel, Hytrel®
PTFE (Flat type)	PTFE (Flat type)	Hytrel®	Santoprene®	Hytrel®
Ryton®	Ryton®	Aluminium	Glass-filled polypropylene	Aluminium
60°C	60°C	80°C	60°C	80°C

ORDERING INFORMATION

CAT NR.	SIZE	CASING	DIAPHRAGM	RECOMMENDED FLUIDS	BOX QTY.
AODD/1-4/FPT/N	1/4"	Polypropylene	PTFE	Windshield Washer Fluid, Caustic Soda, Sulfuric Acid (Up To 75%), Plating Solution, Photograph Developing Liquid, Benzene, Hydrogen Peroxide, Waste Water Etc.	1
AODD/1-2/BAH/N	1/2"	Aluminium	Hytrel®	Diesel Fuel, Kerosene, Lubricants, Gear Oil, Engine Oil, Waste Oil, Brake Fluid, Naphtha, Mold Lubricants, Antifreeze And Waste Water	1
AODD/1-2/FPT/N	1/2"	Polypropylene	PTFE	Windshield Washer Fluid, Caustic Soda, Sulfuric Acid (Up To 75%), Plating Solution, Photograph Developing Liquid, Benzene, Hydrogen Peroxide, Waste Water Etc.	1
AODD/1-2/FPS/N	1/2"	Polypropylene	Santoprene®	Ethanol, Ammonium Hydroxide And Waste Water	1
AODD/3-4/BAH/N	3/4"	Aluminium	Hytrel®	Diesel Fuel, Kerosene, Lubricants, Gear Oil, Engine Oil, Waste Oil, Brake Fluid, Naphtha, Mold Lubricants, Antifreeze And Waste Water	1
AODD/3-4/BPS/N	3/4"	Polypropylene	Santoprene®	Ethanol, Ammonium Hydroxide And Waste Water	1
AODD/0-1/BAH/N	1"	Aluminium	Hytrel®	Diesel Fuel, Kerosene, Lubricants, Gear Oil, Engine Oil, Waste Oil, Brake Fluid, Naphtha, Mold Lubricants, Antifreeze And Waste Water	1

6

Waste Oil Evacuation Kits

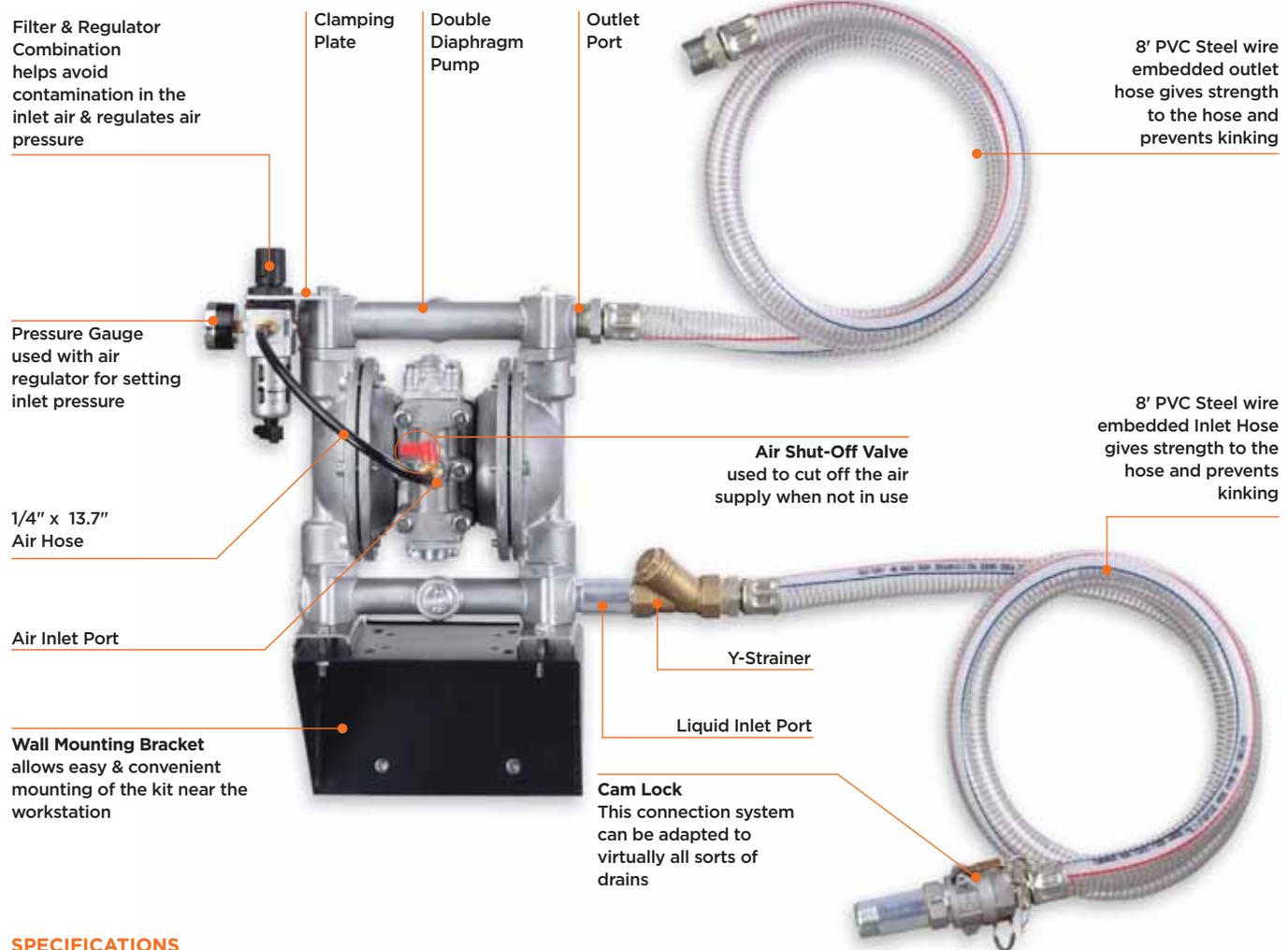
KIT-AODD

Ideal for use in workshops & garages for removing used oil from drains and delivering to the used oil sump tank

NEW!

Waste Oil Evacuation System includes:

1. Double Diaphragm pump
2. Filter Regulator combination
3. Two 8' PVC hoses, cam lock, Y- strainer, fittings
4. Pressure gauge and air hose
5. Wall mounting bracket
6. Clamping plate
7. PTFE tape



SPECIFICATIONS

	KIT/AODD/1-2/WO/N	KIT/AODD/0-1/WO/N
SIZE	1/2"	1"
FLOW RATE	0-50 LPM	0-110 LPM
CASING	Aluminium	Aluminium
DIAPHRAGM	Hytrel	Hytrel
MAX. PARTICLE SIZE	1/32" (1 mm)	1/16" (2 mm)

ORDERING INFORMATION

CAT NR.	BOX QTY.
KIT/AODD/1-2/WO/N	1
KIT/AODD/0-1/WO/N	1

FEATURES

AIR INLET PRESSURE

20 - 100 PSI
(1.40 - 6.89 BAR)

2

LUBRICANTS & PENETRANTS

Rust Removal & Prevention

NEW PRODUCTS TO LOOK OUT FOR

16



Rust Preventive
Lubricant Spray

18



Penetrating
Rust Solvent Spray

20



Rust Remover Gel


GETS YOU GOING!
A Tool Kit in a Can!

GO-20 is a multi-purpose industrial spray that can be used as a lubricant, a rust remover, a moisture displacer & cleaning and protecting agent. Very useful in mechanical maintenance.

The GROZ GO-20 is the
Ultimate Moisture Displacer

Exceptional water displacement properties, it is ideal for use in humid environments

Powerful Rust Repellent

Unique composition of GO 20 creates a long-lasting firm layer on the surface that prevents rusting

Effective Lubricator

Up to 7 times more effective than most leading brands

Super Cleaner

Powerful cleaner that removes oil, grease, grime, wax, tar, gum etc.

GO-20 USES

- CO₂ as a propellant makes GO-20 safe for use even in flammable environments
- Can be used on ferrous and non-ferrous metals, most paints, rubbers, plastics and coatings


**STUCK IN A
TIGHT SPOT?**

The GO-20 aerosol has a 360° ball bearing valve below the nozzle, enabling the aerosol to be completely inverted & still give you the perfect spray for all those hard to reach areas!



Loosens rusted nuts & bolts



Prevents rust, lubricates & cleans bike chains



Cleans & lubricates ball bearing



Cleans & isolates electrical connections



Cleans, lubricates & protects tools

ORDERING INFORMATION

CAT NR.	BOX QTY.
GO20	96

GO-20

NEW!

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

ULTIMATE MOISTURE DISPLACER	POWERFUL RUST REPELLANT	EFFECTIVE LUBRICATOR	SUPER CLEANER
Removes moisture from wet ignition systems of cars, trucks, motorbikes, marine engines & electric motors of power tools	Prevents & removes light rust from any exposed metal, door hinges, car doors, etc	Lubricates ball bearings & chains in lawnmowers, bicycles, skateboards etc	Cleans tar from car body work
Protects vehicle chassis in coastal areas	Protects tools from corrosion	Prevents squeaking	Cleans chewing gum from surfaces & messy walls
Extends the life of exterior light bulbs by nearly 30%	Protects & removes rust from electrical circuitry	Lubricates & protects firearms	Cleans & protects electrical equipment in outdoor locations
		Lubricates & loosens locks & catches	

SPECIFICATIONS

COMPLIANCE	SILICONE FREE	OZONE FRIENDLY	PROPELLANT	CAPACITY
✓ RoHS	✗ SILICONE	✗ CFC	CO ₂	300 GMS

APPLICATIONS INDUSTRIES

PASSENGER CARS	BIKES	COMMERCIAL VEHICLES	FARM EQUIPMENT
			
CONSTRUCTION EQUIPMENT	INDUSTRIAL MACHINERY	MARINE	HOME
			

HAZARDOUS COMPONENTS

High Pressures Gases: Octane, Nonane, Heavy Napthenic Tetrachloro ethylene

CAUTION

- Highly flammable. Do not spray near open flame.
- Components under pressure. Do not puncture can
- Do not expose to temperatures above 50°C even when empty
- Avoid contact with skin and eyes. If accidentally sprayed on skin/eyes wash thoroughly with running water.
- Keep away from children



Lubricates & protects air



Repels moisture & protects outboard motors



Lubricates & protects firearms



Lubricates car doors, locks, catches & hinges



Lubricates & protects tools & machinery



GO-10 is a quick acting penetrating rust solvent spray

Lower density than water gives it excellent penetrating power & releasing capability

The penetrating property of GO-10 along with it's release action helps in loosening of rust, scale & grit from bolts, knobs, hinges, bearings, castings, machined components etc.

Protects against rust & corrosion reducing friction and wear

Lubricates effectively for smooth movement

Ideal for applications where long term corrosion prevention may be required such as sea transportation or storage

Prevents use of an Acetylene torch to loosen seized fittings



STUCK IN A TIGHT SPOT?
The GO-10 aerosol has a 360° ball bearing valve below the nozzle, enabling the aerosol to be completely inverted & still give you the perfect spray for all those hard to reach areas!



Loosens rusted nuts & bolts



Unclogs fittings



Loosens jammed parts on machines



Frees stuck mechanism inside compressor piping



Penetrates & releases stuck shut off valve

ORDERING INFORMATION

CAT NR.	BOX QTY.
GO10	96

GO-10

NEW!

RELEASES & LOOSENS	ASSEMBLY & DISMANTLING	BREAKS & PROTECTS FROM RUST
Loosens seized & rusted tools: <ul style="list-style-type: none"> • Pliers • Shifting wrenches/spanners • Water pump pliers • Marine fittings • Pulley & shackles • Ball valves & key pins 	Eases assembly & dis-assembly of <ul style="list-style-type: none"> • Plumbing fittings • Mechanical fittings • Bearings • Ball joints & hinges 	Breaks down rust on all <ul style="list-style-type: none"> • Metal surfaces • Joints • Fittings
Releases seized nuts, bolts & fittings	Ideal for dismantling & assembly in panel shop (body shop) since it is silicon free	Prevents re-forming of rust

SPECIFICATIONS

SILICONE FREE	OZONE FRIENDLY	PROPELLANT	CAPACITY
X SILICONE	X CFC	PROPANE BUTANE	400 GMS

APPLICATIONS INDUSTRIES

PASSENGER CARS	BIKES	COMMERCIAL VEHICLES	FARM EQUIPMENT
			
CONSTRUCTION EQUIPMENT	INDUSTRIAL MACHINERY	MARINE	HOME
			

HAZARDOUS COMPONENTS:

Petroleum, Paraffin Oil, Acetone, Alcohol

CAUTION

- Highly flammable. Do not spray near open flame.
- Components under pressure. Do not puncture can
- Do not expose to temperatures above 50°C even when empty
- Avoid contact with skin and eyes. If accidentally sprayed on skin / eyes wash thoroughly with running water.
- Keep away from children

HIGHLY FLAMMABLE	WEAR SAFETY GLASSES
	



Releases stuck valve



Releases seized ball valves



Loosens & penetrates rusted plumbing joint



Frees stuck motor shaft & fan



Loosens rusty & seized hinges

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS


GETS YOU GOING!
NEW!

GO-12 is a unique non abrasive solvent blended rust remover

Prevents & removes hard rust without using any abrasive material

It loosens rusted parts & removes hard rust from metal components in minutes preparing the surface for priming and repainting

Ideal for use in garages, homes, workshops or farms for rusty tools, equipment & fittings

SPECIFICATIONS

HARMFUL	CAPACITY
X	200 ML

APPLICATIONS INDUSTRIES

PASSENGER CARS	BIKES	COMMERCIAL VEHICLES	FARM EQUIPMENT
			
CONSTRUCTION EQUIPMENT	INDUSTRIAL MACHINERY	MARINE	HOME
			

OXIDIZING	CORROSIVE	WEAR SAFETY GLOVES
		


HAZARDOUS COMPONENTS:

Phosphoric acid, Hydrochloric acid, Isopropanol

CAUTION

- Contains Phosphoric acid. Avoid contact with skin and eyes. If splashed on skin /eyes wash thoroughly with running water.
- Harmful if swallowed. If swallowed, drink 3-4 glasses of cold water or milk. Do not induce vomiting. Seek medical advice immediately.

WARNING

- Please test on a small section of the surface to be treated
- Do not use on chrome plated surfaces
- Do not use on certain grades of stainless steel
- Not to be left on treated surface for more than 30 minutes

ORDERING INFORMATION

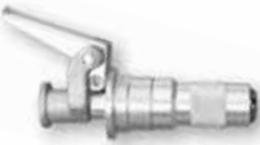
CAT NR.	BOX QTY.
GO12	96

3

FLUID HANDLING EQUIPMENT

Engineering end-to-end fluid handling solutions with guaranteed performance for every possible application

NEW PRODUCTS TO LOOK OUT FOR

30  Quick Dis-Connect Grease Coupler	51  Trolley Mounted Oil Pump Kits	74  Heavy Duty Steel Truck Drains	78  Fuel Vent Caps
36  Grease Feeders	65  Oil Bar	75  Plastic Truck Drain	96  Portable Fuel Filter
44  Trolley Mounted Grease Pump Kits	68  Funnels	76  Metal Drain Pan	

10

The Ultimate Lever Grease Gun

K45

High capacity - high output lever grease gun

Large barrel with 650 gms capacity (30% more than regular guns) helps in less frequent re-filling of grease

30% larger piston diameter pushes out 50% more grease per stroke, reducing time to grease a joint by half

Solid aluminum grease gun head fitted with loader valve for use with grease filler pump

Large venturi grease inlet designed for thick & heavy grease, common in India. Works with NLGI 1, 2 & 3 greases

Heavy gauge drop resistant steel barrel in premium metallic powder coated finish

Variable Stroke feature: Operates with minimal lever action, allowing usage in confined areas

High compression spring for removing air pockets from grease

Fully serviceable with no riveted parts

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
K45R/B	150 mm rigid steel extension & 3 jaw coupler	16


WARRANTY

5

YEARS

FEATURES

DELIVERS	DEVELOPS	BULK CAPACITY	VARIABLE STROKE
UPTO 1.5 GM / STROKE	UPTO 10,000 PSI (690 BAR)	650 GMS	

11

Lever Grease Gun Heavy Duty

G1-HD

Top of the line grease gun designed for heavy industrial applications

Solid aluminium grease gun head fitted with air bleeder & bulk loader valves

1.2 mm thick steel barrel with heavy duty follower spring, CNC machined head & rolled threads for fast & easy reloading

Multiple Loading: cartridge, suction fill & filler pump via the bulk loader

Variable stroke feature built-in for usage in confined spaces

Resists back pressure, especially useful in chain tightening of earth moving equipment

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
G1R/HD/B	150 mm rigid steel extension & 4 jaw coupler	16



FEATURES

DELIVERS	DEVELOPS	CAPACITY	VARIABLE STROKE
UPTO 1 GM / STROKE	UPTO 10,000 PSI (690 BAR)	500 GMS BULK / 400 GMS CARTRIDGE	

12

**Lever Grease Gun
Heavy Duty - V Series**

V1-HD

Professional model - ideal for lubrication in Automotive workshops, Agricultural & Light Industrial application

Aluminium die cast grease gun head with built-in air bleeder valve

Robust steel barrel with knurling for firm grip

Heavy duty handle with ergonomic non slip soft rubber grip

Available in 2 finishes:
a. Zinc plated
b. Black Powder Coated



ORDERING INFORMATION

CAT NR.	DETAILS	FINISH	BOX QTY.
VIR/HD/CP/B	150 mm rigid steel extension & 4 jaw coupler	Zinc Plated	16
VIR/HD/BL/B	150 mm rigid steel extension & 4 jaw coupler	Powder Coated	16

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 1 GM / STROKE	UPTO 6,000 PSI (413 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

13

**Lever Grease Guns
V Series**

V1

21st century design - ideal combination of superior quality & value price

Suitable for use in general lubrication & daily maintenance work

Aluminium die cast grease gun head with built-in air release valve

Soft rubber grip on lever handle for comfortable operation

Available in 2 finishes:
a. Orange powder coated
b. Black powder coated



ORDERING INFORMATION

CAT NR.	DETAILS	COLOUR	BOX QTY.
VIR/B	150 mm rigid steel extension & 4 jaw coupler	Orange	16
VIR/BL/B	150 mm rigid steel extension & 4 jaw coupler	Black	16

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 1 GM / STROKE	UPTO 6,000 PSI (413 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

14
**Lever Grease Gun
Super Value**
G1

Most popular value priced grease gun - for general purpose lubrication across all sorts of applications

Drop resistant steel head with a bulk loader valve

Soft rubber grip on lever handle for comfortable use

Durable powder coated finish


ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
G1R/B/T/EC/BL	150 mm rigid steel extension & 4 jaw coupler	16

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 1 GM / STROKE	UPTO 6,000 PSI (413 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

15
**Pistol Grip
Grease Gun**
G5

Most popular one hand grease gun designed for use in confined spaces or where access to grease nipples is restricted

1.2 mm thick steel barrel with heavy duty follower spring

CNC machined head & rolled threads for fast & easy reloading

Aluminium die cast head with steel block nut

Pistol handle designed to prevent fingers from pinching


ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
G5R/B	100 mm rigid steel extension & 4 jaw coupler	16

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 0.50 GM / STROKE	UPTO 5,000 PSI (345 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

16

Mini Lever Grease Gun

G14

When you need a tough little grease gun for hard to reach places, this is it!

Compact tool box size grease gun

Aluminium die cast head

Develops upto 6,000 PSI / 413 BAR, the highest in its class of mini grease guns



ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
G-14R/B	150 mm rigid steel extension & 4 jaw coupler	30

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 0.55 GM / STROKE	UPTO 6,000 PSI (413 BAR)	120 CC BULK / 85 GMS CARTRIDGE

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

17

Mini Pistol Grease Gun - Deluxe

G16

One hand pistol grip grease gun with convenient pull type operating mechanism

Aluminum cast head with front & top discharge ports

Ideal for greasing in tight spaces such as CNC machines



Front discharge port used for regular greasing applications



Top Port used primarily with flexible hose for greasing in inaccessible areas

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
G-16/B	100 mm rigid steel extension & 4 jaw coupler	30

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 0.40 GM / STROKE	UPTO 3,500 PSI (240 BAR)	120 GMS BULK / 85 GMS CARTRIDGE

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

18

Push Type Grease Guns

G6

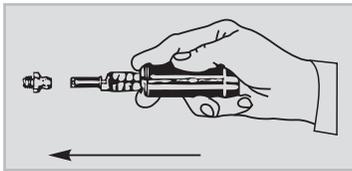
G7

Push type grease guns for use with bulk grease only

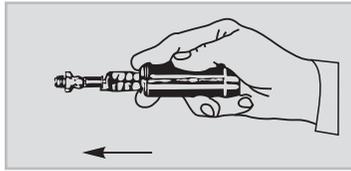
Compact tool box size

Steel body fitted with universal connector

Ideal for greasing of impact wrenches, chain saws, trailers, pallet trucks etc.



Align Push Gun straight with fitting



Push with palm of hand



ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(gms)	
G6P	30	50
G7P	125	50

FEATURES

DELIVERS	DEVELOPS
UPTO 0.90 GM / SHOT	UPTO 1,000 PSI (69 BAR)

19

Air Operated Grease Gun

AGG-1

High power, continuous flow air operated grease gun

Continuous discharge of grease with the trigger pressed

Air Operating Range: 40-120 PSI (3-8 BAR)

Pressure Ratio: 40:1

Air Inlet: 1/4"(F)

For use in factory maintenance, agricultural applications, fleet service or for use on trucks connected to vehicle air brake compressors



ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
AGG/1R/B	150 mm rigid steel extension & 4 jaw coupler	4

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 400 GM / MINUTE	UPTO 4,800 PSI (330 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

20

19.2V Battery Powered Grease Gun

BPGG-19

Powerful 19.2V high torque motor

Standard 1.5Ah Ni-Cd battery pack

An additional 1.5Ah Ni-Cd battery pack for uninterrupted greasing

Automatic air release valve & bulk loader

One hour quick charger. Each battery charge provides power to dispense upto 2.4 kg grease in free flow condition

Complete with 30" high pressure hose with spring guard on both ends (prevents hose from kinking), 4 jaw coupler & 400 gm grease cartridge

Comes packed in a blow moulded case for safe storage & ease of transportation

Designed for use by mechanics, technicians, maintenance staff, farmers etc. for everyday greasing & preventive maintenance jobs.



Safety Valve-releases grease at pressures over 6,000 PSI preventing damage to gun

Automatic Air Release Valve



RB/BPGG/19N
1.5 Ah Ni-Cd battery pack



BC/BPGG/19N/EU
Battery charger



SS/BPGG/19N
Shoulder strap included



CTG/01
400 gm grease cartridge



BMC/BPGG/19N
Blow moulded case for safe storage

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
GREASE GUN ASSEMBLY		
BPGG/19/EU-CTG/01P	Cordless grease gun with 220V/50Hz Battery Charger, 2 pin plug & 400 gm grease cartridge	1
SPARE PARTS & ACCESSORIES		
RB/BPGG/19N	Rechargeable Battery, 19.2V, 1.5 Ah, Ni-Cd	1
BC/BPGG/19N/EU	1 hour CE energy saving battery charger, 220V/50Hz., 19.2V, 2 pin plug	1
SS/BPGG/19N	Carrying / Shoulder strap	1
CTG/01	400 gms grease cartridge	10
BMC/BPGG/19N	Carrying case / Blow moulded case	1

FEATURES

DELIVERS	DEVELOPS	CAPACITY
UPTO 85 GM / MINUTE *	UPTO 6,000 PSI (413 BAR)	500 GMS BULK / 400 GMS CARTRIDGE

* in free flow

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

21

Hydraulic Couplers Standard

HC-11

Most popular couplers for use with grease guns for general maintenance

Narrow coupler design for use on fittings with limited access

Milled slot for easy tightening

Fully hardened spring steel jaws

Recommended for use with hand operated grease guns



HC/11/4/B



HC/11/4/B/ST54

ORDERING INFORMATION

CAT NR.	THREADS	JAWS	BOX QTY.
HC/11/4/B	1/8" BSPT	4	500
HC/11/4/BSP	1/8" BSP	4	100
SET OF 54 COUPLERS			
HC/11/4/B/ST54	1/8" BSPT	4	1

FEATURES

PRESSURE	WITH BALL CHECK	FOR USE WITH HAND OPERATED GREASE GUNS
UPTO 3,000 PSI (207 BAR)		

22

Hydraulic Couplers Professional

HC-14

Best selling coupler for professional use

Hardened coupler body withstands high pressure without deformation

Fully hardened spring steel jaws

Hexagonal nut for easy tightening

Recommended for use with hand operated grease guns



HC/14/4/B



HC/14/4/B/ST54

ORDERING INFORMATION

CAT NR.	THREADS	JAWS	BOX QTY.
HC/14/3/B	1/8" BSPT	3	100
HC/14/4/B	1/8" BSPT	4	100
SET OF 54 COUPLERS			
HC/14/4/B/ST54	1/8" BSPT	4	1

FEATURES

PRESSURE	WITH BALL CHECK	FOR USE WITH HAND OPERATED GREASE GUNS
UPTO 6,000 PSI (413 BAR)		

23

**Hydraulic Couplers
Heavy Duty**

HC-12

Heavy duty couplers recommended for use with air operated grease guns

Hardened coupler body with double wall thickness withstands high pressure without deformation

Fully hardened spring steel jaws

Hexagonal nut for easy tightening



ORDERING INFORMATION

CAT NR.	THREADS	JAWS	BOX QTY.
HC/12/3/B	1/8" BSPT	3	100
HC/12/4/B	1/8" BSPT	4	100

FEATURES

PRESSURE	WITH BALL CHECK	FOR USE WITH HAND & AIR OPERATED GREASE GUNS
UPTO 10,000 PSI (690 BAR)		

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

24

**Hydraulic Coupler
360°**

HC-SW

An excellent coupler for effective lubrication of difficult & hard to reach grease fittings

Jaws are fully hardened for extended service life

Hardened coupler body & swivel joints withstand high-pressure applications without deformation

Zinc plated finish

Spring loaded ball check valve helps retain pressure

Swivels in full 360° circle & locks conveniently at any 45° position. 45° angle gives easy access to most grease fittings

Hexagonal nut allows easy tightening



ORDERING INFORMATION

CAT NR.	THREADS	JAWS	BOX QTY.
HC/SW/3/B	1/8" BSPT	3	10

FEATURES

PRESSURE	WITH BALL CHECK	FOR USE WITH HAND OPERATED GREASE GUNS
UPTO 7,000 PSI (483 BAR)		

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

The GROZ Quick Dis-Connect grease coupler is designed for quick & convenient dis-engagement of coupler from grease / zerk fittings under pressure.

Grease coupler for use with all types of manual air and battery operated grease guns and pumps

Jaws are designed to fit all types of head profiles & work with both SAE & metric fittings.

Coupler jaws are built from heat treated spring steel for increased wear resistance

Coupler jaws move inside the steel wall when the thumb lever is actuated. This provides for additional back support to the jaws in high pressure greasing

3 Jaw construction helps in better alignment.

The coupler body is also heat treated to withstand high pressures without deformation

FEATURES
PRESSURE

**UPTO
8000 PSI
(550 BAR)**

NEW!

**Hands free
& leak proof
greasing !!**



CONVENIENT ENGAGEMENT
Press thumb lever and slide the coupler jaws on the grease fitting. Coupler engages completely & remains firm thus allowing hands free operation.



EASY RELEASE
Simply press the thumb lever to disconnect coupler from grease fitting



**HANDS FREE
OPERATION**
Coupler need not be held during greasing

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
HC/20/3/B	1/8" BSPT (F)	10
SPARE PARTS & KITS		
KIT/RPR/HC/20	Includes: Seal body, 3 Jaws, Spring, Non return spring, Seal	1

26

Button Head Couplers

BHC-10

HOC-1

PCN-2

PCN-1

PCN-3

A range of couplers for use with button head grease fittings, found mainly on heavy machinery, agricultural & contractor's equipment etc.

Zinc die cast construction

All couplers have a metal seal that imparts increased resistance to wear

Couplers conveniently slide over the face of the button head fittings

Threaded 1/8" BSPT (F)

BHC-10

Swivelling for 5/8" (16 mm) Button Head Fittings

PRESSURE

UPTO 3,000 PSI (207 BAR)



HOC-1

Fixed Hook-On for 5/8" (16 mm) Button Head Fittings

PRESSURE

UPTO 3,000 PSI (207 BAR)



PCN-1

Fixed Push-On for 5/8" (16 mm) Button Head Fittings

PRESSURE

UPTO 3,000 PSI (207 BAR)



PCN-3

Medium Duty for 5/8" (16 mm) Button Head Fittings

PRESSURE

UPTO 6,000 PSI (413 BAR)



PCN-2

Heavy Duty for 7/8" (22 mm) Giant Button Head Fittings

PRESSURE

UPTO 7,500 PSI (517 BAR)



ORDERING INFORMATION

CAT NR.	TYPE	FOR BUTTON HEAD FITTING SIZE		BOX QTY.
		(mm)	(inch)	
BHC/10/B	Heavy Duty Swivelling	16	5/8	10
HOC/1/B	Fixed Hook On	16	5/8	10
PCN/1/B	Fixed Push On	16	5/8	10
PCN/3/B	Fixed Push On - Medium Duty	16	5/8	10
PCN/2/B	Fixed Push On - Heavy Duty	22	7/8	10

FEATURES

WITHOUT BALL CHECK	FOR USE WITH HAND OPERATED GREASE GUNS
	

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

27

Grease Gun Hoses

GHC

Grease hoses facilitate greasing of fittings in areas with limited access

Thermoplastic construction, fully flexible with outer diameter (O.D.) 8.5 mm

Zinc plated steel end connections with hydraulic crimping

Threaded 1/8" BSPT (M) on both ends



ORDERING INFORMATION

CAT NR.	LENGTH (END TO END)		BOX QTY.
	(mm)	(inch)	
GHC-12/B	300	12	30
GHC-18/B	450	18	20
GHC-20/B	500	20	10

FEATURES

WORKING PRESSURE	BURST PRESSURE	FOR USE WITH HAND OPERATED GREASE GUNS
UPTO 3,500 PSI (240 BAR)	UPTO 10,000 PSI (690 BAR)	

28

Grease Gun Steel Extensions

Steel construction with bright zinc plated finish

High strength rolled threads 1/8" BSPT(M) on both ends

Available in straight & bent types



ORDERING INFORMATION

CAT NR.	LENGTH (END TO END)		TYPE	BOX QTY.
	(mm)	(inch)		
GSP/4/B	100	4	Straight	100
GBP/6/B	150	6	Bent	100

FEATURES

WORKING PRESSURE	FOR USE WITH HAND & AIR OPERATED GREASE GUNS	
UPTO 6,000 PSI (413 BAR)		

29

Grease Cartridge

CTG

400 gms of premium lithium complex red grease

NLGI Grade 2

Non messy, totally clean offering highest convenience in usage

Useful for all automotive, industrial, construction & agricultural applications

Recommended for use with GROZ grease guns



ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(gms)	
CTG/01	400	10

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

30

Grease Fitting Set

GFT-KIT

65 pcs of metric, SAE grease fittings & accessories packed to a plastic box

NEW!

SPECIFICATIONS

THREAD SPECIFICATION	STRAIGHT	90°
1/8" - 27 PTF	10 pcs	5 pcs
1/4" - 28 SAE-LT	10 pcs	5 pcs
M6 x 1	10 pcs	
M8 x 1	10 pcs	
ESO/1 - Easy out Tool (small)		1 pc
ESO/2 - Easy Out Tool (large)		1 pc
Grease Fitting Caps - RED		5 pcs
Grease Fitting Caps - YELLOW		5 pcs
HC/14/4/N - Professional 4 jaw coupler		2 pcs
THT/01 - Grease Fitting Thread Tester		1 pc

ORDERING INFORMATION

CAT NR.	BOX QTY.
GFT/KIT/ULT/SM-65	5



PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Manufactured to the most stringent quality standards - TS 16949 approved manufacturing

Head profile & dimensions are accurately controlled & conform to DIN 71412

Heat treated greasing ends

Zinc plating exceeds ASTM B117

Fittings have heat treated springs for increased life

Available ready from stock in a large selection of popular types & sizes, with many more variations custom manufactured



Grease Fitting - Straight



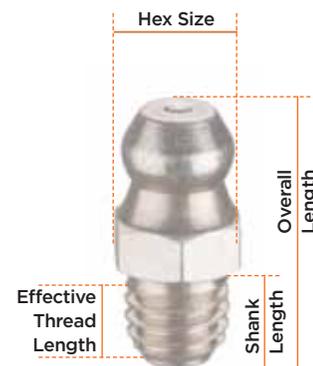
Grease Fitting Angled - 45°



Grease Fitting Angled- 90°

ORDERING INFORMATION

CAT NR.	TYPE	HEX SIZE	OVERALL LENGTH	BOX QTY.
6.0 × 1.0 MM TAPER THREADS				
GFT/6/1	Straight	7 mm	16 mm	100
GFT/6/1/45	45°	9 mm	21 mm	50
GFT/6/1/90	90°	9 mm	18 mm	50
8.0 × 1.0 MM TAPER THREADS				
GFT/8/1	Straight	9 mm	16 mm	100
GFT/8/1/45	45°	9 mm	21 mm	50
GFT/8/1/90	90°	9 mm	18 mm	50
10.0 × 1.0 MM TAPER THREADS				
GFT/10/1	Straight	11 mm	16 mm	100
GFT/10/1/45	45°	11 mm	21 mm	50
GFT/10/1/90	90°	11 mm	18 mm	50
10.0 MM × 1.5 MM TAPER THREADS				
GFT/10/1.5	Straight	11 mm	18 mm max.	100
GFT/10/1.5/45	45°	11 mm	21 mm max.	50
GFT/10/1.5/90	90°	11 mm	18 mm max.	50
1/8" × 28 BSPT - TAPER THREADS				
GFT/R/1-8/28	Straight	11 mm	16 mm	100
GFT/R/1-8/28L	Straight	11 mm	20 mm	50
GFT/R/1-8/28/45	45°	11 mm	21 mm	50
GFT/R/1-8/28/45L	45°	11 mm	26.3 mm	50
GFT/R/1-8/28/90	90°	11 mm	18 mm	50
GFT/R/1-8/28/90L	90°	11 mm	21.4 mm	50
1/4" × 19 BSPT - TAPER THREADS				
GFT/R/1-4/19	Straight	9/16"	17.5 mm	50
GFT/R/1-4/19L	Straight	15.24 mm	23.5 mm	25
GFT/R/1-4/19/45	45°	9/16"	22.5 mm	50
GFT/R/1-4/19/90	90°	9/16"	22 mm	50



FEATURES

PRESSURE

**UPTO
6,000 PSI
(413 BAR)**

32

Easy Out Tools

ESO

Dual purpose tools for removing worn out & broken grease fittings & tapping holes for installing new grease fittings

Built-in hardened tap for re-tapping holes

Works well with both straight & angled fittings



ORDERING INFORMATION

CAT NR.	TYPE	OPENS FITTING WITH HEX SIZE	TAP RE-THREADS	BOX QTY.
ESO/1	Small	5/16" & 3/8"	1/4" - 28 SAE (LT)	10
ESO/2	Large	3/8" & 7/16" (11 mm)	1/8" - 27 PTF	10

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

33

Grease Fitting Thread Tester

THT

Great toolbox accessory to sort out mixed grease fittings

Aluminium construction with mounting holes

Designed to check 21 most popular thread types:

THREAD TYPE	SIZE			
	1/8"	1/4"	3/8"	-
METRIC	M6 x 1	M6 x 0.75	-	-
METRIC	M8 x 1	M8 x 1.25	-	-
METRIC	M10 x 1	M10 x 1.5	-	-
BSPT	1/8"	1/4"	-	-
UNF/ANF	1/4"	5/16"	3/8"	-
BSW	1/4"	5/16"	1/2"	3/8"
BSF	3/16"	1/4"	5/16"	-



ORDERING INFORMATION

CAT NR.	BOX QTY.
THT/01	5

Grease Feeders are used to provide single point controlled lubrication for all types of bearing housings thereby eliminating difficulties arising due to over or under greasing

Working on a spring compression mechanism, the design regulates grease discharge in proportion to changing spring pressure, thus maintaining constant discharge pressure of 1-2 PSI

Die cast aluminium bodies with polycarbonate dome assembled with medium springs. Heavy & light spring come as spares in the same pack and can be easily interchanged depending upon application

Can be mounted in any position for easy visual inspection of grease levels

Reusable: Can be refilled easily with immediate activation.

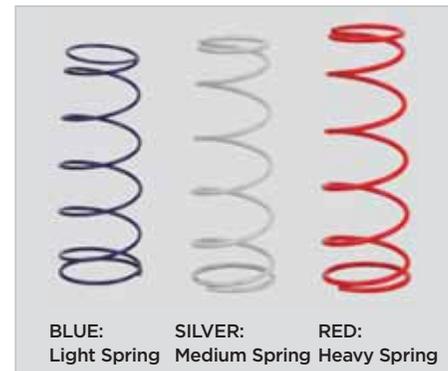
1/8" (M) steel adaptor at the tail end fits directly onto bearing housings
Thread converters & angle adaptors available as spares

Remote Refill kit also available that permits remote filling of grease from distances up to 3 meters (10')

RECOMMENDED USE

For use with NLGI 0 to 4 non separating grease on any equipment that:

- has anti friction, oscillating or roller bearings
- has shielded bearings with seals
- has bronze, olite or open bearings
- requires bearing flushing action


NEW!


SPRING SELECTION GUIDE

OPERATING TEMPERATURE		NLGI GREASE TYPE				
FROM	TO	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4
-23°C	4°C	Blue	Silver	Red		
4°C	43°C	Blue	Silver	Silver	Red	
43°C	93°C		Blue	Silver	Silver	Red
93°C	121°C			Blue	Silver	Red

SIZE SELECTION GUIDE

BEARING SHAFT DIA.	Upto 1-1/2" (38 mm)				1-1/2" (38 mm) & over			
	Intermittent		Continuous		Intermittent		Continuous	
OPERATING CONDITION	Open	Sealed	Open	Sealed	Open	Sealed	Open	Sealed
CLASS OF BEARING	Open	Sealed	Open	Sealed	Open	Sealed	Open	Sealed
UNDER 1000 RPM	1 oz.	1 oz.	1 oz.	1 oz.	2 oz.	2 oz.	2 oz.	2 oz.
1000 TO 2500 RPM	1 oz.	1 oz.	1 oz.	1 oz.	2 oz.	2 oz.	6 oz.	6 oz.
OVER 2500 RPM	2 oz.	1 oz.	2 oz.	2 oz.	6 oz.	6 oz.	6 oz.	6 oz.

ORDERING INFORMATION

CAT NR.	BOWL CAPACITY		OVERALL DIA.		OVERALL HEIGHT		BOX QTY.
	(oz.)	(gms)	(inch)	(mm)	(inch)	(mm)	
GFD/PA/1/B	1	28	1-3/4	40	3-5/8	92	1
GFD/PA/2/B	2	56	2-3/8	60	4-5/8	117	1
GFD/PA/6/B	6	170	3	75	6	150	1
REMOTE GREASE REFILL KIT							
GFD/RK/1	3m (10') Grease hose with all fittings						1

35

Ezee Lube Kit

GAK-7

A range of quick connect accessories suitable for most difficult greasing jobs

Constituents:

Professional Recessed Lube Adaptor:

For greasing of recessed fittings, or areas with obstruction where regular grease couplers cannot be used

Grease Injector Needle:

For greasing in very tight spaces, such as universal joints, sealed bearings etc.

Professional 90° Angled Lube Adaptor:

Useful for greasing in shoulders & other confined areas

Narrow Needle Nose Adaptor:

Useful for greasing hard to reach fittings on trucks, vans etc.

Seal off Quick Dispenser:

Converts a jaw type coupler to a seal off dispenser allowing it to be used for lubricating automobiles with grease plugs

Right Angled Quick Coupler:

Converts a regular coupler to a right angled coupler allowing it to be used for greasing of fittings with limited access

Quick Connect Hose:

Converts a steel extension assembly to a flexible hose allowing access to hard to reach fittings



ORDERING INFORMATION

CAT NR.	BOX QTY.
GAK/7	5

36

Deluxe Steel Bearing Packer - Rapid Action

BEP-625

Rapid action bearing packer for use with grease guns

Useful for greasing bearings in cars, boats, tractors etc.

Rugged steel construction

Non-threaded top cone for fast placement of bearings

Design incorporates grease nipple on the outer shaft that adapts to the grease gun coupler

Suitable for use with bearings with a minimum inner diameter of 1/2" (12 mm) to a maximum outer diameter of 6" (150 mm)



ORDERING INFORMATION

CAT NR.	BOX QTY.
BEP/625	12

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Fully portable & single person operation manual greasing system designed for volume greasing in workshop environments, site applications, on a pick-up truck, tractor, earth moving equipment etc.

Pump is operated by foot press of the spring loaded system. The hose gets charged with grease, which can then be dispensed through the super gun fitted at the end of the hose. A single charge provides upto 30 shots of grease

Aluminium die cast super gun develops greasing pressure and has high pressure & high volume settings, actuated through a simple switch

High pressure feature is very useful to open blocked grease fittings

Pump assembly is fully sealed to prevent contamination

Pump comes complete with drum cover, rubber lined follower plate, premium 1/2" ID high pressure hose, super gun fitted with steel extension, coupler and 5 kg plastic grease bucket

WETTED COMPONENTS

Aluminum, Steel, Brass, Polyurethane & Nitrile Rubber

RECOMMENDED USE

NLGI 1 & 2 greases



Common sight on construction equipment requiring high volume routine greasing

FEATURES

DEVELOPS	DELIVERS
UPTO 10,000 PSI (690 BAR) ON HIGH PRESSURE SETTING	UPTO 1.25 GMS / STROKE ON HIGH VOLUME SETTING

ORDERING INFORMATION

CAT NR.	BUCKET CAPACITY	PUMP LENGTH BELOW DRUM COVER		DRUM COVER DIAMETER		FOLLOWER PLATE DIMENSIONS				HOSE LENGTH	BOX QTY.
						O.D. STEEL END		O.D. PLATE			
						(mm)	(inch)	(mm)	(inch)		
GS/5	5	197	7-3/4	216	8-1/2	171	6-3/4	206	8-1/8	1.5	1
KRGI/UB						Grease Control Gun					1

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Foot Operated Grease Pump

FOP-10

High pressure portable grease pump for quick effortless greasing in everyday lubrication such as greasing of excavators & other earth moving equipment, agricultural equipment, automotive etc.

