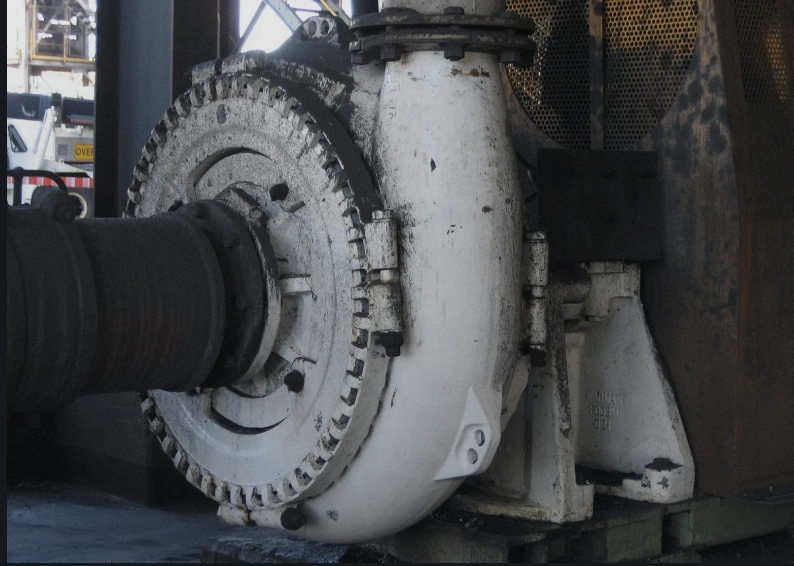




FGR Online

General Industrial Equipment Supplies



FGR ONLINE

2026 Product Catalogue

117 industrial products across 10 equipment categories, for 16 industries.
Specifications as published by the manufacturer or supplier, confirmed in writing in every quotation.

117

Products

10

Equipment categories

16

Industries covered

Equipment categories

01		Brewery and beverage Brewhouse systems, Fermentation and bright tanks, CIP cleaning units, Heat exchangers and proce...	11 products	03
02		Tanks and pressure vessels Liquid oxygen and cryogenic tanks, Stainless, fuel, water and chemical storage tanks, CO2 and LPG ...	13 products	05
03		Pumps, valves and hydraulics Centrifugal process and water pumps, Slurry pumps, Ball, gate, butterfly and check valves, Hydraul...	12 products	07
04		Material handling and lifting Forklift trucks, Belt and roller conveyors, Electric chain and wire-rope hoists, Overhead and gantry c...	12 products	09
05		Process and manufacturing machinery Mixers and agitated tanks, Decanter centrifuges, Hammer and grinding mills, Materials testing ma...	12 products	11
06		Motors, power and air IEC induction motors, Variable frequency drives, Diesel generator sets, Screw air compressors, Indu...	13 products	13
07		Electrical and instrumentation LV switchboards and MCCs, Flow meters, Pressure and level transmitters, Control panels	11 products	15
08		Packaging machinery Liquid filling machines, Carton sealers, Pallet stretch wrappers, Labelling and capping machines	11 products	17
09		Tools, hardware and PPE Angle grinders and drills, Magnetic drilling machines, Safety helmets and head protection, Worksho...	11 products	19
10		HVAC and refrigeration Water chillers, Cooling towers, Cold rooms and blast freezers, Air-conditioning and dehumidification	11 products	21
		Product index, by code		23

Reading this catalogue

Each product has a code, for example FGR-PVH-001. Quote it when you ask for a price.

Capacities shown as ranges, for example 1 to 100,000 m³, can be quoted at the size you need.

TBC means a value is confirmed for your order in the quotation.

Specifications, prices, lead times and warranty terms are confirmed in writing in every quotation.

How to order

1. Send the product code, quantity and your site location, with any specification or drawings.

2. We confirm the specification with the OEM and send a written quotation, including freight if you need it.

3. Request a quote at www.fgronline.co.za/quote, email info@fgronline.co.za or WhatsApp +27 63 076 9938.



CATEGORY 01 • 11 PRODUCTS

Brewery and beverage processing equipment

Brewhouses, fermentation and conditioning tanks, clean-in-place units and the stainless process equipment that sits around them.