Hands free operation: Pump operates using the foot lever, which greatly reduces effort & allows high pressure greasing with highest comfort

Can be operated by hand when under low machinery

Economical: Pump is operated by a single person & uses low cost bulk grease

Designed with all moving parts submerged in the same grease which needs to be pumped, thereby staying lubricated at all times

Moving parts create wave action in grease, auto removing air pockets & eliminating the use of a follower plate

RECOMMENDED USE
NLGI 1 & 2 greases

FEATURES

DEVELOPS	DELIVERS
UPTO 8,700 PSI (600 BAR)	UPTO 2 GM / STROKE

Lift handle

Steel drum cover

Steel bucket
10 kg
capacity

Nozzle
holder



Pistol handle
fitted with
steel grease
extension &
professional
coupler

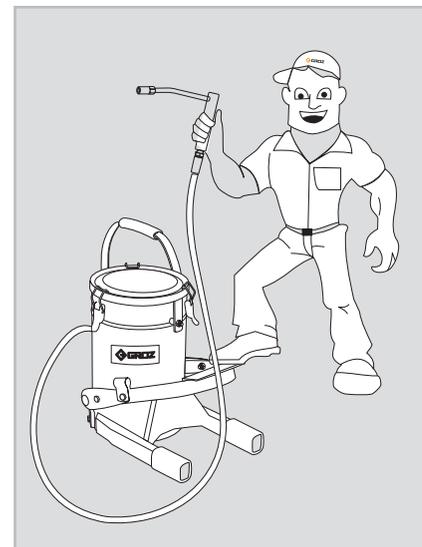
Includes
2m x 1/4\" ID high
pressure rubber
hose

Foot lever

Rubber pads

ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(kg)	
FOP/10A	10	1
SPARE PARTS & KITS		
KIT/FOP/MPK	Main piston kit	1
KIT/FOP/HAK	Hose assembly kit	1



INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

Volume grease pump designed for quick & effortless greasing in applications requiring large volume of lubrication everyday

For use with agricultural equipment, excavators & other earth moving equipment & in automotive applications

Variable Handle Setting: can be set for high volume or high pressure grease discharge. Pump delivers upto 9gms of grease on high volume setting. Fully CNC machined to close tolerances the pump develops upto 4,000 PSI (275 BAR) on high pressure setting

Includes follower plate

WETTED COMPONENTS

Steel, Aluminium, Brass & Nitrile Rubber

RECOMMENDED USE

NLGI 1, 2 & 3 greases



Lift handle

Variable handle setting

Air release valve for removing trapped air from grease

Max. grease level marked on the grease bucket

Swivel connector, allows easy manoeuvrability of hose without hose kinking

High pressure hose 2m x 1/4" ID

Steel bucket with foot rest



VGP/10A
(without wheels)

FEATURES

DEVELOPS
UPTO 4,000 PSI (275 BAR) ON HIGH PRESSURE SETTING
DELIVERS
UPTO 9 GM / STROKE ON HIGH VOLUME SETTING

Variable Handle Setting



VGP-6

VGP-15

VGP-10

VGP-20

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS



VGP/6
(with wheels)



VGP/10
(with wheels)



VGP/15
(with wheels)



VGP/6A
(without wheels)



VGP/20
(with wheels)

ORDERING INFORMATION

CAT NR.	CAT NR.	CAPACITY	BOX QTY.
WITHOUT WHEELS	WITH WHEELS	(kg)	
VGP/6A	VGP/6	6	1
VGP/10A	VGP/10	10	1
---	VGP/15	15	1
---	VGP/20	20	1
SPARE PARTS AND KITS			
ZSA/HOS/VGP10A	2m x 1/4" ID spare hose		20
FLP/PT/X/15A	Spare follower plate		25
KIT/05/VGP	Repair kit		100

40

Air Operated Grease Ratio Pumps 50:1

World-class industrial high pressure grease pumps with guaranteed performance & hassle free operation

Pump dispenses grease at pressures upto 50 times the air inlet pressure

Designed to work in tough conditions - these are ideal for use in industry, workshop, farm, construction or as part of the Mobile Grease System

All metal construction, fully CNC machined with hardened wear resistant moving parts

Reciprocating piston operated 63 mm dia. air motor

Fitted with strainer at suction tube inlet for clean grease to the bearing

Supplied complete with drum cover, rubber lined follower plate, 7' (84") of high pressure grease hose, z-swivel & professional grease control valve

Portable version available with built-in steel drum, complete with wheels & pull handle

Recommended for use with light and self collapsing grease upto NLGI 2

WETTED COMPONENTS

Steel, Brass, Aluminium, Polyurethane & Nitrile Rubber

RECOMMENDED USE

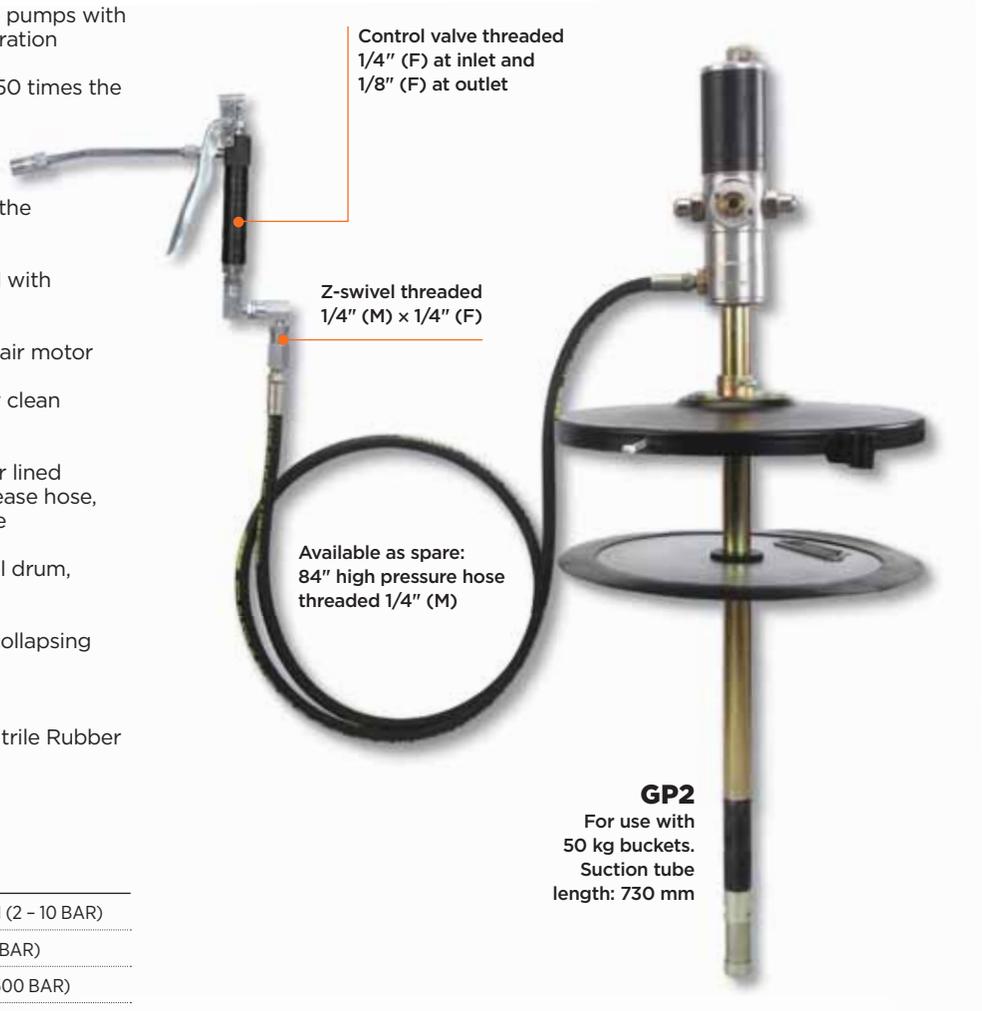
Light & self collapsing grease upto NLGI 2

SPECIFICATIONS

WORKING PRESSURE	30 - 150 PSI (2 - 10 BAR)
MAXIMUM AIR PRESSURE	150 PSI (10 BAR)
MAXIMUM OUTLET PRESSURE	7500 PSI (500 BAR)
AIR INLET CONNECTION	1/4" BSP (F)
PUMP OUTLET CONNECTION	1/4" BSP (F)
AIR CONSUMPTION	230 lt / min
GREASE OUTPUT (NLGI 2 GREASE)	Upto 1.10 kg / min
NOISE LEVEL	81 db

ORDERING INFORMATION

CAT NR.	DRUM SIZE	DRUM COVER DIA.	FOLLOWER PLATE DIMENSIONS			BOX QTY.
			O.D. STEEL END	O.D. PLATE	I.D. GROMMET	
GREASE PUMP FOR USE ON GREASE DRUMS						
GP1/ST/501/BSP	20-30 kg	305 mm	241 mm	288 mm	29.5 mm	1
GP2/ST/501/BSP	50-60 kg	381 mm	322 mm	380 mm	29.5 mm	1
GP3/ST/501/BSP	180 kg	612 mm	550 mm	602 mm	29.5 mm	1
PORTABLE GREASE PUMP SYSTEM COMPLETE WITH GREASE DRUM						
BGRP/15		15 kg				1
BGRP/30		30 kg				1
BGRP/50		50 kg				1
SPARE PARTS & KITS						
FLP/550-612/6/GP3		Spare follower plate for 180 kg grease drums				1
KIT/TP/RP-G		Air motor repair kit				1
KIT/BTM/RP-G		Pump chamber repair kit				1



GP2
For use with 50 kg buckets. Suction tube length: 730 mm

FEATURES

DEVELOPS	DELIVERS
UPTO 7,500 PSI (500 BAR)	UPTO 1.10 KG / MINUTE

WARNING

Pump must be supplied with clean & dry compressed air via an FRL unit

GP-1

GP-3

GP-2

BGRP



GP1
For use with 20 kg drums.
Suction tube length: 440 mm



GP3
For use with 180 kg drums.
Suction tube length: 950 mm

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT



BGRP/15
Portable grease pump
with built-in 15 kg
grease bucket



BGRP/30
Portable grease pump
with built-in 30 kg
grease bucket



BGRP/50
Portable grease pump
with built-in 50 kg
grease bucket

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

Trolley Mounted kits are ideal for use in workshops, garages, shop floors, providing complete portability for everyday greasing jobs

A typical kit is formed of:

1. 50:1 Air Operated Grease Pump
2. Steel Drum Cover
3. Rubber Lined Follower Plate
4. Grease Hose
5. Grease Control valve fitted with Z Swivel
6. Drum Trolley
7. 1/4" Miniature Air Filter-Regulator & Lubricator

Trolley mounted kits for 180 kg drums additionally include a heavy duty metal hose reel

4 heavy duty castors for ease of movement. Rear castors with toe-locks that ensure safety

Kit comes in CKD form & can be assembled quickly

NEW!

TMK/GP1/A/BSP
FEATURES

WORKING PRESSURE	DILEVERS
30-150 PSI (2-10 BAR)	UPTO 1.1 KG / MINUTE

SPECIFICATIONS

MODEL	TMK/GP1/A/BSP	TMK/GP2/A/BSP	TMK/GP3H/A/BSP
FOR USE WITH	20-30 kgs	50-60 kgs	180 kgs
MAX. OUTLET PRESSURE	7,500 PSI (500 BAR)	7,500 PSI (500 BAR)	7,500 PSI (500 BAR)
HOSE	84" High Pressure	84" High Pressure	84" High Pressure
AIR CONSUMPTION OF PUMP	230 LPM	230 LPM	230 LPM
NOISE LEVEL	81 db	81 db	81 db
DRUM COVER SIZE	12" (310 mm)	15" (381 mm)	24-1/2" (612 mm)
FILTERING ELEMENT IN FILTER	40 Micron	40 Micron	40 Micron

ORDERING INFORMATION

CAT NR.	DESCRIPTION	HOSE REEL INCLUDED	BOX QTY.
TMK/GP1/A/BSP	Trolley mounted kit with grease ratio pump for 20-30 kg drums	No	1
TMK/GP2/A/BSP	Trolley mounted kit with grease ratio pump for 50-60 kg drums	No	1
TMK/GP3H/A/BSP	Trolley mounted kit with grease ratio pump for 180 kg drums	Yes	1

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maxilube® Air Operated 50:1 Grease Pump

P8

Highly reliable air operated 50:1 pump for dispensing grease at 50 times the pressure as the air inlet

Award winning pump design with a non corroding air motor that requires no lubricator in the air line

Ideal for use in automotive workshops for use with light & self collapsing grease upto NLGI 2

Built-in pressure relief valve prevents both the pump & system against damage created by excessive pressure due to thermal expansion

Supplied complete with drum cover, rubber lining follower plate, 84" high pressure rubber hose & booster grease control valve fitted with z-swivel, steel extension & coupler

SPECIFICATIONS

WORKING PRESSURE	60 - 150 PSI (4-10 BAR)
MAXIMUM AIR PRESSURE	150 PSI (10 BAR)
MAXIMUM OUTLET PRESSURE	7500 PSI (500 BAR)
AIR INLET CONNECTION	1/4" NPT (F)
PUMP OUTLET CONNECTION	1/4" NPT (F)
AIR CONSUMPTION	270 lt / min
GREASE OUTPUT (NLGI NO. 2 GREASE)	0.460 kg / min
NOISE LEVEL	85 db

FEATURES

DEVELOPS	DELIVERS
UPTO 10,000 PSI (690 BAR)*	UPTO 0.460 KG / MINUTE

*Achieved through pressure boost using the Booster Grease Control Valve



ORDERING INFORMATION

CAT NR.	FITS	DRUM COVER DIA.	FOLLOWER PLATE DIA.	BOX QTY.
P8-G	180 kg Drum	24 -1/2"	602 mm	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

43

Portable Greasing System

GS100

Designed to cater to daily bulk greasing needs at workshops requiring movable systems

Includes:

- maxilube® Air Operated 50:1 pump suitable for 180 kg drums
- Pump complete with drum cover, follower plate, 84" high pressure grease hose
- Booster grease control valve
- Retracta auto rewind grease hose reel
- Drum Trolley for 180 kg drums



ORDERING INFORMATION

CAT NR.	BOX QTY.
GS100-G	1

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

44

Grease Control Valve Professional

APG-HD

Grease control valve for use with air operated grease pumps

Highly durable all steel construction, fully CNC machined

Dispenses grease at the same pressure as the pump outlet pressure

Designed to handle grease upto pressures of 7,500 PSI

Valve inlet fitted with 360° Z-swivel which permits easy handling of the valve and prevents damage to hose caused by twisting

Comes complete with 6" steel extension & heavy duty coupler


WARNING

Skin injection hazard.
Keep away from nozzle

FEATURES
DEVELOPS
**UPTO
7,500 PSI
(500 BAR)**
CAUTION

The gun is continuous action.
Be careful not to over lubricate.

ORDERING INFORMATION

CAT NR.	INLET THREADS	OUTLET THREADS	BOX QTY.
APG/HD/Z/1-4F/B	1/4" BSPT (F)	1/8" BSPT (F)	1

45

Grease Control Valve Booster

APG

Grease control valve for use with air operated grease pumps

Built-in pressure boost mechanism allows grease pressure to be boosted from 6,000 PSI to 10,000 PSI

Pressure boost is activated by a few repeated presses of the pistol handle

Pressure boost helps unclog blocked grease fittings & grease joints with high back pressure

Highly durable all steel construction, fully CNC machined

Valve inlet fitted with 360° Z-swivel which permits easy handling of the valve and prevents damage to hose caused by twisting

Comes complete with 6" steel extension & heavy duty coupler


WARNING

Skin injection hazard.
Keep away from nozzle

FEATURES
DEVELOPS
**UPTO
10,000 PSI
(690 BAR)**
CAUTION

The gun is continuous action.
Be careful not to over lubricate.

ORDERING INFORMATION

CAT NR.	INLET THREADS	OUTLET THREADS	BOX QTY.
APG/Z/1-4F/B	1/4" BSPT (F)	1/8" BSPT (F)	1

46

Grease Control Valve Metered

Premium quality grease control valve, for use with air operated grease pumps

Built-in high accuracy digital grease meter for dispensing exact amount of grease

Ability to measure amount of grease dispensed prevents both over & under lubrication & is useful in saving bearing failures

Provides continuous grease flow, with trigger fully pressed

Steel construction, provides durability & longevity. Meter uses oval gear mechanism

Ergonomically designed pistol handle

Comes complete with 6" steel extension, heavy duty coupler & 360° Z swivel



APG/HD/Z/1-4F/GM/B



DGM/2/N
Grease meter available as spare for in-line applications

SPECIFICATIONS

CONTROL VALVE TYPE	Continuous Flow
METER TYPE	Digital Oval Gear
GREASE FLOW	0.1 to 2.5 kg / minute
MAX. WORKING PRESSURE	7,500 PSI (517 BAR)
UNIT OF MEASUREMENT	kg /gms / lbs
ACCURACY	± 3%
RESETTABLE BATCH TOTAL	9,999 gms
CUMULATIVE TOTAL	99999.9 kg
BATTERY TYPE	1.5 V (Two numbers)

FEATURES

DEVELOPS	OVAL GEAR MECHANISM
UPTO 7,500 PSI (500 BAR)	

WARNING

Skin injection hazard. Keep away from nozzle

CAUTION

The gun is continuous action. Be careful not to over lubricate.

ORDERING INFORMATION

CAT NR.	DESCRIPTION	THREAD SPECIFICATION	BOX QTY.
APG/HD/Z/1-4F/GM/B	Meter fitted to a grease control valve	Inlet: 1/4" BSPT (F)	1
DGM/2/N	In-line grease meter	Inlet/Outlet: 1/8" NPT (F)	1

- INDUSTRIAL EQUIPMENT
- LUBRICANTS & PENETRANTS
- FLUID HANDLING EQUIPMENT
- PRECISION ENGINEERING EQUIPMENT
- PROFESSIONAL HAND TOOLS
- LED WORK LIGHTS

47

Lever Action Barrel Pump

LBP-04

Oil pump designed & engineered for convenient use & long service life

Powder coated steel pump body with aluminum die cast pump head

Plated steel lever handle with rubber grip for convenience in usage

3/4" pump inlet

Complete with curved metal spout & telescopic suction tube for use on 50-210 litre drums.

WETTED COMPONENTS

Steel, Aluminium, NBR, Brass, PVC

RECOMMENDED USE

Oil Based Fluids, Heating Oils, Motor Oil, Heavy & Light Oils, Kerosene & Diesel

DO NOT USE WITH

Water Based Fluids, Solvents, Acids, Petrol etc.

ORDERING INFORMATION

CAT NR.	BOX QTY.
LBP/04/PT	10

FEATURES

DELIVERS

UPTO
300 ML /
STROKE


48

Rotary Barrel Pump V Series

V-25

Most popularly used pump for general purpose lubrication on farms, automotive, workshops & construction sites

Pump features a dual directional operation that allows the pump to both empty as well as refill container

Rugged cast iron construction with machined vanes for better draw & smoother delivery

1" pump inlet

Complete with 3 pc rigid suction tube for use on 50-210 litre drums

WETTED COMPONENTS

Steel, Cast Iron, NBR

RECOMMENDED USE

Heating Oils, Motor Oils, Lubricating Oils etc.

DO NOT USE WITH

Water based Media, Acids, Petrol etc.

ORDERING INFORMATION

CAT NR.	BOX QTY.
V25/3R/SPL/F	4

FEATURES

DELIVERS

UPTO
5 LITRES /
20 TURNS



Dual
directional
operation

Pumps-in &
pumps-out
fluids by a
few reverse
turns of the
handle

V SERIES


49

Ezee Flow Pumps

EZF

Versatile pump, engineered for trouble free use on plastic containers with pull out / Rieke® spout or 2" external threads

Heavy duty steel suction tube, with the pump head made from Nylon

Pump head incorporates nozzle holder & option to drain back over flown fluid into the container

The pump comes with interchangeable bung adaptors. Standard bung adaptor is useful when using the pump on containers with external threadings. When using the pump on containers with plastic pull-out Rieke® spout, the other adaptor may be used

Pump is available in two variants:

1. Downstroke Pump:
Suitable for 20-25 litre drums. Downstroke operation with fluid discharge when the handle is pushed down. Very useful when pumping heavy fluids. Supplied with 7 interchangeable bung adaptor that makes it usable on most metal & plastic drums

2. Upstroke Pump:
Suitable for use on 50 litre plastic drums. Pump delivers on the upward stroke and includes 2 interchangeable bung adaptors

Complete with rigid steel discharge spout & 48" discharge hose

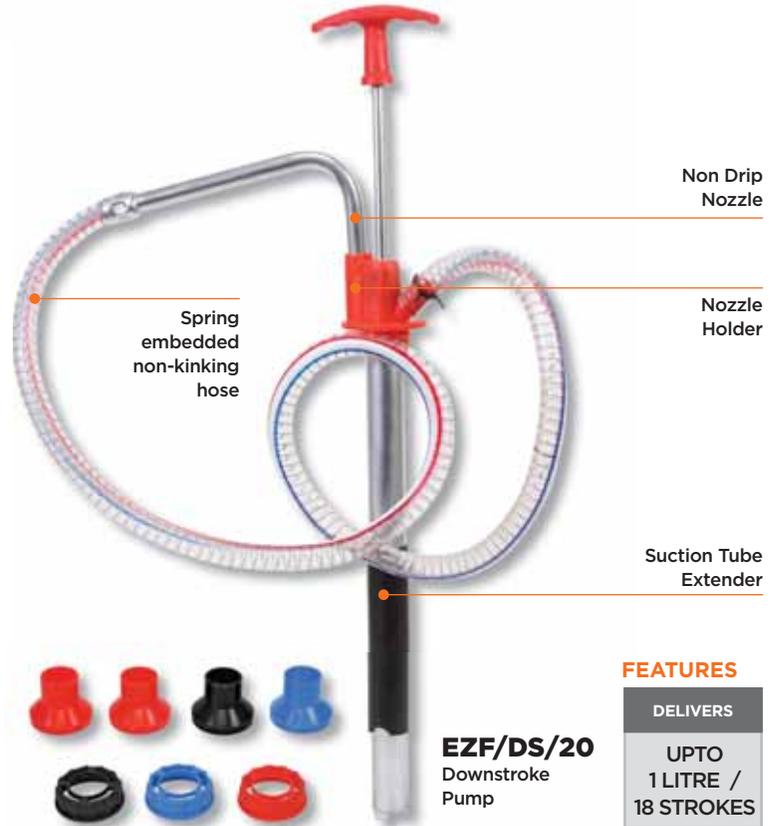
WETTED COMPONENTS
Steel, Aluminium, Polyethylene, Nylon, High Nitrile Rubber, PVC & Acetal

RECOMMENDED USE
Engine Oils, Gear Oils, Diesel and Light Fuel Oils.

DO NOT USE WITH
Water based & other corrosive media

ORDERING INFORMATION

CAT NR.	FOR DRUM SIZE	NO. OF ADAPTORS	BOX QTY.
EZF/DS/20	20-25 litres	7	10
EZF/8	50 litres	2	10



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

50
Bucket Oil Pumps
V12
V16

Portable oil pumps designed for dispensing transmission differentials & heavier oils.

Pump with variable handle setting for use with media of different viscosities.

Includes 48" / 4' PVC hose with nozzle

Includes steel drum (12 litre or 16 litre capacity) with a choice of with or without wheels



Without wheel



With Wheel

ORDERING INFORMATION

CAT NR.	CAT NR.	BUCKET CAPACITY	BOX QTY.
		(litre)	
WITHOUT WHEELS	WITH WHEELS		
V12	V12W	12	1
V16	V16W	16	1

51
Air Operated Plastic Transfer Pump
PAOP

Air operated 1:1 transfer pump for dispensing a wide variety of fluids. Choice of materials makes it compatible with many more fluids, compared to air pumps which primarily pump oil

Built-in 2" bung adaptor for direct attachment on drums with 2" opening.

Air supply is provided via a ball valve connected to an air regulator limiting max. air pressure to 100 PSI (7 BAR)

Complete with suction tube with check valve for use on 50-205 litre drums

WETTED COMPONENTS

Polypropylene, Viton, Stainless Steel

RECOMMENDED USE

Water-based media, Coolants, Detergents, Soaps, Windshield Washer, Oils & Lubricants, Herbicides & Pesticides, Urea, etc.

SPECIFICATIONS

WORKING PRESSURE	30 - 100 PSI (2 - 7 BAR)
MAX. AIR INLET PRESSURE	100 PSI (7 BAR)
MAX. OUTLET PRESSURE	45 PSI (3 BAR)
AIR CONSUMPTION	125 LPM
MAX. PUMP DISCHARGE	30 LPM at Air Pressure of 100 PSI (7 BAR)
AIR INLET CONNECTION	1/4" (F)
PUMP OUTLET	3/4" (19.5 mm) dia.
PUMP INLET	1" (F)
MAX. TEMPERATURE OF MEDIA BEING PUMPED	60°C
MAX. VISCOSITY OF MEDIA BEING PUMPED	SAE 50 / ISO 220


ORDERING INFORMATION

CAT NR.	BOX QTY.
PAOP/1	4

52

Trolley Mounted Oil Pump Kits

TMK-OP

Ideal choice for workshop & Industrial floors requiring movable oil dispensing systems

Includes:

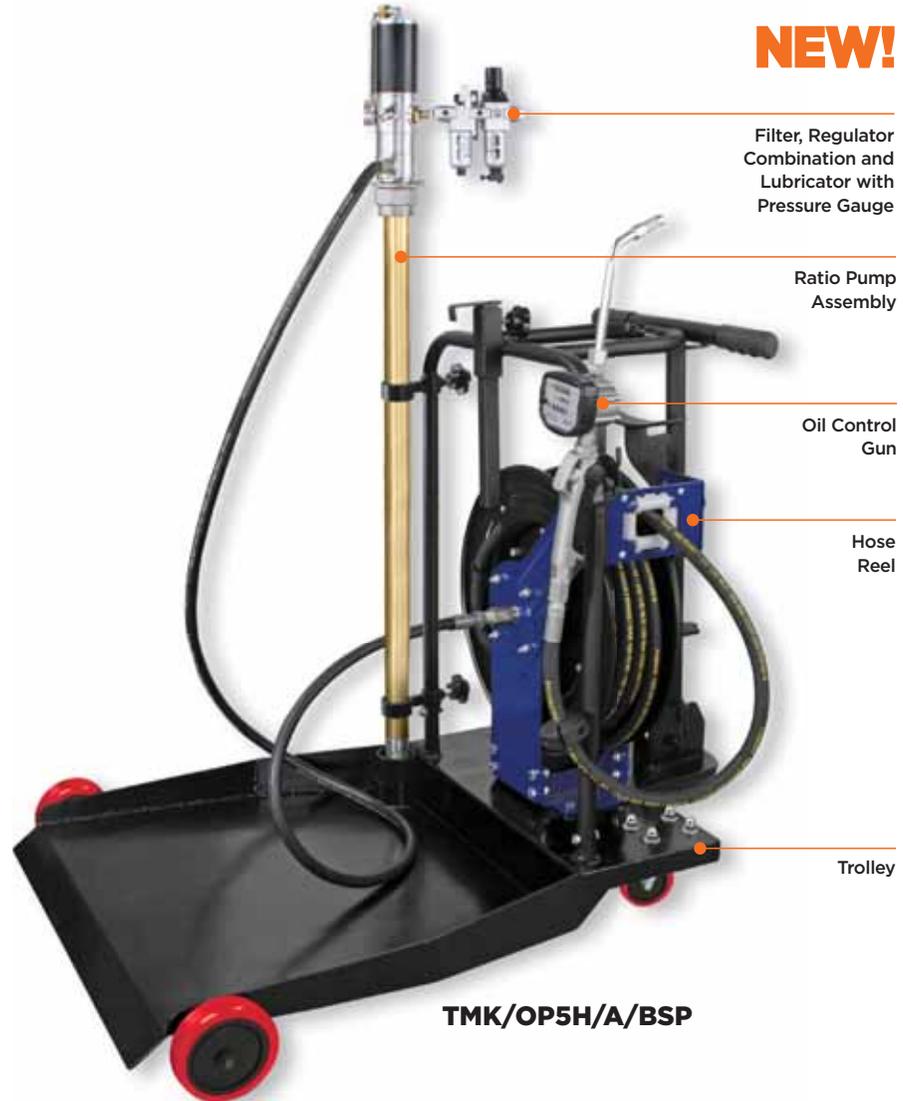
1. Ratio Pump Assembly
2. Hose reel
3. Trolley
4. Oil control Gun
5. Filter, Regulator Combination and Lubricator with Pressure Gauge

Manufactured from heavy gauge 4 mm thick steel sheet for increased strength & durability

3" (75 mm) ground clearance for smooth movement over uneven surfaces in workshop environment

6" (150 mm) wide polyurethane front wheels with nylon rim for reduced wear & tear

NEW!



SPECIFICATIONS

	TMK/OP3/A/BSP	TMK/OP5H/A/BSP
PUMP RATIO	3:1	5:1
WORKING PRESSURE	30-150 PSI	30-150 PSI
MAX. AIR PRESSURE	150 PSI	150 PSI
FLOW RATE AT PUMP OUTLET	Up to 14 LPM	Up to 18 LPM
LEAST COUNT OF OIL CONTROL GUN	0.001 units	0.001 units
ACCURACY OF METER	± 0.5%	± 0.5%
REPEATABILITY OF METER	0.30%	0.30%
HOSE	3.5m Hydraulic Hose with 1/2" ID	10m Hose Reel with 1/2" ID
THREAD TYPE	BSP	BSP
AIR CONSUMPTION OF PUMP	230 LPM	250 LPM

ORDERING INFORMATION

CAT NR.	BOX QTY.
TMK/OP3/A/BSP	1
TMK/OP5H/A/BSP	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

53
**Air Operated
Stainless Steel Pump**
OP-T3-SS

3:1 Air Operated pump, corrosion protected for use with water based fluids, such as detergents, windshield fluids, water etc.

Wetted components are made out of stainless steel

Pump is designed to work in corrosive environments, ideal for use in car washers, garages, workshops, lube trucks, industry etc.

Reciprocating piston operated 63 mm dia. air motor

Pump has a built in stainless steel strainer at inlet to keep contaminants away

2" die cast aluminium bung for use with 210 litre drums

SPECIFICATIONS

Working Pressure	30 to 150 PSI (2 - 10 BAR)
Max. Air inlet Pressure	150 PSI (10 BAR)
Air Consumption	230 LPM
Air Inlet Connection	1/4" BSP (F)
Pump Outlet Connection	1/2" BSP (F)
Noise Level	81 db
For use with	210 litre drums

WARNING

Pump must be supplied with clean & dry compressed air via an FRL unit

FEATURES
DELIVERS
**UPTO
14 LPM**
ORDERING INFORMATION

CAT NR.	BOX QTY.
OP/T3/SS/BSP	1


54
**Air Operated
Oil Ratio Pumps**

World-class industrial oil dispensing pumps with guaranteed performance & hassle free operation

Pumps are designed to work in tough conditions & are ideal for use in Industry, workshop, farm, construction sites or as part of the mobile oil system

All metal construction, fully CNC machined with hardened wear resistant moving parts

Reciprocating piston operated 63mm dia. air motor

Pumps have a built in strainer at inlet to keep contaminants away

WETTED COMPONENTS

Steel, Brass, Aluminum, Hi-Nitrile Rubber, Polyurethane, Turcite* & Nylon**
(*Only On 3:1 & 5:1 Pumps, **Only On 1:1 Pump)

Internals Pump

WARNING

Pump must be supplied with clean & dry compressed air via an FRL unit

SPECIFICATIONS

Working Pressure	30 to 150 PSI (2 - 10 BAR)
Air Inlet Connection	1/4" BSP (F)
Pump Outlet Connection	1/2" BSP (F)
Noise Level	81 db
For use with	210 litre drums

OP-11

OP-31

OP-51

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

1:1 PUMPS

Transfer pump, used transfer for quick of oils from large drums to smaller containers. These have a double acting operation with discharge upto 40 LPM

Ideal for use with low to medium viscosity (upto SAE 80 Oils) for transferring over short distances (5 metres)

Air Consumption: 270 LPM

1:1 pump is also available complete with oil bar tap & connecting links (ODS series), used as an air operated oil dispenser to quickly & conveniently dispense oils from drums

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
OP/T3/11B/BSP	1:1 Pump only for 210 litre drums	1
OPK/T3/11B/BSP	1:1 Pump for 210 litre drums complete with 1.5m hydraulic hose & oil control gun	1

SPARE PARTS & KITS

KIT/01/T3/11B	Air Motor Kit	1
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3:1 PUMPS

Amongst the most popular general purpose air operated pumps

Pumps are single acting with discharge upto 14 LPM

Ideal for use with medium to high viscosity oils (upto SAE 130) for transferring over short distances (upto 30 meters), mostly used with Trolley mounted kits

Air Consumption: 230 LPM

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
OP/T3/31B/BSP	3:1 Pump only for 210 litre drums	1
OPK/T3/31B/BSP	3:1 Pump for 210 litre drums complete with 1.5m hydraulic hose & oil control gun	1

SPARE PARTS & KITS

KIT/T3/31B	Air Motor Kit	1
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5:1 PUMPS

High pressure air operated pumps for dispensing oil at 5 times the pressure as the air inlet

Pumps are double acting with discharge upto 18 LPM

Ideal for use with high viscosity oils (upto SAE 240) for transferring over short & long distances (upto 50 meters), mostly used with Trolley mounted kits both with & without hose reels, as well as with fixed systems for centralized distribution

Air Consumption: 250 LPM

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
OP/T3/51B/BSP	5:1 Pump only for 210 litre drums	1
OPK/T3/51B/BSP	5:1 Pump for 210 litre drums complete with 1.5m hydraulic hose & oil control gun	1

SPARE PARTS & KITS

KIT/T3/51B	Air Motor Kit	1
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Double Acting

OP/T3/11B/BSP

FEATURES

DELIVERS	DEVELOPS
UPTO 40 LPM	UPTO 150 PSI (10 BAR)



OP/T3/31B/BSP

FEATURES

DELIVERS	DEVELOPS
UPTO 14 LPM	UPTO 450 PSI (30 BAR)



Double Acting

OP/T3/51B/BSP

FEATURES

DELIVERS	DEVELOPS
UPTO 18 LPM	UPTO 750 PSI (50 BAR)

Highly reliable air operated 5:1 pump for dispensing oils at 5 times the pressure as the air inlet

Ideal for indoor applications in automotive workshops for pumping oils (upto SAE 140). Dispenses oils over distances upto 50m, mostly used with trolley mounted kits both with & without hose reels

Unique pump design with non corroding air motor, requires no lubricator in the air line

Built-in pressure relief valve prevents both the pump & system against damage created by excessive pressure due to thermal expansion

Reciprocating piston operated 72 mm dia. air motor

Stub pump supplied complete with 2" bung; pump can be wall mounted, mounted on a tank, drum etc.

Also included separate suction tube for installing pump on 210 litre drums

WETTED COMPONENTS

Aluminium, Zinc, Brass, NBR, Polyurethane

RECOMMENDED USE

Oil upto SAE 140, Automatic Transmission fluids, Engine Oils, Gear Oils, Hydraulic Oils

SPECIFICATIONS

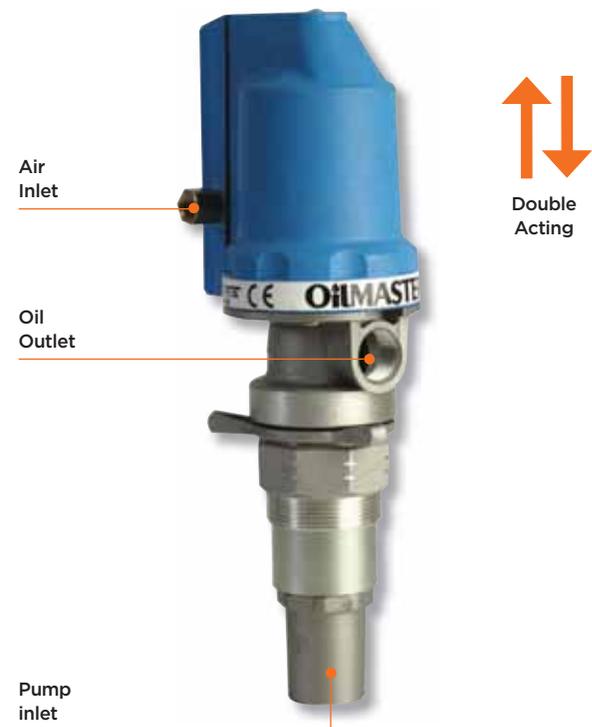
Working Pressure	60 to 150 PSI (4 - 10 BAR)
Air Inlet Connection	1/4" NPT (F)
Pump Outlet Connection	1/2" NPT (F)
Pump Inlet for connecting Suction Tube	1" NPT (F) & 1" UNEF (F)
Noise Level	85 db
For use with	Drums, Tanks, Wall Mount etc.

FEATURES

DELIVERS	DEVELOPS
UPTO 15 LPM	UPTO 750 PSI (50 BAR)

ORDERING INFORMATION

CAT NR.	BOX QTY.
T512-G	1



56

r-Series™ Industrial Air Operated Oil Ratio Pumps

R300S

R500S

World-class air operated industrial quality oil dispensing pumps with guaranteed performance & hassle free operation

All metal die cast aluminum construction with hardened wear resistant moving parts

Stub pump supplied complete with 2" bung, pump can be wall mounted, mounted on a tank, drum etc.

Also available separate suction tube for installing pump on a 210 litre drums

Air line lubricator included as standard accessory

WETTED COMPONENTS

Aluminium, NBR, Carbon, PTFE, Zinc Plated Steel, Brass

WARNING

Pump must be supplied with clean & dry compressed air via an FRL unit



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

3:1 PUMP

Heavy duty industrial 3:1 ratio pump for dispensing oils at 3 times the air inlet pressure

Reciprocating piston operated 54mm dia. air motor

Ideal for dispensing oils through multiple hose reels & metered gun systems found in large workshops utilizing bulk tanks

Suitable for use with oils upto SAE 140 over distances upto 30m, Diesel & Kerosene



SPECIFICATIONS

Working pressure	60 to 150 PSI (4 - 10 BAR)
Air inlet connection	1/4" NPT (F)
Pump outlet connection	3/4" NPT (F)
Pump Inlet for connecting suction tube	3/4" NPT (F)
For use with	Drums, Tanks, Wall Mount etc.

FEATURES

DELIVERS	DEVELOPS
UPTO 23 LPM	UPTO 450 PSI (30 BAR)

ORDERING INFORMATION

CAT NR.	BOX QTY.
R300S-G	1

5:1 PUMP

Heavy duty industrial 5:1 ratio pump for dispensing oils at 5 times the pressure as the air inlet pressure

Reciprocating piston operated 104 mm dia. air motor

Ideal use with drums & tanks with one or multiple hose reels & dispensing systems

Suitable for use with oils upto SAE 140 over distances upto 50m, ATF, Engine Oils, Gear Oils



SPECIFICATIONS

Working pressure	60 to 150 PSI (4 - 10 BAR)
Air inlet connection	1/4" NPT (F)
Pump outlet connection	3/4" NPT (F)
Pump inlet for connecting suction tube	1" NPT (F) & 1" UNEF(F)
For use with	Drums, Tanks, Wall Mount etc.

FEATURES

DELIVERS	DEVELOPS
UPTO 28 LPM	UPTO 750 PSI (50 BAR)

ORDERING INFORMATION

CAT NR.	BOX QTY.
R500S-G	1

Ideal choice for workplace requiring movable oil dispensing systems

Includes

1. Oil Master Air Operated 5:1 Pump, T512-G
2. Retracta Oil Hose Reel (OMP2101)
3. Oil Control Gun with Mechanical Meter (HG40)
4. 210 Litre Drum Trolley & Hydraulic Hose to connect pump outlet to hose reel inlet

RECOMMENDED USE

Suitable for dispensing oils upto SAE 140 i.e Engine Oil, Hydraulic Oil etc.



ORDERING INFORMATION

CAT NR.	BOX QTY.
OS512-G	1



Founded in 1948 in Australia, Macnaught has been a pioneer in product design and manufacturing of fluid handling equipment. The wide range of products manufactured by Macnaught includes hand and air operated grease guns and pumps, hand and air operated oil pumps, oil and grease control guns, oil and fuel meters, heavy duty hose reels and an extensive range of accessories to suit these items.

Macnaught range of high end products are available to you exclusively via GROZ. Contact your nearest GROZ dealer / distributor for further details.

58

Electric Oil Pumps

OPM

Heavy duty oil pump designed to transfer bulk oils, hydraulic oils, used oil etc.

Air cooled motor with thermal protection

Non corroding aluminium die cast pump body

Sintered powder metal gears

Self priming, positive displacement design

High horsepower to flow ratio assures adequate power to pump viscous fluids at low temperatures

Pump has an internal bypass valve to bypass flow, if the discharge pressure exceeds the bypass valve setting

Built-in 2" bung adaptor for mounting on drums/tanks

Can be used to transfer used oil with a screen fitted onto the suction tube

Duty Cycle: 30 minutes ON / 30 minutes OFF

Available in following versions:

1. AC regular flow
2. AC high flow
3. DC regular flow

WETTED COMPONENTS

Aluminium, Steel, Cast Iron, Nylon, NBR, Zinc, Polypropylene, PVC

RECOMMENDED USE

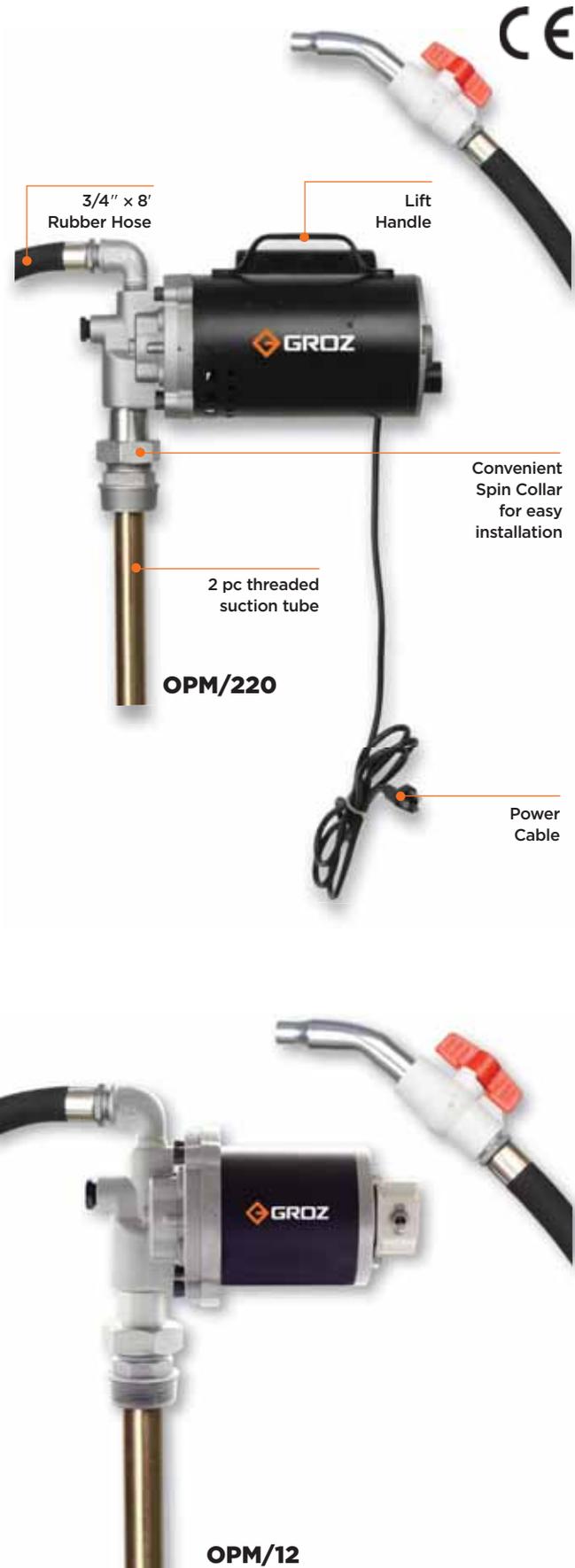
Oils, Synthetic Oils, Used Oils, Hydraulic Oils, Cutting Oils, Oil Based Herbicides, Non-Flammable Oil Based Solvents, Liquid Soap etc.

SPECIFICATIONS

	OPM/220	OPM/220/HF	OPM/12
DESCRIPTION	Heavy duty 220V AC	High Flow heavy duty 220V AC	Heavy duty 12V DC
FLOW RATE	14 - 16.6 LPM	Upto 25 LPM	Upto 11.5 LPM
MOTOR	1/2 HP 220V AC	1/2 HP 220V AC	1/2 HP 12V DC
AMP	6 Amp	6 Amp	39 Amp
RPM	1440/1720	2800/3360	1440
MECHANISM	Gear pump	Gear pump	Gear pump
SUCTION PIPE	34" long	34" long	34" long
BUNG ADAPTOR	2" threaded	2" threaded	2" threaded
HOSE	3/4" x 8'	3/4" x 8'	3/4" x 8'
INLET	1" NPT	1" NPT	1" NPT
OUTLET	3/4" NPT	3/4" NPT	3/4" NPT
DISPENSING NOZZLE	Ball valve	Ball valve	Ball valve
POWER CABLE LENGTH	8'	8'	-
AIR COOLED	Yes	Yes	Yes
MAX. VISCOSITY OF OIL	SAE 90	SAE 90	SAE 90
MAX WORKING PRESSURE	65 PSI (4.5 BAR)	65 PSI (4.5 BAR)	65 PSI (4.5 BAR)
THERMAL PROTECTION	Yes	Yes	No

ORDERING INFORMATION

CAT NR.	BOX QTY.
OPM/220	1
OPM/220/HF	1
OPM/12	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

High pressure positive displacement meter suitable for in-line and end of line applications

Oval gear mechanism for optimum accuracy

7 digit non-resettable batch totalizer

Meter inlet / outlet threaded 1/2" BSP (F) for use with air / electric / manual pumps

High reliability mechanical display

Robust aluminum die cast construction with protective shroud on meter

WETTED COMPONENTS

Aluminum, Acetal, Nitrile Rubber & Steel

RECOMMENDED USE

Oils upto SAE 140, Diesel, Kerosene & Engine Coolants (RTU)

DO NOT USE WITH

Water Based Media, Petrol etc.



SPECIFICATIONS

FLOW RATE	1 to 30 LPM
ACCURACY	± 1%
REPEATABILITY	0.30%
MAX. WORKING PRESSURE	1,000 PSI (70 BAR)
PRESSURE LOSS	10 PSI (0.7 BAR)
WORKING TEMPERATURE RANGE	-10°C to 55°C
MAX. RESETTABLE BATCH TOTALIZER	999.9 litres
MAX. NON RESETTABLE BATCH TOTALIZER	999999.9 litres
LEAST COUNT /RESOLUTION	0.10 litres
WATER RESISTANCE	IP55

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE	OVAL GEAR MECHANISM
1 - 30 LPM	UPTO 1,000 PSI (70 BAR)	-10°C TO 55°C	

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
OM-100/1-2/BSP	1/2" BSP (F)	1

60

Electronic Oil Meter

OM-200

High pressure positive displacement meter suitable for in-line and end of line applications

Oval gear mechanism for optimum accuracy

6 Digit non-resettable totaliser

Meter inlet/outlet threaded
1/2" BSP (F)

Electronic display using one 3V lithium ion battery with life upto 5 years

Robust aluminium die cast construction with protective shroud on meter

Display can be rotated in every 90° orientation for ease of installation

Measures in litres, US gallons, quarts, pints, ounces & decilitres

Easy user re-calibration



SPECIFICATIONS

FLOW RATE	1 to 30 LPM
ACCURACY	± 0.50%
REPEATABILITY	0.20%
MAX. WORKING PRESSURE	1,000 PSI (70 BAR)
PRESSURE LOSS	10 PSI (0.7 BAR)
WORKING TEMPERATURE RANGE	- 14°C to 55°C
MAX. RESETTABLE BATCH TOTALIZER	99999.9 units
MAX. NON RESETTABLE BATCH TOTALIZER	999999.9 units
LEAST COUNT /RESOLUTION	0.001 units
DISPLAY OUTPUT	User selectable for 0.1, 0.01, 0.001 Units
WATER RESISTANCE	IP65

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE	OVAL GEAR MECHANISM
1 - 30 LPM	UPTO 1,000 PSI (70 BAR)	- 14°C TO 55°C	

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
OM/200/1-2/BSP	1/2" BSP (F)	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Super accuracy heavy duty gun for controlling fluid deliveries in most demanding applications

Oval gear mechanism

High accuracy mechanical display

Aluminium die cast meter & gun body with protective shroud on meter

Built-in continuous flow switch can be activated for unattended dispensing

Built-in swivel at inlet for easy maneuverability

Supplied complete with rigid steel extension, and manual non drip nozzle

WETTED COMPONENTS

Aluminum, Acetal, Nitrile Rubber & Steel

RECOMMENDED USE

Oils Upto SAE 140, Diesel, Kerosene & Engine Coolants (RTU)

DO NOT USE WITH

Water Based Media, Petrol etc.