FGR-BBV-001

Brewhouse system, 1,000 L

A multi-vessel stainless steel brewhouse that mashes, lauters and boils malt and water to produce wort for beer fermentation.

Net volume	10 bbl / 1,000 L / 1,200 L
Vessels	2, 3 or 4 vessels depending on request
Material	SUS 304 (304 or 316 stainless steel available)



FGR-BBV-002

Cylindroconical fermentation tank (unitank)

A jacketed stainless steel cylindrical tank with a conical bottom used to ferment and condition beer in the same vessel.

Capacity range	500 L - 300 KL (customizable)
Material	Usually SS304 or 316L
Design / working pressure	0.2 MPa / -0.15 MPa



FGR-BBV-003

CIP clean-in-place unit

A skid of tanks, pumps and controls that circulates hot water, caustic and acid solutions through process equipment to...

Material	Stainless steel 304 / 316L
Tank construction	Single layer / double layer
Cleaning method	Inner spraying washing



FGR-BBV-004

Bright beer tank, 1,000 L

A jacketed, insulated stainless steel vessel that holds finished beer for conditioning, carbonation and serving or packaging.

Capacity	1000L + 25%
Material	SUS304/SUS316/Red Copper
Inner shell thickness	3 mm



FGR-BBV-005

Malt roller mill, 500 kg/h

A roller mill that cracks malted grain to a controlled grist size before mashing.

Processing material	Malt
Capacity	100-800 kg/h
Power	550W-7.5KW (customisable)



FGR-BBV-006

Keg washer and filler, two-head

A semi-automatic machine that cleans, sterilises and fills beer kegs in one cycle.

Production capacity	30-40 kegs/h
Filling valve heads	2
Applicable kegs	5L-60L

FGR-BBV-007



Yeast propagation tank, 1-10 hL

An insulated, sanitary stainless steel vessel for growing a pure brewing yeast culture up to pitching volume.

Capacity	1hl to 10hl
Maximum pressure	2 bars
Material	Stainless steel

FGR-BBV-008



Two-stage sanitary plate heat exchanger (wort cooler)

A gasketed stainless steel plate heat exchanger with two cooling sections, used to cool hot wort or other process liquids...

Stage number	Two stages
Style	Plate type
Application	Heater, cooler

FGR-BBV-009



Beverage carbonator and CO2 mixer, 2,000-3,000 L/h

A skid that proportions water and syrup, chills the blend and dissolves CO2 into it ahead of filling carbonated soft drinks.

Model	QHS-2500
Output	2000-3000 L/h
CO2 content	>2.5

FGR-BBV-010



Tubular UHT pasteuriser, 2,000 L/h

A continuous, steam-heated tubular heat-treatment system that sterilises or pasteurises juice, milk and other liquid...

Model	LG-UHT-2
Production capacity	2000 L/h
Sterilisation temperature	105-143 °C

FGR-BBV-011



Reverse osmosis water treatment plant, 500 L/h

A skid-mounted reverse osmosis system with media filtration and softening that produces low-TDS process and product...

Production capacity	500 L/h
Power	1.5 kW
Power supply	AC 380V 50Hz 3-phase or 220V 50Hz single phase



CATEGORY 02 · 13 PRODUCTS

Industrial storage tanks and pressure vessels

Liquid oxygen (LOX) and cryogenic tanks, CO₂, LPG, fuel, water and chemical storage tanks, air receivers and pressure vessels, from 1 m³ to 100,000 m³, specified to the stored medium, design pressure and design code.

FGR-TPV-001



Stainless steel liquid storage tank, 1 to 100,000 m³

A vertical stainless steel tank for storing liquids such as water, food products, beverages or chemicals.