SPECIFICATIONS

FLOW RATE	1 to 30 LPM
ACCURACY	± 1%
REPEATABILITY	0.30%
MAX. WORKING PRESSURE	1000 PSI (70 BAR)
PRESSURE LOSS	10 PSI (0.7 BAR)
WORKING TEMPERATURE RANGE	-10°C to 55°C
MAX. RESETTABLE BATCH TOTALIZER	999.9 litres
MAX. NON RESETTABLE BATCH TOTALIZER	999999.9 litres
LEAST COUNT /RESOLUTION	0.10 litres
INLET THREADED	1/2" BSPT (F)
WATER RESISTANCE	IP55

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE	OVAL GEAR MECHANISM
1-30 LPM	UPTO 1,000 PSI (70 BAR)	-10°C TO 55°C	

ORDERING INFORMATION

CAT NR.	BOX QTY.
OM-100/OGN/R-M/B	1



62

Electronic Oil Control Gun

OM200-OGN

Super accuracy heavy duty gun for controlling fluid deliveries in most demanding applications

Oval gear mechanism

Electronic display using one 3V lithium Ion battery with life upto 5 years

Aluminium die cast meter & gun body with protective shroud on meter

Built-in continuous flow switch can be activated for unattended dispensing

Measures in litres, US gallons, quarts, pints, ounces & decilitres

Built-in swivel at inlet for easy manoeuvrability

Easy user re calibration

Supplied complete with rigid steel extension, with a manual non drip nozzle

WETTED COMPONENTS

Aluminum, Acetal, Nitrile Rubber & Steel

RECOMMENDED USE

Oils upto SAE 140, Diesel, Kerosene & Engine Coolants (RTU)

DO NOT USE WITH

Water Based Media, Petrol etc.

SPECIFICATIONS

FLOW RATE	1 to 30 LPM
ACCURACY	±0.50%
REPEATABILITY	0.20%
MAX. WORKING PRESSURE	1,000 PSI (70 BAR)
PRESSURE LOSS	10 PSI (0.7 BAR)
WORKING TEMPERATURE RANGE	-10°C to 55°C (7°F to 131°F)
MAX. RESETTABLE BATCH TOTALIZER	99,999.9 units
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 units
LEAST COUNT /RESOLUTION	0.001 units
DISPLAY OUTPUT	User selectable for 0.1, 0.01, 0.001 Units
INLET THREADED	1/2" BSPT (F)
WATER RESISTANCE	IP55

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE	OVAL GEAR MECHANISM
1 - 30 LPM	UPTO 1,000 PSI (70 BAR)	-10°C TO 55°C	

ORDERING INFORMATION

CAT NR.	BOX QTY.
OM-200/OGN/R-M/B	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS



Heavy duty oil control gun with robust aluminium construction

Electronic preset design; works on 4 x 1.5V AA batteries

Dual Mode: Manual & Pre-Set (dispenses set quantity of media & stops)

Oval gear mechanism for optimum accuracy

Adjustable outlet nozzle can be positioned for in-line or 90° dispensing

Resettable totalizer for individual batch can be set in litres, quarts, pints & gallons

A second resettable totalizer for multiple dispensing operations can be set in litres, quarts, pints & gallons with max. pre-set volume of 99.9 units

Lifetime non-resettable totalizer can be set in litres

Built-in swivel at Inlet fitted with strainer

Supplied complete with steel extension with built-in non drip tip

WETTED COMPONENTS

Aluminium, Steel, Stainless Steel, Brass, Polyurethane, Acetic Resin, Hi Nitrile Rubber

RECOMMENDED USE

Oils with viscosity in the range of 10 to 5000 cst, Diesel

DO NOT USE WITH

Petrol, Windshield Fluids etc.

SPECIFICATIONS

FLOW RATE	1 to 30 LPM
INLET	1/2" BSP (F)
ACCURACY	± 0.50%
REPEATABILITY	± 0.20%
MAX. WORKING PRESSURE	1,000 PSI (70 BAR)
WORKING TEMPERATURE RANGE	-5°C to 50°C
MINIMUM PRE SET QTY.	0.10 Units
MAXIMUM PRE SET QTY.	99.9 Units
MAX. RESETTABLE BATCH TOTALIZER	999.9 Units
MAX. NON RESETTABLE BATCH TOTALIZER	999999 Units
VISCOSITY OF MEDIA DISPENSED	10 to 5000 cst
RESOLUTION / LEAST COUNT	0.005 litre
WATER RESISTANCE	IP55

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE	OVAL GEAR MECHANISM
1 - 30 LPM	UPTO 1,000 PSI (70 BAR)	-5°C TO 50°C	

ORDERING INFORMATION

CAT NR.	BOX QTY.
OM-300/PS/RA/BSP	1



64

Mechanical Heavy Duty Oil Control Gun

HG40

Heavy duty industrial oil control gun with robust aluminium construction & a rubberised shroud for protecting the meter

Oval gear mechanism for optimum accuracy

Latching handle with built-in trigger lock for continuous dispensing

Gun has 2 outlet positions: in-line & 90°

Built in swivel at inlet

Supplied complete with steel extension with automatic non-drip nozzle

RECOMMENDED USE

Engine Oils, Diesel, ATF, Antifreeze, Antiboil & other Petroleum Based Media Upto SAE 140

SPECIFICATIONS

FLOW RATE	1 to 30 LPM
ACCURACY	± 1%
REPEATABILITY	± 0.20%
MAX. WORKING PRESSURE	1,500 PSI (70 BAR)
WORKING TEMPERATURE RANGE	0°C to 50°C
MAX. RESETTABLE BATCH TOTALIZER	999.9 litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 litres
LEAST COUNT /RESOLUTION	0.10 litres
INLET THREADED	1/2" BSPT (F)
WATER RESISTANCE	IP55

Note: Not to be used for commercial resale

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE
1 - 30 LPM	UPTO 1,500 PSI (100 BAR)	0°C TO 50°C

ORDERING INFORMATION

CAT NR.	BOX QTY.
HG40R/B	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Heavy duty gun for controlling fluid deliveries in most demanding applications

Aluminium die cast construction

Built-in continuous flow switch can be activated for unattended dispensing

Ergonomically designed plastic grip for convenient usage

Swivel at inlet for easy maneuverability. Strainer in the swivel keeps contaminants, dust, grit etc. away from entering the gun

Available with manual or automatic non-drip nozzles

RECOMMENDED USE

Oils with viscosity upto SAE 140

DO NOT USE WITH

Water based media, Gasoline etc.

WETTED COMPONENTS

Aluminum, Steel, Brass & NBR

SPECIFICATIONS

FLOW RATE	Upto 30 LPM
MAX. WORKING PRESSURE	1,000 PSI (70 BAR)
WORKING TEMPERATURE RANGE	-14°C to 55°C (7°F to 131°F)
INLET THREADS	1/2" BSPT (F) / 1/2" NPT (F)
IN-LINE SWIVEL	1/2" (F)
OUTLET DIAMETER OF STEEL SPOUT	1/2" (12.7 mm)
INSIDE DIAMETER OF HOSE EXTENSION	1/2" (12.7 mm)

FEATURES

FLOW RATE	PRESSURE	TEMPERATURE
UPTO 30 LPM	UPTO 1,000 PSI (70 BAR)	-14°C TO 55°C (7°F TO 131°F)



OGN/SA/1-2R/B

OGN/SM/1-2R/B

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
OGN/SA/1-2R/B	Oil Control Gun with Steel Extension and Automatic Non Drip Nozzle	1
OGN/SM/1-2R/B	Oil Control Gun with Steel Extension and Manual Non Drip Nozzle	1

66

Oil Bar

OBR

Heavy Duty metal oil bar with provision for 3 dispensing spigots

Modular design with an easily detachable steel reservoir that is fitted with a sieve to filter out solid particles upto 0.23" / (5.9 mm)

Powder coated finish makes it weather proof & resistant to corrosion

Spring loaded dispensing spigot with non drip operation

In-built 3 cavities to add digital meters as required

Easy to dismantle & repair equipment from the back

Available in 2 variants (Refer table below)

WETTED COMPONENTS

Steel, Nitrile/Viton, Aluminium, Acetal

RECOMMENDED USE

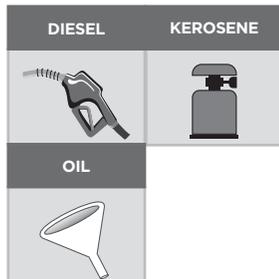
Oils upto SAE 140, Diesel, Kerosene & Engine Coolants

FEATURES

MAX. PRESSURE

**800 PSI
(55 BAR)**

FLUIDS



NEW!

SPECIFICATIONS

FLOW RATE	1 - 30 LPM (0.3 - 8 GPM)
METER ACCURACY	± 0.5 %
WORKING TEMPERATURE	- 14°C to 55°C
LEAST COUNT/RESOLUTION	Upto 0.001 units

ORDERING INFORMATION

CAT NR.	NUMBER OF SPIGOTS	NUMBER OF METERS	BOX QTY.
OBR/KIT/1M/B	1	1	1
OBR/KIT/3/B	3	0	1
OBR/KIT/3M/B	3	3	1

INDUSTRIAL EQUIPMENT
LUBRICANTS & PENETRANTS
FLUID HANDLING EQUIPMENT
PRECISION ENGINEERING EQUIPMENT
PROFESSIONAL HAND TOOLS
LED WORK LIGHTS

67
Transfer Gun
SG-20

Dual action transfer gun: draws in & pumps out liquids in a single stroke

Easy & safe answer to fluid transfer, especially useful in transferring media unsafe for body contact

Gun body is non-denting & is made from heavy aluminum section. Suction head & piston have an aluminum construction & use viton piston rings

The gun comes complete with 8' of vinyl hose (4' with each valve)

WETTED COMPONENTS
Aluminum, Brass, Viton, PVC

RECOMMENDED USE
Fuel Oils, Mineral Oils, Synthetic & Biological Oils, Petrol, Coolants, Water, Spirits & Brake Fluids



Complete with 8' of Vinyl Hose (4' with each valve)

ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(ml)	
SG/20	350	20

68
Oil Cans V Series

Tin coated steel body in premium powder coated finish

Steel pump with double ball check

Useful for convenient dispensing of oil

Complete with 150 mm (6") rigid steel spout


ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(ml)	
V200R	200	72
V300R	300	72
V500R	500	72

69

Flexible Spout Measures

MSR

High density translucent polyethylene construction

Used for transferring measured quantity of fluid

Marked in litres

Supplied complete with polyethylene flexible spout with cap and polypropylene lid

Not to be used for measuring media for sale

ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(litres)	
MSR/P/F-1	1	40
MSR/P/F-2	2	25
MSR/P/F-3	3	20
MSR/P/F-5	5	15
MSR/P/F-6	6	12
MSR/P/F-8	8	12



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

70

Smart Funnels

FNL-8

FNL-9B

Heavy duty translucent polypropylene construction

Designed with special contours in the funnel body for easy handling

Anti-splash & spill proof, with rim of the funnel curved in

Complete with wire mesh screen, dust cover & flexible spout

Available in 2 sizes.
The larger size is available with drum bung attachment, which allows the funnel to be mounted direct onto drums with 2" threaded opening

Direct mounting on drums with 2" opening



FNL/9B
Capacity 3.0 litres
Dia 9-1/2" (240mm)

FNL/8
Capacity 1.7 litres
Dia 8" (250mm)

ORDERING INFORMATION

CAT NR.	CAPACITY	BOX QTY.
	(litres)	
FNL/8	1.7	15
FNL/9B	3	15

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

71

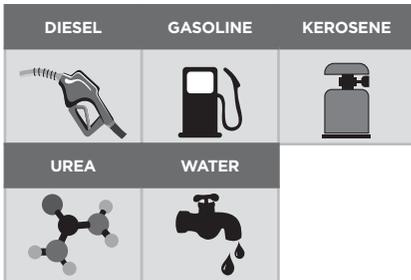
Fuel & Oil Funnels

FNL-11

High flow fuel & oil funnel with extra large mouth for easy pouring

Heavy Duty polyethylene construction for outdoor use over varying temperature conditions

FLUIDS



Filter Screen



NEW!

ORDERING INFORMATION

CAT NR.	TYPE	CAPACITY	BOX QTY.
		(litre)	
FNL/11	Without Filter Screen	4.7	15
FNL/11F	With Filter Screen		

72

Conical Funnels

FNL-6

FNL-7

Polyethylene funnels designed for use with virtually any media. Will never corrode or rust.

WETTED COMPONENTS
Polyethylene

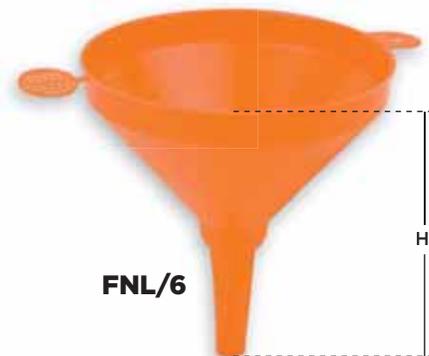
RECOMMENDED USE
Diesel, Gasoline, Kerosene, Urea, Oils, Antifreeze & Other Water based media.

DO NOT USE WITH
Acids & other media at temperatures above 60°C

FLUIDS



FNL/7



FNL/6

NEW!

ORDERING INFORMATION

CAT NR.	CAPACITY	HEIGHT (H)		DIAMETER (D)		BOX QTY.
	(litres)	(inch)	(mm)	(inch)	(mm)	
FNL/6	0.65	6	153	5-3/4	146	60
FNL/7	1.80	8-11/32	214	8-11/32	212	40

73

**Retracta®
Auto Rewind Hose Reels**

AW2101

OPM2101

GR2061

The #1 Selling Auto Rewind Hose reel with features unmatched by any in the Industry

Safe storage system that keeps hoses off the floor, thus reducing costly hose wear, avoiding accidents & keeping workplace organized

Made from weather resistant, high impact UV stabilized Polypropylene

Positive locking mechanism allows mounting in any position: on the wall, roof, shelf etc.

Low rewind tension allows easy hose pull out

Stainless Steel mouth for improved hose & reel service life

Includes Lift Handle, Mounting Bracket that enables 180° rotation

Supplied complete with hose

- Available in 3 types for use with
1. Air/Water (upto a max. working temperature of 60°C)
 2. Oil
 3. Grease



AW2101

Air/Water Hose Reel
Hose Material: Reinforced PVC



OMP2101

Oil Hose Reel
Hose Material: Reinforced Rubber (SAE R1)



GR2061

Grease Hose Reel
Hose Material: Reinforced Rubber (SAE R2)



ORDERING INFORMATION

CAT NR.	DESCRIPTION	WORKING PRESSURE	HOSE LENGTH	HOSE I.D	REEL INLET	HOSE OUTLET	BOX QTY.
			(m)	(mm)			
AW2101	Compressed Air / Water	250 PSI	20	10	3/8" BSP (F)	1/4" BSPT (M)	1
OMP2101	Medium Pressure Oil	1,000 PSI	10	10	3/8" BSP (F)	1/2" NPT (M)	1
GR2061	Grease	5,000 PSI	10	6	1/4" BSP (F)	1/4" BSPT (M)	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Strong & sturdy hose reels with an all metal construction with a ribbed steel disk that prevents bending & flexing. Rolled edges for added strength & stability

Compact design allows these to be used in confined spaces with ease

Casseted Spring Design: Drive springs are manufactured from highest quality spring steel that ensures long life. Precise manufacturing guarantees a superior quality edge. Fully enclosed cassette design makes the spring resistant to corrosion caused by water & dirt, guaranteeing longer life & trouble free operation. Further this design makes it easy & safe for maintenance

Ratchet: Heavy duty dual ratchet reduces stress on spring providing smooth & balanced operation during hose extension & retraction. Dual ratchet teeth can lock hose in multiple usable positions

Multiple Position Guide Arm: Guide arms can be adjusted at 45° intervals that provides versatile floor, wall or truck mounting with a convenient mounting angle for hose to be released at optimum position

Reels are available with two options of guide arms: Dual guide arm option for medium & high pressure applications involving grease & oils. Dual guide arm design is structurally reinforced strengthened with metal ribs that prevent flexing and bending due to hose pull. Single guide arm option for low pressure applications involving air and water

Adjustable roller guide arm with nylon guide rollers reduces drag & wear

Inlet swivel reduces torque load on power spring for smoother hose movement & durability

1/4" (6.35 mm) thick steel base with easy mounting eyelet hole

All components are powder coated after cleaning, degreasing & phosphating ensuring a long lasting, durable & attractive finish.

Hose reels come with an option of 10m (32.8') & 15m (49.2') hose

Hose Reel accessories for floor mounting & angular mounting on walls are also available

Nylon guide rollers reduce drag & wear

Rolled edges resist bending

Ribbed steel disk for maximum strength

Adjustable hose stopper allows any desired length of hose to be maintained outside the reel

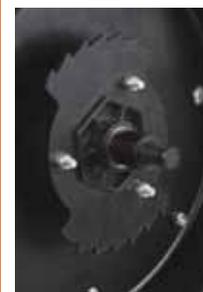
Cassette design protects spring from corrosion against water & dirt offering increased safety during repair / maintenance

1/4" (6.35 mm) thick steel base for added stability

8 position guide arm for convenient mounting on any surface

Multi position ratchet locks hose at any desired length

AIR/WATER LOW PRESSURE HOSE REELS



HR-AW

HR-OL

HR-GR

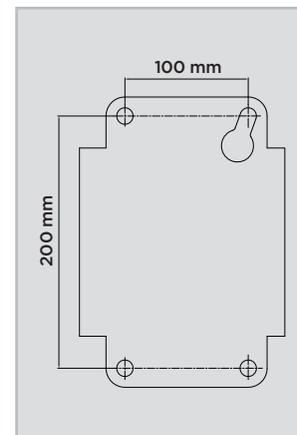


**OIL
MEDIUM
PRESSURE
HOSE
REELS**



**GREASE
HIGH
PRESSURE
HOSE
REELS**

Hose Reel Bolt Pattern



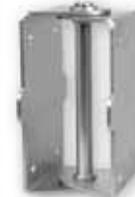
MOUNTING BRACKET OPTIONS



SWV/HR/360
Floor Mounting Bracket
(available as spare)



SWV/HR/140
Wall Mounting Bracket
(available as spare)



ORDERING INFORMATION

CAT NR.	MAX. PRESSURE	INLET/ OUTLET THREADS	HOSE ID		HOSE OD		HOSE LENGTH	BOX QTY.
		(inch)	(inch)	(mm)	(inch)	(mm)		
AIR/WATER - LOW PRESSURE HOSE REELS								
HR/AW/10M/3-8/B	300 PSI	3/8	3/8	9.5	5/8	15.9	10	1
HR/AW/15M/3-8/B	300 PSI	3/8	3/8	9.5	5/8	15.9	15	1
HR/AW/10M/1-2/B	300 PSI	1/2	1/2	12.7	3/4	19	10	1
HR/AW/15M/1-2/B	300 PSI	1/2	1/2	12.7	3/4	19	15	1
OIL - MEDIUM PRESSURE HOSE REELS								
HR/OL/10M/3-8/B	2,000 PSI	3/8	3/8	9.5	23/32	18.1	10	1
HR/OL/15M/3-8/B	2,000 PSI	3/8	3/8	9.5	23/32	18.1	15	1
HR/OL/10M/1-2/B	2,000 PSI	1/2	1/2	12.7	7/8	21.5	10	1
HR/OL/15M/1-2/B	2,000 PSI	1/2	1/2	12.7	7/8	21.5	15	1
GREASE - HIGH PRESSURE HOSE REELS								
HR/GR/10M/1-4/B	5,800 PSI	1/4	1/4	6.35	5/8	15.9	10	1
HR/GR/15M/1-4/B	5,800 PSI	1/4	1/4	6.35	5/8	15.9	15	1
HR/GR/10M/3-8/B	4,000 PSI	3/8	3/8	9.5	3/4	19	10	1
HR/GR/15M/3-8/B	4,000 PSI	3/8	3/8	9.5	3/4	19	15	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Oil Drain with wheel mounted tank for gravity draining of motor, engine, gearbox & differential oils, transmission & power steering fluids etc. from all types of motor vehicles placed on auto lift or a pit

Centrally mounted 10 Litres capacity bowl is height adjustable & can be optimally positioned allowing oil draining as well as other maintenance operations

Durable all-steel design and reinforced castors; the unit provides a safe & affordable option for draining, transferring & evacuating used oil

Designed for excellent mobility, easy bowl positioning & simple to use pressurized evacuation

Comes complete with a 14" (355 mm) telescopic bowl that can be adjusted from 45" (1143 mm) to 72" (1828 mm)

68 Litre tank includes a preset air regulator that allows the use of standard compressed air upto 150 PSI (10 BAR)

Tank includes a safety valve and a reinforced dispensing hose that doubles as a sight gauge to prevent overfilling

WARNING

Do not use with fuels and corrosive media

Bowl fitted with Anti-Splash Screen



Dispensing
Hose
doubles as a
sight gauge
to prevent
over filling



Lockable
Front
Wheels
provide
stability to
the unit



*Only in WOD/68A

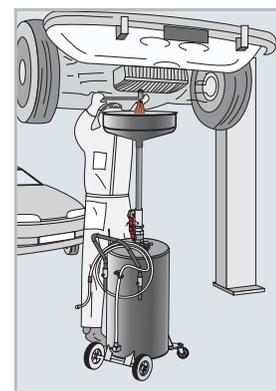


SPECIFICATIONS

TANK CAPACITY	68 Litres
MAX. COLLECTION CAPACITY	55 Litres
BOWL CAPACITY	10 Litres
BOWL INNER DIAMETER	14" (355 mm)
LENGTH OF DRAINING HOSE	2m
MAXIMUM HEIGHT	72" (1828 mm)
MINIMUM HEIGHT	45" (1143 mm)
RECOMMENDED DRAINING PRESSURE	8 PSI (0.5 BAR)

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
WOD/68A	Waste oil drain with anti splash screen	1



Used Oil
being
drained from
vehicle in an
automotive
workshop

76

**Waste Oil Drain
Gravity Feed**

WOD-30

WOD-50

Oil Drain with wheel mounted tank for gravity draining of motor, engine, gearbox & differential oils, transmission & power steering fluids etc. from all types of motor vehicles placed on auto lift or a pit

Centrally mounted 10 Litres capacity bowl is height adjustable & can be optimally positioned allowing oil draining as well as other maintenance operations

Bowl comes fitted with anti splash screen

Durable all-steel design and reinforced castors; the unit provides a safe & affordable option for draining, transferring & evacuating used oil

Designed for excellent mobility, easy bowl positioning & simple to use gravity evacuation

Comes complete with a 14" (355 mm) telescopic bowl with height adjustment option

Tank comes fitted with sight gauge to check waste oil level & a ball valve to drain out oil

WARNING

Do not use with fuels and corrosive media

Waste Oil Drain with bowl fitted with Anti-Splash Screen



Sight Gauge

Ball Valve

SPECIFICATIONS

	WOD-30G	WOD-50G
TANK CAPACITY	30 litres	50 litres
BOWL CAPACITY	10 litres	10 litres
BOWL INNER DIAMETER	355 mm (14")	355 mm (14")
MAXIMUM HEIGHT	1400 mm (55")	1613 mm (63-1/2")
MINIMUM HEIGHT	1016 mm (40")	1016 mm (40")

ORDERING INFORMATION

CAT NR.	BOX QTY.
WOD/30G	1
WOD/50G	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Designed for use with heavy-duty trucks, buses, RV's etc.

Rugged steel construction makes it ideal for use in heavy commercial vehicles repair shops

Removable anti splash tray reduces splash and does not allow particles of more than 5 mm dia. to enter into the tank

Baffles* inside the reservoir prevents any oil spillage during transport

*Only on 90 litre models

Available in two capacities

- a. 68 litres
- b. 90 litres

Both sizes available with and without pump

Manual Pump discharge upto 1 litre / 5 turns

NEW!


ORDERING INFORMATION

CAT NR.	DESCRIPTION	LENGTH (L)		WIDTH (W)		HEIGHT (H)		RESERVOIR CAPACITY (litre)	BOX QTY.
		(Inch)	(mm)	(Inch)	(mm)	(Inch)	(mm)		
TD/68G	Gravity oil drain	41.92	1065	22	560	7-1/2	190	68	1
TD/68P	Drain with manual rotary pump	41.92	1065	22	560	7-1/2	190	68	1
TD/90BF/G	Gravity oil drain	47.8	1215	29.5	750	8.3	212	90	1
TD/90BF/P	Drain with manual rotary pump	47.8	1215	29.5	750	8.3	212	90	1

78

Plastic Truck Drains

TD-17

Designed for use with heavy-duty trucks, buses, rv's & other low profile automobiles.

Eliminates the need to lift the vehicle for changing oil or coolant

65 Litre capacity reservoir moulded from robust, lightweight high-impact polyethylene.

To collect waste fluids including motor oil and transmission fluid, coolant etc.

4" (100 mm) nylon castors gives better maneuverability.

Hose hanger for safe keeping the hose when not in use

Removable anti splash tray does not allow solid particles/debris of above 0.15" (3.8 mm) dia. to enter into the tank.

Recessed pocket at each corner provides storage space for drain plugs & filters.

Baffles inside the reservoir prevents any oil spillage during transport.

Available in two versions:

- a. With pump
- b. Without pump

Manual rotary pump offers a discharge of upto 1 litre / 5 turns

NEW!



TD-17P
(With Pump)

SPECIFICATIONS

MODEL	TD-17G	TD-17P
TRUCK DRAIN HEIGHT	7 -3/4" (195 mm)	7 -3/4" (195 mm)
DISCHARGE HOSE OF 6FT. (2000 MM)	Yes	Yes
FEEDER HOSE OF 1.25 FT. (380 MM)	No	Yes
ROTARY PUMP DISCHARGE	-	1 litre / 5 strokes
STEEL SPOUT	Yes	Yes

ORDERING INFORMATION

CAT NR.	DESCRIPTION	RESERVOIR CAPACITY	BOX QTY.
		(litre)	
TD/17G	Gravity oil drain	65	1
TD/17P	Oil drain with manual rotary pump	65	1

TD-17G (Without Pump)



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

79
Drain Pan
ODP-16

High density polyethylene construction

Chemical / solvent resistant

Designed to ship in nested form


ORDERING INFORMATION

CAT NR.	CAPACITY	COLOUR	BOX QTY.
	(litre)		
ODP/16/GN	16	Green	15
ODP/16	16	Black	15


80
Metal Drain Pan
ODR-7

Designed for use with heavy-duty trucks, buses, RV's

Rugged steel construction (makes it ideal for use in repair shops)

Steel body keeps the pan odour free at all times

For handling engine oil, gear oil, transmission fluids & coolants etc.

Powder coated for better rust resistance

Built-in handles for convenient handling and easy pouring of fluids

NEW!

ORDERING INFORMATION

CAT NR.	DIAMETER		HEIGHT		CAPACITY	BOX QTY.
	(inch)	(mm)	(inch)	(mm)		
ODR/7	18.66	474	8.54	217	26	1

81

Heavy Duty Explosion Proof High Flow Electric Fuel Pump

FPM-HF

Heavy duty industrial grade fuel pumps designed for heavy duty use in agriculture, construction, automotive & industrial applications

Rain & weather proof for tough outdoor use

Lightweight, yet strong non corroding aluminum die cast construction

Geared pump design using precision sintered metal gears

Geared construction makes the pump tolerant to contaminants in fuel, in addition to offering tremendous suction & minimal noise

UL & cUL listed motor

Duty Cycle: 30 minutes on / 30 minutes off

Select models available with meter & filter

WETTED COMPONENTS

Aluminium, Steel, Cast Iron, Nylon, NBR, Zinc, Viton, Stainless Steel.

RECOMMENDED USE

Petrol, Diesel, E-15 Fuel, Kerosene, Bio Diesel

SPECIFICATIONS

DESCRIPTION	Heavy Duty 12V DC
FLOW RATE (AT PUMP OUTLET)	Upto 75 LPM*
EXPLOSION PROOF MOTOR	1/7 HP 12V DC
AMP	30 Amp
INTERNAL BYPASS VALVE	Yes
SUCTION PIPE	Steel
HOSE	1" x 12' anti static hose
TANK ADAPTER	2" threaded
INLET	1" NPT
OUTLET	1" NPT
DISPENSING NOZZLE	1" Manual with swivel
BATTERY CABLE (2 WIRES)	15'

*Measured at pump outlet with vehicle engine switched on

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
FPM/12/HF/D	12V DC fuel pump complete with suction tube, bung nut, power cable, discharge hose & manual nozzle	1
FPM/12/HF/MT/D	FPM/12/HF/D pump system along with mechanical fuel meter	1
FPM/12/HF/FMT/D	FPM/12/HF/D pump system along with mechanical fuel meter & fuel filter	1

Nozzle hangar for safe storage of nozzle when not in use

Provision to pad lock



Manual fuel control nozzle with built-in swivel

Wire mesh strainer designed for easy cleaning without pump dis-assembly

Spin collar for easy installation

ON/OFF switch

2 pc threaded suction tube 34" (864 mm) long

1" x 12' anti static rubber hose

FEATURES

GEAR PUMP	FLOW RATE
	UPTO 75 LPM*

FLUIDS

PETROL	DIESEL	BIO DIESEL	KEROSENE

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Heavy Duty Explosion Proof Electric Fuel Pumps

Heavy duty industrial grade fuel pumps designed for everyday use in agriculture, construction, automotive & industrial applications

Rain & weather proof for tough outdoor use

Lightweight, yet strong non corroding aluminum die cast construction

Geared pump design using precision sintered metal gears

Geared construction makes the pump tolerant to contaminants in fuel, in addition to offering tremendous suction & minimal noise

UL & cUL listed motor

Duty Cycle: 30 minutes on / 30 minutes off

Select models available with meter & filter

WETTED COMPONENTS

Aluminium, Steel, Cast Iron, Nylon, NBR Zinc, Viton, Steel Stainless

RECOMMENDED USE

Petrol, Diesel, E-15 Fuel, Kerosene, Bio Diesel

FEATURES

GEAR PUMP	FLOW RATE
	UPTO 57 LPM

Nozzle hangar for safe storage of nozzle when not in use

Wire mesh strainer designed for easy cleaning without dismantling the pump

Spin collar for easy installation

3/4" x 12' anti static rubber hose

ON/OFF switch

Provision to pad lock

2 pc threaded suction tube 34" (864 mm) long

Manual fuel control nozzle with built-in swivel



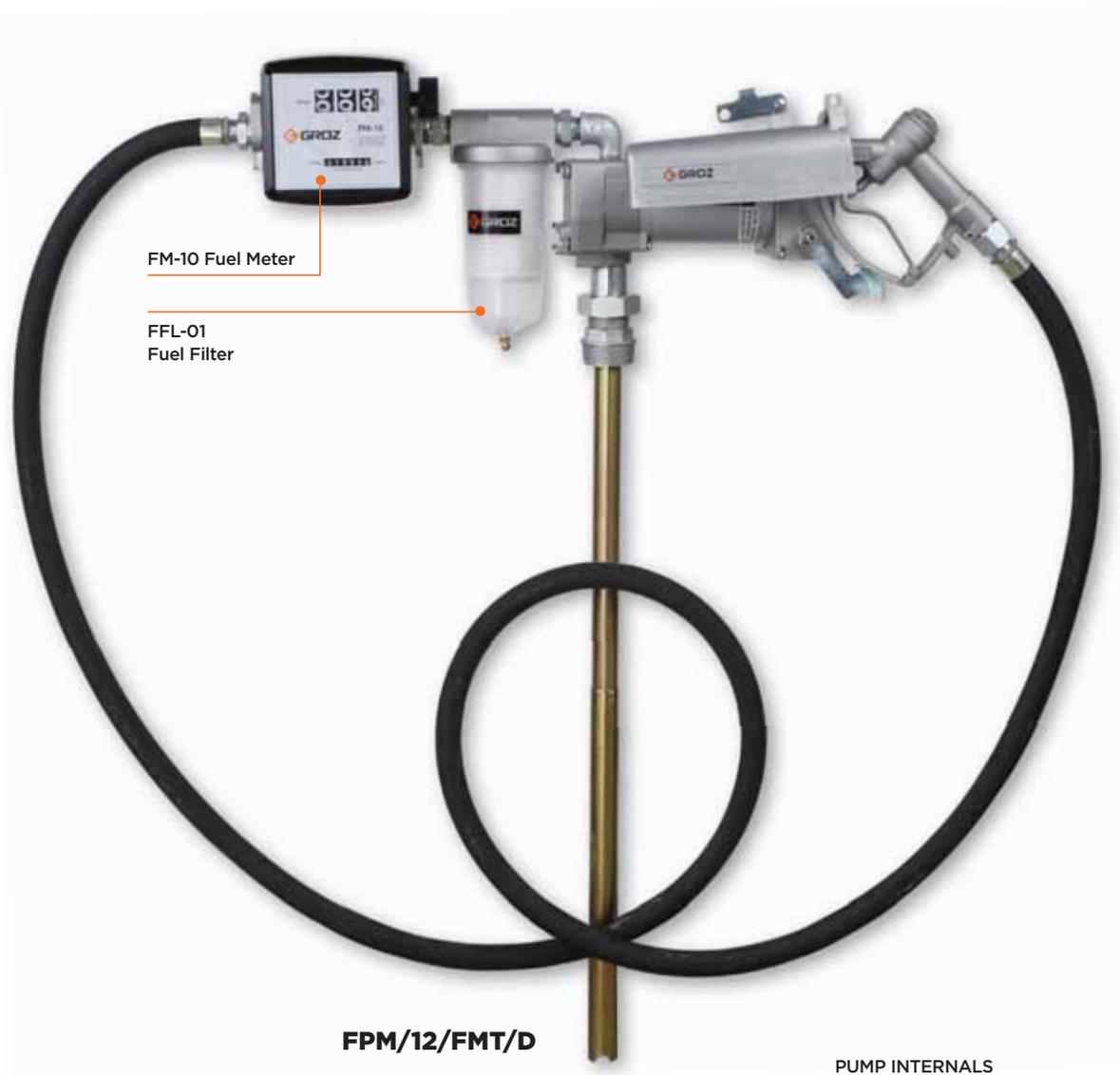
FPM/12/D

SPECIFICATIONS

	FPM-12	FPM-24	FPM-220
DESCRIPTION	Heavy Duty 12V DC	Heavy Duty 24V DC	Heavy Duty 220V AC
FLOW RATE (AT PUMP OUTLET)	Upto 57 LPM*	Upto 57 LPM*	Upto 57 LPM
EXPLOSION PROOF MOTOR	1/7 HP 12V DC	1/7 HP 24V DC	1/8 HP 220V AC , 50/60 Hz.
AMP	25 Amp	11 Amp	1.4 Amp
INTERNAL BYPASS VALVE	Yes	Yes	Yes
SUCTION PIPE	Steel	Steel	Steel
HOSE	3/4" x 12' anti static hose	3/4" x 12' anti static hose	3/4" x 12' anti static hose
TANK ADAPTER	2" Threaded	2" Threaded	2" Threaded
INLET	1" NPT	1" NPT	1" NPT
OUTLET	3/4" NPT	3/4" NPT	3/4" NPT
DISPENSING NOZZLE	3/4" manual with swivel	3/4" manual with swivel	3/4" manual with swivel
BATTERY CABLE (2 WIRE)	15'	15'	NA

* Measured at pump outlet with vehicle engine switched on

FPM

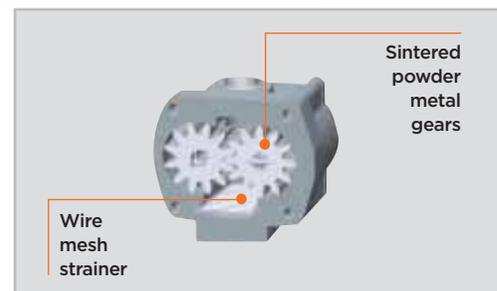


FPM/12/FMT/D

FLUIDS



PUMP INTERNALS



ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
FPM/12/D	12V DC fuel pump complete with suction tube, bung nut, power cable, discharge hose & manual nozzle	1
FPM/24/D	24V DC Fuel Pump complete with suction tube, bung nut, power cable, discharge hose & manual nozzle	1
FPM/220	220V AC Fuel Pump complete with suction tube, bung nut, power cable, discharge hose & manual nozzle	1
FPM/12/MT/D	FPM/12/D Pump System along with mechanical fuel meter	1
FPM/12/FMT/D	FPM/12/D Pump System along with mechanical fuel meter & fuel filter	1

DRUM MOUNTING



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Diesel Transfer Pump, ideal for use on stationary tanks, fixed fuel transferring systems & dispensers and other similar industrial applications

Lightweight, yet strong non corroding aluminium die cast construction

Self priming vane pump

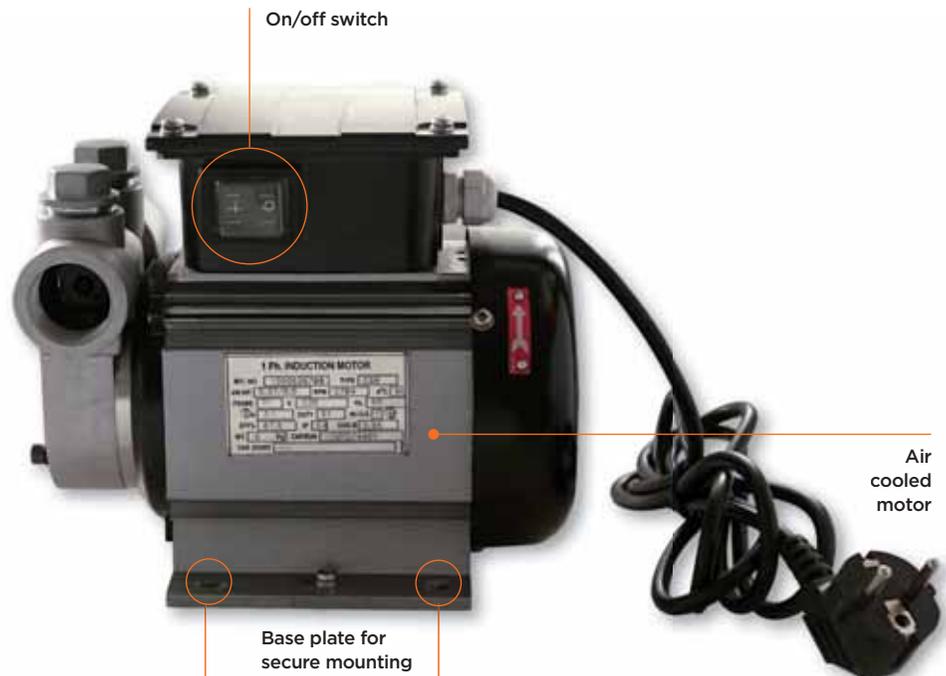
Continuous Duty Cycle with thermal overload protection

WETTED COMPONENTS
Aluminium, Nitrile Rubber, Steel, Nylon

RECOMMENDED USE
Diesel & Kerosene

FEATURES

FLOW RATE	5 VANE PUMP
UPTO 56 LPM	



SPECIFICATIONS

DESCRIPTION	220V AC
FLOW RATE (AT PUMP OUTLET)	Upto 56 LPM*
MOTOR	1/2 HP 220V AC, 50/60 Hz
RPM	2800
INTERNAL BYPASS VALVE	Yes
INLET/ OUTLET	1" BSP (F)
POWER CABLE LENGTH	2m
DUTY CYCLE	Continuous Duty
HORIZONTAL DISTANCE DISCHARGE	50'
VERTICAL DISTANCE DISCHARGE	20'

*Measured at pump outlet with vehicle engine switched on

FLUIDS



ORDERING INFORMATION

CAT NR.	INLET / OUTLET	BOX QTY.
CDP/220UR/EU	1" BSP	1
SPARE PARTS & KITS		
KIT/RPR/CDP	Repair Kit	1

84

Mini Bowser Diesel Refilling System

CBN

A compact & convenient system designed for all stationary diesel refilling applications

Extremely versatile, the bowser can be installed directly on a wall, on an existing structure with screws or directly on a tank

The dispensing system is equipped with a continuous usage self-priming diesel pump, high precision mechanical meter, nozzle & hose: encased in sturdy, weather-proof metal housing. This casing has an in-built nozzle holder, nozzle hangar & a lever ON/OFF switch

Continuous Duty Electric Fuel Pump: Self priming, vane pump with an integral bypass valve is equipped with a self ventilated, 1/2 HP motor with thermal overload protection. This makes it suitable for continuous usage

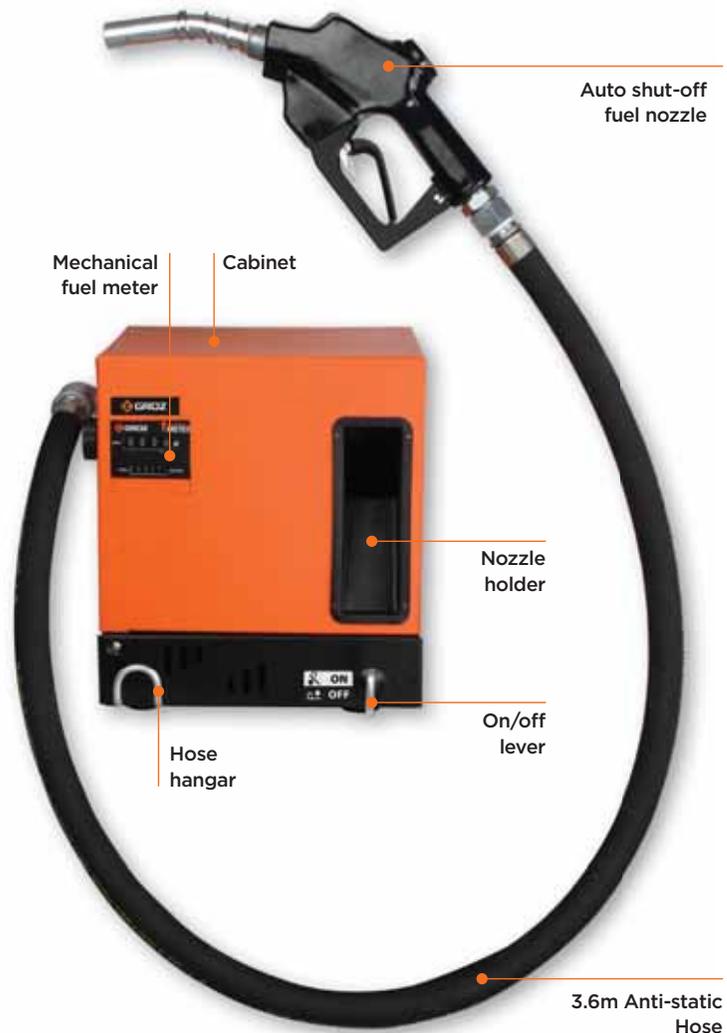
Mechanical Diesel Meter: Nutating disc mechanical meter with litre display, flow rate of 20-120 LPM & pressure rating 145 PSI

Fuel Control Nozzle - Automatic: Dual mode nozzle - Manual & Automatic. Sensor in the discharge spout outlet automatically shuts off supply when fuel level in the tank reaches the discharge spout. The nozzle is equipped with a swivel at the inlet for convenience in usage

Fuel Hose: 3.6m (10.5') x 1" (ID) long antistatic fuel hose

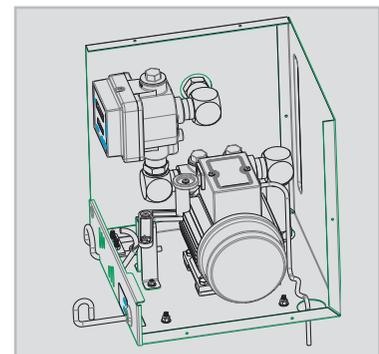
Nozzle Holder: In-built into the metal casing for keeping hose safe when not in use

Hose Hangar: For safe storage of nozzle



SPECIFICATIONS

SYSTEM / BOWSER DESCRIPTION	220V AC
INLET / OUTLET	1" BSP (F)
PUMP MOTOR	1/2 HP 220V AC, 50 Hz
PUMP RPM	2700
DUTY CYCLE	Continuous Duty
POWER CABLE LENGTH	2m
METER ACCURACY	± 1%
METER LEAST COUNT	0.10 litres
MAX. RESETTABLE BATCH TOTAL	999.9 litres
MAX. NON RESETTABLE TOTALIZER	999999 Litres
HOSE LENGTH	3.6m x 1" ID



ORDERING INFORMATION

CAT NR.	DESCRIPTION	INLET / OUTLET	BOX QTY.
CBN/220EU/L/A	1/2 HP 220V AC, 50/60 Hz, power cord	1" BSP	1

FEATURES

FLOW RATE	METER ACCURACY
UPTO 44 LPM	± 1%

FLUID

DIESEL	KEROSENE
	

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

85

Electric Drum Pump

Worlds 1st rechargeable 19.2V battery operated pump

Electric drum pump designed for pumping fuels, water based media, light oils & select chemicals from 205 litre drums or 1000-1250 litre IBC's

Compact & lightweight construction

Convenient ON/OFF switch with LED Indicator

Built-in fuse for overload protection

Silenced motor makes almost no noise

Stainless steel filter built into the suction tube inlet prevents contaminants from getting in & causing damage

Telescopic suction tube extends from 33-1/2" (850 mm) to 49" (1245 mm) for use with 205 litre drums or 1000-1250 litre IBC's

Built-in 2" bung adaptor fits directly onto 205 litre drums. Bung adapter can be adjusted by 0.6" (15 mm) to adjust to drums with varying heights. Includes an additional bung thread converter for converting 2" standard bung threads to 2.5" x 5 mm buttress for using pump with plastic drums & IBC's

Supplied complete with 2m (6.6') hose & manual dispensing nozzle with 3/4" (19 mm) OD Stainless Steel Spout

Duty Cycle: 15 minutes On / 15 Minutes Off



EDR/55T/RB/19N/EU

FEATURES

DELIVERS
UPTO 28 LPM

FLUIDS

DIESEL	KEROSENE	LIGHT OIL	UREA	WATER	DETERGENTS	PESTICIDES HERBICIDES	BIO DIESEL

EDR-55

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS



AVAILABLE IN 3 CONFIGURATIONS



1
With 12V DC
Power Cable



2
With 19.2V, 1.5Ah
Rechargeable Ni Cd Battery
& 1hr Battery Charger



3
With 100V-240V, 50/60 Hz
AC Dual Voltage
Power Adaptor

SPECIFICATIONS

MOTOR TYPE	DC Brush Motor (5 Pole)
DC POWER CABLE	4m long with Crocodile Clips
AC POWER ADAPTER	Input: 100 to 240 V AC, 50 / 60 Hz, Output: 12 V DC Constant Voltage, 3A max
RECHARGEABLE BATTERY	19.2V, 1.5 Ah Ni Cd Battery
MAX. VISCOSITY OF MEDIA	100 cst
TEMPERATURE	5°C to 40°C

WETTED COMPONENTS

Viton, POM, Stainless Steel, PE, NBR, Zinc, PP

RECOMMENDED USE

Diesel, Kerosene, Bio Diesel, Urea, Water based media, Antifreeze, Detergents, Light oils with viscosity upto 100 cst, Pesticides & Herbicides.

NOT TO USE WITH

Petrol, Corrosive chemicals, Lacquer thinners, any material that is not compatible with the pump construction.

ORDERING INFORMATION

CAT. NR.	DESCRIPTION	DELIVERY	BOX QTY.
EDR/55T/DC	Electric Drum Pump with DC Power Cable (12V)	Upto 18.4 LPM	4
EDR/55T/AC/EU	Electric Drum Pump with CE AC Power Adapter	Upto 18.9 LPM	4
EDR/55T/RB/19N/EU	Electric Drum Pump with Battery Adapter, one 19.2V, 1.5 Ah Ni Cd Rechargeable battery & CE Battery Charger	Upto 28 LPM	4



Portable diesel transfer pumps designed for everyday use in agricultural, construction, automotive & industrial applications

Lightweight, yet strong non-corroding aluminum die cast construction

Self priming vane pump design

Bypass valve keeps the motor safe even when the outlet is closed

Duty Cycle:
30 minutes ON /30 minutes OFF

Pump inlet & outlet threaded 3/4" (F)

Includes pump with base plate & lift handle

Includes strainer & 2m long battery cable with fuse & clamps, aluminium nozzle for controlling fuel delivery. Hardware supplied includes 3 hose barbs (3/4") & 4 hose clamps

Supplied complete with 4m x 3/4" ID hose that can be cut into two parts for use as a suction & delivery hose

WETTED COMPONENTS

Steel, Aluminum, Zinc, Nylon, Nitrile Rubber & PVC Nitrile

RECOMMENDED USE

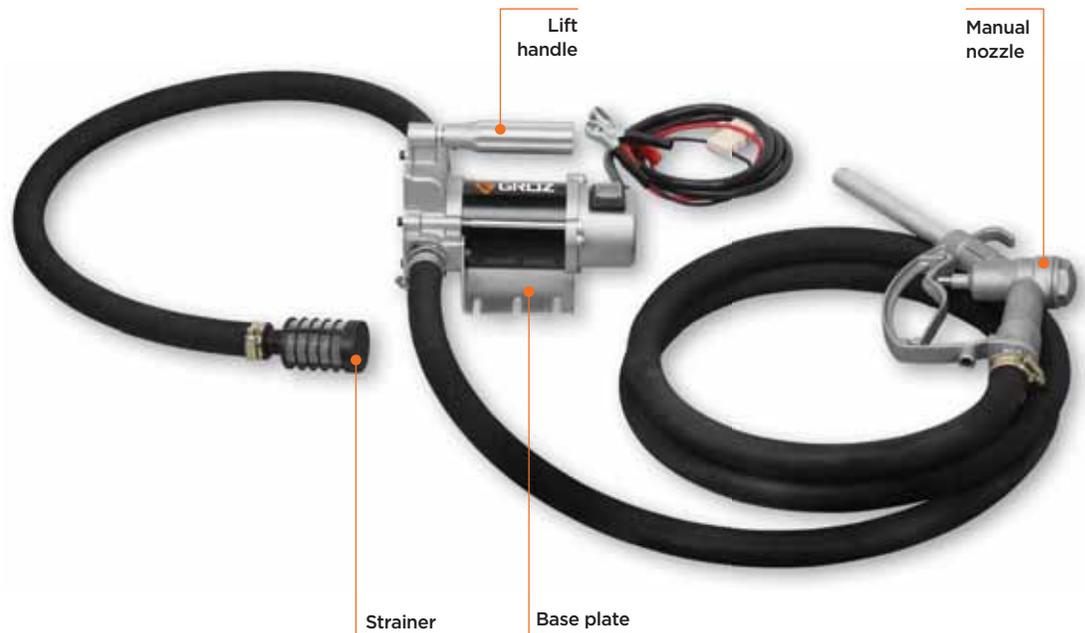
Diesel & Kerosene

SPECIFICATIONS

	12V DC	24 V DC
MOTOR	1/4 HP 12V DC	1/4 HP 24V DC
RPM	2600	2600
AMP	18 Amp	11 Amp
INTERNAL BYPASS VALVE	Yes	Yes
BATTERY CABLE (2 WIRE)	2m	2m
DUTY CYCLE	30 mins. On/ 30 mins Off	30 mins. On/ 30 mins Off

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
EDP/12M/ST	12V DC	1
EDP/24M/ST	24V DC	1



FEATURES

FLOW RATE	5 VANE PUMP
UPTO 46 LPM	

FLUIDS

DIESEL	KEROSENE
	

WARNING

Do not use with flash point below 38° C such as Petrol or Alcohol. Sparking could result in explosion causing fatal injury

87

Industrial Rotary Fuel Pumps

RBP-3V

Industry standard for rotary pumps, these are by far the heaviest duty pumps, ideal for tough outdoor use in extreme weather conditions. Suitable for transferring media into smaller container or for quick refuelling of diesel powered vehicles or equipment

Deliver media with a head / lift upto 20' (6 metres)

Solid cast iron construction, fully CNC machined to close tolerances

Pump handle rotates a high quality sintered powder metal 3 vane rotor inside a highly finished pumping chamber

Graphite vanes are self lubricating & non wearing

High quality graphite seal allows the pump to be used with a wide variety of fluids

Self priming operation with discharge up to 38 LPM

For use with 50-210 litre barrels

WETTED COMPONENTS

Cast Iron, Steel, Graphite, Paper, Polypropylene

RECOMMENDED USE

Petroleum based fluids, Diesel, Petrol & Kerosene

DO NOT USE WITH

Water Based Media

FEATURES

DELIVERS	3 VANE PUMP
UPTO 38 LPM	

FLUIDS

OIL	DIESEL	BIO DIESEL	KEROSENE	PETROL

ORDERING INFORMATION

CAT NR.	DETAILS	BOX QTY.
RBP/3V	Pump with steel discharge spout	1
RBP/3V/H	Pump with 8' anti static hose, nozzle & nozzle holder	1
SPARE PARTS & KITS		
KIT/RBP/3V	Repair Kit includes pump head gasket, graphite vanes (3), vane springs (3), shaft nut, packing & packing nut	1



RBP/3V/H

RBP/3V



KIT/RBP/3V



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

88

Rotary Booster Pump 3:1

RB-3

Geared Rotary Barrel Pump with 3 times discharge per rotation; for every turn of the handle the rotor turns 3 times

Ideal for use where volume fuel dispensing is needed, such as construction sites, workshop, aviation, farms boat etc.

Aluminium die cast pump with sintered gear driven die cast rotor & vanes

Complete with 3 pc threaded suction tube for use on 50-210 litre drums

RECOMMENDED USE

Petrol, Diesel & Kerosene

FEATURES

DELIVERS	2 VANE PUMP
UPTO 500 ML / ROTATION	

ORDERING INFORMATION

CAT NR.	BOX QTY.
RB/3H	1

"Built-in"
nozzle
holder

Aluminum
die cast
handle
with
security
locking
latch

2" cast
iron
bung
adaptor

1.8 m
discharge
hose with
metal
nozzle,
spring and
hose clamp

EMPTIES
210 L DRUM
3
MINUTES

FLUIDS

DIESEL	KEROSENE
	
PETROL	
	

89

Rapidflo™ Rotary Fuel Transfer Pump

GT-01

Highly durable, high quality impeller pump incorporating a gearbox for high output and easy operation

Pumps easily in both directions

In built strainer

Ideal for rapid transfer of fuels on construction sites, aviation etc.

Suitable for 50-210 Litre Drums

RECOMMENDED USE

Diesel, Petrol, Kerosene and Lubricating Oil upto SAE 30

FEATURES

DELIVERS
UPTO 800 ML / ROTATION

ORDERING INFORMATION

CAT NR.	BOX QTY.
GT-01	1

"Built-in"
nozzle
holder

Aluminum
die cast
handle
with
security
locking
latch

2.4m rubber
delivery hose &
nozzle

2" bung
adaptor



macnaught

EMPTIES
210 L DRUM
2
MINUTES

FLUIDS

DIESEL	KEROSENE
	
PETROL	
	

90

Double Diaphragm Fuel Transfer Pump

DPP-1

Heavy duty fuel transfer pump with discharge upto 800 ml / stroke

Ideal for use on construction sites, farms, boats etc. where compressed air/power is not available

Stainless steel piston & fuel resistant hi-nitrile rubber diaphragm

Includes a 2" bung adaptor & heavy duty steel handle with security locking latch

Easy to clean wire mesh screen at pump inlet

Complete with telescopic suction tube, for use with 50-210 litre drums

WETTED COMPONENTS

Aluminium, Steel, Stainless Steel, Polycarbonate & NBR

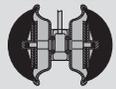
RECOMMENDED USE

Petrol, Diesel, Kerosene, Motor Oil

DO NOT USE WITH

Corrosive liquids, Solvents, Acid, Alkalis etc.

FEATURES

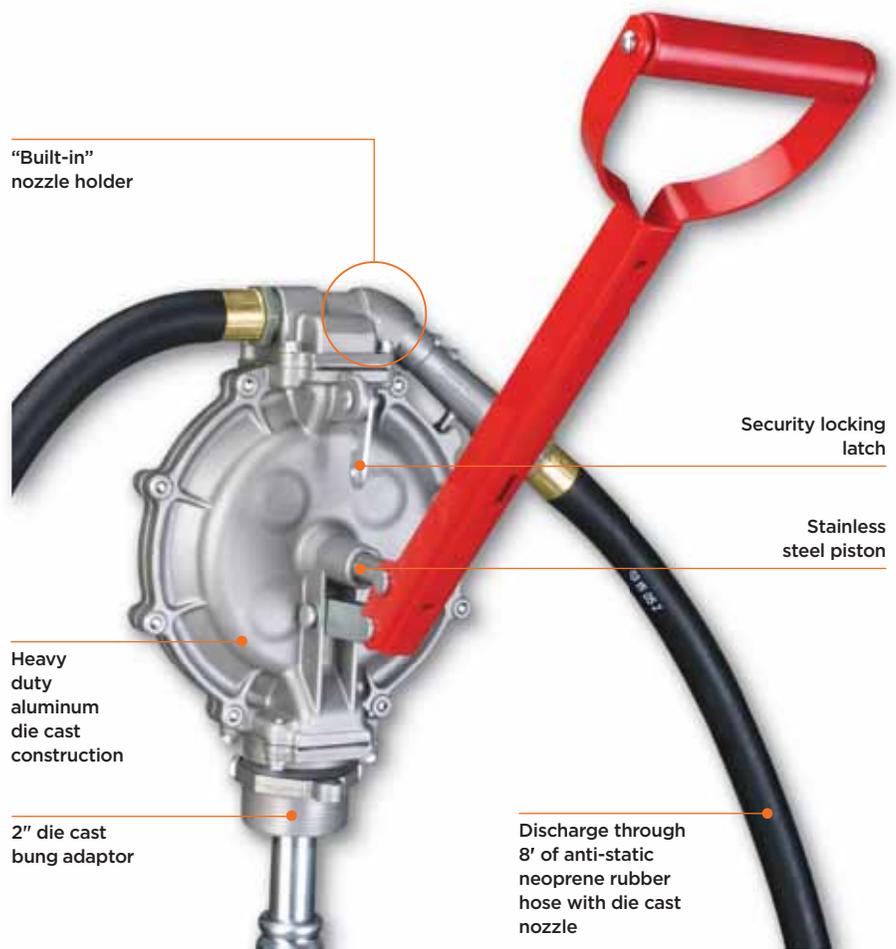
DELIVERS	DIAPHRAGM PUMP
UPTO 800 ML / STROKE	

FLUIDS

DIESEL	KEROSENE
	
PETROL	
	

ORDERING INFORMATION

CAT NR.	BOX QTY.
DPP/1	1



WARNING

Note that Fuels containing Ethanol will cause more frequent replacement of rubber parts

Do not use with Fuels with Ethanol content greater than 10%

Never operate the pump near fire or source of spark. Some media may be explosive & dangerous to pump

Pump is designed primarily for use with low viscosity media. Pumping heavy fluids may cause undue stress resulting in fracture

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

High accuracy flow meter with mechanical register

Nutating disc mechanism offers high tolerance to contaminated fuels

Meter is designed for both In-Line applications & gravity flow (with a minimum gravity head of 4')

Ideal for use with electric fuel pumps

Register cap can be easily removed & rotated to every 90° orientation for convenient read out

Robust aluminium die cast construction

Easy user re calibration

WETTED COMPONENTS

Aluminium, Butyl Terephthalate, Nitrile Rubber

RECOMMENDED USE

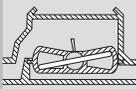
Diesel, Biodiesel, Oils

DO NOT USE WITH

Petrol, Water based media



FEATURES

FLOW RATE	MAX. WORKING PRESSURE	NUTATING DISC MECHANISM
20 - 120 LPM	145 PSI (10 BAR)	
WORKING TEMPERATURE RANGE		
-10°C TO 60°C		



Display can be changed by rotating the card in its housing thus ensuring greater versatility in positioning

SPECIFICATIONS

ACCURACY	± 1%
REPEATABILITY	± 0.30 %
MAX. WORKING PRESSURE	145 PSI (10 BAR)
BURST PRESSURE	435 PSI (30 BAR)
PRESSURE LOSS	3 PSI (0.20 BAR)
MAX. RESETTABLE BATCH TOTALIZER	999 Litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 Litres
LEAST COUNT/ RESOLUTION	0.10 Litre
MAX VISCOSITY OF MEDIA	5.35 cst

Note: Not to be used for commercial sale

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
FM-10/0-1/BSP	1" BSP (F)	1

FLUIDS

OIL	DIESEL	BIO DIESEL
		

92

Digital Fuel Meter

FM-20

Digital Turbine meter for low viscosity fluids, easy to install in line or for end of the line applications

Polyamide turbine measuring mechanism

Electronic display using two AAA 1.5V batteries

Aluminium body and sealed electronic card makes it suitable for use in severe weather conditions

Bi-directional: Display can be rotated in 4 different positions

Measures in litres, quarts, pints & gallons

Easy user re calibration

Either ports can be used as inlet/ outlet

WETTED COMPONENTS

Aluminum & Polyamide

RECOMMENDED USE

Diesel, Petrol, Bio Diesel, Windshield Fluid, Water

DO NOT USE WITH

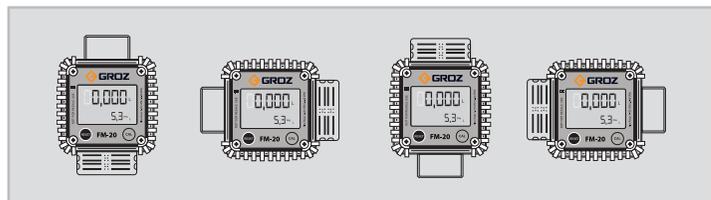
Oils



Bi Directional

FEATURES

FLOW RATE	MAX. WORKING PRESSURE	TURBINE MECHANISM
7 - 120 LPM	300 PSI (20 BAR)	
WORKING TEMPERATURE RANGE		
-10°C TO 50°C		



Display can be changed by rotating the card in its housing thus ensuring great versatility in positioning

SPECIFICATIONS

ACCURACY	± 1%
REPEATABILITY	± 0.30 %
BURST PRESSURE	580 PSI (40 BAR)
WORKING TEMPERATURE	-10°C to 50°C
MAX. RESETTABLE BATCH TOTALIZER	99,999 Litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 Litres
LEAST COUNT/ RESOLUTION	0.001 units
MAX. VISCOSITY OF MEDIA	5.35 cst
WATER RESISTANCE	IP 55

Note: Not to be used for commercial sale

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
FM/20/0-1/BSP	1" BSP (M) x 1" BSP (F)	1

FLUIDS

DIESEL	PETROL	BIO DIESEL
WINDSHIELD FLUID	WATER	

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

High accuracy flow meter with mechanical register

Oval Gear mechanism allows use of meter with flow rates as low as 3 LPM

Meter is designed for both in-line applications & gravity flow (with a minimum gravity head of 4')

Ideal for use with electric fuel pumps

Register cap can be easily removed & rotated to every 90° orientation for convenient reading

Supplied with integrated mesh strainer

Robust aluminium die cast construction

WETTED COMPONENTS

Aluminium, Viton, Mild Steel, Resin, Acetal

RECOMMENDED USE

Diesel & Kerosene

DO NOT USE WITH

Water Based Media

6 digit accumulative totalizer (max. 999,999 litres)



4 digit re-settable batch totaliser (max. 999.9 litres)

FEATURES

FLOW RATE	MAX. WORKING PRESSURE	OVAL GEAR MECHANISM
3 - 80 LPM	145 PSI (10 BAR)	

SPECIFICATIONS

FLOW RATE	3 to 80 LPM
INLET/OUTLET	1" BSP (F)
ACCURACY	± 1%
REPEATABILITY	± 0.30 %
MAX. WORKING PRESSURE	145 PSI (10 BAR)
MAX. RESETTABLE BATCH TOTALIZER	999.9 Litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 Litres
LEAST COUNT/ RESOLUTION	0.10 Litre

Note: Not to be used for commercial sale

FLUIDS



ORDERING INFORMATION

CAT NR.	BOX QTY.
MFM/DM100/BSP	1

94

In-line Flow Meter

MFM -M10

Heavy-duty high accuracy flow meter with mechanical register

Oval gear mechanism

Meter is designed for both in-line applications & gravity flow (with a minimum gravity head of 4')

Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required)

Meter construction enables fast and easy on-site servicing without removal from application

Handles a wide variety of media from fuels to high viscosity oils upto SAE 140

Robust aluminium cast construction

Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued

6 Digit Accumulative Totalizer (max. 999,999 litres)

4 Digit Re-Settable Batch Totaliser (max. 999.9 litres)

Inlet / Outlet 1" BSP(F)



FEATURES

FLOW RATE	MAX. WORKING PRESSURE	OVAL GEAR MECHANISM
6 - 120 LPM	500 PSI (35 BAR)	

SPECIFICATIONS

FLOW RATE	6 to 120 LPM
INLET / OUTLET	1" BSP (F)
ACCURACY	± 1%
REPEATABILITY	± 0.03 %
MAX. WORKING PRESSURE	500 PSI (35 BAR)
MAX. RESETTABLE BATCH TOTALIZER	999.9 Litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 Litres
LEAST COUNT/ RESOLUTION	0.10 Litre

Note: Not to be used for commercial sale

FLUIDS



ORDERING INFORMATION

CAT NR.	BOX QTY.
MFM/M10/BSP	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

For use with electric fuel pumps & gravity feed applications

All metal construction with the body, discharge spout, trigger & guard made from aluminium

Available with a swivel at the inlet. Hose swivel at inlet offers increased maneuverability & convenience in use

Manual control; also includes continuous flow switch for unattended dispensing

Designed for minimal back pressure & reduction in flow

WETTED COMPONENTS

Aluminum, Steel, Nylon, Nitrile Rubber

FEATURES
MAX. WORKING PRESSURE
**50 PSI
(3.45 BAR)**
FLUIDS

ORDERING INFORMATION

CAT NR.	INLET THREAD	SPOUT OUTER DIA. (mm)	MAX. FLOW RATE (LPM)	BOX QTY.
FCN/S/3-4/3-4/N	3/4" NPT (F)	19	57	1
FCN/S/0-1/0-1/N	1" NPT (F)	25	75	1

For use with Electric Fuel Pumps

Dual Mode: Manual & Automatic. Sensor built into the discharge spout outlet automatically shuts off supply once fuel level in the tank reaches that of the outlet discharge spout

Heavy-duty cast aluminum body, trigger & guard from thermoplastic & protective vinyl grip on the nozzle body

WETTED COMPONENTS

Aluminium, Viton

FEATURES
MAX. WORKING PRESSURE
**50 PSI
(3.45 BAR)**
FLUIDS

ORDERING INFORMATION

CAT NR.	SPOUT TYPE	INLET THREAD	SPOUT OUTER DIA.	MAX. FLOW RATE	BOX QTY.
			(mm)	(LPM)	
FCNA/3-4A/N	Curved with Spring	3/4" NPT (F)	21	60	1
FCNA/0-1/N	Curved with Spring	1" NPT (F)	27	100	1

97

Fuel Control Nozzle Metered

FM20-FCN

Manual Fuel Control Nozzle fitted with Digital Fuel Meter

Die cast aluminium nozzle with built-in swivel at inlet

Manual nozzle has a switch for un-attended continuous dispensing

Polyamide turbine measuring mechanism

Electronic display using two AAA 1.5V batteries

Aluminium meter body and sealed electronic card makes it suitable for use in severe weather conditions

Measures in litres, quarts, pints & gallons

Easy user re-calibration

WETTED COMPONENTS

Polyamide, Aluminum, Steel, Nylon, Nitrile Rubber

RECOMMENDED USE

Diesel, Petrol

DO NOT USE WITH

Oils

FEATURES

FLOW RATE	MAX. WORKING PRESSURE	WORKING TEMPERATURE RANGE
7 - 75 LPM	50 PSI (3.45 BAR)	0°C to 50°C

SPECIFICATIONS

FLOW RATE	5 to 75 LPM
ACCURACY	± 1%
REPEATABILITY	± 0.30 %
MAX. WORKING PRESSURE	50 PSI (3.45 BAR)
MAX. RESETTABLE BATCH TOTALIZER	99,999 Litres
MAX. NON RESETTABLE BATCH TOTALIZER	9,99,999 Litres
LEAST COUNT/ RESOLUTION	0.001 Units
MAX. VISCOSITY OF MEDIA	5.35 cst
WATER RESISTANT	IP 55

FLUIDS



ORDERING INFORMATION

CAT NR.	INLET THREAD	SPOUT OUTER DIA.	BOX QTY.
		(mm)	
FM/20/FCN/3-4/N	3/4" NPT (F)	19	1
FM/20/FCN/0-1/N	1" NPT (F)	25	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Provides a full 360° rotation for free movement facilitating flexibility to refuel vehicles from virtually any direction. Swivel is installed between the fuel nozzle and hose to reduce strain, providing flexibility so that the fuelling hose lasts longer

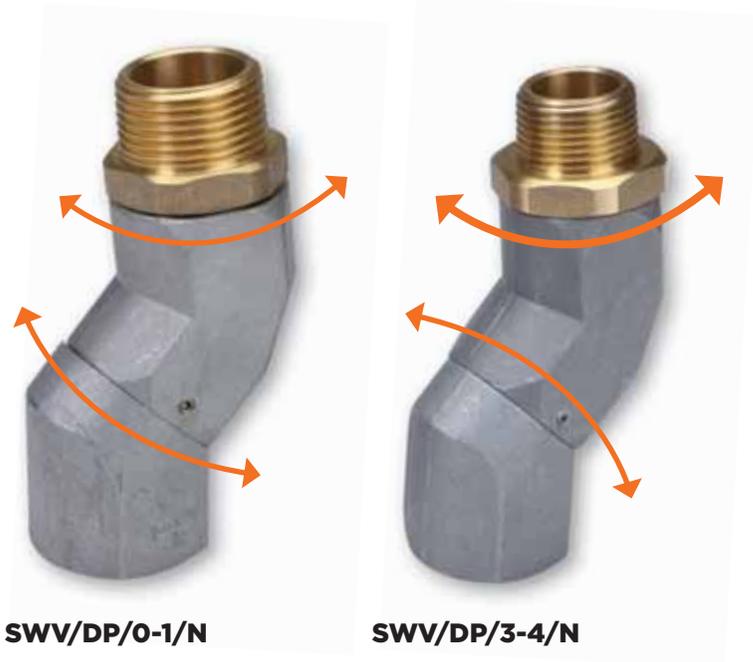
Aluminium die cast construction with male threaded end made from brass

Laminar flow design for higher fuel flow

Compatible with fuels containing alcohol

Dual 'O' ring seal for long service life

WETTED COMPONENTS
Aluminium, Brass, Viton


SWV/DP/0-1/N
SWV/DP/3-4/N
FEATURES

MAX.
PRESSURE

50 PSI
(3.45 BAR)

FLUIDS

DIESEL	PETROL
	
KEROSENE	BIO-DIESEL
	


ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
SWV/DP/3-4/N	3/4" NPT(F) x 3/4" NPT (M)	1
SWV/DP/0-1/N	1" NPT(F) x 1" NPT (M)	1

99

Fuel Dispensing Kits

FDK

Gravity feed fuel dispensing kit comprising of 3m rubber hose fitted with manual fuel control nozzle with swivel

Hose also available as spare
Hose Length: 3.6m complete with end connections



Spare Hose



Fuel Dispensing Kit

CAT NR.	HOSE INNER DIAMETER	HOSE LENGTH	THREADS	SUITABLE FOR PUMP	BOX QTY.
FUEL DISPENSING KIT					
FDK/3/3-4/N	3/4"	3 m	3/4" NPT (M)	FPM-12	1
FDK/3/0-1/N	1"	3 m	1" NPT (M)	FPM/12/HF	1
SPARE HOSE					
ZSA/HOS/FPM/12	3/4"	12'	3/4" NPT (M)	FPM-12	1
ZSA/HOS/FPM/12/HF	1"	12'	1" NPT (M)	FPM/12/HF	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

100

Fuel Vent Cap

FVC

For use with fuel tanks with 2" opening

Pressure fill/release device designed to minimize vapour loss

Vent Cap relieves excess pressure build-up in the fuel tank thereby allowing fuel pump to operate properly without any loss in flow rate

Pressure part of the cap opens at 2-1/2 PSI and venting part opens at 1-1/2 ounces while pump is in operation

NEW!



FVC/2



FVC/2B

ORDERING INFORMATION

CAT NR.	DESCRIPTION	THREADS	BOX QTY.
FVC/2	Fuel Vent Cap	-	1
FVC/2B	Fuel Vent Cap with 2" Base	2" (M)	1

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

101

Filter Wrench

FW-FFL

Easy to use wrench for removing filter bowl when changing filter element

Weather resistant reinforced nylon construction ensures no damage to filter bowl

Specially designed to fit GROZ FFL-02 fuel filter bowl

Wire through hole provided for attaching to fuel tank



Fits fuel filter bowl for easy removal without cracking!



Wire through hole

ORDERING INFORMATION

CAT NR.	BOX QTY.
FW/FFL-02	10

102

Portable Fuel Filter

FUF-13

Filter designed to separate water & debris from various fuel types

NEW!

FEATURES

FLOW RATE

UPTO
13 LPM

FLUIDS

DIESEL



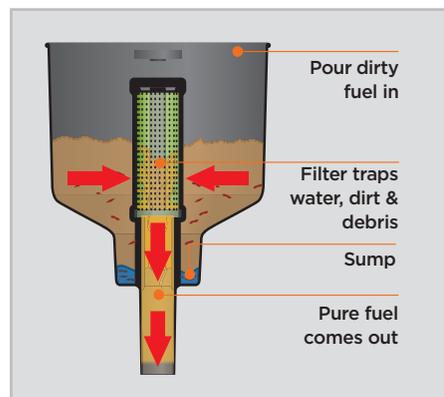
GASOLINE



KEROSENE



WORKING MECHANISM



ORDERING INFORMATION

CAT NR.	BOX QTY.
FUF/13	1

103 High Flow 10 Micron Fuel Filter FFL-01

Isoplast see-through bowl with aluminium head and 10 micron filter element

Suitable for use with manual or electric fuel pumps

Filters small particles of rust, scale, grit, dirt and sand

Replacement filter element available as spare

Suitable for use with different fuels in Agricultural & Industrial applications

Water block filter element used to separate water from fuel.

RECOMMENDED USE
Diesel & Petrol, Fuel Oil, Ethyl and Isopropyl Alcohol

DO NOT USE
Gasohol, Aviation Fuels, Race Fuels, water based products

WETTED COMPONENTS
Aluminium, Isoplast, NBR, Steel, Paper element, Nylons

FEATURES

MAX. PRESSURE
150 PSI (10 BAR)

FLUIDS

DIESEL	KEROSENE	PETROL
		

ORDERING INFORMATION

CAT NR.	THREADS	BOX QTY.
FFL-01/B	Fuel Filter. Threaded 1" BSP (F)	10
REPLACEMENT FILTER ELEMENT		
FF/FFL/10	Fuel Filter Element - 10µ	10
FF/FFL/10-WB	Water Block Fuel Filter Element - 10µ	10



FFL-01/B



FF/FFL/10
Replacement Filter Element

- INDUSTRIAL EQUIPMENT
- LUBRICANTS & PENETRANTS
- FLUID HANDLING EQUIPMENT
- PRECISION ENGINEERING EQUIPMENT
- PROFESSIONAL HAND TOOLS
- LED WORK LIGHTS

High Flow Fuel Filter, complete with 10 micron spin-on style filter cartridge

Aluminum Die Cast Head, vacuum impregnated for leak proof operation

Inlet & Outlet threaded 1" BSP(F)

Fits spin on cartridges with 1-1/2"-16 UNF threads

Designed for use on both mobile & stationary fuel tanks and on petrol & diesel fuel pumps

Ideal for use in construction & agricultural applications

Removes particulate contaminants such as dirt, dust & rust

Replacement Spin-On Filter cartridges available as spare

RECOMMENDED USE

Petrol, Diesel

DO NOT USE WITH

Water Based Products, Aviation, Fuels, Race Fuels etc.

FEATURES

MAX. WORKING
PRESSURE

50 PSI
(3.45 BAR)

FLUIDS

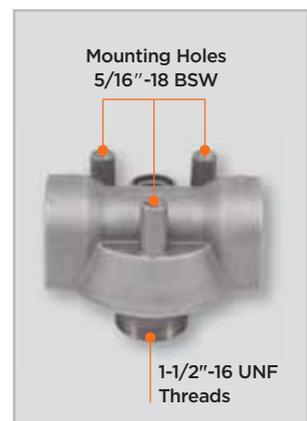
DIESEL

PETROL



FFS/10/BSP

FF/FFS/10



ORDERING INFORMATION

CAT NR.	FILTER ELEMENT	INLET / OUTLET	BOX QTY.
FFS/10/BSP	10µ filter	1" BSP (F)	10
FFS/10WB/BSP	10µ water block filter	1" BSP (F)	10
REPLACEMENT CARTRIDGE			
FF/FFS/10	10µ filter		10
FF/FFS/10-WB	10µ water block filter		10

105 Nylon Chemical Pump **CMP-12**

Self priming Vertical Lift pump designed for use with lacquers, thinners, urea etc.

Nylon construction with stainless steel plunger rod & PTFE seals

Suitable for use on 50-210 litre drums

Complete with 2" polypropylene bung adaptor

WETTED COMPONENTS

Nylon, Polypropylene, Stainless Steel & PTFE

RECOMMENDED USE

Lacquer, Thinners, Detergents, Glycerine, Water, Weed Killer, Brake Kleen, Mild Acids & Petroleum Based Media

DO NOT USE WITH

Strong Acids, Bleach & Petrol

ORDERING INFORMATION

CAT NR.	BOX QTY.
CMP/12	10



FEATURES

DELIVERS
UPTO 400ML / STROKE

INDUSTRIAL EQUIPMENT
LUBRICANTS & PENETRANTS
FLUID HANDLING EQUIPMENT

106 Plastic Rotary Pump **PRP-01**

Special application pump designed to be used with a wide variety of media that cannot be pumped using a regular cast iron or steel pump

Body made from glass filled polypropylene with ryton vanes

Viton rubber seal & stainless steel hardware

Complete with 3 pc threaded suction tube suitable for use on 50-210 litre drums

WETTED COMPONENTS

Polypropylene, Ryton, Viton & Stainless Steel

RECOMMENDED USE

Water based media, acids, chemicals, detergents, benzene, glycerine etc.

DO NOT USE WITH

Acetone, Lacquer, Mineral Oils, Solvents, Turpentine etc.

ORDERING INFORMATION

CAT NR.	BOX QTY.
PRP/01	6



FEATURES

DELIVERS
UPTO 250 ML / ROTATION

PRECISION ENGINEERING EQUIPMENT
PROFESSIONAL HAND TOOLS
LED WORK LIGHTS

107
**Plastic
Lever Pump**
PLP

Lever action barrel pump designed for use with high viscosity oils, thick fluids, agricultural chemicals etc.

Easy & comfortable operation

Built in 2" bung adaptor allows pump to be fixed directly on drums with 2" opening

Pump position can be adjusted using the lock nut incorporated in the pump body.

Air vent cap fitted in the outlet helps break siphon action

Complete with suction tube for use on 50 - 210 litre drums & 3/4" x 2m flexible corrugated hose

WETTED COMPONENTS

Polyacetal, Polypropylene, Polyethylene, PVC & Viton

RECOMMENDED USE

Water Based Media, Detergents, Soaps, Windshield Washer, Lubricants, Agricultural Chemicals, Herbicides & Pesticides

DO NOT USE WITH

Any media that is not compatible with the materials used in the pump construction

WARNING

These pumps must never be used for fuel transfer or with thinners, solvents, hydraulic oils etc.

FEATURES
DELIVERS
**UPTO
500 ML /
STROKE**
ORDERING INFORMATION

CAT NR.	BOX QTY.
PLP/02	1

Anti Siphon Vent Cap

Operating Lever

Built-in Lock Nut to mount pump in any position

2" Bung Adaptor

Suction Tube

Flexible corrugated PVC hose - 3/4" ID x 2m


FLUIDS

OIL	WATER	WINDSHIELD FLUID
		
PESICIDES & HERBICIDES	UREA	
		

108 Diaphragm / Bilge Pump

DPP-20

Hand operated diaphragm pump designed to work in any position - vertical, horizontal or even upside down

Pump can be mounted anywhere - on a wall, wooden base or on a drum

Pump handle can be fitted in line or at 90° to the inlet & outlet ports which makes installation very easy

Made from Acetal, PU, Stainless Steel & PVC, the pump is virtually maintenance free

Comes complete with

- a. Pump Body
- b. Drum Attachment
- c. Suction Hose 3/4" ID x 1.25m
- d. Discharge Hose 1" ID x 2.0m
- e. Hose for Drum Attachment
- f. Delivery Nozzle
- g. Stainless Steel Strainer
- h. Screws
- i. Hose clamps



WETTED COMPONENTS

Polyacetal, Thermoplastic Polyurethane, Stainless Steel & PVC

RECOMMENDED USE

Water, Sea Water, Diesel, Bio Diesel, Kerosene, Petrol, Mineral Oils, Heating Oils, Synthetic Oils, Engine Oils, emulsions & liquids with small bodies in suspension

DO NOT USE WITH

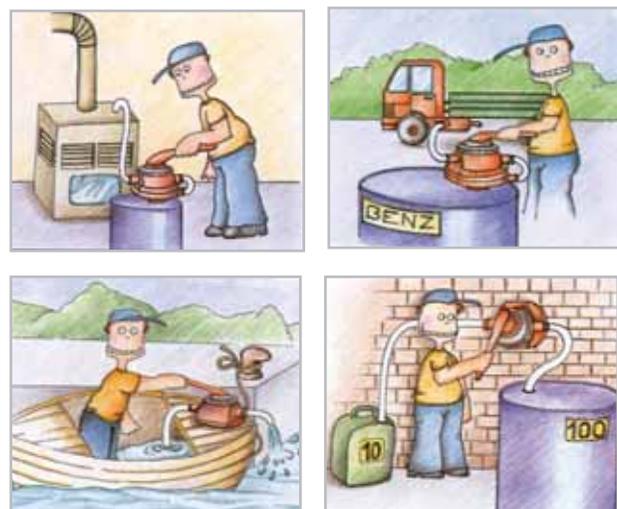
Urea, Food grade media or any media not compatible with the pump components

FEATURES

DELIVERS	WORKING TEMPERATURE RANGE
UPTO 16.6 LPM	-10°C TO 40°C

ORDERING INFORMATION

CAT NR.	BOX QTY.
DPP/20	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Polyethylene pumps siphon liquids to lower levels than the height at which the pump is installed

These are easy to prime & start within 6-7 strokes. Pump requires no further operation & keeps working in auto position

All pumps are equipped with a vent cap on top. Opening the cap stops discharge

To dispense media at levels higher than the pump, the pump needs to be continuously operated

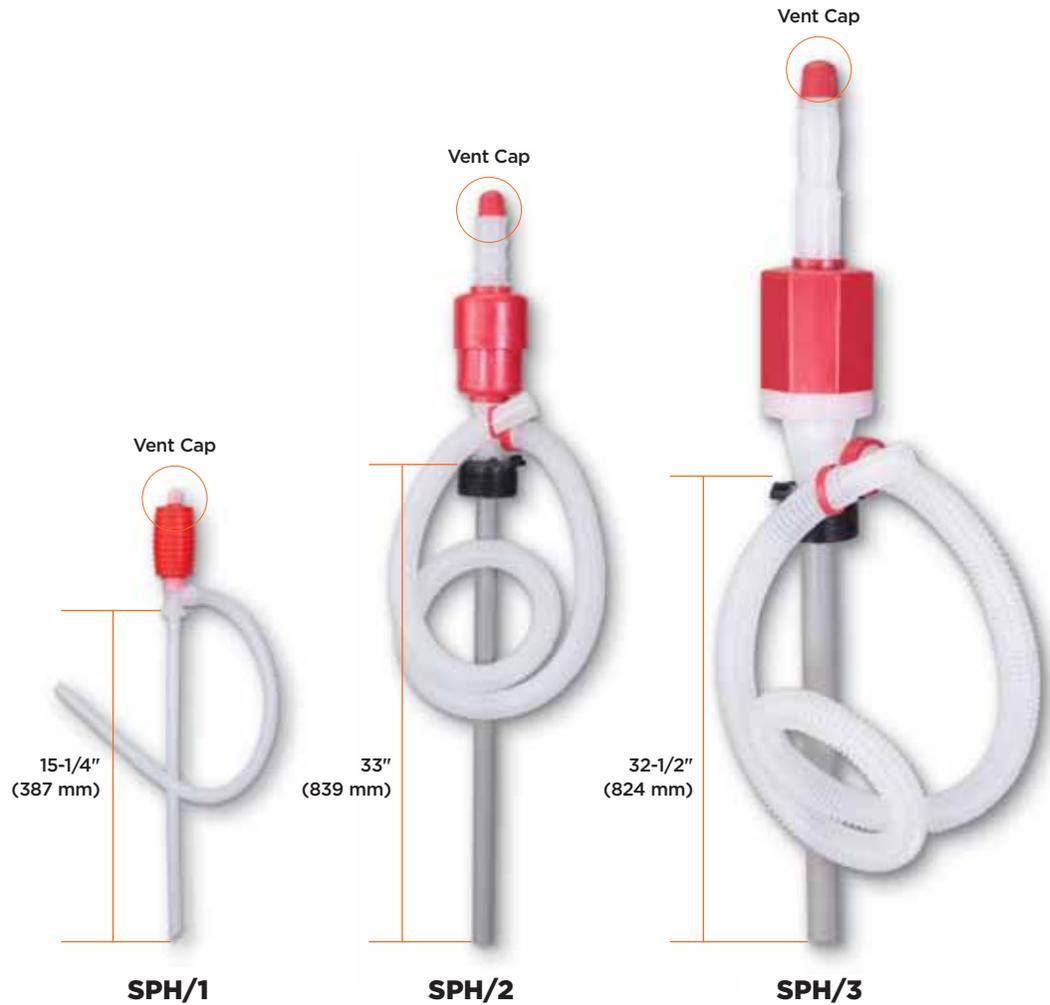
Supplied complete with flexible corrugated discharge tube

RECOMMENDED USE

Water-based fluids, Detergents, Waxes, Soaps, some mild acids, and other liquids compatible with pump construction materials. Pump should only be used with light weight & non-flammable liquids

DO NOT USE WITH

Any media that is not compatible with materials used in the pump construction



WARNING

Pumps must never be used with hot media at temperatures above 60°C

These pumps must never be used with concentrated acids, Acetone, Benzene etc.