Capacity range	1 m ³ to 100,000 m ³ (on enquiry)
Capacity	100 L to 100,000 L
Material	SUS304 / SUS316L / carbon steel

FGR-TPV-002



Compressed air receiver, 1,000 L

A vertical carbon steel pressure vessel that stores compressed air between the compressor and the distribution network.

Volume	1,000 L
Working pressure	0.8 MPa (8 bar)
Design pressure	0.8 MPa

FGR-TPV-003



REGISTERED DISTRIBUTOR Liquid oxygen (LOX) storage tank, 1,000 to 100,000 kg

Vacuum-insulated cryogenic tanks for storing liquid oxygen on site, from 1,000 kg...

Micro-bulk tank, 1 m ³	Up to 1,083 kg LO ₂
Micro-bulk dimensions	2085 × 1580 × 1160 mm
Working pressure classes	0.8, 1.6, 2.1, 2.16 and 3.3 MPa

FGR-TPV-004



Double-wall fuel storage tank, 1 to 100,000 m³

A horizontal double-wall fuel tank with a steel inner shell and fibreglass outer wall, used to store diesel and petrol with...

Capacity range	1 m ³ to 100,000 m ³ (on enquiry)
Capacity	50000 liters
Standard model range	1-100 m ³

FGR-TPV-005

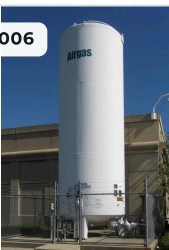


LPG storage tank, 1 to 100,000 m³

A horizontal carbon-steel pressure vessel (bullet tank) for bulk storage of liquefied petroleum gas.

Capacity range	1 m ³ to 100,000 m ³ (on enquiry)
Volume	50 m ³
Dimensions	φ2470 x 3240 x 10903 mm

FGR-TPV-006



Liquid CO₂ cryogenic storage tank, 1,000 to 100,000 kg

A vertical vacuum-insulated tank that stores liquid carbon dioxide on site for beverage carbonation, food freezing and...

Medium	LCO ₂
Effective volume	30 m ³
Working pressure	2.16 MPa / 21.6 bar



FGR-TPV-007

Jacketed stirred tank reactor, 500 L

An electrically heated, jacketed stainless steel vessel with a variable-speed agitator for mixing, heating and reacting liquids.

Effective volume	500 L
Vessel material	SUS 304 polished, 6 mm thickness
Jacket material	Carbon steel, 6 mm thickness



FGR-TPV-008

Steam accumulator

A horizontal carbon-steel pressure vessel that stores energy as pressurised hot water and releases steam to cover peaks in...

Volume	1000 L ~ 100000 L
Rated pressure	0.6 MPa ~ 1.25 MPa
Pressure class	Low pressure (0.1 MPa ≤ p < 1.6 MPa)



FGR-TPV-009

GRP sectional panel water storage tank, 1 to 100,000 m³

A rectangular water tank assembled on site from bolted glass-reinforced plastic (SMC) panels, sized from 1 m³ to 1000 m³.

Capacity range	1 m³ to 100,000 m³ (on enquiry)
Standard model range	1 m³ to 1000 m³
Material	GRP / FRP / SMC



FGR-TPV-010

ISO tank container, 20 ft T11, 25,000 L

A stainless steel tank in a 20 ft ISO frame for storing and transporting bulk liquids by road, rail and sea.

Type	Tank container, 20'
Volume	25,000 litres
Tank code	T11



FGR-TPV-011

PE-lined steel chemical storage tank, 1 to 100,000 m³

A carbon-steel tank with a thick polyethylene lining for storing corrosive liquids such as hydrochloric acid and...

Capacity range	1 m³ to 100,000 m³ (on enquiry)
Capacity	10 m³
Dimensions	6.88 x 1.4 x 2.1 m



FGR-TPV-012

 REGISTERED DISTRIBUTOR
Hong Hui cryogenic liquid storage tank, 1 to 100,000 m³

A vacuum-insulated bulk tank for storing liquefied industrial gases on site, in vertica...