ORDERING INFORMATION

CAT NR.	DISCHARGE	BUNG	FITS	WETTED COMPONENTS	BOX QTY.
	UPTO (LPM)				
SPH/1	6.5	1-1/2" for use with pails	5-20 litre pails	Polyethylene	25
SPH/2	17.5	2" for use with drums	210 litre drums	Polyethylene & Polypropylene	25
SPH/3	21	2" for use with drums	210 litre drums	Polyethylene & PVC	25

110 Drum Faucet / Tap

FAU

Polyethylene construction

Suitable for 3/4" & 2" threaded openings on 210 litre drums

Facilitates convenient dispensing of media under gravity flow with the drum laid horizontally

2" faucet comes with a sight glass port for mounting of sight glass to check fluid level



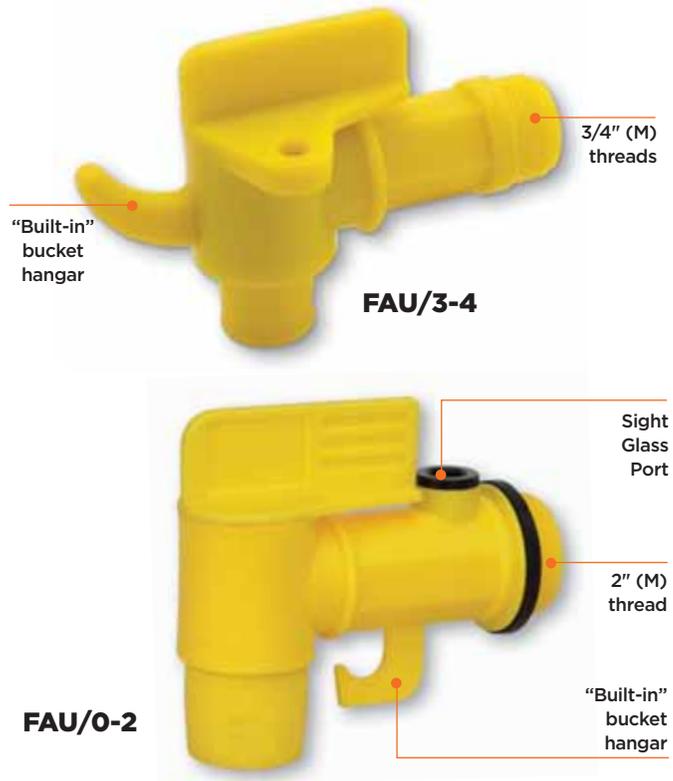
Can be pad locked



Sight Glass (not included) shows level of oil left in the drum

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
FAU/0-2	For 2" openings	10
FAU/3-4	For 3/4" openings	25
LI/FAU	Sight Glass for Drum Faucet 2"	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

111 Drum Cradle

DRC-135

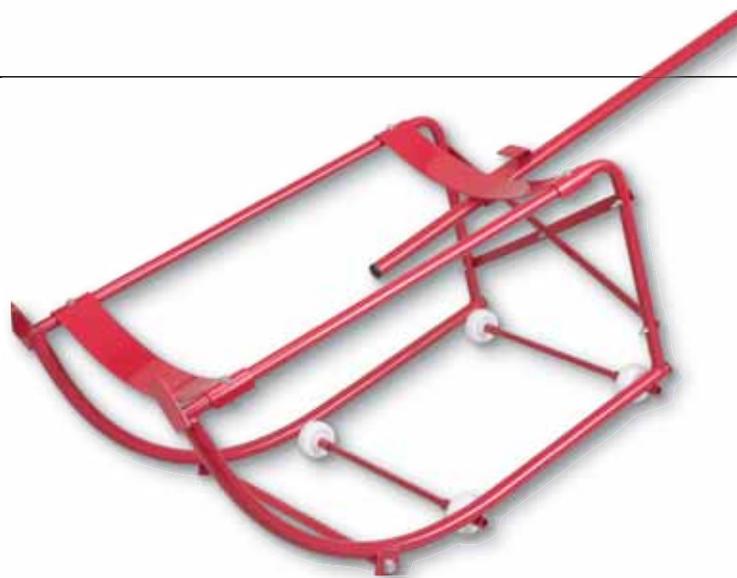
Tips, rotates, moves & stores 180 kg / 210 litre drums

Equipped with self storing lever bar

Large - 2 -1/2" (63 mm) non sparking wheels make it suitable for use in flammable environments

Loading Capacity:
273 kgs (max)

Fully powder coated finish
Comes in semi- knocked down condition for ease of transport



ORDERING INFORMATION

CAT NR.	BOX QTY.
DRC/135	3

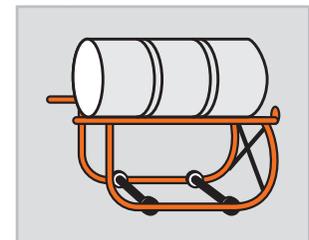
Just Tip



Tilt



Store / Drain



PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

112
**Drum
Wrench**
DRW

An easy & convenient tool to open almost all types of drums

Ends of the wrench are designed to fit perfectly onto most 2" & 3/4" drum plugs

Wrench is manufactured from cast aluminum (LM25), hardened & tempered for increased strength

Compact design for easy storage


ORDERING INFORMATION

CAT NR.	BOX QTY.
DRW/AL-01	10

113
**Drum
Trolleys**

Rugged build with outstanding features make this trolley ideal for use in workshops & industrial floors for transfer of large 210 litre drums & buckets

Manufactured from heavy gauge 4 mm thick steel sheet for increased strength & durability

3" (75 mm) ground clearance for smooth movement over uneven surfaces in workshop environment

6" (150 mm) wide polyurethane front wheels with nylon rim for reduced wear & tear

Heavy duty rear castors with toe locks for higher safety & stability

Trolley for 50-210 litre drums. Can be used just as a trolley for safe movement of oil drums or a complete dispensing system with hose reel & pneumatic pump


TRL/50
ORDERING INFORMATION

CAT NR.	SUITABLE FOR	BOX QTY.
TRL/50	50-60 kg drums / 16 gal. / 120 lb	1
TRL/180D	180 Kg / 205 litre drums / Trolley comes complete with safety chain for secure holding of drum	1

TRL-180D

TRL-50

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

Drum clamping attachment



Removable handle used for moving the trolley



Control Gun Holder

Removable handle used as a drum loader



Clamps for holding pump when not in use

Removable handle used as a drum wrench



Plate for mounting a hose reel

Cup for secure holding of pump inlet & collecting dripping oil

TRL/180D

Heavy Duty 4 mm thick steel sheet

6" (150 mm) polyurethane wheels with nylon rim

Trolley being used as a dispensing system with Ratio Pump & Hose Reel installed



Lock position



Unlock position



Heavy Duty castors with toe lock

114
Drum Dolly
BDL-140

Extra heavy duty drum dolly for convenient movement of 180 kg/ 210 litre drums in shop floors & rough workshop environment

Manufactured from solid 3 mm (11 gauge) steel sheet

Design incorporates wide steel cross bases for full base support

Premium powder coated finish

Firmly welded solid cast iron 4 wheels (75 mm dia. x 35 mm wide)

Holds drums of dia. 23" (584 mm)

Overall Height:
6-1/2" (165 mm)

Loading Capacity:
545 kg (max)


ORDERING INFORMATION

CAT NR.	BOX QTY.
BDL/140S	2

115
Low Profile Drum Trolley
TRL-55

Low Profile Drum Trolley with drum platform only 1/2" (12 mm) off the floor, facilitating easy loading & unloading

Designed to conveniently move 210 litre/ 180 Kg drums of all types

Trolley can accommodate drums up to a dia. of 26" (660 mm)

Extra heavy duty construction, fabricated from 5 mm (6 gauge) steel sheet

Loading Capacity:
545 kgs (max)

Removable pivoting handle includes drum tipper for easy loading

- Includes
- 2 large Phenolic front wheels 5-3/4" dia. (146 mm) x 1-7/8" (47 mm) wide
 - 1 back phenolic swivel wheel 3" (75 mm) dia. x 1-3/8" (35 mm) wide

Fully powder coated finish

Unit comes flat packed in semi knocked down condition for ease of transport


ORDERING INFORMATION

CAT NR.	BOX QTY.
TRL/55	1

116

Air Blow Guns

ABG-30
ABG-3
ABG-1

Superior quality air blow guns designed for rugged day-in & day out usage

Equipped with a variable speed trigger, guns allow complete control on the volume of air dispensed

Threaded brass insert at the air inlet ensures no damage to threads even after repeated use

Conforms to OSHA STD 1-13.1 for safety

Available in two models:

- a. Air Blow Gun – Professional:**
- Impact & drop resistant nylon body
 - Corrosion resistant stainless steel nozzle & internal parts
 - Ergonomic soft rubber grip on handle for convenience in usage.
 - Maximum blowing force with minimal air consumption reduces energy cost, thus saving money

FEATURES

OPERATING PRESSURE	WORKING TEMPERATURE RANGE
50–235 PSI (3.5–16 BAR)	–10°C to 70°C

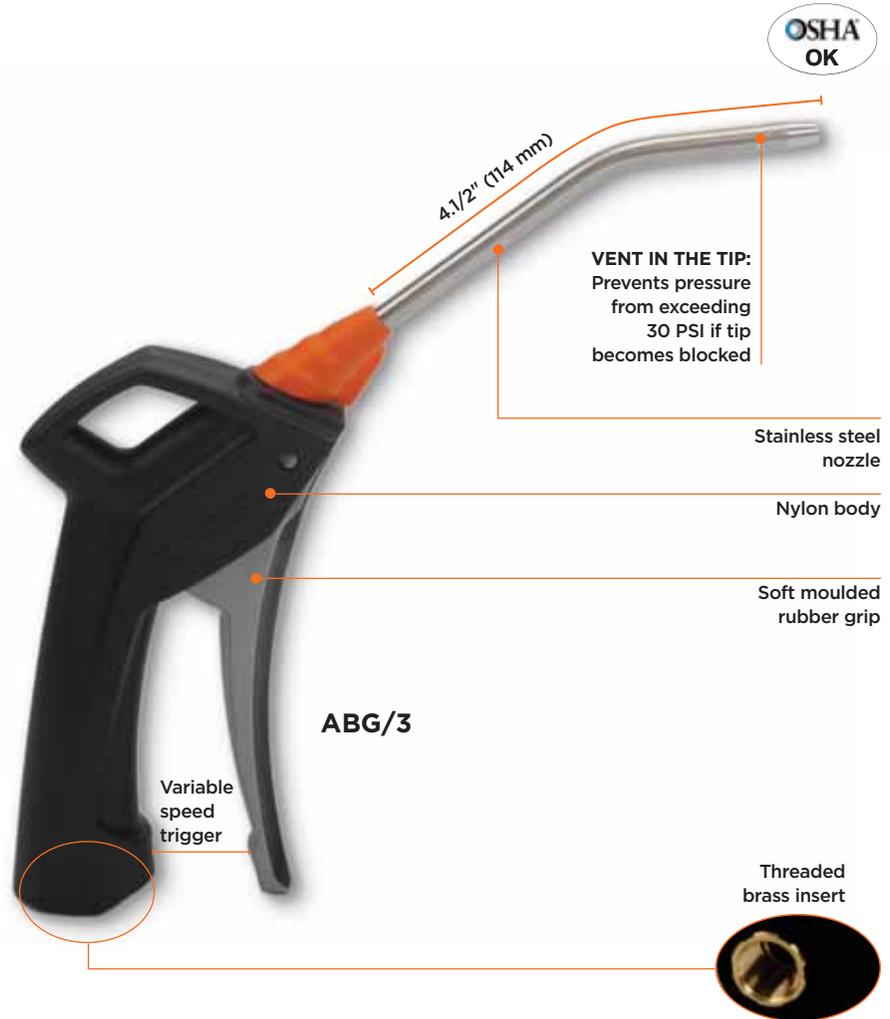
- b. Air Blow Gun – Standard:**
- Gun body made from Poly Acetal (POM)
 - Non – corroding 4-1/2" (114mm) long nozzle to access hard to reach areas

FEATURES

OPERATING PRESSURE	WORKING TEMPERATURE RANGE
50–150 PSI (3.5–10 BAR)	–10°C to 70°C

ORDERING INFORMATION

CAT NR.	TIP	NOISE	BLOWING FORCE AT 100 PSI	AIR CONSUMPTION AT 100 PSI	BOX QTY.
		(db)	(kg)	(cfm)	
AIR BLOW GUN - PROFESSIONAL					
ABG/1/1-4F/BSP	Plastic	77	0.26	9.53	10
ABG/3/1-4F/BSP	4-1/2" SS nozzle	80	0.35	15.18	10
AIR BLOW GUN - STANDARD					
ABG/30/1-4F/BSP	4-1/2" nozzle	80	0.47	19.06	60



ABG/1
With plastic tip



ABG/30
With 4-1/2" (114 mm) nozzle



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Lever Air Blow Guns - Pro Series are designed with a unique & revolutionary venturi mechanism that combines free ambient air with costly compressed air creating a higher volume of usable output

Die Cast Aluminium Construction makes these usable even in the harshest working environments

Ergonomic Design of the body & large dip coated operating lever reduces user fatigue & discomfort, even during extended use

Manufactured using non corroding materials, these are threaded 1/4" (F) at inlet & 1/8" (F) at Outlet

Amount of air output can be controlled by controlling the Operating Lever

Confirms to OSHA Standards For Safety & Noise: Designed to reduce compressed air pressure to less than 30 PSI (2 Bar) when outlet is blocked. Venturi side ports provide safety relief when blow gun outlet is blocked


LAG-A

LAG-C

LAG-PS

LAG-T3
ORDERING INFORMATION

CAT NR.	TYPE	DESCRIPTION	BOX QTY.
LAG/A/1-4/BSP	A	1/2" Rubber tip	25
LAG/C/1-4/BSP	C	Standard Safety Tip	25
LAG/PS/1-4/BSP	PS	Nozzle with 4" Protective Shield	10
LAG/T3/1-4/BSP	T3	Extended Reach Aluminum Tube 9" Long	10

118

Polyurethane Coil Hose

PUH

Polyurethane Coil / Spiral Air Hoses offer highest flexibility with least resistance to pull recoils

These have excellent memory & automatically recoil

Hoses are kink resistant & lightweight (approx. 25% lighter than rubber)

As opposed to nylon hoses, PU hoses offer much better elasticity

Constructed with one end coiled & other end with 19" (483 mm) straight length

Both ends are fitted with polyacetal bend restrictors & crimped with solid brass swivel fittings on both sides offering highest directional flexibility

Ideal for use on assembly lines with air tools, automotive repair & body shops etc.

Solid brass swivel fittings on both ends offer complete 360° directional flexibility



SPECIFICATION

MAXIMUM WORKING PRESSURE	145 PSI (10 BAR)
MINIMUM BURST PRESSURE (AT 24°C)	508 PSI (35 BAR)
MATERIAL	PUR - Ester
WORKING TEMPERATURE RANGE	-5°C to 60°C
HOSE HARDNESS	98 Shore 'A'
BEND RESTRICTORS	Polyacetal
FITTINGS	Brass Swivel Fittings on Both ends
RECOMMENDED WORKING LENGTH	Max. 80% of Total Length

ORDERING INFORMATION

CAT NR.	THREADS	HOSE INNER DIA.		HOSE OUTER DIA.		OVERALL LENGTH	BOX QTY.
		(mm)	(inch)	(mm)	(inch)		
PUH/5BO/15/1-4/BSP	1/4" BSP	5	3/16	8	5/16	4.5	10
PUH/5BO/20/1-4/BSP	1/4" BSP	5	3/16	8	5/16	6	10
PUH/5BO/25/1-4/BSP	1/4" BSP	5	3/16	8	5/16	7.5	10
PUH/6BO/15/1-4/BSP	1/4" BSP	6.50	1/4	10	3/8	4.5	10
PUH/6BO/20/1-4/BSP	1/4" BSP	6.50	1/4	10	3/8	6	10
PUH/6BO/25/1-4/BSP	1/4" BSP	6.50	1/4	10	3/8	7.5	10
PUH/10BO/15/3-8/BSP	3/8" BSP	9.5	3/8	12.7	1/2	4.5	10
PUH/10BO/20/3-8/BSP	3/8" BSP	9.5	3/8	12.7	1/2	6	10
PUH/10BO/25/3-8/BSP	3/8" BSP	9.5	3/8	12.7	1/2	7.5	10

 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

119

Digital Pressure Gauges

DPG

Used with air regulators for setting air output pressure

Digital read out displays air pressure in a choice of 4 units: PSI, BAR, MPa & kg/cm²

Digital gauges offer higher accuracy and can also withstand vibrations due to pressure variations

Square body has die cast aluminum centre back

Single button operated with auto turn off after 120 seconds that extends battery life

SPECIFICATION

Accuracy	± 2% of Full Scale
Measuring Range	- 15 to 145 PSI
Least Count	0.1 PSI (0.01 BAR)
Working Temperature	- 10°C to +60°C
Working Humidity	35 - 85% RH
Battery	CR 2032 lithium (included)
Battery Life (approx.)	1 year (usage 5 times a day)

CAT. NR.	THREADS	BOX QTY.
DPG/L/1-8/B	1/8" BSPT(M)	10
DPG/L/1-4/B	1/4" BSPT (M)	10



FEATURES

MAX WORKING PRESSURE	OPERATING TEMPERATURE	WATER PROOF RATING
217 PSI (15 BAR)	-10°C TO 60°C	IP65

120

Air Line Accessories

Air Line Hose

8 mm O.D.

Working Pressure: 10 BAR



ORDERING INFORMATION

CAT NR.	HOSE LENGTH	BOX QTY.
AH/1.5/1-4/BU	1.5m	10
AH/5/1-4/BU	5m	10

One Touch Air Line Fitting

Converts 1/4" threaded air inlet on GROZ pumps into quick connect fittings for connecting air line to the pump

Threaded 1/4" BSPT (M)

For use with air line hose with 8 mm O.D.



ORDERING INFORMATION

CAT NR.	BOX QTY.
WP2110851	20

121

Filter Regulator Combination

FRC

Compact combination unit for removing contaminants & moisture from compressed air in addition to regulating air pressure

Regulator has a non raising "Press to Lock" adjusting knob for locking at any set pressure

Filter is designed with a separator & shield for efficient moisture separation

Supplied complete with pressure gauge & wall mounting bracket

SPECIFICATIONS

PRESSURE ADJUSTMENT RANGE	7 - 145 PSI (0.5 to 10 BAR)
FILTERING ELEMENT	Sintered Bronze (40 micron)
DRAIN TYPE	Semi Automatic

FEATURES

**MAX.
PRESSURE**
**145 PSI
(10 BAR)**

 Mounting
Bracket

 Inlet
Port

 Bowl
guard

 Semi
automatic
drain


ORDERING INFORMATION

CAT NR.	DESCRIPTION	INLET/ OUTLET PORT SIZE	PRESSURE GAUGE PORT SIZE	MAX. FLOW RATE	BOX QTY.
FRC136134-S/GB	Miniature	1/4" BSP	1/8" BSP	550 LPM (20 CFM)	1
FRC156334-S/GB	Standard	1/2" BSP	1/8" BSP	3,000 LPM (106 CFM)	1

122

Filter Regulator & Lubricator - 2 Pc

FRCLM

Space saving 2 pc modular filter-regulator combination & lubricator

Filter removes contaminants & moisture from compressed air

Regulator has a non raising "Press to Lock" adjusting knob for locking at any set pressure

Lubricator feeds lubricants to air operated equipment maintaining a constant oil-to-air density over a wide range of flow

Supplied complete with pressure gauge & wall mounting bracket

SPECIFICATIONS

PRESSURE ADJUSTMENT RANGE	7 to 145 PSI (0.5 to 10 BAR)
FILTERING ELEMENT	Sintered Bronze (40 micron)
DRAIN TYPE	Semi Automatic

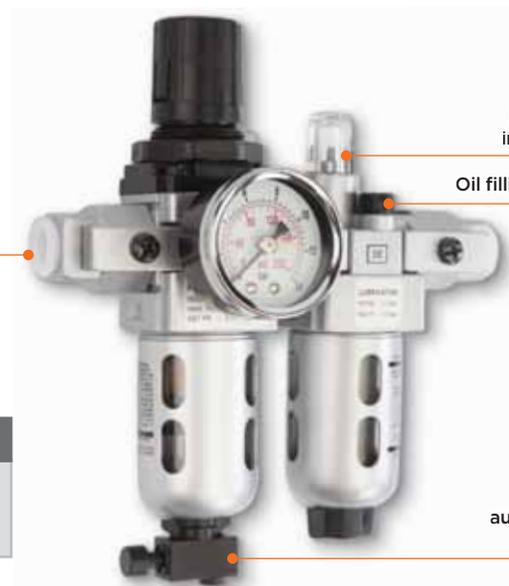
FEATURES

**MAX.
PRESSURE**
**145 PSI
(10 BAR)**

 Inlet
Port

 Oil drop
indicator

 Oil filling
plug

 Semi
automatic
drain


ORDERING INFORMATION

CAT NR.	DESCRIPTION	INLET/ OUTLET PORT SIZE	PRESSURE GAUGE PORT SIZE	MAX. FLOW RATE	BOX QTY.
FRCLM136134-S/G	Miniature	1/4" BSP	1/8" BSP	500 LPM (18 CFM)	1
FRCLM156334-S/G	Standard	1/2" BSP	1/8" BSP	2,800 LPM (99 CFM)	1

 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

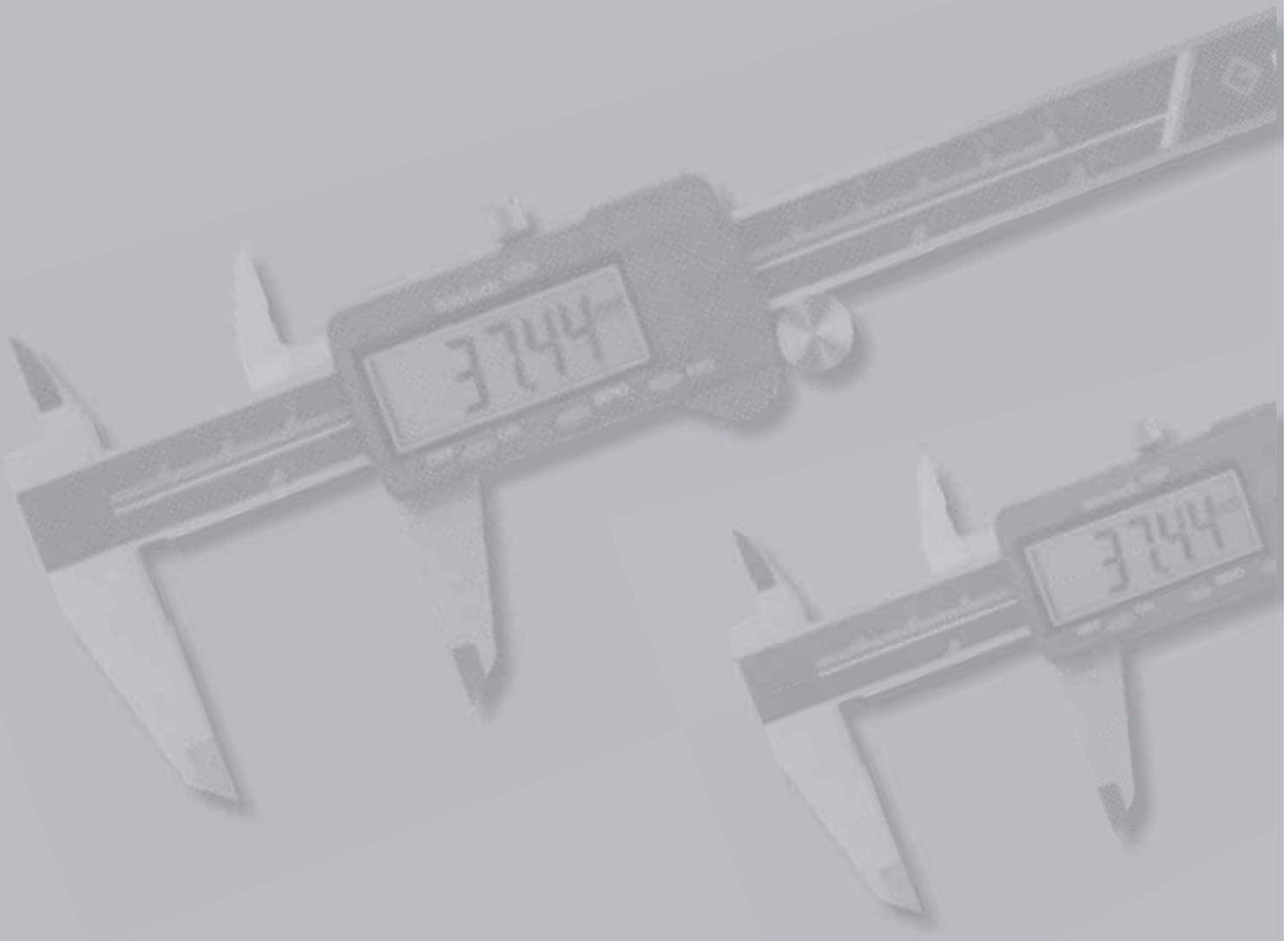
 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

4

PRECISION ENGINEERING EQUIPMENT

Tools that guarantee nothing but
precision every time you measure!



123

Digital Calipers

EDC

Metal Digital Calipers with dual mode measurement system - inches & mm

Rugged, stainless steel caliper body with zinc die cast display chamber

Large high contrast LCD digital readout

Delivers accurate readings of inside, outside, depth & step measurements

Freewheeling thumb roller mechanism for smooth movement along the linear scale

Convenient to use locking screw to set calipers at any desired position

Measurement can be zero set at any position along the scale for incremental measurements

Extendable depth gauge for use in slots & small holes

In-built data output interface to transfer data to PC/Laptop etc.

Data cable not included

Version with IP67 level compliance also available


EDC/6
EDC/6/67

Includes 3V lithium battery

IP67 Compliant :

- a. Ingress of dust will not adversely affect the caliper
- b. Water splash will not adversely affect the caliper

Reading in mm

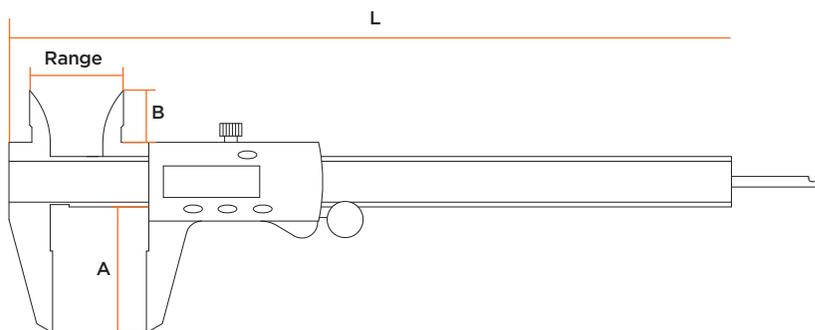


Reading in inch



FEATURES

RESOLUTION	ACCURACY
0.01 mm / 0.0005"	± 0.02 mm / ± 0.001"



ORDERING INFORMATION

CAT NR.	RANGE		ACCURACY		A		B		L		BOX QTY.
	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
EDC/6	0 - 150	0 - 6	± 0.02	± 0.001	39.50	1.60	16.00	0.60	236.00	9.30	1
EDC/8	0 - 200	0 - 8	± 0.02	± 0.001	50.00	2.00	19.50	0.76	286.00	11.25	1
EDC/12	0 - 300	0 - 12	± 0.02	± 0.001	59.25	2.33	21.00	21.00	400.00	16.4	1
IP67 COMPLIANT											
EDC/6/67	0 - 150	0 - 6	± 0.02	± 0.001	39.50	1.60	15.00	0.59	236.00	9.30	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Most popular caliper design manufactured to exacting tolerances

Useful for inside and outside measurements, depth & step measurements

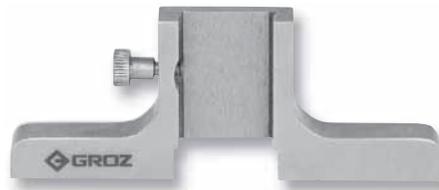
Hardened stainless steel construction in satin chrome finish

Vernier scale etched with permanent black graduations allows precise & convenient reading

Free wheeling thumb roller mechanism for smooth movement along the linear scale

Convenient to use locking screw to set calipers at any desired position - a feature very useful in application requiring repetitive measurements

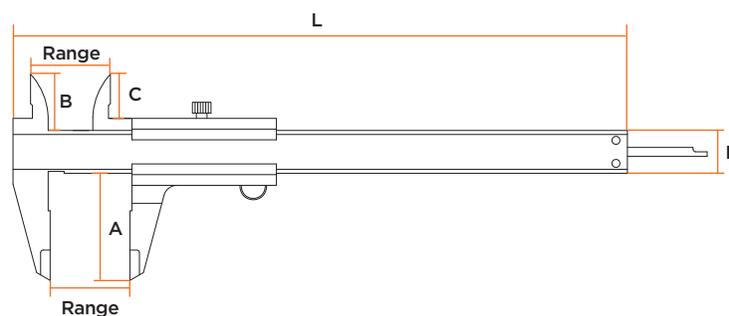
Extendible depth gauge for use in slots & small holes


VNC/8

DBA/3
Depth Base Attachment


Slide-on attachment connects to the depth end of the caliper providing a base for spanning holes
Suitable for use with manual, dial & digital calipers - 150mm (6") & 200 mm (8")

FEATURES
RESOLUTION

0.02 mm
(0.001")


ORDERING INFORMATION

CAT. NR.	RANGE		ACCURACY	L	A	B	C	D	BOX QTY.
	(mm)	(Inch)							
VNC/6	0 - 150	0 - 6	± 0.02	229.00	40.00	20.00	15.00	16.00	5
VNC/8	0 - 200	0 - 8	± 0.03	292.00	50.00	24.00	20.00	16.00	5
VNC/12	0 - 300	0 - 12	± 0.04	405.00	61.50	26.00	20.00	20.00	5
DBA/3	Depth Base Attachment								5

125

Dial Calipers

DLC

Vernier Calipers with a large & clear dial read off

Hardened stainless steel construction in satin chrome finish

Vernier scale etched with permanent black graduations allows precise & convenient reading

Covered rack prevents dirt & chips from entering the 'rack & gear' mechanism ensuring smooth operation

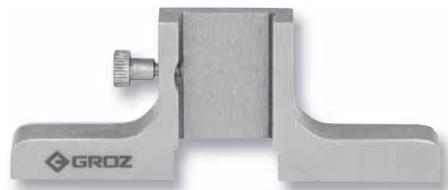
Free wheeling thumb roller mechanism for smooth movement along the linear scale

Convenient to use locking screw to set calipers at desired position; a feature very useful in applications requiring repetitive measurements

Suitable for inside, outside, depth & step measurements
Dial gauge has an adjustable bezel for zero setting

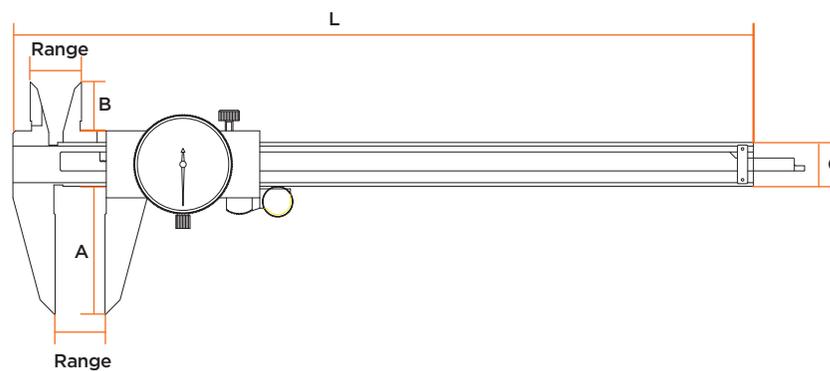

DLC/150

Adjustable Bezel for Zero Setting


DBA/3
Depth Base Attachment


Slide-on attachment connects to the depth end of the caliper providing a base for spanning holes
Suitable for use with manual, dial & digital calipers - 6"(150 mm) & 8"(200 mm)

FEATURES

RESOLUTION
0.02 mm


ORDERING INFORMATION

CAT NR.	RANGE (mm)	RANGE PER REVOLUTION (mm)	ACCURACY (mm)	A (mm)	B (mm)	C (mm)	L (mm)	BOX QTY.
DLC/150	0 - 150	2	± 0.02	39.40	16.00	16.00	236.00	5
DLC/200	0 - 200	2	± 0.03	47.50	19.00	16.00	285.00	5
DLC/300	0 - 300	2	± 0.04	62.00	21.00	20.00	410.00	5
DBA/3	Depth Base Attachment							5

 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

Metal Digital Depth Gauges with **dual mode measurement system - inches & mm**

Large high contrast LCD digital readout

Free wheeling thumb roller mechanism for smooth movement along the linear scale

Integral data output interface to transfer data to PC/ Laptop

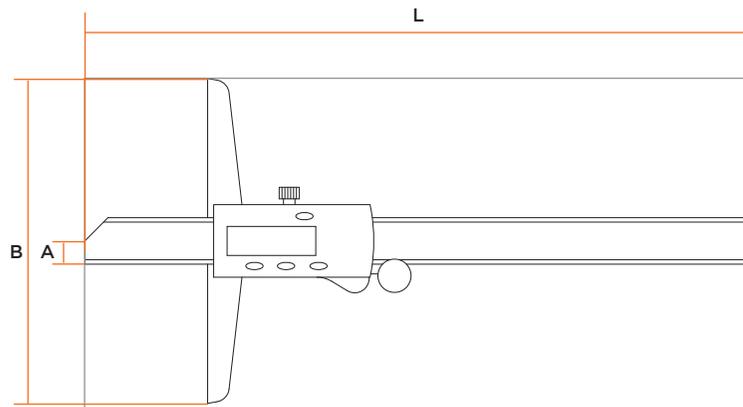
Data Cable not included

Measurement can be zero set at any position along the scale for incremental measurement

Base Width: 4" (100 mm)

Base Thickness: 9/32" (7.0 mm)

Convenient to use locking screw to set caliper at any desired position; a feature very useful in applications requiring repetitive measurements


FEATURES
RESOLUTION

0.01 mm/
0.0005"

ORDERING INFORMATION

CAT NR.	RANGE		ACCURACY		A		B		L		BOX QTY.
	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
DDG/6	150	6	±0.02	±0.001	6.00	0.24	100.00	4	230.00	9.06	1
DDG/8	200	8	±0.03	±0.0015	6.00	0.24	100.00	4	280.00	11.23	1
DDG/12	300	12	±0.04	±0.0015	6.00	0.24	100.00	4	377.00	14.84	1

127

Vernier Depth Gauges

VDG

Manufactured from hardened stainless steel

Designed for measuring depths of holes, slots & recesses and for inspecting jigs, fixtures and die work

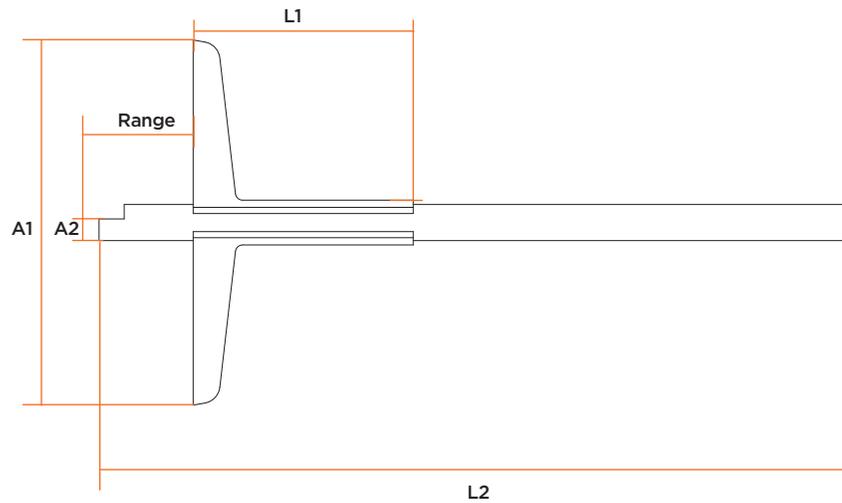
Vernier scale etched with permanent black graduations allows precise and convenient reading

Free wheeling thumb screw for smooth movement along the linear scale

Base Width: 100 mm

Base Thickness: 7.0 mm

Convenient to use locking screw to set calipers at desired position; a feature very useful in applications requiring repetitive measurements



FEATURES

RESOLUTION	ACCURACY
0.05 mm	±0.05 mm

ORDERING INFORMATION

CAT NR.	RANGE		A1 (mm)	A2 (mm)	L1 (mm)	L2 (mm)	BOX QTY.
	(mm)	(inch)					
VDG/6	150	6	100.00	6.00	61.50	225.00	5
VDG/8	200	8	100.00	6.00	61.50	275.00	5
VDG/12	300	12	100.00	6.00	61.50	373.00	5

 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

Superior tool designed to measure, record & display dimensions in inches & mm

Balanced Frame Design: Steel frame prevents flexing ensuring greater accuracy in measurement. Insulation at top and bottom end of the frame safeguards against data distortion due to thermal expansion

Extra large, high contrast LCD digital read out

Non - wearing carbide tipped anvil & measuring faces ensure accurate measurements over a long period of time

Zero setting at any position along the scale

Two Measuring Modes : Absolute & Incremental

Unique Ball Attachment : Each piece comes with a standard ball attachment that converts a regular micrometer into a pipe micrometer, enabling measurement of pipes, tubes, etc.

Supplied with master on all sizes except 0-25mm / 0-1"

Integral data output interface to transfer data to PC / Laptop etc. Data cable not included

Comes complete with SR44 battery

Data cable not included

Available in two variants : IP54 & IP65 level compliance



MMED/1
Friction Thimble

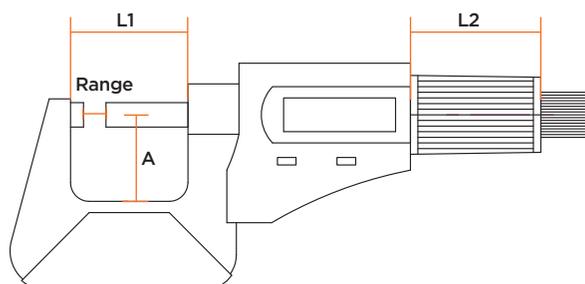
IP54 Compliant :

- Dust in the external environment will not adversely affect the micrometer
- Water splash from any direction will not adversely affect the micrometer

Reading in mm



Reading in inch



FEATURES

RESOLUTION

0.001 mm /
0.00005"

MMED



MMED/1/65
Ratchet Thimble

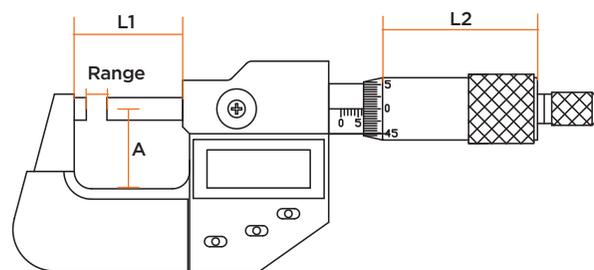
IP65 Compliant :

- a. Ingress of dust will not adversely affect the micrometer
- b. Complete protection against water jet from any direction
Will not adversely affect the micrometer

Reading in mm



Reading in inch



ORDERING INFORMATION

CAT NR.	RANGE		ACCURACY		A		L1		L2		BOX QTY.
	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
IP54 COMPLIANT											
MMED/1	0 - 25	0 - 1	± 0.004	0.00016	22.60	0.89	28.00	1.10	34.00	1.34	1
MMED/2	25 - 50	1 - 2	± 0.004	0.00016	31.75	1.25	53.00	2.09	34.00	1.34	1
IP65 COMPLIANT											
MMED/1/65	0 - 25	0 - 1	± 0.002	0.0001	22.60	0.89	28.00	1.10	48.50	1.91	1

INDUSTRIAL EQUIPMENT
LUBRICANTS & PENETRANTS
FLUID HANDLING EQUIPMENT
PRECISION ENGINEERING EQUIPMENT
PROFESSIONAL HAND TOOLS
LED WORK LIGHTS

Balanced Frame Design :
Steel frame prevents flexing ensuring greater accuracy in measurement. Can be operated efficiently with one hand

Non - wearing carbide tipped anvil & measuring faces ensure accurate measurements over a long period of time

Hardened spindle with precisely cut threads for smooth movement and high accuracy

Satin chrome thimble and barrel with convenient to read deep etched graduations in black

Ratchet stop for exact repetitive measurements

Quick & easy zero adjustment with spanner wrench

Supplied with master on all sizes except 0-25 mm / 0-1"

Available in inch & metric models


MM/1-2
FEATURES
RESOLUTION
**0.01 mm /
0.0001"**

MM/O-150/ST6
ORDERING INFORMATION
METRIC RANGE

CAT NR.	RANGE	ACCURACY	BOX QTY.
	(mm)	(mm)	
MM/0-25	0 - 25	± 0.004	5
MM/25-50	25 - 50	± 0.004	5
MM/50-75	50 - 75	± 0.004	5
MM/75-100	75 - 100	± 0.004	5
MM/100-125	100 - 125	± 0.004	5
MM/125-150	125 - 150	± 0.004	5

SETS

MM/0-100/ST4	Set of 4, Range: 0-25 mm, 25-50 mm, 50-75 mm & 75-100 mm	1
MM/0-150/ST6	Set of 6, Range: 0-25 mm, 25-50 mm, 50-75 mm, 75-100 mm, 100-125 mm & 125-150 mm	1

INCH RANGE

CAT NR.	RANGE	ACCURACY	BOX QTY.
	(inch)	(inch)	
MM/0-1	0 - 1	± 0.0001	1
MM/1-2	1 - 2	± 0.0001	1
MM/2-3	2 - 3	± 0.0001	1
MM/3-4	3 - 4	± 0.0001	1
MM/4-5	4 - 5	± 0.0001	1
MM/5-6	5 - 6	± 0.0001	1

SETS

MM/0-4/ST4	Set of 4, Range: 0-1", 1-2", 2-3" & 3-4"	1
MM/0-6/ST6	Set of 6, Range: 0-1", 1-2", 2-3", 3-4", 4-5" & 5-6"	1

130 Digital Height Gauges

DHG

Single Beam Construction

Versatile solution for most height measurement applications, scribing & marking of workpieces, measuring run-out, center distance etc

Hardened & ground base correctly designed to eliminate vibration

Large easy to read LCD display with a resolution of 0.0005" (0.01 mm)

Vertical bar is accurately positioned & perfectly perpendicular to the base

Hardened & ground carbide tipped scriber for durability

Also included holder for 8 mm stem dial gauge

Fine adjustment provides accurate and precise positioning

Locking handle to hold slide in position

Can set zero at any position along the vertical

Dial gauge not included



ORDERING INFORMATION

CAT NR.	RANGE		BOX QTY.
	(mm)	(Inch)	
DHG/12	0 - 300	0 - 12	1
DHG/18	0 - 460	0 - 18	1

FEATURES

RESOLUTION	ACCURACY
0.01 mm / 0.0005"	±0.04 mm / ±0.0015"

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

An exceptional set which combines several tools, substituting the use of try squares, miter, depth gauge, height gauge, marking gauge, level, plumb & a precision rule

Constructed from Quality Cast Iron & complete with precision rule 12" (300 mm) long

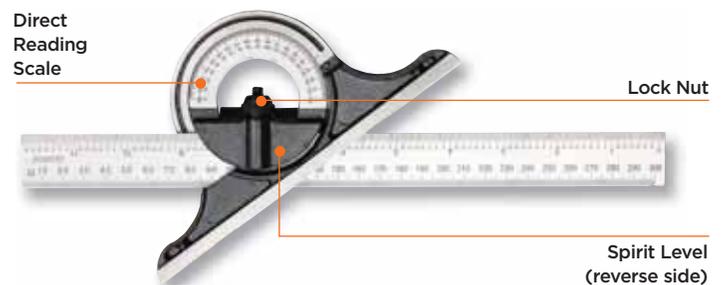
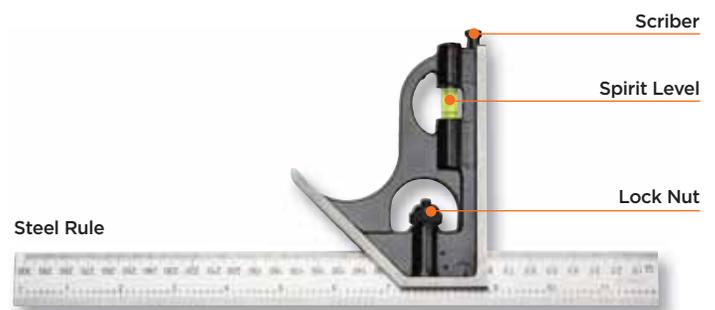
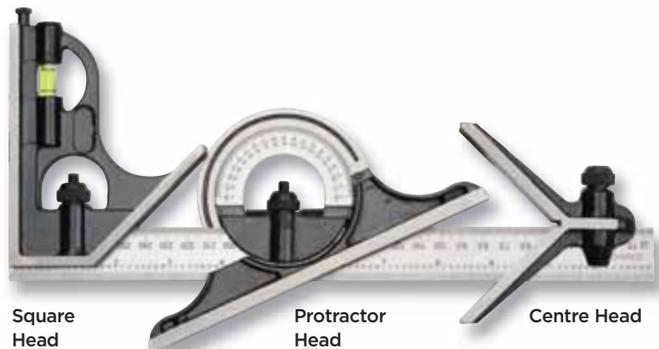
The individuals components of the Square are detailed as below:

Square Head: With a precision ground 90° square face & a 45° miter face. Highly versatile layout tool for scribing right angles & parallel lines. Also used as a measuring tool that can work as a try square, miter, depth gauge, height gauge & a level

Center Head: Used for accurately locating center of a cylindrical or square work piece

Protractor Head: Includes revolving turrets with direct reading double graduations from 0 to 180° in opposite directions. This permits accurate & quick direct reading of angles above or below the blade

Steel Rule: Precision Steel Rule with shoulder on one side. Rule is 300 mm long x 25 mm wide x 2 mm thick. Graduated with 0.50 mm & 32nds on one side & 1.0 mm & 64ths on the reverse side


ORDERING INFORMATION

CAT NR.	RANGE	BOX QTY.
CSQ/12/4/ST	4 pc Combination Square. Includes 12" (300 mm) Rule, Center Head, Protractor Head & Square Head	1
RL/CSQ/12	12" (300 mm) Steel Rule graduated in 0.50 mm & 32nds on one side & 1 mm & 64th on the reverse side	1
CH/CSQ	Center Head	1
PH/CSQ	Protractor Head	1
SH/CSQ	Square Head	1

132

Internal Dial Calipers

IDC

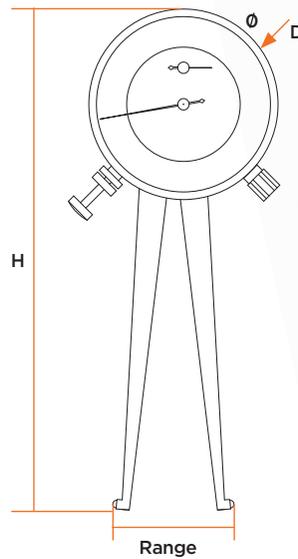
Designed for use in measuring bores of castings & inside reading in fabrications

These are used as comparison gauges & should be used with an absolute measurement device such as a micrometer, setting ring, etc.