Capacity range	1 m³ to 100,000 m³ (on enquiry)
Configuration	Vertical or horizontal
Geometric volume (published...	10, 20 and 50 m³



FGR-TPV-014

 REGISTERED DISTRIBUTOR
Cryogenic liquid cylinder (dewar), 175 L to 1,000 L

Vacuum-insulated stainless steel liquid cylinders for storing and dispensing liquid...

Capacity range	175 L to 1,000 L (on enquiry)
Media	LOX, LN2, LAr, LCO2
Material	Stainless steel, vacuum-insulated



CATEGORY 03 · 12 PRODUCTS

Pumps, valves, fluid control and hydraulics

Centrifugal and slurry pumps, industrial valves and hydraulic power units, selected to the fluid, duty point and piping standard.

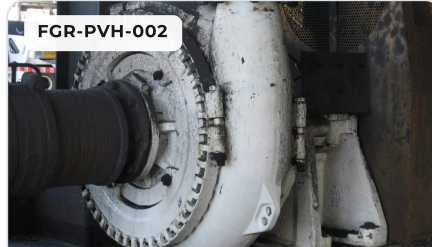


FGR-PVH-001

End-suction centrifugal pump

A horizontal, single-stage, single-suction centrifugal pump built to ISO 2858 dimensional standards for clean water and...

Standards	ISO 2858/5199 and EN 22858
Pump type	Single-stage, single-suction, horizontal
Max. head	30-50 m

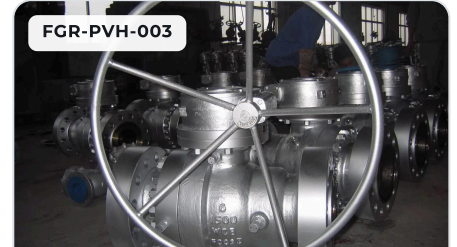


FGR-PVH-002

Horizontal centrifugal slurry pump

A heavy-duty, cantilevered horizontal centrifugal pump with replaceable wear-resistant liners for pumping abrasive...

Flow (AM series range)	13-5000 m ³ /h
Head (AM series range)	5-68 m
Power (AM series range)	15-1200 kW



FGR-PVH-003

Flanged floating ball valve

A quarter-turn, straight-through floating ball valve with ANSI flanged ends, offered in carbon steel or stainless steel bodies.

Size range	1/2" to 12"
Pressure rating	150LB / 300LB / 600LB
Body material	Carbon steel, stainless steel or other material



FGR-PVH-004

Hydraulic power unit

A packaged hydraulic supply consisting of an electric motor, pump, oil tank and control valves that delivers pressurised oil...

Voltage	380V
Motor power	2.2 kW
Motor speed	1440 r/min

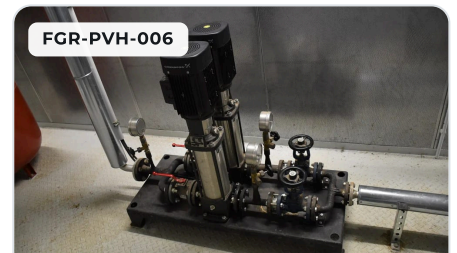


FGR-PVH-005

Submersible borehole pump, 4 inch

A multistage centrifugal pump and sealed motor that sit down a drilled borehole to lift groundwater to the surface.

Model	4SDM2/24
Motor power (from listing title)	1.75 HP
Maximum head	>150 m



FGR-PVH-006

Vertical multistage centrifugal pump

An in-line vertical pump with several impeller stages stacked on one shaft, used to raise clean water to high pressure in a...

Model series	CDL (CDLF for slightly corrosive liquids)
Flow capacity range	0-110 m ³ /h
Head/pressure range	0-305 m

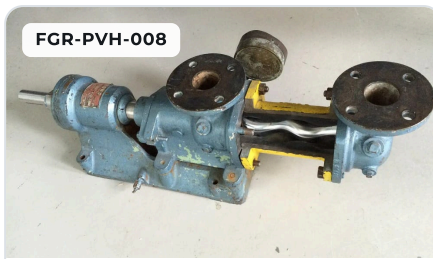


FGR-PVH-007

Air-operated double-diaphragm pump, 2 inch

A compressed-air driven positive displacement pump that moves liquids, slurries and viscous or shear-sensitive...

Model	RD 50
Fluid inlet and outlet size	2 in.
Maximum flow rate	150 gpm (570 L/min)



FGR-PVH-008

Progressive cavity (single screw) pump

A positive displacement pump in which a helical rotor turning inside an elastomer stator moves sealed cavities of liquid from...

Model series	XG series, single-stage (XG030B01Z to...
Configuration	Horizontal, single screw, single suction
Capacity range	1-166 m ³ /h



FGR-PVH-009

Submersible non-clog sewage pump

A close-coupled pump and sealed motor that sits submerged in a sump or wet well to pump sewage, drainage and dirty water...

Model series	WQ
Capacity range (series)	2-1500 m ³ /h
Head range (operating...	3-45 m



FGR-PVH-010

Rubber-seated butterfly valve, PN10/16

A quarter-turn valve with a disc rotating on a central stem inside a rubber-lined body, used to isolate or throttle water and genera...

Model	D71X-16C
Size range	DN40-DN3000
Pressure rating	PN10/16



FGR-PVH-011

Double-acting tie-rod hydraulic cylinder

A linear actuator in which hydraulic oil pressure drives a piston and rod in both directions, with end caps held together by...

Model	SLG63/28-300-MF1
Type	Double-acting, piston type, tie-rod construction
Mounting	Front flange



FGR-PVH-012

Cast steel swing check valve

A non-return valve whose hinged disc swings open with forward flow and closes against its seat to stop reverse flow.

Type	Swing check, bolted cover, metal seat
Size range	2 in. to 36 in.
Pressure class	150 lb to 2500 lb



CATEGORY 04 · 12 PRODUCTS

Material handling, conveyors, hoists and lifting equipment

Forklifts, conveyors, hoists and overhead cranes, with the load, lift height and duty class stated before anything is quoted.

FGR-MHL-001



Electric chain hoist, 2 t

A motor-driven hoist that lifts loads with a load chain and hook, typically suspended from a hook, trolley or crane beam.

Rated capacity	2 t
Lifting speed	2~8 m/min (6.6 m/min also listed)
Lifting height	Standard 3 m; >20 m max.

FGR-MHL-002

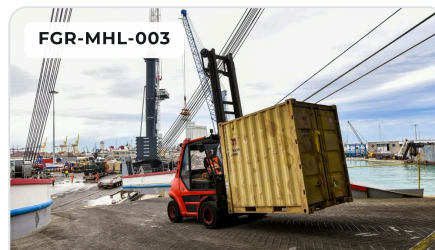


Troughed belt conveyor

A continuous rubber-belt conveyor carried on troughing idlers that transports bulk materials such as coal, ore, stone and grain.

Belt width options	500, 650, 800, 1000, 1200, 1400 mm
Belt speed options	0.8, 1.0, 1.25, 1.6, 2.0, 2.5, 3.15, 4.0 m/s
Length options	15, 30, 45, 60, 100, 150, 200, 300 m

FGR-MHL-003



Diesel counterbalance forklift, 3 t

A four-wheel, diesel-engined counterbalanced lift truck with a rated capacity of 3000 kg at a 500 mm load...

Rated capacity	3000 kg
Load centre	500 mm
Lift height	3000-6000 mm

FGR-MHL-004



Single-girder overhead crane

An electric overhead travelling crane with a single main girder spanning the bay, running on end carriages along rails and...

Capacity range	1, 2, 3, 5, 10, 16, 20 t
Span	7.5-31.5 m
Max. lifting height	6-30 m

FGR-MHL-005



Electric walkie pallet stacker, 1.5 t

A battery-powered, pedestrian-operated truck with a mast that lifts and stacks pallets onto racking in warehouses and...