Calipers are spring loaded & make point contact at constant measuring pressure

Available in inch & metric sizes

Dial gauge with adjustable bezel for zero setting


IDC/1
FEATURES
RESOLUTION

0.025 mm / 0.001"

ACCURACY

±0.05 mm / 0.002"

ORDERING INFORMATION

CAT NR.	RANGE		H		D		BOX QTY.
	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
IDC/1M	10 - 35	-	135.00	-	50.00	-	5
IDC/1	-	0.375 - 1.375	-	5.3	-	2	5

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

133

Dial Test Indicators

DTI

Top Quality mechanism with clear graduations

Metric models include 2 dovetail stem of dia. 6 mm & 8 mm

Inch model includes 2 dovetail stems of dia. 5/32" & 3/8"

32 mm


DTI/100M

1-1/4"


DTI/150
ORDERING INFORMATION

CAT NR.	RANGE	ACCURACY	RESOLUTION	DIAL READING	BOX QTY.
DTI/40M	0 - 0.80 mm	±0.008 mm	0.01 mm	0 - 40 - 0	5
DTI/100M	0 - 0.20 mm	±0.003 mm	0.002 mm	0 - 100 - 0	5
DTI/150	0 - 0.03"	±0.0004"	0.0005"	0 - 15 - 0	5

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

134

Digital Indicators

DGI

A very versatile range of digital indicators available in two levels of precision - Standard & High Accuracy

Robust construction

Suitable for both inch & metric measurements

Useful for absolute & tolerance measurement which allows for measure of upper & lower tolerances

Supplied with flat & lug back

Comes complete with CR 2032:3V battery



ORDERING INFORMATION

CAT NR.	RANGE		ACCURACY		RESOLUTION		BOX QTY.
	(mm)	(Inch)	(mm)	(Inch)	(mm)	(inch)	
STANDARD							
DGI/1	0 - 12.70	0 - 1/2	± 0.02	± 0.0008	0.01	0.0005	5
HIGH ACCURACY							
DGI/2	0 - 12.70	0 - 1/2	± 0.005	± 0.0002	0.001	0.00005	5

135

Dial Indicators

DLG

Robust construction, mechanical dial indicator with bottom plunger

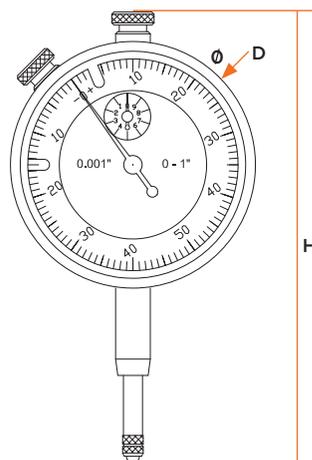
Furnished with lug-on centre back

Each revolution is indicated by a revolution counter

8 mm stem diameter for metric models and 3/8" for inch sizes

Available in inch & metric models

Meets AGD specifications



ORDERING INFORMATION

CAT NR.	RANGE	RANGE PER REVOLUTION	ACCURACY	RESOLUTION	DIAL READING	AGD	D	H	BOX QTY.
DLG/5	0 - 5 mm	0.50 mm	± 0.03 mm	0.01 mm	0-50	1	42.00 mm	79.00 mm	5
DLG/10	0 - 10 mm	1.00 mm	± 0.03 mm	0.01 mm	0-100	2	58.00 mm	110.00 mm	5
DLG/1-2	0 - 1/2"	0.10"	± 0.002"	0.001"	0-100	2	2.28"	4.19"	5
DLG/0-1	0 - 1"	0.10"	± 0.002"	0.001"	0-100	2	2.28"	4.67"	5

136

Feeler (Thickness) Gauges

FLG

Feeler Gauges are used for adjusting & gauging spark plugs, distributor points and valve clearances or any other instance of measuring space between two points

Stainless steel construction with each leaf marked with its thickness

Lock nut secures one or more leaves in position and each leaf is detachable if necessary

Complete with a protective holder that helps to preserve trueness of the leaf edges

FEATURES

STAINLESS STEEL


FLG/20/150
ORDERING INFORMATION

CAT NR.	NUMBER OF LEAVES	SIZES	BLADE LENGTH	BLADE WIDTH	BOX QTY.
		(mm)	(mm)	(mm)	
FLG/13/100	13	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	100	13	5
FLG/20/150	20	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	150	13	5

137

Radius Gauges

RDG

Radius Gauges are used by tools & die-makers, machinist's, screw machine operators & pattern makers to check layouts, radii of tools, dies & patterns

Useful for measuring external & internal radii

Stainless Steel construction with leaves etched with dimensions in millimetres

When not in use, the gauge can be rotated into the tools housing protecting the individual leaves

Locking nut holds gauge in open or closed position

FEATURES

STAINLESS STEEL


RDG/15/15.5-25
ORDERING INFORMATION

CAT NR.	NUMBER OF LEAVES	SIZES	BOX QTY.
		(mm)	
RDG/17/1-7	17 Pairs	1.0, 1.25, 1.50, 1.75, 2.0, 2.25, 2.50, 2.75, 3.0, 3.50, 4.0, 4.5, 5.0, 5.50, 6.0, 6.50, 7.0	5
RDG/16/7.5-15	16 Pairs	7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.50, 14.0, 14.50, 15.0	5
RDG/15/15.5-25	15 Pairs	15.50, 16.0, 16.50, 17.0, 17.50, 18.0, 18.50, 19.0, 19.50, 20.0, 21.0, 22.0, 23.0, 24.0, 25.0	5

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

138

Engineer's Precision Squares

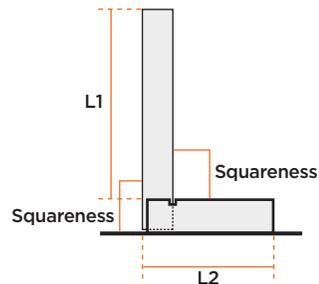
SS-A

Useful for setting up & checking jobs where extreme accuracy is required

Hardened spring steel blades are permanently fixed to the stock by means of tapered self locking rivets which ensure complete rigidity

Both the blade and the stock are precisely ground to ensure parallelism & straightness

A groove on the inner corner of the stock aids in the clearance of burr or dirt



ORDERING INFORMATION

CAT NR.	BLADE LENGTH (L1)	STOCK LENGTH (L2)	SQUARENESS	BOX QTY.
	(mm)	(mm)	(microns)	
SS/A/3	75	60	16	5
SS/A/4	100	75	16	5
SS/A/6	150	100	16	5
SS/A/8	200	125	20	5
SS/A/10	250	165	24	5
SS/A/12	300	210	24	2

139

Machinist's Squares

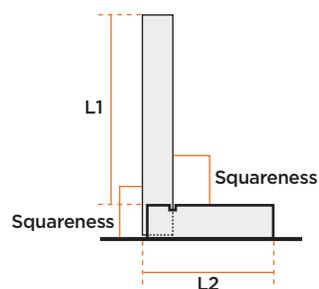
SS

Every day workshop use general purpose steel squares

Made from selected steel with hardened blades, these squares have accurate right angled both on the inside & outside

Both blade and stock are accurately ground which ensures straightness and parallelism

Ideal for everyday use in workshops and wood industry application



ORDERING INFORMATION

CAT. NR.	BLADE LENGTH (L1)	STOCK LENGTH (L2)	SQUARENESS	BOX QTY.
	(mm)	(mm)	(microns)	
SS/2	50	50	48	10
SS/3	75	60	48	10
SS/4	100	75	48	10
SS/6	150	100	72	10
SS/8	200	125	72	5
SS/10	250	165	72	5
SS/12	300	210	96	2
SS/18	450	255	144	1



140

Spring Calipers & Dividers

ID

OD

DD

Amongst the oldest comparison measuring tools these are designed for taking comparative measurements & transferring the dimensions to a Micrometer, Vernier Calliper, precision rule

Dividers are used for marking out circles on steel or transferring measurements from master templates.

Manufactured from high grade steel. Calipers & dividers have a spring joint for precision settings. Adjustments are made by opening & closing of legs via an adjusting nut

Divider points are hardened 50-55 HRC for increased wear resistance



ORDERING INFORMATION

CAT NR. INSIDE CALIPERS	CAT NR. OUTSIDE CALIPERS	CAT NR. SPRING DIVIDERS	SIZE (L)		BOX QTY.
			(mm)	(inch)	
ID/EC/4	OD/EC/4	DD/EC/4	100	4	10
ID/EC/6	OD/EC/6	DD/EC/6	150	6	10
ID/EC/8	OD/EC/8	DD/EC/8	200	8	5
ID/EC/10	OD/EC/10	DD/EC/10	250	10	5
ID/EC/12	OD/EC/12	DD/EC/12	300	12	5

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

141

Machinist's Scriber

MS-7

Useful for scribing & marking on metal, glass, plastics & ceramics

Double ended steel body scribers with one straight and the other bent at 90° making it ideal for use in confined spaces

Scriber points are hardened, 55-60 HRC & finely tapered permitting better sighting during work

For use by machinist's engravers, mechanics etc.



ORDERING INFORMATION

CAT NR.	LENGTH	BOX QTY.
	(mm)	
MS/7	190	25

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

142

Magnetic Vee Blocks

MVB

Designed for versatility and accuracy, these Vee Blocks are ideal for holding round or irregular shapes for scribing, grinding, measuring, machining and testing applications

All vee's and faces can be energized or de-energized simultaneously by turning the rotary action control knob. Hence enabling it to hold itself and the work against any flat Ferrous surface

Brass knob ensures no interference with the magnetic field unlike the conventionally used steel knobs

Vee's are hardened 55-60 HRC for increased wear resistance

Accuracies controlled within 8 microns



ORDERING INFORMATION

CAT NR.	DESCRIPTION	LENGTH	HEIGHT	CLAMPING CAPACITY	BOX QTY.
		(mm)	(mm)	(mm)	
MVB/4S/H	Single	100	75	5.0 to 60.0	1
MVB/4P/H	Pair	100	75	5.0 to 60.0	1
MVB/5S/H	Single	80	60	5.0 to 45.0	1
MVB/5P/H	Pair	80	60	5.0 to 45.0	1

143

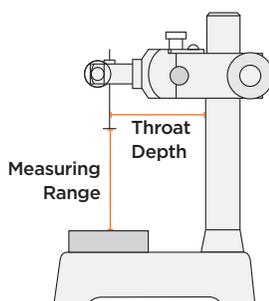
Dial Comparator Stand

DCS

Sturdy cast iron base precisely machined & ground

60mm Square Anvil hardened 55-58 HRC with flatness controlled to within 2 microns

Very useful for making fast & accurate comparative measurements both in laboratories & mass production jobs



ORDERING INFORMATION

CAT NR.	BASE DIMENSIONS	THROAT DEPTH	MEASURING RANGE	BOX QTY.
	(mm)	(mm)	(mm)	
DCS/12/SQ	100 x 150	83	100	1

144

Magnetic Bases

MB

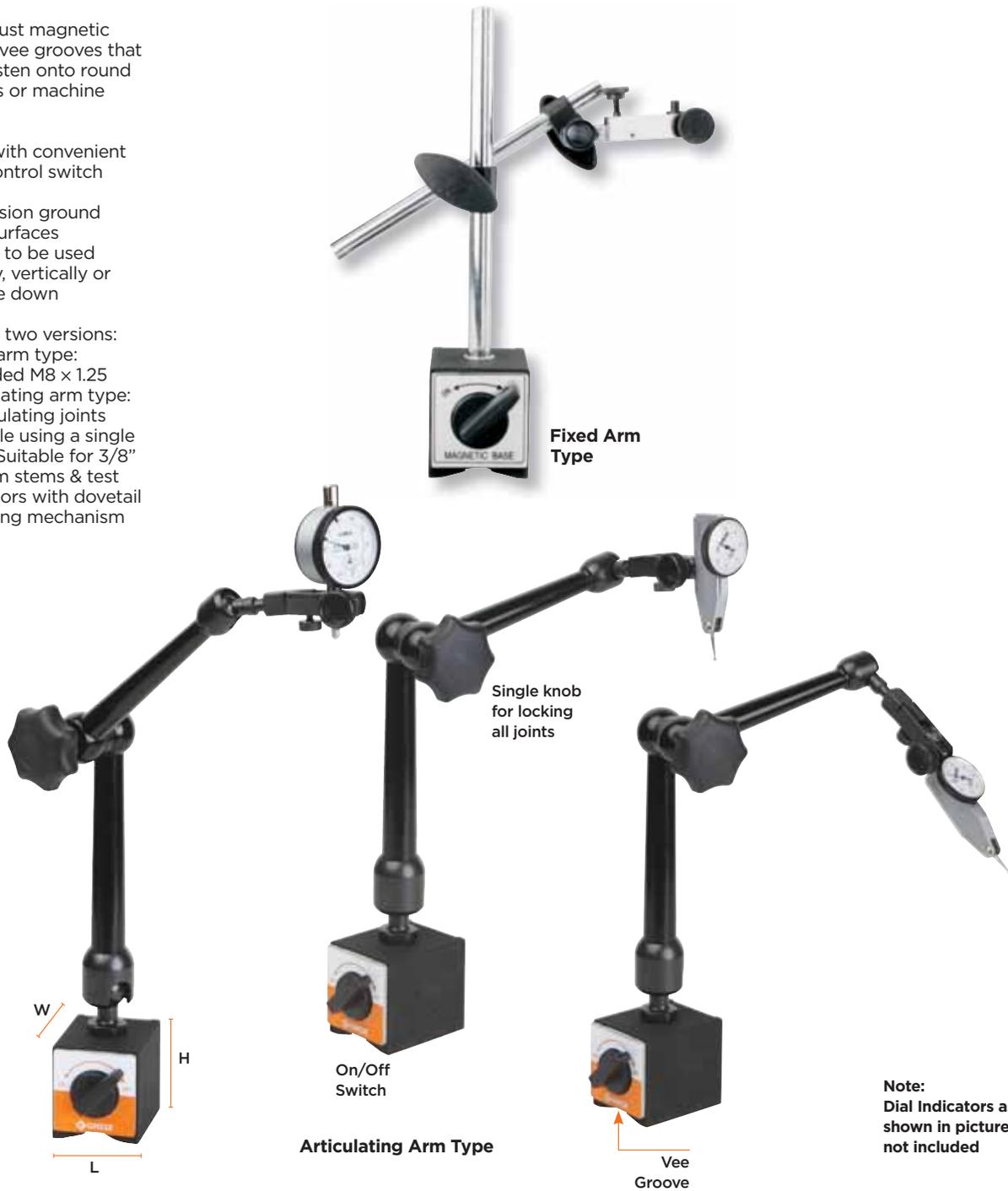
Rigid & robust magnetic bases with vee grooves that securely fasten onto round ferrous jobs or machine tables

Equipped with convenient ON/OFF control switch

Three precision ground magnetic surfaces allow these to be used horizontally, vertically or even upside down

Available in two versions:

1. Fixed arm type:
Threaded M8 x 1.25
2. Articulating arm type:
3 articulating joints lockable using a single knob. Suitable for 3/8" & 8 mm stems & test indicators with dovetail clamping mechanism



ORDERING INFORMATION

CAT NR.	BASE DIMENSION (L X W X H)		ARM LENGTH		MAGNETIC PULL	BOX QTY.
	(mm)	(inch)	(mm)	(inch)	(kg)	
ARTICULATING ARM TYPE						
MB/30	30 x 40 x 35	1-3/16 x 1-9/16 x 1-3/8	180	7-3/32	30	1
MB/80	50 x 60 x 55	2 x 2-3/8 x 2-3/16	280	11	80	1
MB/80L	50 x 60 x 55	2 x 2-3/8 x 2-3/16	340	13-3/8	80	1
FIXED ARM TYPE						
MB/25F	45 x 48 x 50	1-3/4 x 1-7/8 x 2	200	8	40	4

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

The rigid & robust construction of the GROZ range of knurling tool holders makes them ideal for countless knurling applications

These are available in 2 types:

- a. **Knurling Tool Holder - 1 Knurl**
Single knurl holder, these are useful for light duty applications. They come complete with one straight knurl
- b. **Knurling Tool Holder - 1 Pair**
A two knurl holder ideal for small knurling applications, it has a self adjusting pivot head which ensures that the knurl finds the centre line of the work exactly. It comes complete with one right & one left hand knurl


KT/0-1
KT/2-1
ORDERING INFORMATION

CAT NR.	TYPE	HOLDER SIZE	KNURL DIMENSION	BOX QTY.
		(mm)	(mm)	
KT/0-1	Single Knurl	100 × 13 × 13	19.5 × 9.5 × 6.35	2
KT/2-1	Pair of Knurls	190 × 35 × 16	19.5 × 9.5 × 6.35	2

Time saving positioning tools for use in jig, boring, milling machines etc.

Used for accurately locating work edges, shoulders and grooves

Manufactured from precision ground tool steel, case hardened to 45-48 HRC

Diameter & concentricity is controlled to within 5 microns.


ORDERING INFORMATION

CAT NR.	SHANK DIAMETER	TIP DIAMETER	BOX QTY.
	(mm)	(mm)	
EF/12	10	4	25
EF/13	10	10	25

147

Milling Machine Vices - Super Precision

MMV

These milling machine vices are one of the most popular vices used in workshops, machine shops, and shop floor. Apart from use in milling operations, these also find application in jig boring, grinding and shaping objects

Manufactured from close grained high tensile seasoned cast iron, vice body has a premium polychromatic finish which is scratch and rust proof

Vice jaws allow the work piece to be held dead square without use of any packing. This not only improves efficiency and life of jaws but also helps reduce strain on vice body

Usage of high tensile grade 10.8 fasteners provides greater strength and rigidity. The 360° swivel base allows the vice to be set at any angle along the vertical axis

“Hold down” slots allow for secure clamping of the vice on the machine table.



Milling Machine Vice being used to hold a job for milling operation

ORDERING INFORMATION

CAT NR.	CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
		(mm)	(mm)	(mm)	
FIXED BASE	SWIVEL BASE				
MMV/F/SP/100	MMV/SP/100	100	100	38	1
MMV/F/SP/150	MMV/SP/150	150	150	45	1
MMV/F/SP/200	MMV/SP/200	200	200	58	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

Angular machine vices are ideal for applications where in the work piece requires machining at an angle.

Angular adjustment is achieved via the angular slide that can be set to any desired angle 45 degrees on either sides

Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground tool steel jaws.

Ergonomically designed all steel handle allows for stress free operation

Use of high tensile grade 10.8 fasteners provides strength and rigidity to these vices
Relief in clamp seat ensures complete surface contact as against a line contact between the "hold down" clamp and movable slide, thereby providing firm locking at any desired angle

"Hold down" slots allow for secure clamping of the vice on the machine table.



Rotation along 360° swivel base



Rotation along 0-90° vertical scale



Combined rotation along both horizontal & vertical axis

ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
SWIVEL BASE				
AMV/SP/100	100	100	38	1
AMV/SP/150	150	150	45	1
AMV/SP/200	200	200	58	1

149

3 Way Tilting Vices - Super Precision

TLT

Tilting vices provide for 3 axis setting of the work piece in special milling, drilling, grinding, shaping and jig boring applications

Vices have two angular slides which allow the work piece to be set at any desired angle- 45 degree tilting range on either sides and 90 degree vertical indexing. The 360 degree swivel base further allows rotation along the vertical axis

Manufactured from close grained hi-tensile seasoned cast iron with fully hardened and ground tool steel jaws; vices have a premium polychromatic finish

Ergonomically designed all steel handle allows for stress free operation

Use of high tensile grade 10.8 fasteners provides strength and rigidity to these vices
Relief in clamp seat ensures complete surface contact as against a line contact between the "hold down" clamp and movable slide, thereby providing firm locking at any desired angle

"Hold down" slots allow for secure clamping of the vice on the machine table



A combination of settings along the 3 scales



Movement along the tilting scale, 0-45°



Rotation along the swivel base



Movement along the first angular slide, 0-90°

ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
SWIVEL BASE				
TLT/SP/100	100	100	38	1
TLT/SP/150	150	150	45	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

World's #1 Toolmakers Vice - a must for every tool & die maker

Manufactured from selected tool steel, these solid one piece vices are fully hardened (55-60 HRC) and tempered to ensure stability and durability

All vice surfaces are precision ground

The movable jaw is narrower than the base enabling vices to be used on either sides in addition to the base

Due to their outstanding accuracies, these vices are mainly used in tool manufacturing, on grinding & milling machines, in engraving & jig boring applications, for measurement and inspection work and in manufacturing processes that require highest standards of clamping accuracy

These vices are available in two models:

1. Screw Type

- a. Clamping and releasing is through a threaded spindle with precision cut square threads for smooth operation
- b. Vice spindle moves in a specially designed gun metal bush which reduces wear thus enhancing life of the vice

2. Screwless Type

- a. The rapid positioning notches allow the vice to be locked in any position by means of an allen key provided with the vice
- b. Vee grooves in the sliding jaw, both horizontal and vertical, facilitate holding of round jobs
- c. Jaw pressure on work piece is forward and downward for repeatable positioning and maximum holding power
- d. These vices are particularly suitable for erosion work



Screw Type



Screwless Type

ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
SCREWLESS TYPE				
TMV/2	50	90	25	1
TMV/23	75	110	35	1
SCREW TYPE				
TMV/ST/4	70	75	40	1



151

Sine Vices - Super Precision

SNV

Manufactured from selected tool steel, these solid Sine Vices are fully hardened (55-60 HRC) and tempered, mounted onto a precision hinged bottom plate. All the surfaces are precisely ground for extreme accuracy

These are very useful for manufacturing processes that require the highest standards of clamping accuracy at desired angles

A minute angle step of 0.2"/5 mm allows very small angles to be set with ease using standard gauge blocks

These are available in two models:

- a. Screw Type
- b. Screwless Type



Screw Type

Screwless Type

ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	CENTRE TO CENTRE DISTANCE	BOX QTY.
SCREWLESS TYPE					
SNV/6	2.3/4"	3.3/4"	1-9/16"	6"	1
SNV/150	70 mm	95 mm	40 mm	150 mm	1
SCREW TYPE					
SNV/7	2.3/4"	3"	1-9/16"	7"	1
SNV/175	70 mm	75 mm	40 mm	175 mm	1



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

152

Drill Press Vices - Precision

DPV - STD

Manufactured from graded cast iron, these drill vices have been designed for accuracy, making them ideal for engineering workshops & tool rooms

The base and slides are precision ground for stability and accurate operation. Horizontal & vertical V-grooves in the stationary jaw allow holding of round tools securely

The base is slotted enabling the vice to be bolted to drill press tables, assisting in quick and accurate positioning



ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
DPV/STD/75	70	70	30	1
DPV/STD/100	100	100	38	1
DPV/STD/125	125	125	48	1

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

153
**Drill Press Vices -
Unigrip**
DPV - UG

Manufactured from graded cast iron, these vices have a precision ground base and vice bed for smooth lateral movement of the movable jaw

Longitudinal & transversal prisms in the fixed jaw allow for firm gripping of round jobs of different sizes both horizontally & vertically, special seat in jaws facilitates retaining of flat work pieces

Vices are equipped with a convenient unigrip mechanism. Spindle moves inside the hollow hand grip allowing the vice to be used at a location away from the table edge. This feature increases the scope of application of this range of vices


ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
DPV/UG/75	80	75	30	1
DPV/UG/100	100	92	30	1
DPV/UG/125	120	110	35	1

154
**Drill Press Vices -
Heavy Duty**
DPV

Specially designed for use by professionals who require a heavy drill vice

Manufactured from close grained cast iron, the vice offers a ground vice bed for smooth and consistent jaw movement

Jaws are hardened and ground with cross patterned 90° V- grooves in the stationary jaw facilitating holding of round jobs both horizontally & vertically

Rugged design makes these vices perfect for even the most difficult of drilling, tapping & reaming operations


ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	JAW DEPTH	BOX QTY.
	(mm)	(mm)	(mm)	
DPV/100	100	100	35	1
DPV/120	120	150	42	1
DPV/150	150	170	50	1

155

Video Borescope Video Inspection System

DCS 200
DCS 300

Compact Video Borescopes for live Visual Inspection of inaccessible areas

Ideal for Plumbing, Electrical, Construction, DIY / Home owners, HVAC/R & Automotive / Fleet shops

12 mm diameter camera-tipped probe is flexible and strong with built-in adjustable LED lighting and is slim enough to perform automotive engine check-up

Flexible Waterproof (IP67)
Probe retains configured shape to suit different inspection needs

Probe is water, oil and dust proof

View findings instantaneously

Available in two models:

1. **The Seeker™ 200**
2.4" (70 mm) color LCD screen for crystal clear image
2. **The Seeker™ 300**
3.5" (89 mm) color LCD screen for crystal clear image

INCLUDES

- Heavy-Duty Blow Mould Case
- 3.2 ft. (1m) Obedient Probe
- 3 Extension Tools: Mirror, Magnet, Pick-up Hook
- 1 "9V" Battery

SPECIFICATION

DISPLAY	Color LCD Screen
RESOLUTION	320 x 240
PROBE LENGTH	Standard: 3.28 ft. (1m) Optional: Upto 32.8 ft. (10m)
DEPTH OF FIELD (DOF)	0.98" to 11.8" (25 mm to 300 mm)
FIELD OF VIEW	60°
LIGHT SOURCE	Two adjustable LED's

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
DCS300	With 3.5" (89 mm) screen	1
DCS200	With 2.4" (70 mm) screen	1
P230-2X	2m long probe extension with 12 mm diameter	1
P230-3X	3m long probe extension with 12 mm diameter	1


 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

Wireless Data Logging video inspection systems

Compact Video Borescope for visual inspection of inaccessible areas

Ideal for HVAC/R maintenance & audit, MRO inspection & audit, automotive & fleet maintenance

3.5" (89 mm) TFT-LCD wireless colour monitor can be detached from the unit for remote viewing up to 32.8 ft (10m) away

1m flexible waterproof (IP67) obedient probe retains configured shape. Option to extend length upto 5m is available

Adjustable LED lighting inside the tip of the probe illuminates dark spaces for clear inspection

Data-logs and records in still photo (JPEG) and video (AVI), upto 3 hrs or view it live

NTSC or PAL compatible
Choices of 3 menu languages - English, French & Spanish

Comes complete with 12 mm diameter probe suitable for HVAC/R, plumbing and general inspection

INCLUDES

- Heavy-duty blow mould case
- 3.2 ft (1m) obedient probe
- 2GB micro SD memory card 3
Extension Tools: mirror, magnet, pick-up hook
- USB cable & AV out cable
- Rechargeable battery & AC adaptor/charger
- One-to-two charging cable

SPECIFICATION

CAMERA	
TRANSMISSION RANGE	32.8 ft. (10m) clear field
TRANSMISSION FREQUENCY	2414 MHz
RESOLUTION	Still Image: VGA 640 x 480
	Video: 720 x 480 (NTSC) 320 x 576 (PAL)
DEPTH OF FIELD (DOF)	1.2" - 3.94" (30 mm - 100 mm)
FIELD OF VIEW	60°
PROBE LENGTH	Standard: 3.28 ft. (1m)
	Optional: up to 18 ft (5.5m)
MONITOR	
VIDEO/IMAGE RESOLUTION	320 x 240 Pixels (AVI format)

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
DCS400	Wireless video borescope - with 12 mm diameter probe	1



Detachable Wireless Camera



157

The Seeker™ 8:1 Mid Range Infrared Thermometer

IRT 207

Ideal for most application in HVAC/R, plumbing & heating, electrical, automotive & other industrial jobs

Rugged & ergonomic design for general purposes

Ultra low power consumption in shut-down mode

Extended long time measuring reliability

Backlit LCD display

Switchable On/Off Laser sighting

Choice between Fahrenheit & Celsius scales

Auto off

INCLUDES

- 1 'CR2032' battery

SPECIFICATION

DISTANCE TO SPOT (DS) RATIO	8:1
RANGE	-20°C to 317°C
EMISSIVITY	Fixed at 0.95
RESOLUTION	0.5°C
ACCURACY	±2%
OPERATING TEMPERATURE	0°C to 50°C, 10 to 90% RH



RoHS

WEEE


 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

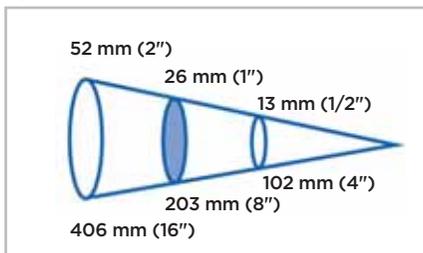
 FLUID HANDLING
EQUIPMENT

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

Optical resolution (field-of -view) 8:1



ORDERING INFORMATION

CAT NR.	BOX QTY.
IRT207	1

5

PROFESSIONAL HAND TOOLS

The right tools for the right application!

NEW PRODUCTS TO LOOK OUT FOR

145



Machinist's Hammer &
Double Face Plastic Mallet

146



Circlip
Pliers

154



Reversible
Ratcheting Spanner

160



Hydraulic
Bottle Jacks

146



Brass
Hammer

148



Sockets &
Accessories

158



Cantilever Tool Box
& Tool Bag

171



Retra
Knife

158

Club Hammers

CHID

Indestructible handle is made up of 4 spring steel bars that run all the way through the handle

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue

Special bonding process ensures that head never gets loose from the handle

Hammer head is forged from special steel & is induction case hardened 52-56 HRC for extended life



Steel Locking Plate



4 Spring Steel Bars



Ergonomic Rubber Grip Handle

APPLICATION

- Minor demolition work
- Driving -in stakes & fence posts
- Drilling in concrete

ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
CHID/2.5/12	1100	1.1	2.5	12	300	8
CHID/4/12	1800	1.8	4	12	300	8
CHID/4/16	1800	1.8	4	16	400	8

FEATURES

TEMPERATURE RANGE

-10°C TO 50°C

BS 876

For material, hardness & performance



WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

159

Sledge Hammers

SHID

Indestructible handle made up of 6 spring steel bars

Bars locked with hammer head using steel locking plate ensuring that the head never gets dislodged

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue

Special bonding process ensures that head never gets loose from the handle

Hammer head is forged from special steel & is induction case hardened 52-56 HRC for extended life

APPLICATION

- Construction - fracturing stone & concrete
- Heavy demolition work
- Mining
- Bending & shaping metal



ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
SHID/6/24	2700	2.7	6	24	600	4
SHID/6/30	2700	2.7	6	30	750	4
SHID/8/24	3600	3.6	8	24	600	4
SHID/8/30	3600	3.6	8	30	750	4
SHID/10/30	4500	4.5	10	30	750	4
SHID/12/30	5500	5.5	12	30	750	4
SHID/14/30	6300	6.3	14	30	750	4

FEATURES

TEMPERATURE RANGE

-10°C
TO
50°C

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

160

Claw Hammer

CLID

Indestructible 13" (330 mm) long handle is made with 2 spring steel bars that run all the way through the handle

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged

Hammer Head is forged from special steel & induction case hardened 52-56 HRC for extended life

Well shaped, curved claw is tapered for maximum grip & higher leverage when gripping a nail

Special bonding process ensures that the head never gets loose from the handle

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue

APPLICATION

- Pulling Out Nails
- Lifting Floorboards
- Carpentry Work



ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(oz.)	(inch)	(mm)	
CLID/16/13	450	0.450	16	13	330	12

FEATURES

TEMPERATURE RANGE

-10°C
TO
50°C

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

Do not use a claw hammer for striking cold chisels or for pulling out masonry nails

161

Ball Pein Hammers

BPID

Indestructible handle made up of 2 spring steel bars

Bars locked with hammer head using steel locking plate ensuring that the head never gets dislodged

Forged hammer head is induction hardened 52-56 HRC

Ergonomic rubber grip handle absorbs vibration

APPLICATION

- Bending & shaping metal
- Driving punches & chisels
- Concrete & stone work
- Hand forging
- Setting rivets
- Peen riveted & welded material
- Texturing face of metal



ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
BPID/24/14	685	0.685	1.5	14	350	8
BPID/32/14	915	0.915	2	14	350	8

FEATURES

TEMPERATURE RANGE

-10°C TO 50°C

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

162

Cross Pein Hammers

CPID

Indestructible handle made up of 4 spring steel bars

Bars locked with hammer head using steel locking plate ensures that the head remains fixed always

Forged hammer head is induction hardened 52-56 HRC

Ergonomic rubber grip handle absorbs vibration

APPLICATION

- Heavy Forging
- Bending & Shaping Metal
- Spreading Metal
- Driving Punches & Chisels
- Driving Masonry Drills
- Concrete & Stone Work
- Starting Panel Pins & Tacks



ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
CPID/2/16	1100	1.1	2.5	16	400	8
CPID/3/16	1600	1.6	3.5	16	400	8

FEATURES

TEMPERATURE RANGE

-10°C TO 50°C

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

163

Brass Head Sledge Hammers

SHID-BR

Indestructible handle made with 4 spring steel bars

Bars are locked with the hammer head using steel locking plates ensuring that the head never get dislodged

Ergonomic rubber grip handle absorbs shocks & vibration hence reducing fatigue

Drop forged brass head is spark resistant. It absorbs impact & reduces damage on the surface being hit.

Also it can be used safely in combustible environments

APPLICATION

- Oil Rigs
- Gas Industry
- Automotive applications where the struck surface is soft



ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
SHID/2.5/12/BR	1100	1.1	2.5	12	300	8
SHID/2.5/16/BR	1100	1.1	2.5	16	400	8
SHID/4/12/BR	1800	1.8	4	12	300	8
SHID/4/16/BR	1800	1.8	4	16	400	8

FEATURES

TEMPERATURE RANGE	NON SPARKING
-10°C TO 50°C	

164

Copper Head Sledge Hammers

SHID-CU

Indestructible handle made up of spring steel bars

Bars locked with hammer head using steel locking plate ensuring that the head never gets dislodged

Forged hammer head is forged from 99.9% pure copper for spark free use

Ergonomic rubber grip handle absorbs shock & vibration hence reducing fatigue

APPLICATION

- Underground Coal Mining
- Metal Forming

ORDERING INFORMATION

CAT NR.	HEAD WEIGHT			HANDLE LENGTH		BOX QTY.
	(gms)	(kg)	(lbs)	(inch)	(mm)	
CHID/4/12/CU	1800	1.8	4	12	300	8
SHID/8/24/CU	3600	3.6	8	24	600	4
SHID/14/30/CU	6400	6.3	14	30	750	4



FEATURES

TEMPERATURE RANGE	COPPER
-10°C TO 50°C	
NON SPARKING	NON MARRING
	

165

Machinist's Hammers - DIN 1041

MHID-DIN

Indestructible handle is made up of 2 spring steel bars that run all the way through the handle.

Forged steel head is induction case hardened 50- 58 HRC.

Head features an octagonal face with bevelled edges & a 45° angular cross peen

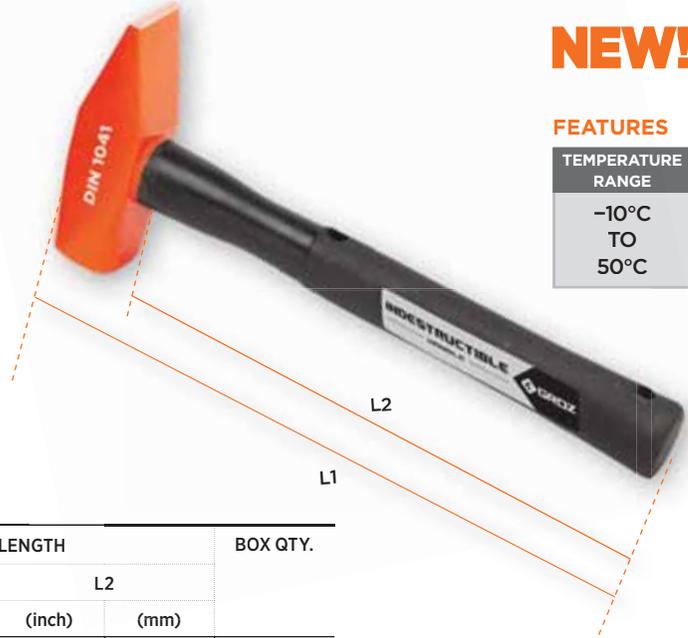
Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs vibration and reduces fatigue.

Special bonding process ensures that the head never gets loose from the handle.

UTILITY

- Riveting
- Forging
- Shaping & flattening of metal
- Embossing
- Removal of dents
- Jewellery application



NEW!

FEATURES

TEMPERATURE RANGE
-10°C TO 50°C

ORDERING INFORMATION

CAT NR.	HEAD WEIGHT		HANDLE LENGTH				BOX QTY.
			L1		L2		
	(gms)	(kg)	(inch)	(mm)	(inch)	(mm)	
MHID/DIN/300G/13/OR	300	0.3	13	330	12	300	10
MHID/DIN/500G/13/OR	500	0.5	13	330	12	300	10
MHID/DIN/800G/14/OR	800	0.8	14	350	12-19/32	320	8
MHID/DIN/1000G/14/OR	1000	1	14	350	12-19/32	320	8

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

166

Double Face Plastic Mallet

HMR-SF

Multi-purpose striking tool used in most assembly applications

Chrome plated screw head with 2 screw-in plastic faces which are designed to be replaced when worn out

Soft faces deliver a solid strike without damaging the work surfaces

Light weight tubular steel handle shifts the weight balance towards head for extra power in each blow

Extra soft non slip rubber handle grip for ultimate comfort and control

UTILITY

- Engineering
- Carpentry
- Injection Moulding
- Light Metal Working
- Denting & Painting
- Assembly & Fitting in Automotive Workshops
- Assembly work when need to avoid damage to component & parts



NEW!

ORDERING INFORMATION

CAT NR.	HEAD DIA.		BOX QTY.
	(inch)	(mm)	
HMR/SF/25	1-3/8	35	8

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

167

Brass Hammers

BRH-1

An idea combination of brass & aluminium makes these hammers very safe for use even in explosive environments. The Brass head does not spark and protects metal surfaces from any damage such as denting or marking during use. The non slip aluminium handle is knurled for comfortable non slip grip



NEW!

ORDERING INFORMATION

CAT NR.	HEAD WEIGHT		BOX QTY.
	(lb)	(kg)	
BRH/1	1	0.450	6

168

Circlip Pliers

CLP

Precise & solid contact tips prevent circlip damage

Soft cushion grip for comfort in usage

Fully hardened & tempered

FEATURES

CHROME VANADIUM	HARDNESS
	 40-45 HRC



NEW!

ORDERING INFORMATION

CAT NR.	DESCRIPTION	LENGTH		BOX QTY.
		(inch)	(mm)	
CLP/ST/E/150	External Straight	6	150	54
CLP/ST/I/150	Internal Straight	6	150	54
CLP/BND/E/150	External Bent	6	150	54
CLP/BND/I/150	Internal Bent	6	150	54

169

Insulation Pliers

CPL

LNP

SCP

Manufactured to exacting international standards using the latest technology & finest materials

1000V Safe: These are tested in accordance with VDE standards & insulated to 1000V AC for live wire working

Chrome Vanadium Construction: Pliers are individually forged from chrome vanadium steel, fully hardened & tempered

Enhanced Life: Addition of chrome & vanadium increases hardness & toughness of these pliers. Both these materials are rust inhibiting making pliers resistant to wear & tear thereby enhancing working life

TRP Grip: Heavily insulated, dual colour, ergonomically designed grip is shock-proof & anti-slip making these pliers safest in use

Slip Guard helps avoid spark-over or current passage from bare pliers to the user's hands

Hot forged, fully hardened & tempered Chrome Vanadium Steel

Smoothly ground head with polished finish

Induction Hardened cutting edges (52-60 HRC) for cutting soft, medium hard & hard wires

Rugged & wear resistant TPR grip



Available in the following variants:

a. Combination Pliers



Most suitable for gripping, bending, straightening, crushing, pulling, stripping insulation, cutting wires etc.

b. Long Nose Pliers



Most suitable for cutting & gripping wires

c. Side Cutting Pliers

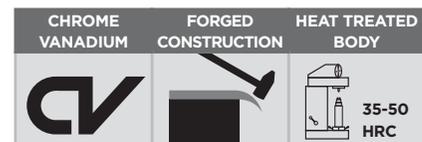


Most suitable for cutting wires

ORDERING INFORMATION

CAT NR.	LENGTH		BOX QTY.
	(inch)	(mm)	
COMBINATION PLIERS			
CPL/CV/6	6	150	72
CPL/CV/7	7	175	72
CPL/CV/8	8	200	54
LONG NOSE PLIERS			
LNP/CV/6	6	150	72
LNP/CV/7	7	175	72
LNP/CV/8	8	200	72
SIDE CUTTING PLIERS			
SCP/CV/6	6	150	72
SCP/CV/7	7	175	72
PLIER SETS			
PLR/CV/ST3A	Includes 8" Combination Plier, 6" Long Nose Plier & 6" Side Cutting Plier		5

FEATURES



APPLICATION



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

SOCKETS & ACCESSORIES



A range of sockets, ratchets & accessories designed to fit & built to perform

ACC DIN 3122 & ISO 3315 specifications

Amongst the most commonly used equipment, these are widely used in automotive, workshops and all sorts of industrial applications

Superior engineering; highest standards of manufacturing under strict process control guarantees higher efficiency and three times longer working life compared to most brands

The range includes regular & deep hex sockets, ratchets, accessories & sets to meet every need of 2 and 4 wheeler applications

THE GROZ SOCKET

ENHANCED LIFE

Chrome Vanadium Construction

Cold forging from high quality chrome vanadium steel, precisely hardened for increased durability

Ultra Premium Finish

High quality attractive ultra premium finish provides a scratch proof surface with enhanced protection against corrosion. We put the GROZ ultra premium finish sockets to test vis-s vis other finishes in a salt spray chamber. After 72 hours of constant test we observed the following:



GROZ ULTRA PREMIUM FINISH

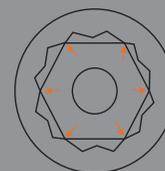
MIRROR FINISH (Other Brands)

MATT FINISH (Other Brands)

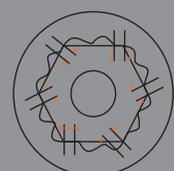
ENHANCED PERFORMANCE

Super Grip Profile

GROZ Sockets incorporate the super grip profile that features round points facilitating contact between socket wall & fastener wall, keeping pressure off the corners



STANDARD PROFILE
Stress applied to edges



GROZ SUPER GRIP® PROFILE
Larger contact area between socket & fastener

This ensures:

1. Transmission of higher torque
2. Firm grip & enhanced engagement
3. Increased durability: Stress concentration in corners eliminated

Knurled Band

Provides a non-slip grip even in slippery applications found usually in workshops

Marking & Branding

Branding & size stamped on each individual socket ensures quick and convenient identification



170 Hex Sockets

SKT

ORDERING INFORMATION

1/4" SQUARE DRIVE

CAT NR.	SIZE	BOX QTY.
	(mm)	
HEX SOCKETS		
SKT/H/1-4/4/UG	4	10
SKT/H/1-4/4.5/UG	4.5	10
SKT/H/1-4/5/UG	5	10
SKT/H/1-4/5.5/UG	5.5	10
SKT/H/1-4/6/UG	6	10
SKT/H/1-4/7/UG	7	10
SKT/H/1-4/8/UG	8	10
SKT/H/1-4/9/UG	9	10
SKT/H/1-4/10/UG	10	10
SKT/H/1-4/11/UG	11	10
SKT/H/1-4/12/UG	12	10
SKT/H/1-4/13/UG	13	10
SKT/H/1-4/14/UG	14	10

HEX BIT SOCKETS		
SKT/1-4/H3/UG	3	10
SKT/1-4/H4/UG	4	10
SKT/1-4/H5/UG	5	10
SKT/1-4/H6/UG	6	10
SKT/1-4/H7/UG	7	10
SKT/1-4/H8/UG	8	10

TORX BIT SOCKETS		
SKT/1-4/T8/UG	T8	10
SKT/1-4/T10/UG	T10	10
SKT/1-4/T15/UG	T15	10
SKT/1-4/T20/UG	T20	10
SKT/1-4/T25/UG	T25	10
SKT/1-4/T30/UG	T30	10
SKT/1-4/T40/UG	T40	10

SLOTTED BIT SOCKETS		
SKT/1-4/S4/UG	4	10
SKT/1-4/S5.5/UG	5.5	10
SKT/1-4/S7/UG	7	10

PHILIPS BIT SOCKETS		
SKT/1-4/PH1/UG	PH1	10
SKT/1-4/PH2/UG	PH2	10
SKT/1-4/PH3/UG	PH3	10

POZI BIT SOCKETS		
SKT/1-4/PZ1/UG	PZ1	10
SKT/1-4/PZ2/UG	PZ2	10
SKT/1-4/PZ3/UG	PZ3	10

3/8" SQUARE DRIVE

CAT NR.	SIZE	BOX QTY.
	(mm)	
3/8" SQUARE DRIVE HEX SOCKETS		
SKT/H/3-8/6/UG	6	15
SKT/H/3-8/7/UG	7	15
SKT/H/3-8/8/UG	8	15
SKT/H/3-8/9/UG	9	15
SKT/H/3-8/10/UG	10	15
SKT/H/3-8/11/UG	11	15
SKT/H/3-8/12/UG	12	15
SKT/H/3-8/13/UG	13	15
SKT/H/3-8/14/UG	14	15
SKT/H/3-8/15/UG	15	12
SKT/H/3-8/16/UG	16	12
SKT/H/3-8/17/UG	17	10
SKT/H/3-8/18/UG	18	10
SKT/H/3-8/19/UG	19	10
SKT/H/3-8/20/UG	20	8
SKT/H/3-8/21/UG	21	8
SKT/H/3-8/22/UG	22	6

1/2" SQUARE DRIVE

CAT NR.	SIZE	BOX QTY.
	(mm)	
1/2" SQUARE DRIVE HEX SOCKETS		
SKT/H/1-2/8/UG	8	15
SKT/H/1-2/9/UG	9	15
SKT/H/1-2/10/UG	10	15
SKT/H/1-2/11/UG	11	15
SKT/H/1-2/12/UG	12	15
SKT/H/1-2/13/UG	13	15
SKT/H/1-2/14/UG	14	15
SKT/H/1-2/15/UG	15	12
SKT/H/1-2/16/UG	16	12
SKT/H/1-2/17/UG	17	10
SKT/H/1-2/18/UG	18	10
SKT/H/1-2/19/UG	19	10
SKT/H/1-2/21/UG	21	8
SKT/H/1-2/22/UG	22	6
SKT/H/1-2/23/UG	23	6
SKT/H/1-2/24/UG	24	6
SKT/H/1-2/26/UG	26	6
SKT/H/1-2/27/UG	27	6
SKT/H/1-2/28/UG	28	4
SKT/H/1-2/29/UG	29	4
SKT/H/1-2/30/UG	30	4
SKT/H/1-2/32/UG	32	4

1/2" SQUARE DRIVE DEEP HEX SOCKETS

CAT NR.	SIZE	BOX QTY.
	(mm)	
1/2" SQUARE DRIVE DEEP HEX SOCKETS		
SKT/H/1-2/10D/UG	10	12
SKT/H/1-2/11D/UG	11	12
SKT/H/1-2/12D/UG	12	12
SKT/H/1-2/13D/UG	13	12
SKT/H/1-2/14D/UG	14	12
SKT/H/1-2/15D/UG	15	12
SKT/H/1-2/16D/UG	16	12
SKT/H/1-2/17D/UG	17	10
SKT/H/1-2/18D/UG	18	10
SKT/H/1-2/19D/UG	19	10
SKT/H/1-2/21D/UG	21	10
SKT/H/1-2/22D/UG	22	8
SKT/H/1-2/23D/UG	23	8
SKT/H/1-2/24D/UG	24	8
SKT/H/1-2/26D/UG	26	6
SKT/H/1-2/27D/UG	27	6
SKT/H/1-2/28D/UG	28	6
SKT/H/1-2/29D/UG	29	6
SKT/H/1-2/30D/UG	30	2
SKT/H/1-2/32D/UG	32	2



NEW!

WARRANTY
2
YEARS

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
1/2" - 27 PIECE SOCKET SET		
KIT/SKT/H/1-2/27/UG	22 pcs 1/2" Sockets : 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32 mm	5
	2 pcs Extension Bar : 5", 10"	
	1 pc Universal Joint	
	1 pc Sliding T Bar	
	1 pc Ratchet Handle	
1/4" - 42 PIECE SOCKET SET		
KIT/SKT/H/1-4/42/UG	13 pcs 1/4" Sockets : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	10
	6 pcs Hex Bit Socket : 3,4,5,6,7,8 mm	
	3 pcs Slotted Bit Socket : 4,5,7 mm	
	3 pcs Philips Bit Socket : PH1, PH2, PH3	
	3 pcs Pozi Bit Socket : PZ1, PZ2, PZ3	
	7 pcs Torx Bit Socket : T8, T10, T15, T20, T25, T30, T40	
	2 pcs Extension Bar : 2", 4"	
	1 pc Spinner Handle	
	1 pc Flexible Extension	
	1 pc Universal Joint	
	1 pc Sliding T Bar	
	1 pc Ratchet Handle	
SOCKETS ON RAIL WITH RATCHET		
KIT/SKT/H/1-4/9LH/UG	9 pcs 1/4" Socket & Ratchet set on rail; 4, 4.4, 5, 5.5, 6, 7, 8, 10; Ratchet Handle	5
KIT/SKT/H/3-8/9LH/UG	9 pcs 3/8" Socket & Ratchet Set on Rail; 6, 8, 10, 12, 13, 14, 17, 19; Ratchet handle	5
KIT/SKT/H/1-2/11LH/UG	11 pcs 1/2" Socket & Ratchet Set on Rail; 8, 9, 10, 12, 13, 14, 17, 19, 22, 24; Ratchet Handle	5
SOCKETS ON RAIL		
KIT/SKT/H/1-4/13L/UG	13 pcs 1/4" Socket Set on Rail : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	5
KIT/SKT/H/3-8/8L/UG	8 pc 3/8" Socket Set on Rail; 6, 8, 10, 12, 13, 14, 17, 19	5
KIT/SKT/H/1-2/9L/UG	9 pcs 1/2" Socket on Rail; 8, 9, 10, 12, 13, 14, 17, 19, 22	5
SOCKET MERCHANDISER		
SKT/H/1-2/UG/ST50	Socket Merchandiser with 49 sockets of following sizes: 10 mm (7), 13 mm (7), 17 mm (7), 19 mm (6), 22 mm (5), 24 mm (5), 27 mm (4), 30 mm (4), 32 mm (4)	1


NEW!
WARRANTY
2
YEARS

KIT/SKT/H/1-2/27/UG

KIT/SKT/H/1-4/42/UG

Sockets on Rail with Ratchet

Sockets on Rail without Ratchet

SKT/H/1-2/UG/ST50
49 Socket Merchandiser

172

Slim Line Ratchet Handle

RTD-SL

Chrome Vanadium Construction:
Cold forged from high quality chrome vanadium steel, precisely hardened for increased durability

Unique Patented Design:
30% slimmer & lighter than normal pear head ratchet, provides higher torque & extended service life

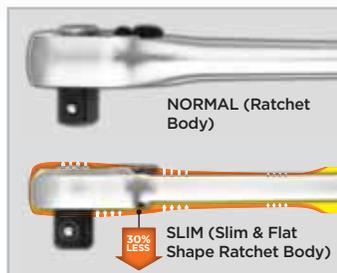


NEW!



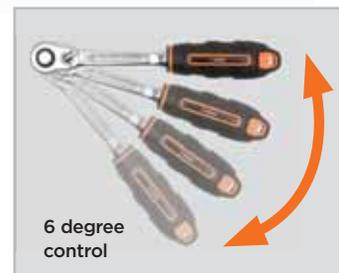
Slim Line Ratchet
More than 9 Teeth Bite of Gear is designed to transfer extremely high torque and extend the service life

Normal Type Ratchet
Only 3 teeth bite, unable to transfer the torque powerfully and efficiently



Normal (Ratchet Body)
SLIM (Slim & Flat Shape Ratchet Body)
30% LESS

Ratchet body is 30% slimmer than regular ratchet handles. This reduces the weight of the ratchet handles & provides high torque



60 Teeth With 6 Degree Control
Provides extremely high torque for professional users



Quick Release
Simply push the release button with one thumb for replacing sockets quickly and efficiently.



Unique Patented Design
Gourd shaped head is 30% narrower than regular oval shaped ratchets making these most suitable for use in light & hard to reach areas



Reversible Lever Switch
Reversible lever switch makes it easy to switch direction of use

ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
RTD/SL/1-4/UG	1/4	5
RTD/SL/3-8/UG	3/8	5
RTD/SL/1-2/UG	1/2	5



Ergonomic Design Handle
Ratchet handle is designed for increased convenience in use

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

173

Dual Drive Ratchet Handle

World-class Ratchet Handle with twice the speed of a conventional ratchet

Simply twisting the handle in any direction causes turning of the square drive. Irrespective of direction in which the handle is twisted, square drive rotates in the same direction.

Unlike a conventional ratchet, where forward movement causes square drive to rotate & back movement is idle, here with the Dual Drive both twisting in clockwise & anticlockwise direction result in rotation of the square drive, thereby reducing the time to half. Direction of the square drive can be changed by holding the handle body & turning the black knurled round switch on top

Operating the ratchet handle by twisting instead of forward-backward stroke allows working on fasteners with limited access.

Ratchet handle is designed to additionally also work as a conventional ratchet by operating it in the forward or backward stroke

52 teeth gear design provides optimum torque for professional use



Twist Action Handle

ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
RTD/DD/1-2/UG	1/2	1

NEW!

174

Socket Accessories

EXTENSION BAR

Manufactured from high quality chrome vanadium steel with ultra premium finish

Chrome Vanadium Construction



ORDERING INFORMATION

CAT NR.	LENGTH		DRIVE (inch)	BOX QTY.
	(inch)	(mm)		
DRXB/1-4/2/UG	2	50	1/4	10
DRXB/1-4/4/UG	4	100	1/4	10
DRXB/3-8/3/UG	3	75	3/8	5
DRXB/3-8/6/UG	6	150	3/8	5
DRXB/1-2/5/UG	5	125	1/2	5
DRXB/1-2/10/UG	10	250	1/2	5

FLEX HANDLE

Manufactured from high quality chrome vanadium steel with ultra premium finish. Hinged joint head and spring-loaded ball joint for secure socket holding

Head is Chrome Molybdenum (S2) steel & replaceable



ORDERING INFORMATION

CAT NR.	LENGTH		DRIVE (inch)	BOX QTY.
	(inch)	(mm)		
DFH/1-2HD/15/UG	15	380	1/2	5

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

HEX SPARK PLUG SOCKET

Designed for insertion & removal of spark plugs



ORDERING INFORMATION

CAT NR.	SIZE	DRIVE	BOX QTY.
	(mm)	(inch)	
SKT/1-2/SP/16/UG	16	1/2	5
SKT/1-2/SP/21/UG	21	1/2	5

SPEEDER HANDLE

Manufactured from high quality chrome vanadium steel with ultra premium finish. Ideal for nut spinning



ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
SPDH/1-2/UG	1/2	5

SLIDING T BAR

Manufactured from high quality chrome vanadium steel with ultra premium finish. Sliding bar gives many options for leverage within a given space



ORDERING INFORMATION

CAT NR.	LENGTH		DRIVE	BOX QTY.
	(inch)	(mm)		
SLTB/1-4/UG	4.5	114	1/4	10
SLTB/1-2/UG	10	250	1/2	5

ADAPTOR

For using a combination of square sockets in one application



ORDERING INFORMATION

CAT NR.	SIZE	BOX QTY.
SADP/3-8F/1-4M/UG	3/8" F to 1/4" M	5
SADP/3-8F/1-2M/UG	3/8" F to 1/2" M	5
SADP/1-2F/3-8M/UG	1/2" F to 3/8" M	5
SADP/1-2F/3-4M/UG	1/2" F to 3/4" M	5

* F - Female, M - Male

SPINNER HANDLE

Manufactured from high quality chrome vanadium steel with ultra premium finish.



ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
DRSH/1-4/UG	1/4	10

FLEXIBLE ROD

Flexible Rod with compressed spring for use in confined spaces



ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
FLEX/1-4/UG	1/4	10

UNIVERSAL JOINT

Manufactured from high quality chrome vanadium steel with ultra premium finish. Hinged through 180° in both directions



ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
UVJ/1-4/UG	1/4	10
UVJ/3-8/UG	3/8	5
UVJ/1-2/UG	1/2	5

L HANDLE

Fixed L Handle for applications requiring rigid set-up



ORDERING INFORMATION

CAT NR.	DRIVE	BOX QTY.
	(inch)	
LDH/1-2/UG	5	5

175

Reversible Ratcheting Spanner

CSP-RRT

Made from chrome vanadium steel, hardened and tested to meet or exceed international standards for torque specification, offering high torque capabilities, outstanding quality and superb performance

72 teeth, strong gear ratcheting ring needs as little as 5° of sweep to move fastener

Narrow and thin head, combined with fine gear tooth design makes the Ratcheting Spanner suitable for working in tight and hard to access areas where a ratchet and socket will not fit.

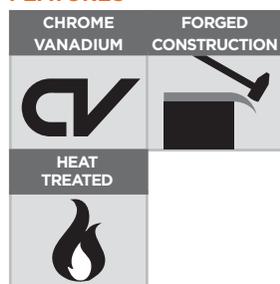
Ratcheting ring feature allows increased working speed, eliminating the need to remove the spanner from the fastener after each turn.

Chrome plated for corrosion protection with ultra premium finish for scratch proof surface

Use reversible lever to change the action direction

15° offset at ring end, makes it easy to gain access to the fasteners and achieve high leverage

FEATURES



Reversible Lever:
Makes it easy to switch the action direction



72 Teeth with 5 degree action arc:
Provide extreme high torque for professional users



Great Accessibilities:
Offset at the ring end with an angle 15° makes it easy to gain the access to the fastener and to achieve high leverage

NEW!



ORDERING INFORMATION

CAT. NR.	SIZE	LENGTH	WEIGHT	BOX QTY.
	(mm)	(mm)	(gms)	
CSP/RRT/8/UG	8	140	40	5
CSP/RRT/10/UG	10	160	55	5
CSP/RRT/12/UG	12	170	80	5
CSP/RRT/13/UG	13	180	95	5
CSP/RRT/14/UG	14	190	110	5
CSP/RRT/17/UG	17	225	180	5
CSP/RRT/19/UG	19	245	235	5
SET				
CSS/RRT/7ST/UG		8, 10, 12, 13, 14, 17, 19 mm Ratcheting Spanners Set		1



176

Professional Ratcheting Torque Wrenches

TQW-RT

High accuracy torque wrench, with unmatched features, safety & ergonomics

48 teeth ratchet allows for an engagement angle of 7-1/2° which is ideal; providing both precise adjustment & non slip use

Chrome - Molybdenum Steel
Square Drive

Adjustment of torque is achieved by pressing the safety button & simultaneously pulling out the adjustment ring; turning the ring to the desired value, re-pressing the safety button & simultaneously pushing the adjustment ring back. Fully secure locking mechanism avoids forced adjustment

Lightweight with a comfort grip handle & lens for clear reading of the set value

Tightening achieved in clockwise direction with a click sound once the required torque is achieved. Reversing the ratchet allows for using the wrench in anti clockwise direction, used to loosen an over tightened fastener

Accurate to ± 4% of reading

Each unit is individually serial numbered & includes calibration certificate traceable to international standards

Protective plastic case included with each unit

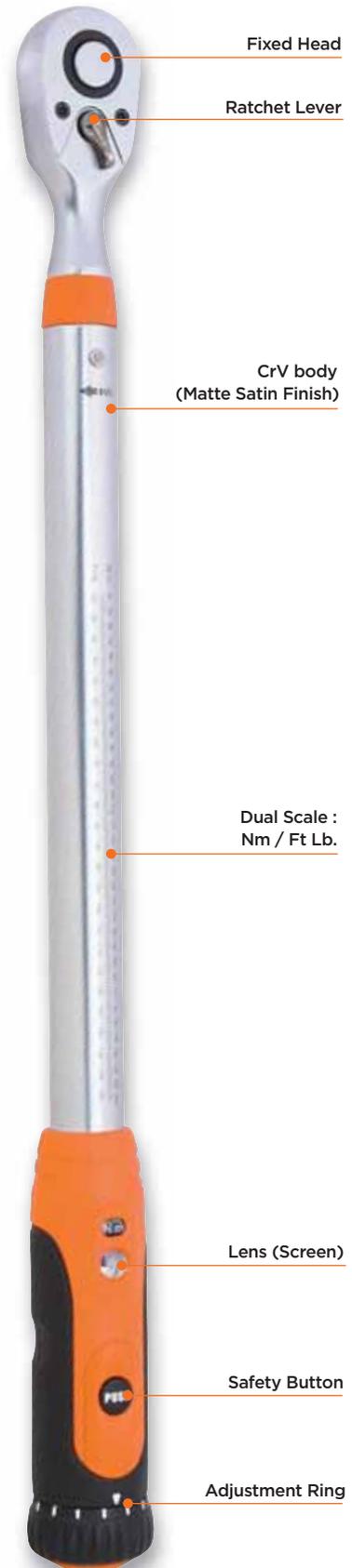
Fully serviceable, repair kits available as spare



SET MODE
Adjustment Ring in unlocked position for setting Torque value



USE MODE
Adjustment Ring in locked position



ORDERING INFORMATION

CAT NR.	SQUARE DRIVE	TORQUE RANGE	FINE SCALE	OVERALL LENGTH		NET WEIGHT	BOX QTY.
	(inch)	(Nm)	(Nm)	(inch)	(mm)	(kg)	
TQW/RT/3-8/25	3/8	5 - 25	0.1	12.7	323	0.765	1
TQW/RT/3-8/50	3/8	10 - 50	0.1	15.7	400	0.983	1
TQW/RT/1-2/100	1/2	20 - 100	0.5	15.7	400	0.998	1
TQW/RT/1-2/200	1/2	40 - 200	0.5	20.4	517	1.36	1
TQW/RT/1-2/340	1/2	60 - 340	1	24.4	620	1.73	1
TQW/RT/3-4/750	3/4	150 - 750	2.5	47.6	1210	5.85	1
TQW/RT/0-1/1000	1	200 - 1000	2.5	59.0	1500	7.43	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

177

12 Drawer Portable Workstation

MTB-12

Double wall steel construction provides high durability

Keyed locking system for added security with single operation for opening all drawers

Complete with wooden top for carrying out any job work

Heavy duty 5" x 2" (125 mm x 50 mm) castors feature 2 fixed and 2 swivel castors with toe lock for safety and better mobility

Heavy duty side handles for easy movement of cabinet

Ball bearing drawer slides with drawer liners included



FEATURES

BALL BEARING	DOUBLE WALL CONSTRUCTION
	
AVG. DRAWER LOAD CAPACITY	TROLLEY LOAD CAPACITY
 45 KG	450 KG 

ORDERING INFORMATION

CAT NR.	DIMENSION		BOX QTY.
	(mm)	(inch)	
MTB/12/WD	1067 x 457 x 985	42 x 18 x 39	1

178

8 Drawer Portable Workstation

MTB-8

Double wall steel construction provides high durability

Keyed locking system for added security with single operation for opening all Drawers

Comes complete with Rubber mat on the top that protects tool box from scratches and damage

Heavy duty 5" x 2" (125 mm x 50 mm) castors feature 2 fixed and 2 swivel castors with toe lock for safety and better mobility

Heavy duty side handles for easy movement of cabinet

Ball bearing drawer slides with drawer liners included



FEATURES

BALL BEARING	DOUBLE WALL CONSTRUCTION
	
AVG. DRAWER LOAD CAPACITY	TROLLEY LOAD CAPACITY
 45 KG	450 KG 

ORDERING INFORMATION

CAT NR.	DIMENSION		BOX QTY.
	(mm)	(inch)	
MTB/8	686 x 457 x 985	27 x 18 x 39	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

179
Nylon Tool Bag
NTB

Built to last using water-resistant 600 x 600 denier polyester

Reinforced Heavy Duty Base provides added tool protection and the wide opening up top gives easy access to contents

Double Layer construction with framed opening and Nylon zip

7 Exterior pockets and 8 internal pockets, provides options for organizing the tools inside the bag

Includes detachable and adjustable padded shoulder strap

Tools not included


NTB / 1
NEW!
ORDERING INFORMATION

CAT NR.	DIMENSIONS		BOX QTY.
	(inch)	(mm)	
NTB/1	17 x 10 x 11	420 x 260 x 300	1

180
5 Tray Cantilever Tool Box
MTB-5

General purpose cantilever tool box

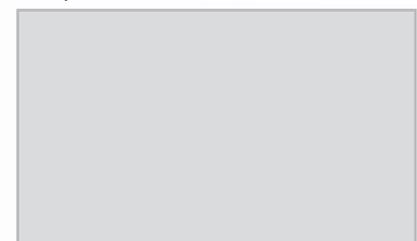
Manufactured from heavy gauge steel sheet

Corrosion resistant powder coated finish

Full spread cantilever mechanism gives quick & easy access to all stored parts

Trays open automatically when handle is depressed & close when lifted

Lid incorporates provision for padlock


NEW!
Full spread cantilever mechanism

ORDERING INFORMATION

CAT NR.	DIMENSIONS		BOX QTY.
	(inch)	(mm)	
MTB/5	17-5/10 x 7-7/8 x 7-7/8	440 x 200 x 200	1

FEATURES


181

5 Tray Cantilever Tool Box with Tools

MTB-5-AU

A set of carefully selected tools most commonly used in automotive workshops & service stations

Tool box manufactured from heavy gauge steel sheet

Rugged construction to withstand repeated use in tough conditions

NEW!



SPECIFICATIONS

CAT NR.	DESCRIPTION	DETAILS
MTB/5/84/AU	84 pcs tool assortment in metric sizes for use in automotive workshops & service stations	Allen Key Set: Size - 1.5-10 mm
		Double Open End Spanner Set: Size - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32
		Ring Spanner Set: Size - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32
		Pin Punch Set: Size - 1.5, 2.5, 3, 4 mm
		Screwdriver Set: Size - Flat blade 6.5 x 125 mm; 8 x 150 mm; Phillips blade 1 x 80 mm; 2 x 100 mm
		Insulation Pliers Set: - 7" Side Cutting Plier, 7" Long Nose Plier, 8" Combination plier
		Circlip Plier set: 6" (150mm) Bent external, Bent internal, Straight external, Straight internal
		Ball Pein Hammer: Head weight - 24oz., Handle length- 14"; Plastic mallet - 25mm
		Chisel - 1" (25 mm) blade width, 10" (250 mm) overall length
		Cat Bar - 16" (400 mm)
		5 Tray Cantilever Tool Box
		12" Hacksaw frame with bimetal blade
		1/2" Sockets & Accessories: Sizes - 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm normal socket. 10, 14, 17, 19, 22 Deep socket, Ratchet handle, Sliding T bar, L handle, Universal joints, Extension bars - 5" & 10", Spark plug sockets - 16 mm & 21 mm; Adaptors: 1/2 F x 3/4 M, 1/2 F x 3/8 M
		Feeler Gauge - 20 leaves, 150 mm
		10" (250 mm) Adjustable Wrench
		10" (250 mm) Water Pump Plier
		10" (250 mm) Locking Plier
Rust Preventive Lubricant Spray - GO20		
Retra Knife		

ORDERING INFORMATION

CAT NR.	IDEAL FOR	BOX QTY.
MTB/5/84/AU	workshops & service stations	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

A must for every mechanic!
NEW!
Rugged construction

Smart base plate design - light weight yet sturdy with weight distributed optimally for stability and durability

Machined and polished RAM with die cut threads that reduce wear and tear

Powder coated 2 piece lifting lever rod with a built-in T Slot for convenient opening & closing of pressure release valve

Longer wear life due to internally machined oil passages, smooth bearing surfaces and close tolerances.

Knurled heat treated saddle head with non-slip surface for stronger grip

100% factory tested

50% safety overload factor

Ideal for use on heavy duty trucks, agriculture, construction, mining, automotive, and marine applications where lifting, pushing, spreading, bending, pressing, or straightening are required.


FEATURES

STANDARD	FACTORY TESTED
ASME PALD 2009	100 %


ORDERING INFORMATION

CAT NR.	CAPACITY		LIFT RANGE		BOX QTY.
	(ton)	(kg)	(inch)	(mm)	
JACK/BT/4	4	3629	6-11/16 - 13	170 - 330	1
JACK/BT/12	12	10886	8-5/8 - 16-9/32	219 - 414	1
JACK/BT/20	20	18144	9-5/8 - 17-11/16	245 - 449	1
JACK/BT/32	32	29030	11-7/32 - 18-5/16	285 - 465	1
JACK/BT/50	50	45359	11-7/32 - 18-5/16	285 - 465	1

** Screw extension available only in 4Ton, 12Ton & 20Ton Models

183

Adjustable Tap & Reamer Wrenches

ARWR-SG

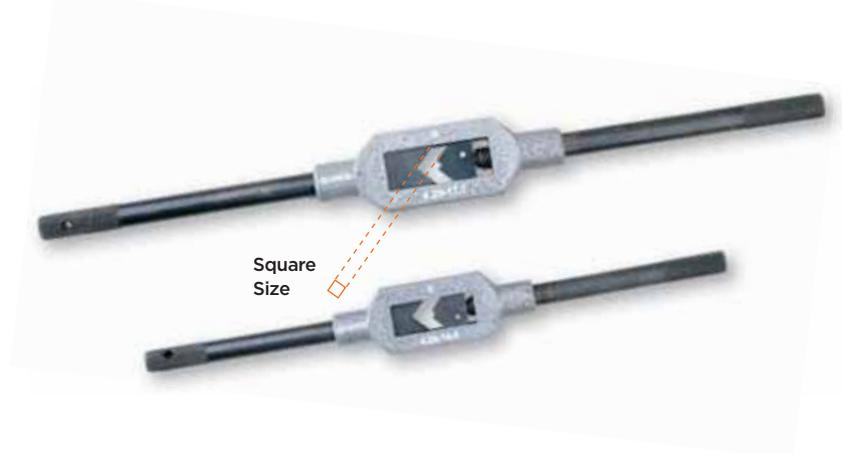
Virtually unbreakable construction for extra heavy duty application

The straight handle design of these tap wrenches provides greater leverage particularly used when working with large diameter taps

Nr. 00 is zinc die cast

Nr. 0, 5, 6 have forged steel body

Nr. 7 & 8 are cast for SG iron



ORDERING INFORMATION

CAT NR.	LENGTH		JAW HOLDING CAPACITY				BOX QTY.
			SQUARE SIZE		TAP SIZE		
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	
ARWR/SG/00	5-11/32	133	5/64 - 9/32	2.0 - 7.35	1/8 - 1/4	M1 - M6	20
ARWR/SG/0	8	200	3/32 - 1/2	2.5 - 12.0	1/8 - 3/8	M1 - M12	20
ARWR/SG/5	10.8	270	11/64 - 9/16	4.25 - 14.4	3/16 - 5/8	M4 - M16	10
ARWR/SG/6	14.8	370	11/64 - 11/16	4.25 - 17.7	3/16 - 7/8	M4 - M20	10
ARWR/SG/7	19.6	490	1/4 - 29/32	6.8 - 23.35	1/4 - 1.1/8	M6 - M30	10
ARWR/SG/8	29.6	740	3/8 - 1.13/32	9.2 - 36.0	1/2 - 1.3/4	M9 - M45	5


 INDUSTRIAL
EQUIPMENT

 LUBRICANTS &
PENETRANTS

 FLUID HANDLING
EQUIPMENT

184

Die Stock Holders Round Dies

DS

Die holders are used for holding round dies that are suited for efficient & clean cutting of external threads

Die holders have a rugged construction with heavy duty set screws that hold the die firmly in place

All steel construction with black powder coated body. Handles have knurled end with ends in black powder coated finish



ORDERING INFORMATION

CAT NR.	FOR DIES WITH OUTER DIAMETER	LENGTH	BOX QTY.
	(inch)	(inch)	
DS/13-16	13/16	6.1/2	5
DS/0-1	1	8.1/4	5
DS/1-5-16	1.5/16	10	5
DS/1-1-2	1.1/2	12.3/8	5
DS/0-2	2	15.3/8	5
DS/2-1-2	2.1/2	19	2
DS/0-3	3	22.1/2	2
DS/3-1-2	3.1/2	29.3/4	2
DS/0-4	4	33	2

 PRECISION ENGINEERING
EQUIPMENT

 PROFESSIONAL
HAND TOOLS

 LED
WORK LIGHTS

185

Tap Wrenches T Handle Type

TW

This range of tap wrenches are ideal for holding taps, reamers, screw extractors and other such small hand turned tools. All wrenches have a sliding T handle frictionally held, that allows these tap wrenches to be used even in confined spaces

These are available in two types:
a. Regular T Handle Type
b. Ratchet Type



REGULAR T HANDLE TYPE
Self-centering hardened steel jaws provide a positive grip on taps, reamers and other such small tools



RATCHET TYPE
These tap wrenches have self centering hardened steel jaws and knurled chuck sleeve, which provide positive grip on taps, reamers and other such small tools. The ratchet can be set left or right, or direct engagement in neutral position. This feature allows them to be used in confined areas with ease

ORDERING INFORMATION

CAT NR.	JAW HOLDING CAPACITY				BOX QTY.
	SQUARE SIZE		TAP SIZE		
	(inch)	(mm)	(inch)	(mm)	
REGULAR					
TW/3-16	5/64 - 5/32	2.0 - 4.0	1/16 - 3/16	M2 - M5	10
TW/1-4 SPL	5/64 - 13/64	2.0 - 5.0	1/16 - 1/4	M2 - M6	10
TW/1-4	1/8 - 13/64	3.15 - 5.0	5/32 - 1/4	M4 - M6	10
TW/5-16	5/32 - 1/4	4.0 - 6.3	3/16 - 5/16	M5 - M8	10
TW/1-2	13/64 - 5/16	5.0 - 8.0	1/4 - 1/2	M6 - M10	10
RATCHET					
TW/R/1-4	7/64 - 7/32	2.6 - 5.5	5/32 - 1/4	M4 - M6	5
TW/R/5-16	3/16 - 5/16	4.6 - 8	1/4 - 1/2	M6 - M12	5

186

Tap & Die Set

TDE

Complete range of most popular threading tools
41 Pc Metric Set. Range 3 mm - 12 mm
Taps & Dies are made from carbon steel
Packed in a easy to carry & store blow moulded case

Constituents include:

- T Handle Tap Wrench M2-M6 (TW/1-4/SPL)
- T Handle Tap Wrench M6-M10 (TW/1-2)
- Bar Type Tap Wrench M1-M12 (ARWR/SG/O)
- Die Holders for Round Dies of dia 13/16", 1" & 1.1/2"
- Thread Pitch Gauge - 16 leaves 0.35 mm - 3 mm
- 17 individual hand taps and round dies in sizes:

3.00 - 0.50 mm	9.00 - 1.00 mm
4.00 - 0.70 mm	9.00 - 1.25 mm
4.00 - 0.75 mm	10.00 - 1.25 mm
5.00 - 0.80 mm	10.00 - 1.50 mm
5.00 - 0.90 mm	11.00 - 1.50 mm
6.00 - 1.00 mm	12.00 - 1.50 mm
7.00 - 1.00 mm	12.00 - 1.75 mm
8.00 - 1.00 mm	1/8" - 28 BSP
8.00 - 1.25 mm	



ORDERING INFORMATION

CAT NR.	BOX QTY.
TDE/41/M/ST	1

187

Professional Mechanic's Bench Vices

BV

Rigid & Robust Vices designed for smooth operation & Reliability

Manufactured from high quality grey iron castings very strong material with excellent shock absorbing capacity and immense strength under compression

Steel jaw are hardened 45 ± 5 HRC for increased resistance to wear

Knurling on the jaw ensures a firm grip of the work piece

Perfect alignment of main screw & nut reduces wear giving long trouble free service

High tolerance machining. Smooth one finger operation

The unbreakable SG Iron nut securely locked in the body ensures max. thread surface contact and constant alignment between the body & the jaws



ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	NET WT.	BOX QTY.
	(mm)	(mm)	(kg)	
BV/F/75	75	100	5.5	4
BV/F/100	100	125	9.7	3
BV/F/125	125	150	14.7	2
BV/F/150	150	175	18.2	1
BV/F/200	200	200	30.40	1

FEATURES

TENSILE STRENGTH	NO HAMMERING
20,000 PSI (1400 KGF/cm ²)	

188

Engineer's Steel Bench Vices

EBV

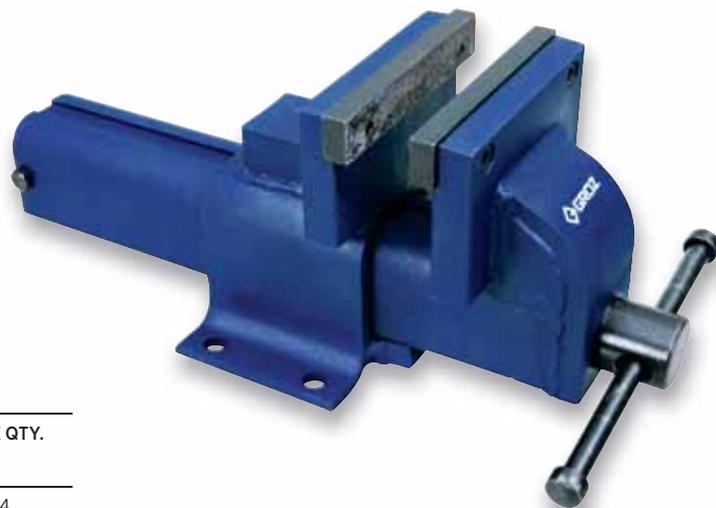
With an all steel construction, these fixed base vices are built to withstand the shocks of hammering, chipping and other tough application

Integrated anvil for shaping & beating

Forged Tommy Bars along with the steel main screw helps in effective transmission of pressure on the work piece

Carbon steel jaws are hardened 50 ± 5 HRC to withstand tough use and are serrated for non slip grip

Used for hammering, chipping and other tough application



ORDERING INFORMATION

CAT NR.	JAW WIDTH	JAW OPENING	NET WT.	BOX QTY.
	(mm)	(mm)	(kg)	
EBV/F/100	100	120	6.3	4
EBV/F/150	150	150	18.0	1
EBV/F/200	200	200	37.5	1
EBV/F/250	250	250	43.0	1
EBV/F/300	300	300	46.5	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

189
**G Clamps
SG Iron**
GCL

Best selling clamps made from 60,000 PSI S.G. iron

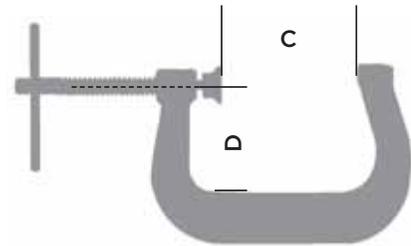
2 times as strong compared to most other cast clamps

High strength spindle with broad steel swivel pad

For general purpose clamping in metal & woodworking


ORDERING INFORMATION

CAT NR.	CAPACITY (C)	THROAT DEPTH (D)	FRAME PROOF LOAD	BOX QTY.
	(mm)	(mm)	(kg)	
GCL/13D/50	50	42	363	20
GCL/13D/75	75	44	455	20
GCL/13D/100	100	59	545	20
GCL/13D/150	150	75	635	15
GCL/13D/200	200	80	775	8
GCL/13D/250	250	90	1000	8
GCL/13D/300	300	100	1135	8


190
**Steel Stamps
Numbers & Letters**
NP
LP

Manufactured from select quality carbon steel, for hand held, hammer struck applications

Induction hardened for durability & extended Life

Stamping end is hardened 58-62 HRC

Striking end tempered 38-43 HRC - prevents splintering

Striking end is chamfered to prevent breakage & accidents due to flying splinters



Number Stamp Set:
Contains 9 pcs.
'0-9'. Numbers 6 & 9 are inter changeable

Letter Stamp Set:
Contains 27 pcs
'A-Z and '&'

ORDERING INFORMATION

CAT NR.	CAT NR.	STAMP SIZE (mm)	BOX QTY.
NUMBER STAMPS	LETTER STAMPS		
NP/1	LP/1	1	10
NP/2	LP/2	2	10
NP/3	LP/3	3	10
NP/4	LP/4	4	10
NP/5	LP/5	5	10
NP/6	LP/6	6	10
NP/8	LP/8	8	10
NP/10	LP/10	10	4
NP/12	LP/12	12	4

191

Centre Punches

CP

Manufactured from selected carbon steel

Accurately hardened tempered for continuous trouble free usage

Clean & well cut knurling provides a positive finger grip

Rust inhibiting black oxide finish

Working tips centered & ground to 90° included angle

Overall Length: 4" (100 mm)



ORDERING INFORMATION

CAT NR.	POINT SIZE		BODY DIAMETER		BOX QTY.
	(mm)	(inch)	(mm)	(inch)	
CP/5-64	2	5/64	8	5/16	20
CP/5-32	4	5/32	10	3/8	20
CP/1-4	6	1/4	11	7/16	25

192

Automatic Centre Punch

ACP

Automatic Centre Punch is used for marking centre holes for drilling in layout work . The built-in spring loaded mechanism delivers a punch just by pressing the head.

Depth of impression is variable & can be adjusted by turning the knurled head.

Round shank with clean & well cut knurling for non-slip grip

Tips are made from hardened tool steel 52-58 HRC and can be conveniently removed for re-sharpening or replacement



ORDERING INFORMATION

CAT NR.	BODY DIAMETER	OVERALL LENGTH	BOX QTY.
	(mm)	(mm)	
ACP/1B	13	120	25

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

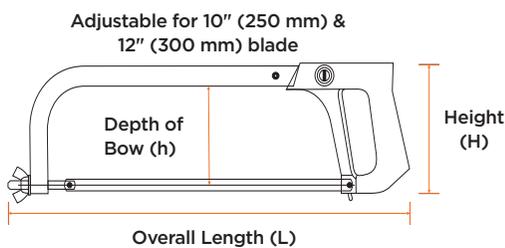
193
**Handyman's
Hacksaw**
HF-15

General purpose tubular hacksaw suitable for straight & 90° sawing. Lightweight for overhead cutting or use from a ladder

Strong Aluminium die cast handle - Provides a comfortable grip & directs pressure in the correct line of thrust for maximum efficiency

Adjustable for 10" & 12" blades.

Handy Storage compartment in the tubular bow for storing spare blades. Supplied complete with a 12" chrome alloy steel blade


ORDERING INFORMATION

CAT NR.	OVERALL LENGTH (L)	HEIGHT (H)	DEPTH OF BOW (h)	BOX QTY.
	(mm)	(mm)	(mm)	
HF/15/BS	430	130	106	12

FEATURES
**TENSILE
STRENGTH**

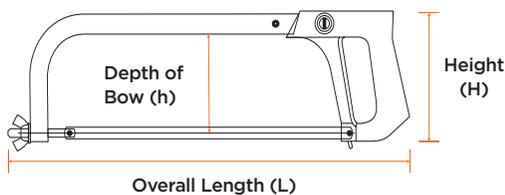
6,000 PSI
194
**Hacksaw Frame
Professional**
HF-12

Rugged heavy duty industrial quality hacksaw frame designed for the professional with guarded grip design

Strong aluminium die cast handle for comfort & control

Easy to use blade tensioning device to set the blade correctly

Supplied complete with 12" chrome alloy steel blade


ORDERING INFORMATION

CAT NR.	FINISH	OVERALL LENGTH (L)	HEIGHT (H)	DEPTH OF BOW (h)	BOX QTY.
		(mm)	(mm)	(mm)	
HF/12/RB	Black frame with red handle	440	130	103	10
HF/12/BC	Chrome plated frame with blue handle	440	130	103	10

FEATURES
**TENSILE
STRENGTH**

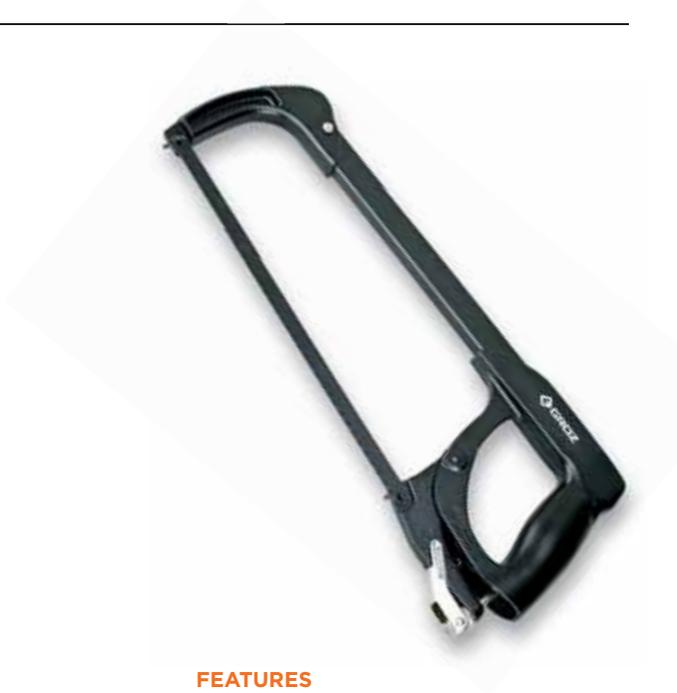
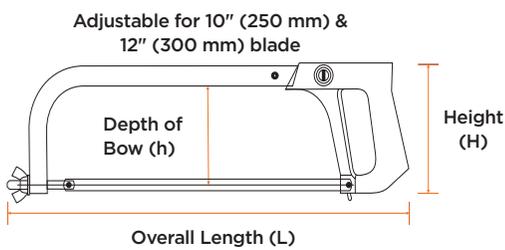
8,000 PSI

195

Adjustable Tension Hacksaw

HF-40

World's strongest & fastest cutting hacksaw frame
 Adjustable tension lever builds 30,000 PSI in 12 turns
 Tubular frame with aluminium die cast handle & end
 Adjustable for 10" & 12" blades, 12" blade included



ORDERING INFORMATION

CAT NR.	OVERALL LENGTH (L)	HEIGHT (H)	DEPTH OF BOW (h)	BOX QTY.
	(mm)	(mm)	(mm)	
HF/40/BL	425	165	100	20

FEATURES



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

196

Chrome Steel Hacksaw Blades

HB-C

Manufactured from high grade Chrome alloy steel
 Useful for light & medium sawing applications
 Available in 12" (300 mm) length in 18 & 24 TPI
 Sold as a set of 10 blades or 100 blades



ORDERING INFORMATION

CAT NR.	LENGTH	TPI	PACK SIZE	BOX QTY.
	(mm)			
HB/C/03/ST	300	18	10 Blades	10
HB/C/04/ST	300	24	10 Blades	10
HB/C/03/ST100	300	18	100 Blades	1
HB/C/04/ST100	300	24	100 Blades	1

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

197

Bi - Metal Hacksaw Blades

HB-BM

HB-BC

Super efficient, shatterproof bimetal blades for superior cutting performance, wear resistance & safety. Ideal for use on tough materials

Blades comprise of a high speed steel cutting edge electron beam welded to a tough spring steel back. Bimetal construction provides optimum tool life, together with high resistance to breakage

The high speed steel cutting edge with well formed tooth profile is precisely milled, hardened & tempered providing quicker, cleaner & efficient cuts

6 teeth chip removal cycle & individual tooth setting, promises nearly 30% more cutting power, cleaner cutting & also prevents teeth from binding in with material being cut

These blades come in two variants:

a. Bimetal (M2) - HSS

Hardened to 55-57 HRC; these are very useful for cutting alloy and stainless steels

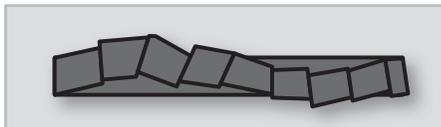
b. Bimetal 8% Cobalt - HSS

Addition of Cobalt enhances the hardness of these blades to 66-68 HRC, thus providing higher wear resistance. Very useful for Nickel based alloys, high hardness steels & other solids

Blade Width: 1/2" (12.5 mm)
Blade Thickness: 0.025" (0.63 mm)



Flexible, shatter proof blades - for quick, clean & safe usage even on tough materials



Wavy Teeth Pattern with 6 teeth chip removal cycle



Bimetal HSS Hacksaw Blades



Bimetal 8% Cobalt HSS Hacksaw Blades

ORDERING INFORMATION

CAT NR.	LENGTH (CENTRE TO CENTRE)		TPI	BOX QTY.
	(inch)	(mm)		
BIMETAL - HSS				
HB/BM/12/18/ST-100	12	300	18	1
HB/BM/12/24/ST-100	12	300	24	1
BIMETAL 8% COBALT - HSS				
HB/BC/12/18/ST-100	12	300	18	1
HB/BC/12/24/ST-100	12	300	24	1

198 Retractable Cartridge Multi Bit Screwdrivers - Retra Drive RD-SD



Retractable Bit Cartridge - Makes it easy to find, store and change Bits

Specially designed Palm Saver Cap prevents blisters in the palm of your hand. Cap does not turn as you push on the cap and turn the handle

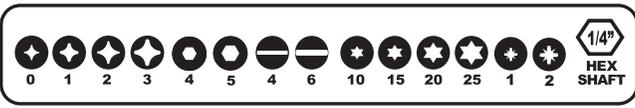
Easy Guide Collar provides greater control by maintaining full contact between the Bit and the Screw

Specially Engineered ABS resin handle

Industrial grade S2 modified steel bits with Rockwell Hardness 58-62

15 IN 1 STANDARD

All purpose bit load driver loaded with 7 double ended professional quality S2 Steel Bits



13 IN 1 28-TOOTH SOLID CORE RATCHET

Features ZAD 8 Zinc Alloy SOLID-CORE Ratchet that delivers over 25 Nm of Torque Strength. Precision 28 Tooth Ratchet Design makes driving fasteners faster and easier



ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
RD/SD/2	Standard	6
RD/SD/7R	Ratcheting	6



RD/SD/2



RD/SD/7R

TYPE	RD/SD/7R	RD/SD/2
	13 IN 1 RATCHETING	15 IN 1 STANDARD
Phillips 0-3	Y	Y
Phillips 1-2	Y	Y
Hex 4-5		Y
Pozi 1 x 2	Y	Y
Flat / Slotted 4-6	Y	Y
Torx 10-15	Y	Y
Torx 20-25	Y	Y

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

199
**Retra
Knife**
KNV/R/6
NEW!


Heavy duty Retractable knife for continuous, non-stop usage

Rugged Zinc alloy body for prolonged tool life

Quick change blade operation

1. Simply press quick release button to slide out used blade
2. Load new blade with a squeeze of the lever

SK 2 carbon steel blades are accurately hardened & have superior edge retention to handle tough cutting jobs with ease.

Each blade can be used twice. When blunt, simply pull out blade, invert it & re-install. Knife is ready to use again

In-built storage compartment that can store up to 6 spare blades (included) gives convenient access to new blades

Ergonomic TPR handle with thumb groove for improved grip & ease of use

Suitable for cutting plastic, rubber, wood, gaskets, cardboard, fibre etc.

Blades available as spares as set of 12



Squeeze lever to load blade



When blunt, simply pull out blade, invert it & re-install



Quick release button to slide out used blade



Storage compartment for storing 6 spare blades



Squeeze lever again to load new blade

ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
KNV/R/6	Knife	6
SPARE BLADES		
BLD/KNV/R/ST12	Set of 12 Blades	10

FEATURES

OVERALL LENGTH	BLADE THICKNESS
6-3/4" (170 MM)	.02" (0.6 MM)

6

LED

WORK LIGHTS

From site lighting for construction workers, inspection lights for the workshops to torches & headlights - we have a wide range of lighting solutions for professionals & home users

NEW PRODUCTS TO LOOK OUT FOR

173  LED 15W 'Super Cool' Floodlight	176  LED 45W Floodlight	178  LED 132W Light Bar	181  LED 9W Rechargeable Site Lamp
174  LED 18W Floodlight	177  LED Light Bar	180  LED 15W Portable Lamp with Magnetic Base	182  LED 9W Rechargeable Site Lamp with Magnetic Base

200 LED 15W Floodlight

LED-501
LED-502

15W floodlight with aluminium die cast housing in premium powder coated finish & stainless steel bracket

Powerful 5 LED's of 3W each with a light output of 900 lumens

Power Source:
12V DC - 36V DC

Current Draw: 1.0 amp at 12V & 0.50 amp at 24V

Square Construction:
3-11/32" (85 mm) x 3-11/32" (85 mm) x 1-3/8" (35 mm)

Water & Dust Proof Rating:
IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Comes complete with 20" (500 mm) DC power cord

Ideal for outdoor use on construction equipment, tractors, farm machinery, service vans, emergency vehicles etc.

Available as single or set of two


LED/501
FEATURES

LUMEN	POWER SOURCE
 900	 12V DC - 36V DC
WATER & DUST PROOF RATING	OPERATING TEMPERATURE
IP67	-20°C TO 45°C (-4°F TO 113°F)


ORDERING INFORMATION

CAT NR.	DESCRIPTION	BOX QTY.
LED/501	Single Piece	1
LED/502	Set of Two	1

201

**LED 15W
'Super Cool' Floodlight**

LED-520

NEW!