Model	HTB15E
Rated capacity	1500 kg
Load centre	500 mm

FGR-MHL-006



Manual hand pallet truck, 2.5 t

A hand-operated hydraulic truck whose forks slide under a pallet and pump up just enough to move it across a floor.

Model	HMP25
Fork dimensions	1220 × 160 × 53 mm
Overall fork width	550/685 mm



Wire rope electric hoist, 5 t

A motor-driven hoist that winds a steel wire rope on a drum to lift loads, usually running on a trolley along an I-beam or crane girder.

Model	CD1 (single speed)
Rated capacity	5 t
Maximum lifting height	30 m



Pillar-mounted slewing jib crane, 5 t

A free-standing column with a rotating horizontal arm carrying a hoist, giving lifting coverage over a circular work area.

Model	BZ5t-5m
Rated capacity	5000 kg
Arm length	5300 mm

FGR-MHL-009



Stationary electro-hydraulic scissor lift table, 1 t

A fixed platform raised and lowered by hydraulically driven scissor arms, used to bring loads to a comfortable working height...

Model	HW1003
Capacity	1000 kg
Platform height (min / max)	240 / 1300 mm

FGR-MHL-010



U-trough screw conveyor

A rotating helical screw inside a covered U-shaped trough that moves powders, granules and small bulk solids along...

Model series	LS
Screw diameter	200/250/315/400/500/630 mm
Screw pitch	160/200/250/315/400/500 mm

FGR-MHL-011



Belt bucket elevator

A vertical conveyor in which buckets fixed to a continuous belt scoop bulk material at the boot and discharge it at the head.

Model	TD250 (belt type)
Bucket width	250 mm
Belt width	300 mm

FGR-MHL-012



Gravity roller conveyor

Modular sections of free-turning rollers in a steel frame that let cartons, totes and other flat-bottomed loads be pushed or roll on a...

Model	UGCR-101 (parameter table: UC-101)
Section length	Standard 1000 mm or 1500 mm increments
Overall width / between-frame...	450 or 650 mm / 400 or 600 mm (custom...)



CATEGORY 05 · 12 PRODUCTS

Manufacturing machinery, mixers, centrifuges, milling and quality testing

Mixing, separation, size-reduction and testing machines for production lines and quality laboratories.

FGR-MFG-001



High-shear mixer

A rotor-stator mixing machine that applies intense mechanical shear to disperse, emulsify and homogenise liquids and...

Handling capacity (LNP-100)	50-100 L
Speed	2900/3400 RPM
Rated power (LNP-100)	2.2 kW

FGR-MFG-002

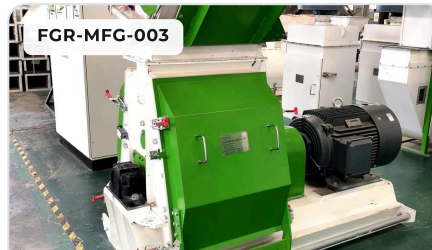


Horizontal decanter centrifuge

A continuous horizontal scroll centrifuge that separates suspended solids from liquid using high centrifugal force.

Drum (bowl) diameter	450 mm
Drum length	2000 mm
Maximum speed	3200 rpm

FGR-MFG-003



Hammer mill

An impact grinding machine in which swinging hammers on a high-speed rotor shatter material until it passes through a...

Rotor diameter	560 mm
Main shaft rotation speed	2950 rpm
Hammer linear speed	86 m/s

FGR-MFG-004



Electronic universal testing machine

A computer-controlled load frame that applies tensile, compressive or bending forces to test specimens and records force...

Max. testing force	100 kN (series: 10/20/30/50/100 kN)
Measuring range of testing force	2%-100% FS
Accuracy of testing force	±1%

FGR-MFG-005



Double planetary mixer with high-speed disperser

A vertical batch mixer in which two stirring blades rotate on their own axes while orbiting the vessel, combined with a high...

Model	30L
Tank working volume	30 L
Tank design volume	44 L

FGR-MFG-006



Disc stack separator centrifuge

A vertical high-speed centrifuge that uses a stack of conical discs to clarify liquids or separate two liquids and fine solids...

Models (two-phase)	RSLD-40, RSLD-90, RSLD-125, RSLD-225
Models (three-phase)	RSSD-40, RSSD-90, RSSD-125, RSSD-225
Bowl diameter	440 mm (40 models) to 800 mm (225 models)

FGR-MFG-007



Manual Rockwell hardness tester

A bench-top instrument that measures the Rockwell hardness of metals by pressing an indenter into the test piece under set loads.

Model	HR-150A
Measuring range	20-88 HRA, 20-100 HRB, 20-70 HRC
Test force	588.4, 980.7, 1471 N (60, 100, 150 kgf)

FGR-MFG-008



Horizontal ball mill 900 × 3000

A rotating steel cylinder partly filled with grinding balls that reduces crushed ore or minerals to fine powder or slurry.

Model	900 × 3000
Cylinder rotating speed	36 r/min
Ball load	2.7 t

FGR-MFG-009



Jaw crusher PE250 × 400

A primary crusher that breaks rock and ore between a fixed jaw and a moving jaw driven by an eccentric shaft.

Model	PE250 × 400
Feed opening	250 × 400 mm
Maximum feed size	210 mm

FGR-MFG-010



Round vibrating sieve (vibro screen)

A circular screening machine driven by a vertical vibration motor that grades, dedusts or removes oversize from powders,...

Machine diameter range	From 400 mm to 2000 mm
Effective screening diameter	360 mm (BZ400) to 1730 mm (BZ1800)
Motor power	0.18 kW (BZ400) to 2.2-3.0 kW (BZ1800)

FGR-MFG-011



CNC flat-bed lathe CK6140

A computer-controlled horizontal turning lathe on a flat cast bed for producing shafts, bushes, threads and other round parts.

Model	CK6140
Swing over bed	Ø420 mm
Swing over cross slide	Ø230 mm

FGR-MFG-012



Centrifugal spray dryer LPG-25

A drying tower in which a high-speed rotary atomiser sprays a liquid feed into hot air, producing a dry powder in a single step.

Model	LPG-25
Maximum water evaporation	25 kg/h
Atomiser type	High-speed centrifugal (rotary) atomiser



CATEGORY 06 · 13 PRODUCTS

Electric motors, drives, generators, compressors and ventilation

Motors and variable speed drives, standby generator sets, compressed-air systems and industrial fans.

FGR-MPA-001



IE3 three-phase induction motor

A totally enclosed, fan-cooled three-phase asynchronous motor built to IEC frame sizes and meeting the IE3 premium-efficiency...

Rated power (YE3-100L-2)	3 kW
Speed	2900 r/min (2-pole, 50 Hz)
Efficiency at 100% load	87.1%

FGR-MPA-002



Low-voltage variable frequency drive

An electronic AC drive that varies the frequency and voltage supplied to an induction motor to control its speed and...

Rated power	7.5 kW
Output frequency	0-1200 Hz (V/F); 0-600 Hz (FVC)
Control modes	V/F, FVC, SVC, torque control

FGR-MPA-003



Silent diesel generator set

A diesel engine coupled to an alternator on a common base, housed in a sound-attenuated canopy, for prime or standby...

Prime power	200 kVA / 160 kW
Standby power	220 kVA / 176 kW
Frequency / speed	50 Hz @ 1500 rpm or 60 Hz @ 1800 rpm

FGR-MPA-004



Rotary screw air compressor

An electrically driven, oil-lubricated compressor that produces continuous compressed air using a pair of meshing...

Motor power	37 kW (50 HP)
Working pressure	8 bar
Free air delivery	6.3 m³/min

FGR-MPA-005



Industrial axial fan

A motor-driven fan that moves large volumes of air parallel to its shaft at low pressure for general and industrial...