15W floodlight with aluminium die cast housing in premium powder coated finish & stainless steel bracket

Tight rubber sealing prevents ingress of dust and moisture

Powerful 5 LED's of 3W each with a light output of 1050 lumens

Power Source:
12V DC - 60V DC

Current Draw: 1.5 amp at 12V & 0.5 amp at 60V

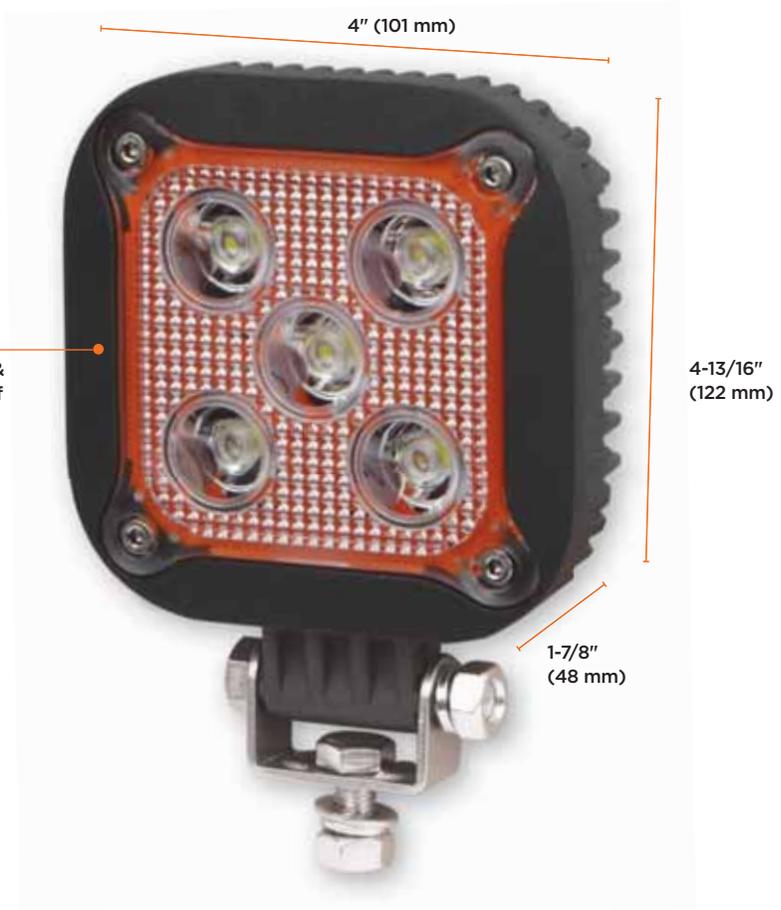
Square Construction:
4" (101 mm) wide x 4-13/16" (122 mm) high x 1-7/8" (48 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating:
IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Ideal for outdoor use on construction equipment, tractors, farm machinery, service vans, emergency vehicles etc.

Moisture & dust proof rubber sealing



FEATURES

LUMEN	POWER SOURCE	
	12V DC - 60V DC	
WATER & DUST PROOF RATING	OPERATING TEMPERATURE	MOISTURE & DUST PROTECTION
IP67	-20°C TO 45°C (-4°F TO 113°F)	



ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/520	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

18W floodlight with aluminium die cast housing in premium powder coated finish & stainless steel bracket

Tight rubber sealing prevents ingress of dust and moisture

270° rotation

Powerful 6 LED's of 3W each with a light output of 1200 lumens

Power Source:
12V DC - 60V DC

Current Draw: 2.0 amp at 12V & 0.50 amp at 60V

Rectangular Construction:
4-9/32" (109 mm) wide x 5" (127 mm) high x 1-21/32" (42 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating:
IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Ideal for outdoor use on construction equipment, tractors, farm machinery, service vans, emergency vehicles etc.

NEW!
CREE 

FEATURES

LUMEN	POWER SOURCE
 1200	 12V DC - 60V DC
WATER & DUST PROOF RATING	OPERATING TEMPERATURE
IP67	-20°C TO 45°C (-4°F TO 113°F)

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/530	1

203

LED 27W Floodlight

LED-511

27W floodlight with aluminium die cast housing in premium powder coated finish & stainless steel bracket

Powerful 9 LED's of 3W each with a light output of 1600 lumens

Power Source:
12V DC - 36V DC

Current Draw: 1.8 amp at 12V & 0.6 amp at 36V

Square Construction:
4-9/16" (116 mm) wide x 4-1/4" (108 mm) high x 2-15/32" (63 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof rating:
IP68 (Dust tight & protected against effects of water immersion under pressure)

Ideal for outdoor use on construction equipment, tractors, farm machinery, service vans, emergency vehicles etc.



FEATURES

LUMEN	POWER SOURCE
 1600	 12V DC - 36V DC
WATER & DUST PROOF RATING	OPERATING TEMPERATURE
IP68	-20°C TO 45°C (-4°F TO 113°F)



ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/511	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

45W floodlight with aluminium die cast housing in premium powder coated finish & stainless steel bracket

Powerful 15 LED's of 3W each with a light output of 2300 lumens

Power Source:
12V DC - 36V DC

Current Draw: 4 amp at 12V & 1.5 amp at 36V

Rectangular Construction:
6-7/32" (158 mm) wide x 3-13/16" (97 mm) high x 3-3/32" (79 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating:
IP65 (Dust Tight & protected from low pressure jets from any directions)

Ideal for outdoor use on construction equipment, tractors, farm machinery, service vans, emergency vehicles etc.

NEW!

FEATURES

LUMEN	POWER SOURCE
 2300	 12V DC - 36V DC
WATER & DUST PROOF RATING	OPERATING TEMPERATURE
IP65	-20°C TO 45°C (-4°F TO 113°F)


ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/540	1

205 LED 36W Light Bar

LED-700

36W Light bar with Aluminium extruded housing in premium powder coated finish

Powerful 12 LED's of 3W each with a light output of 2200 lumens

Power Source: 12V DC - 60V DC

Current Draw: 3.5 amp at 12V & 1 amp at 60V

Rectangular Construction: 8-1/4" (210 mm) wide x 4-17/32" (115 mm) high x 3-11/32" (85 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating: IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Ideal for use on roof top of ATV's, UTV's, trucks & SUV's

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/700	1

NEW!



FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
2200	12V DC - 60V DC	IP67	-20°C TO 45°C (-4°F TO 113°F)

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

206 LED 72W Light Bar

LED-710

72W Light bar with Aluminium extruded housing in premium powder coated finish

Powerful 24 LED's of 3W each with a light output of 4300 lumens

Power Source: 12V DC - 60V DC

Current Draw: 7 amp at 12V & 1.5 amp at 60V

Rectangular Construction: 14" (355 mm) wide x 4-17/32" (115 mm) high x 3-11/32" (85 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating: IP67 (Dust Tight & Protected against effects of water immersion up to 1 metre)

Ideal for automotive & mining applications. Used on ATV's, UTV's, trucks, SUV, dumpers, loaders, excavators etc.

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/710	1

NEW!



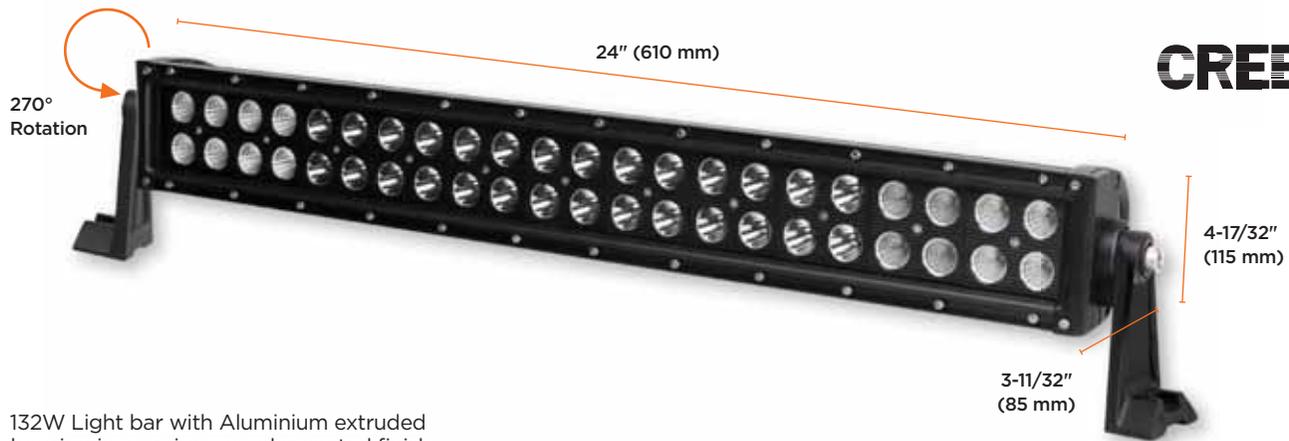
FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
4300	12V DC - 60V DC	IP67	-20°C TO 45°C (-4°F TO 113°F)

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

207
**LED 132W
Light Bar**
LED-720
NEW!
CREE 


132W Light bar with Aluminium extruded housing in premium powder coated finish

Powerful 44 LED's of 3W each with a light output of 6500 lumens

Power Source:
12V DC - 60V DC

Current Draw: 12 amp at 12V & 3 amp at 60V

Rectangular Construction:
24" (610 mm) wide x 4-17/32" (115 mm) high x 3-11/32" (85 mm) deep

Comes complete with 20" (500 mm) DC power cord

Water & Dust Proof Rating:
IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Ideal for use in mining application on trucks, dumpers, loader, excavators etc.


ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/720	1

FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
 6500	 12V DC - 60V DC	IP67	-20°C TO 45°C (-4°F TO 113°F)

208

**LED 27W
Site Lamp**

LED-601

27W Site lamp with aluminium die cast housing in premium powder coated finish

Portable powder coated free-standing steel stand with cushion grip & adjustable stainless steel bracket

Powerful 9 LED's of 3W each with a light output of 1600 lumens

Keeps work place cool as lights don't dispense heat

Power Source: 220V AC, 50 Hz. & 110V AC, 60 Hz.

Complete with 4m long power cord

Water & Dust Proof Rating: IP68 (Dust tight & protected against effects of water immersion under pressure)

Ideal for portable working in maintenance, building construction, temporary lighting jobs etc.



FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
1600	110V AC 220V AC	IP68	-20°C TO 45°C (-4°F TO 113°F)

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/601	1

INDUSTRIAL
EQUIPMENT

LUBRICANTS &
PENETRANTS

FLUID HANDLING
EQUIPMENT

209

**LED 54W
Site Lamp**

LED-611

54W Site lamp with aluminium die cast housing in premium powder coated finish

Portable powder coated tripod stand with separate adjustments for base, height (up to 1.5m) & each individual light

Powerful 9 LED's of 3W each in each housing with a total light output of 3200 lumens

Keeps work place cool as lights don't dispense heat

Power Source: 220V AC, 50 Hz. & 110V AC, 60 Hz.

Complete with 4m long power cord

Water & Dust Proof Rating: IP68 (Dust tight & protected against effects of water immersion pressure)

Ideal for portable working in maintenance, building construction, temporary lighting jobs etc.



FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
3200	110V AC 220V AC	IP68	-20°C TO 45°C (-4°F TO 113°F)

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/611	1

PRECISION ENGINEERING
EQUIPMENT

PROFESSIONAL
HAND TOOLS

LED
WORK LIGHTS

210
LED 15W Portable Lamp with Magnetic Base
LED-630

15W portable lamp with aluminium die cast housing in premium powder coated finish

Portable free standing base with powerful base magnet attaches conveniently to any metallic surface such as a vehicle etc.

5 LED's of 3W each with a light output of 900 lumens

Power Source:
12V DC - 36V DC

Current Draw: 1 amp at 12V & 0.5 amp at 36V

Complete with cigarette plug adaptor

Water & Dust Proof Rating:
IP67 (Dust tight & protected against effects of water immersion up to 1 metre)

Wire Length: 4 metres

Ideal portable work light for automobiles

NEW!

FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	OPERATING TEMPERATURE
 900	 12V DC - 36V DC	IP67	-20°C TO 45°C (-4°F TO 113°F)

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/630	1

211
LED 15W Rechargeable Site Lamp
LED-620

15W Rechargeable site lamp with aluminium die cast housing in premium powder coated finish

Portable free standing heavy base with powerful base magnet

32.6WH Rechargeable Lithium Ion Battery

Complete with dual voltage AC power adaptor and an additional 12/24 V DC adaptor

Power Source: 220V AC, 50 Hz. & 110V AC, 60 Hz.

Run Time: 4 hours with a single full charge

Charge Time: 7.5 hours

Keeps work place cool as lights don't dispense heat

Wire Length: 1.2 metres

Water & Dust Proof Rating: IP65 (Dust tight & protected against low pressure water jets)

Ideal for portable working in maintenance, building construction, temporary lighting jobs etc.


FEATURES

LUMEN	POWER SOURCE	WATER & DUST PROOF RATING	RUN TIME	OPERATING TEMPERATURE
 900	 110V / 220V AC 12V / 24V DC	IP65	 4 H	-10°C TO 45°C (14°F TO 113°F)

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/620	1

212

**LED 9W
Rechargeable Site Lamp**

LED-640

NEW!

9W Rechargeable site lamp with aluminium die cast housing in premium powder coated finish

Portable LED lights with free standing heavy base

3.7V (6600 mAH), 24.42 WH Rechargeable Lithium Ion Battery

270° rotation

Complete with USB charging cable compatible with phone charger adaptor

Run Time: 4 hours with a single full charge

Charge Time: 8-10 hours

Dual Colour Lamp:
Amber/White

Comes complete with 24" (600 mm) DC power cord

Water & Dust Proof Rating:
IP65 (Dust Tight & protected from low pressure jets from any directions)

Ideal for portable working in maintenance, building construction, temporary lighting jobs etc.



FEATURES

LUMEN	POWER SOURCE
 500	 5V DC
WATER & DUST PROOF RATING	RUN TIME
IP65	 4 H
OPERATING TEMPERATURE	
-10°C TO 45°C (14°F TO 113°F)	



Charge your lamp using laptop

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/640	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

213
LED 9W Rechargeable Site Lamp with Magnetic Base
LED-650
NEW!

9W Site lamp with aluminium die cast housing in premium powder coated finish'

Portable LED lights with free standing magnetic base

3.7V (6600 mAh), 24.42 WH Rechargeable Lithium Ion Battery

270° rotation

Comes complete with USB charging cable compatible with phone charger adaptor

Run Time: 4 hours with a single full charge

Charge Time: 8-10 hours

Dual Colour Lamp:
Amber/White

Comes complete with 24" (600 mm) DC power cord

Water & Dust Proof Rating:
IP65 (Dust Tight & protected from low pressure jets from any directions)

Ideal for portable working in maintenance, building construction, temporary lighting jobs etc.


FEATURES

LUMEN	POWER SOURCE
 500	 5V DC
OPERATING TEMPERATURE	
-10°C TO 45°C (14°F TO 113°F)	
WATER & DUST PROOF RATING	RUN TIME
IP65	 4 H



Charge your lamp using laptop

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/650	1

214

LED 60 SMD Rechargeable Work Light

LED-340

Rugged, **unbreakable** construction with light weight yet strong aluminium tubing & TPR handle

60 SMD produce a super bright work light (350 lumens)

Includes two rotating hooks with ratchet movement & an additional hook with magnet that attaches to any metallic surface for hands free use

Dual Voltage AC charger for use with 220V AC, 50 Hz & 110V AC, 60 Hz

Rechargeable 3.7V, 4000 mAh Lithium Ion Battery

Charge Time: 4 hours

Water & Dust Proof Rating: IP42

Use time with a single full charge: Up to 5 hours

Ideal for use in machinery repair, testing, automotive jobs etc.

FEATURES

LUMEN	POWER SOURCE
350	110V AC 220V AC
RUN TIME	WATER & DUST PROOF RATING
5 H	IP42

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/340	1



INDUSTRIAL EQUIPMENT
LUBRICANTS & PENETRANTS
FLUID HANDLING EQUIPMENT

215

LED 200 SMD Rechargeable Underhood Work Light

LED-350

Underhood Worklight with Aluminium Tubing & TPR handle

200 SMD produce a super bright work light (1000 lumens)

Includes 2 retractable & rotating cushion grip clamps which allow the light to be fitted in any direction on hoods of light, medium & heavy automobiles

Retraction allows the light to expand from 47" (1194 mm) wide to 76" (1930 mm) wide

Dual voltage AC charger for use with 220V AC, 50 Hz. & 110V AC, 60 Hz.

Rechargeable 3.7V, 8000 mAh Lithium Ion Battery

Water & Dust Proof Rating: IP42

Charge Time: 4.5 Hours

Use Time with a single full charge: Up to 2.45 Hours

Ideal for use on automobiles, construction sites, repair work etc.

FEATURES

LUMEN	POWER SOURCE
1000	110V AC 220V AC
RUN TIME	WATER & DUST PROOF RATING
2.45 H	IP42

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/350	1



PRECISION ENGINEERING EQUIPMENT
PROFESSIONAL HAND TOOLS
LED WORK LIGHTS

High quality aluminium work light in anodized finish

Multiple Usage: Can be used as a work light, flashlight or emergency light

18 super Bright LED's on the side produce very bright light (28 lumens) for use in machinery repair, tool setting, automotive jobs etc.

Additional 7 LED's on the top for use as a flashlight (18 lumens)

6 Red LED's on the side flash for signalling Emergency

Magnet built into the base allows the light to attach to any metallic surface for hands free use

Additional hang rope for ease of installation

Water Proof Rating: IPX4
(Protection against splashing water)

Ready to use, supplied complete with 3 AAA Batteries



7 LED's on top for use as Flashlight



Magnetic attachment for hands free use



FEATURES

LUMEN	BATTERY INCLUDES	WATER PROOF RATING
 28	3 AAA	IP X 4



ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/301	1

217

LED Dry Cell Inspection Lamp

LED-320

Inspection Lamp with impact resistant rubberized casing

24 Super bright LED's produce a very bright light (48 lumens)

Magnet built into the back allows the light to attach to any metallic surface for hands free use

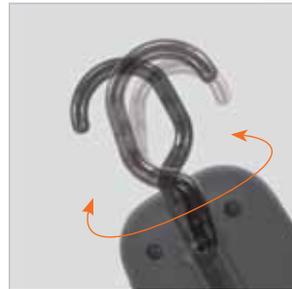
Additional 360° swivel hook for ease of installation

For use in machinery repair, tool setting, automotive jobs etc.

Ready to use, supplied complete with 3 AA batteries

FEATURES

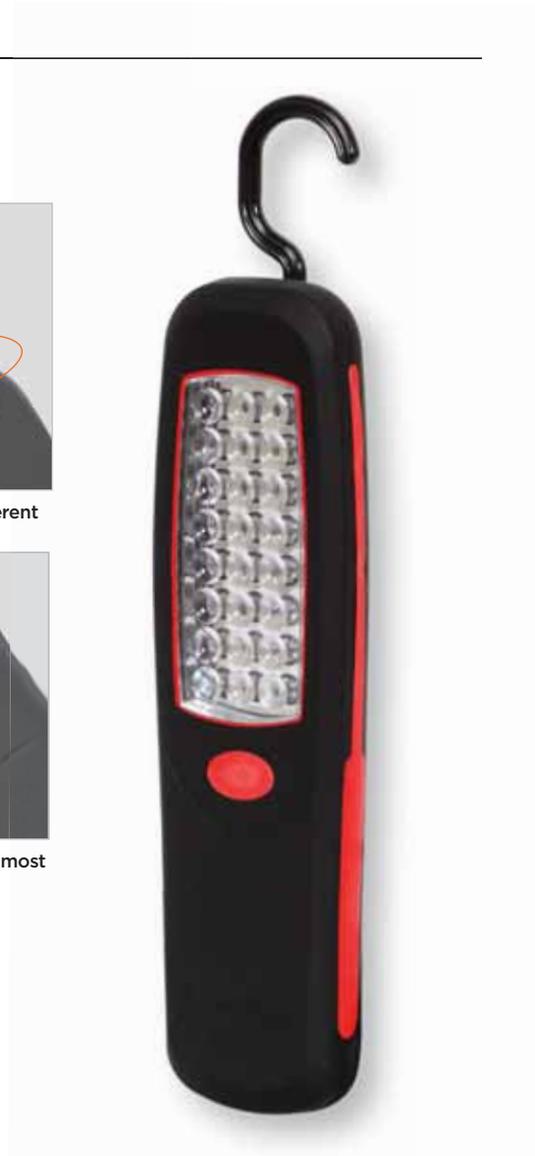
LUMEN	BATTERY INCLUDES
 48	3 AA



Swivel hook adjusts to different angles



Strong magnet attaches to most metal surfaces



INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS



ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/320	1

218
**LED 3W
Rechargeable Spotlight**
LED-401

Super bright LED spot light with extra power CREE 3W LED (270 lumens)

Impact resistant rubberised ABS body with self locking switch

Beam Distance: 500 metres

Includes dual voltage AC charger for use with 220V AC, 50 Hz. and 110V AC 60 Hz. Also includes an additional 12V DC Car Charger

Rechargeable 3.7V 2000 mAh Lithium Ion Battery

Water & Dust Proof Rating: IP20

Charge Time: 8 hours

Use Time with a single full charge: Up to 2 hours

Ideal for vehicle breakdowns, under the hood & under the vehicle inspection, security etc.

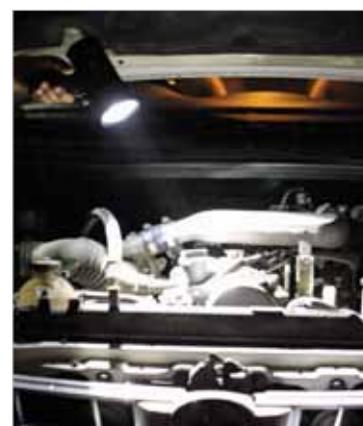
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CE

FEATURES

LUMEN	POWER SOURCE	RUN TIME
 270	 110V AC 220V AC	 2 H
BEAM DISTANCE	WATER & DUST PROOF RATING	
 500 M	IP20	

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/401	1



219

LED 3W Professional Head Light

LED-200

Super bright LED head light with extra power CREE Q5 3W LED (120 lumens)

ABS body with machined aluminium lens holder

Built In Zoom feature with magnification from 1X to 2000X

Beam Distance: 120 meters

Adjustable head positioning with foam pad to prevent chafing to the forehead

3 Modes: Low, High & Flash

Ideal for hands free work in automotive, plant maintenance, construction sites, mining etc.

Ready to use, supplied complete with 3 AAA batteries that last up to 5 hours of continuous use



FEATURES

LUMEN	BEAM DISTANCE	ZOOM
 120	 120 M	 1X TO 2000X
RUN TIME	BATTERY INCLUDES	
 5 H	3 AAA	



ORDERING INFORMATION

CAT NR.	BOX QTY.
LED-200	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

220
**LED 3W Professional Head Light
(With Built in Hand Sensor)**
LED-205

Super bright LED head light with extra power CREE X PE 3W LED (120 lumens)

Option to switch On/Off through hand sensor

ABS body

Built In Zoom feature

Beam Distance: 100 metres

3 Modes: 3W LED On, 5 mm LED On, & 5 mm LED Flash

Ideal for hands free work in automotive, plant maintenance, construction sites, mining etc.

Ready to use, supplied complete with 3 AAA batteries that last up to 6 hours of continuous use




ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/205	1

FEATURES

LUMEN	BEAM DISTANCE	RUN TIME	BATTERY INCLUDES
 120	 100 M	 6 H	3 AAA

221
LED Head Light
LED-210

Bright LED head light with 8 White LED's (12 lumens) & 1 Red flashing LED

ABS body with rubberized lens holder

Adjustable head positioning with foam pad to prevent chafing to the forehead

Beam Distance: 10 metres

3 Modes: 8 White LED, 1 Red LED, 1 Red Flashing LED

Ideal for hands free work in automotive, plant maintenance, construction sites, mining etc.

Ready to use, supplied complete with 1 AA battery that lasts up to 7 hours of continuous use


ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/210	1

FEATURES

LUMEN	BEAM DISTANCE	RUN TIME	BATTERY INCLUDES
 12	 10 M	 7 H	1 AA

222

LED Flashlight with Telescopic Magnetic Pick Up

LED-130

Machined high quality aluminium flashlight that doubles as a magnetic pick-up tool

Unique flexible telescopic design that extends from 6-11/16" (17 cm) to 21-21/32" (55 cm)

3 LED's in the front with an 8 lumen rating helps to reach out in dark areas

Magnet built into the front end allows for easy pick-up of light metallic parts

Ideal for picking up metallic objects in hard to reach & dark places

Ready to use, supplied complete with 4 x 1.5 LR44 batteries

Includes pocket clip



Built-in magnet for easy picking up of light metallic parts

FEATURES

LUMEN	BATTERY INCLUDES
8	4 1.5 LR44

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/130	1

INDUSTRIAL EQUIPMENT

LUBRICANTS & PENETRANTS

FLUID HANDLING EQUIPMENT

PRECISION ENGINEERING EQUIPMENT

PROFESSIONAL HAND TOOLS

LED WORK LIGHTS

223

LED Flashlight

LED-100

High quality aluminium flashlight with laser pointer

2 Modes: 8 white LED flashlights with an 18 lumen rating & 1 red laser pointer

Beam Distance: 20 metres

Ideal tool box accessory for maintenance professionals, mechanics, drivers, supervisors etc.

Supplied complete with 3 AAA batteries that last upto 5.5 hours of continuous use



FEATURES

LUMEN	BEAM DISTANCE	RUN TIME	BATTERY INCLUDES
18	20 M	5.5 H	3 AAA

ORDERING INFORMATION

CAT NR.	BOX QTY.
LED-100	1

224
**LED UV
Inspection Light**
LED-120

Machined high quality aluminium 9 LED UV flashlight

Emits long wave ultraviolet light at a wavelength of 385 Nm. It is powerful enough to make gems and minerals fluorescent even in normal room lighting

Designed for leak detection, glass repair, oil-mining, mineralogy, archaeology, surveillance, chemical probe testing, security inks, document checking, biology, medical applications, chemistry, food checking, water pollution detection etc.

Ready to use, supplied complete with 3 AAA batteries


ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/120	1

FEATURES

BATTERY
INCLUDES

3
AAA

225
**Aluminium
Mini Flashlights**
LED-110

High quality aluminium flashlights with a soft rubber grip & belt clip

Beam Distance: 30 metres

Ideal for maintenance professionals, mechanics, drivers, supervisors etc.

Ready to use, supplied complete with 2 AA & 8 button batteries

Sold as a set of 4


ORDERING INFORMATION

CAT NR.	BOX QTY.
LED/110	1

FEATURES

LUMEN	BEAM DISTANCE	RUN TIME	BATTERY INCLUDES
 35	 30 M	 3 H	2 + 8 AA + BUTTON

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STANDARD INDUSTRIAL CONVERSIONS

DECIMAL EQUIVALENTS

DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES
---	0.10	0.0039	46	2.06	0.0810	6	5.18	0.2040	---	11.00	0.4331
---	0.20	0.0079	45	2.08	0.0820	5	5.22	0.2055	7/16	11.11	0.4375
---	0.25	0.0098	44	2.18	0.0860	4	5.31	0.2090	29/64	11.51	0.4531
---	0.30	0.0118	43	2.26	0.0890	3	5.41	0.2130	15/32	11.91	0.4688
80	0.34	0.0135	42	2.37	0.0935	7/32	5.56	0.2188	---	12.00	0.4724
70	0.37	0.0145	3/32	2.38	0.0938	2	5.61	0.2210	31/64	12.30	0.4844
1/64	0.40	0.0156	41	2.44	0.0960	1	5.79	0.2280	1/2	12.70	0.5000
78	0.41	0.0160	40	2.49	0.0980	A	5.94	0.2340	---	13.00	0.5118
77	0.46	0.0180	39	2.53	0.0995	15/64	5.95	0.2344	33/64	13.10	0.5156
---	0.50	0.0197	38	2.58	0.1015	---	6.00	0.2362	17/32	13.49	0.5312
76	0.51	0.0200	37	2.64	0.1040	B	6.05	0.2380	35/64	13.89	0.5469
75	0.53	0.0210	36	2.71	0.1065	C	6.15	0.2420	---	14.00	0.5512
74	0.57	0.0225	7/64	2.78	0.1094	D	6.25	0.2460	9/16	14.29	0.5625
---	0.60	0.0236	35	2.79	0.1100	1/4	6.35	0.2500	37/64	14.68	0.5781
73	0.61	0.0240	34	2.82	0.1110	E	6.35	0.2500	---	15.00	0.5906
72	0.64	0.0250	33	2.87	0.1130	F	6.53	0.2570	19/32	15.08	0.5938
71	0.66	0.0260	32	2.95	0.1160	G	6.63	0.2610	39/64	15.48	0.6094
---	0.70	0.0276	---	3.00	0.1181	17/64	6.75	0.2656	5/8	15.88	0.6250
70	0.71	0.0280	31	3.05	0.1200	H	6.76	0.2660	---	16.00	0.6299
69	0.74	0.0292	1/8	3.18	0.1250	I	6.91	0.2720	41/64	16.27	0.6406
---	0.75	0.0295	30	3.26	0.1285	---	7.00	0.2756	21/32	16.67	0.6562
68	0.79	0.0310	29	3.45	0.1360	J	7.04	0.2770	---	17.00	0.6693
1/32	0.79	0.0313	28	3.57	0.1405	K	7.14	0.2810	43/64	17.07	0.6719
---	0.80	0.0315	9/64	3.57	0.1406	9/32	7.14	0.2812	11/16	17.46	0.6875
67	0.81	0.0320	27	3.66	0.1440	L	7.37	0.2900	45/64	17.86	0.7031
66	0.84	0.0330	26	3.73	0.1470	M	7.49	0.2950	---	18.00	0.7087
65	0.89	0.0350	25	3.80	0.1495	19/64	7.54	0.2969	23/32	18.26	0.7188
---	0.90	0.0354	24	3.86	0.1520	N	7.67	0.3020	47/64	18.65	0.7344
64	0.91	0.0360	23	3.91	0.1540	5/16	7.94	0.3125	---	19.00	0.7480
63	0.94	0.0370	5/32	3.97	0.1562	---	8.00	0.3150	3/4	19.05	0.7500
62	0.97	0.0380	22	3.99	0.1570	O	8.03	0.3160	49/64	19.45	0.7656
61	0.99	0.0390	---	4.00	0.1575	P	8.20	0.3230	25/32	19.84	0.7812
---	1.00	0.0394	21	4.04	0.1590	21/64	8.33	0.3281	---	20.00	0.7874
60	1.02	0.0400	20	4.09	0.1610	Q	8.43	0.3320	51/64	20.24	0.7969
59	1.04	0.0410	19	4.22	0.1660	R	8.61	0.3390	13/16	20.64	0.8125
58	1.07	0.0420	18	4.31	0.1695	11/32	8.73	0.3438	---	21.00	0.8268
57	1.09	0.0430	11/64	4.37	0.1719	S	8.84	0.3480	53/64	21.03	0.8281
56	1.18	0.0465	17	4.39	0.1730	---	9.00	0.3543	27/32	21.43	0.8438
3/64	1.19	0.0469	16	4.50	0.1770	T	9.09	0.3580	55/64	21.83	0.8594
55	1.32	0.0520	15	4.57	0.1800	23/64	9.13	0.3594	---	22.00	0.8661
54	1.40	0.0550	14	4.62	0.1820	U	9.35	0.3680	7/8	22.23	0.8750
53	1.51	0.0595	13	4.70	0.1850	3/8	9.53	0.3750	57/64	22.62	0.8906
1/16	1.59	0.0625	3/16	4.76	0.1875	V	9.58	0.3770	---	23.00	0.9055
52	1.61	0.0635	12	4.80	0.1890	W	9.80	0.3860	29/32	23.02	0.9062
51	1.70	0.0670	11	4.85	0.1910	25/64	9.92	0.3906	59/64	23.42	0.9219
50	1.78	0.0700	10	4.91	0.1935	---	10.00	0.3937	15/16	23.81	0.9375
49	1.85	0.0730	9	4.98	0.1960	X	10.08	0.3970	---	24.00	0.9449
48	1.93	0.0760	---	5.00	0.1968	Y	10.26	0.4040	61/64	24.21	0.9531
5/64	1.98	0.0781	8	5.05	0.1990	13/32	10.32	0.4062	31/32	24.61	0.9688
47	1.99	0.0785	7	5.11	0.2010	Z	10.49	0.4130	---	25.00	0.9842
---	2.00	0.0787	13/64	5.16	0.2031	27/64	10.72	0.4219	63/64	25.00	0.9844

DECIMAL EQUIVALENTS FOR STANDARD WIRE GAUGES

GAUGE	DIAMETER (MM)	DIAMETER (INCHES)	GAUGE	DIAMETER (MM)	DIAMETER (INCHES)
7/0	12.700	0.500	22	0.711	0.028
6/0	11.786	0.464	23	0.61	0.024
5/0	10.973	0.432	24	0.559	0.022
4/0	10.16	0.400	25	0.508	0.020
3/0	9.449	0.372	26	0.457	0.018
2/0	8.839	0.348	27	0.4166	0.0164
0	8.230	0.324	28	0.3759	0.0148
1	7.620	0.300	29	0.3454	0.0136
2	7.010	0.276	30	0.315	0.0124
3	6.401	0.252	31	0.2946	0.0116
4	5.893	0.232	32	0.2743	0.0108
5	5.385	0.212	33	0.254	0.0100
6	4.877	0.192	34	0.2337	0.0092
7	4.740	0.176	35	0.2134	0.0084
8	4.064	0.160	36	0.193	0.0076
9	3.658	0.144	37	0.1727	0.0068
10	3.251	0.128	38	0.1524	0.0060
11	2.946	0.116	39	0.1321	0.0052
12	4.642	0.104	40	0.1219	0.0048
13	2.337	0.092	41	0.1118	0.0045
14	2.032	0.080	42	0.1015	0.0040
15	1.829	0.072	43	0.0914	0.0036
16	1.626	0.064	44	0.0813	0.0032
17	1.422	0.056	45	0.0713	0.0028
18	1.219	0.048	46	0.061	0.0024
19	1.016	0.040	47	0.0507	0.0020
20	0.914	0.036	48	0.0406	0.0016
21	0.813	0.032	49	0.0305	0.0012
			50	0.0252	0.0010

FORMULAE FOR SPEED & FEED CALCULATION

SPEED	REVOLUTIONS / MINUTE	CHIP VOLUME	FEED / REVOLUTION	FEED / TOOTH	MACHINING TIME	FEED MINUTE
$v = \frac{\pi D.n}{1000}$	$n = \frac{v \cdot 1000}{\pi D}$	$v = \frac{a \cdot b \cdot S'}{1000}$	$S_n = \frac{S'}{n}$	$S_n = \frac{S'}{n \cdot Z}$	$t = \frac{l}{\dot{S}}$	$S' = n \cdot z \cdot S_z$

V = Speed, D = Cutter Diameter, n = Revolutions / Minute, S_n = Feed per Revolution, S' = Feed / Minute, S_z = Feed / Tooth
 Z = Number of Teeth, V = Chip Volume, a = Depth of Cut, b = Length of Cut, t = Machining Time, l = Length of Workpiece

BAR TO PSI

1 BAR = 14.5038 PSI

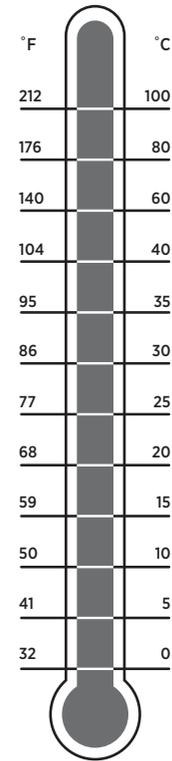
kgf.m to Nm

1 Kgf.m = 9.80665 Nm

CUTTING SPEED

FEET / MINUTE	30	40	50	60	70	80	90	100	150	200	250
DRILL Ø (INCHES)	REVOLUTIONS PER MINUTE										
1/16	1833	2445	3056	3667	4278	4889	5500	6112	9167	12223	15279
1/8	917	1222	1528	1833	2139	2445	2750	3056	4584	6112	6739
3/16	611	815	1019	1222	1426	1630	1833	2037	3056	4076	5093
1/4	458	611	764	927	1070	1222	1375	1528	2292	3056	3820
5/16	367	489	611	733	856	978	1100	1222	1833	2445	3056
3/8	306	407	509	611	713	815	917	1019	1528	2037	2546
7/16	262	349	437	524	611	698	786	873	1310	1746	2183
1/2	229	306	382	458	535	611	688	764	1146	1528	1910
5/8	183	244	306	367	428	489	550	611	917	1222	1528
3/4	153	204	255	306	357	407	458	509	764	1019	1273
7/8	131	175	218	262	306	349	393	473	655	873	1091
1	115	153	191	229	267	306	344	382	573	764	955
1.1/8	102	136	170	204	238	272	306	340	509	679	849
1.1/4	92	112	153	183	214	244	275	306	458	611	764
1.3/8	83	111	139	167	194	222	250	278	417	556	694
1.1/2	76	102	127	153	178	204	229	255	382	509	637
1.5/8	71	94	118	141	165	188	212	235	353	470	588
1.3/4	66	87	109	131	153	175	196	218	327	437	546
1.7/8	61	82	102	122	143	163	183	204	306	407	509
2	57	76	96	115	134	153	172	191	287	382	477
2.1/4	51	68	85	102	119	136	153	170	255	340	424
2.1/2	46	61	76	92	107	122	138	153	229	306	382
2.3/4	42	56	70	83	97	111	125	139	208	278	347
3	38	51	64	76	89	102	115	127	191	255	318
3.1/4	35	47	59	71	82	94	106	118	176	235	294
3.1/2	33	44	55	66	76	87	98	109	164	218	273
3.3/4	31	41	51	61	71	81	92	102	153	204	255

TEMPERATURE CONVERSION



Celsius (°C) TO Fahrenheit (°F)
 $^{\circ}\text{F} = 9/5 ^{\circ}\text{C} + 32$

Fahrenheit (°F) to Celsius (°C)
 $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$

CUTTING SPEED & LUBRICANTS

MATERIAL	CUTTING SPEED (FT/MIN.)		LUBRICANT OR COOLANT
	C.S	H.S.S.	
Aluminium	30-50	70-90	Soluble oil, Paraffin + Lard oil
Aluminium alloys	20-30	50-70	Soluble oil, Paraffin + Lard oil
Brass (free cutting)	40-50	80-100	Soluble oil, Paraffin + Lard oil
Bronze (phosphor)	-	30-40	Soluble oil, Paraffin + Lard oil
Bronze (tin)	-	40-60	Soluble oil, Paraffin + Lard oil
Bronze (high tensile)	-	25-35	Soluble oil, Paraffin + Lard oil
Copper	25-35	60-80	Soluble oil, Paraffin + Lard oil
Iron (grey cast)	15-25	30-60	Soluble oil, Air blast
Iron (malleable)	-	20-40	Soluble oil, Air blast
Iron (alloy cast)	-	15-30	Sulphurised oil
Zinc base alloys	25-35	50-70	Paraffin
Bakelite and plastics	25-35	50-70	Air blast
Steel (mild)	15-25	30-50	Soluble oil, Sulphurised oil
Steel (up to 0.4% carbon)	-	20-40	Soluble oil, Sulphurised oil
Steel (up to 0.7% carbon)	-	20-30	Soluble oil, Sulphurised oil
Steel (over 0.7% carbon)	-	15-25	Soluble oil, Sulphurised oil
Steel alloy (up to 60 T tensile)	-	15-25	Soluble oil, Sulphurised oil
Steel alloy (60 - 80 T tensile)	-	10-15	Soluble oil, sulphurised oil
Steel (stainless magnetic)	-	10-20	Sulphurised oil
Steel (stainless non magnetic)	-	10-15	Sulphurised oil
Steel (tool)	-	15-25	Sulphurised oil

Use slowest speed first, increase if work and conditions permit.

Taps with very coarse pitches such as Square or Acme should be run at 40%-50% of normal speed.

TAP DRILL SIZES - BRITISH STANDARD WHITWORTH THREADS - 60° INCLUDED ANGLE

NOMINAL DIAMETER FRACTIONAL (INCHES)	BSW		BSF		BSP & BSPT	
	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)
1/16	60	1.20	---	---	---	---
3/32	48	1.90	---	---	---	---
1/8	40	2.55	---	---	28	8.80
5/32	32	3.20	---	---	---	---
3/16	24	3.70	32	4.00	---	---
7/32	24	4.50	28	4.60	---	---
1/4	20	5.10	26	5.30	19	11.80
9/32	20	5.80	26	6.00	---	---
5/16	18	6.50	22	6.80	---	---
3/8	16	7.90	20	8.30	19	15.25
7/16	14	9.30	18	3.70	---	---
1/2	12	10.50	16	11.10	14	19.00
9/16	12	12.10	16	12.70	---	---
5/8	11	13.50	14	14.00	14	21.00
11/16	11	15.10	14	15.50	---	---
3/4	10	16.25	12	16.75	14	24.50
7/8	9	19.25	11	19.75	14	28.25
15/16	9	20.60	11	21.50	---	---
1	8	22.00	10	22.75	11	30.75
1.1/8	7	24.75	9	25.50	---	---
1.1/4	7	28.00	9	28.50	11	39.50
1.3/8	6	30.10	8	31.50	---	---
1.1/2	6	33.25	8	34.50	11	45.00
1.5/8	5	35.70	8	37.70	---	---
1.3/4	5	39.00	7	41.00	11	51.00
1.7/8	4.1/2	41.30	7	43.70	---	---
2	4.1/2	44.50	7	47.00	11	57.00

TAP DRILL SIZES - AMERICAN NATIONAL THREADS - 60° INCLUDED ANGLE

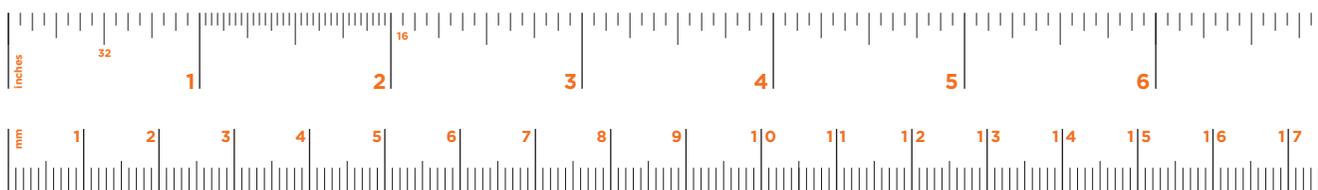
NOMINAL DIAMETER FRACTIONAL (INCHES)	BSW		BSF		BSP & BSPT	
	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)
0	---	---	80	1.25	---	---
1	64	1.55	72	1.55	---	---
2	56	1.85	64	1.90	---	---
3	48	2.10	56	2.15	---	---
4	40	2.35	48	2.40	40	2.35
5	40	2.65	44	2.70	---	---
6	32	2.85	40	2.95	32	2.85
8	32	3.50	36	3.50	32	3.5
10	24	3.90	32	4.10	24	3.9
12	24	4.50	28	4.70	---	---

TAP DRILL SIZES - UNIFIED NATIONAL THREADS - 60° INCLUDED ANGLE

NOMINAL DIAMETER FRACTIONAL (INCHES)	UNC		UNF		NPT & TPS		
	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)	TPI	DRILL SIZE (MM)	DRILL SIZE (MM)
1/16	---	---	---	---	27	6.00	6.30
3/32	---	---	---	---	---	---	---
1/8	---	---	---	---	27	8.40	8.70
5/32	---	---	---	---	---	---	---
3/16	---	---	---	---	---	---	---
7/32	---	---	---	---	---	---	---
1/4	20	5.10	28	5.50	18	10.70	11.10
5/16	18	6.60	24	6.90	---	---	---
3/8	16	8.00	24	8.50	18	14.25	14.50
7/16	14	9.40	20	9.90	---	---	---
1/2	13	10.80	20	11.50	14	17.50	18.00
9/16	12	12.20	18	12.90	---	---	---
5/8	11	13.50	18	14.50	---	---	---
11/16	---	---	---	---	---	---	---
3/4	10	16.50	16	17.50	14	22.75	23.25
13/16	---	---	---	---	---	---	---
7/8	9	19.50	14	20.40	---	---	---
15/16	---	---	---	---	---	---	---
1	8	22.25	12	23.25	11.50	28.50	29.00
1.1/8	7	25.00	12	26.50	---	---	---
1.1/4	7	28.00	12	29.50	11.50	37.50	38.00
1.3/8	6	30.75	12	32.75	---	---	---
1.1/2	6	34.00	12	36.00	11.50	43.50	44.00
1.5/8	---	---	---	---	---	---	---
1.3/4	5	39.50	---	---	---	---	---
1.7/8	---	---	---	---	---	---	---
2	---	---	---	---	11.50	55.00	56.00

INCH TO MM

1 INCH = 25.4 MM



Disclaimer: All information presented here is correct & current at the time of going to press. While the information presented here is true to the best of our knowledge, we do not accept any responsibility for any errors or omissions. If you have any doubts, please reconfirm the authenticity of information.

WE ARE
CONTINUALLY
EVOLVING...

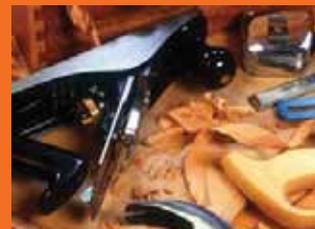


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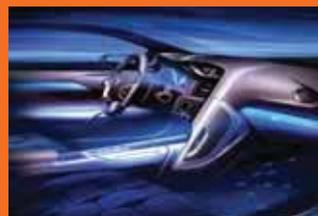
AEROSPACE & DEFENCE



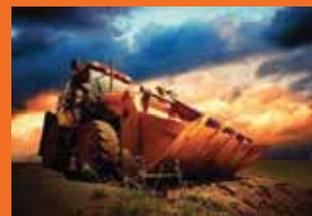
MINING



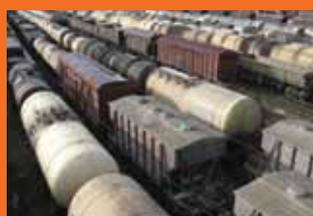
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