Impeller size (9G-4)	900 mm / 36"
Voltage (9G-4)	380 V
Power (9G-4)	5.5 kW

FGR-MPA-006

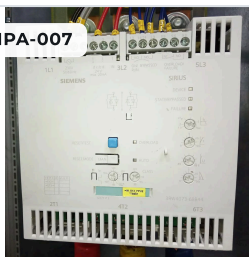


Helical in-line gear reducer (gearmotor)

A coaxial helical gear reducer, usually supplied with a flanged electric motor, that reduces motor speed and increases output...

Series / sizes	R series, sizes 17#-167#
Layout	Coaxial, helical gear
Gear stages	Double or three steps

FGR-MPA-007



Motor soft starter 185 kW

An electronic starter that ramps the voltage to a three-phase induction motor to limit inrush current and mechanical shock...

Rated power	185 kW
Voltage	220V/380V/660V...
Frequency	50/60Hz

FGR-MPA-008



Permanent-magnet synchronous motor 11 kW

A three-phase AC motor with permanent magnets in the rotor, run from a variable frequency drive for high efficiency across a...

Rated output power	11 kW
Rated speed	3000 r/min
Frame size	100L

FGR-MPA-009



Flameproof (Ex d) induction motor 15 kW

A three-phase squirrel-cage motor in a flameproof enclosure for use where flammable gas or vapour may be present.

Model	YBX3-160L-4
Explosion protection (from...)	Exdb II CT4
Rated output	15 kW

FGR-MPA-010



Natural gas generator set 100 kW

A spark-ignited gas engine coupled to a three-phase alternator, producing electricity from pipeline natural gas.

Rated power	100 kW / 137.5 kVA
Rated voltage	230/400 V
Rated current	180 A

FGR-MPA-011



Refrigerated compressed-air dryer 0.6 Nm³/min

A dryer that cools compressed air to condense and drain out water vapour, protecting downstream pipework, tools an...

Model	PFD54
Flow rate	0.6 Nm³/min
Inlet temperature	38°C

FGR-MPA-012



Three-lobe Roots blower 150 mm

A positive-displacement rotary lobe blower that delivers a near-constant volume of oil-free air at low pressure.

Model / bore	TRI-LOBE 150H; 150 mm
Air flow	12~18.35 m³/min
Pressure rise	9.8 kPa~44.1 kPa

FGR-MPA-013



Diesel mobile light tower 4 x 1000 W

A trailer-mounted lighting tower with a telescopic mast, floodlights and an on-board diesel generator for lighting work...

Lights	4 x 1000W metal halide floodlights
Light capacity	4 x 110000 lumen (total)
Mast rotation / light-bar tilt	360° manual; 25°, 40°, 60°, 90°, 110° manual



CATEGORY 07 · 11 PRODUCTS

Electrical equipment, instrumentation and control panels

Low-voltage switchboards and motor control centres, flow and pressure instruments, and the documentation that goes with them.



FGR-EIC-001

Low-voltage switchgear and motor control centre

Floor-standing low-voltage withdrawable switchgear assembly that combines power distribution (PC) and motor control centre...

Model	GCK
Voltage level	Low voltage, AC
Rated insulation voltage	660 V

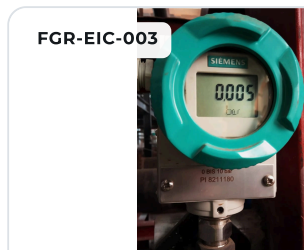


FGR-EIC-002

Electromagnetic flow meter

Full-bore electromagnetic flow meter for conductive liquids in closed pipelines, with 4-20 mA, pulse and RS485 outputs.

Model	WFD
Nominal diameter	DN15 to DN800
Accuracy	±0.2-0.5%



FGR-EIC-003

Pressure transmitter, 4 to 20 mA

Two-wire 4-20 mA silicon-sensor pressure transmitter with SS316L wetted diaphragm, LCD display and 1/2" NPT or M20x1.5 proces...

Model	AT2088
Pressure range	0-200 MPa
Measuring medium	Liquid, gas, oil, steam



FGR-EIC-004

Oil-immersed distribution transformer 500 kVA, 11/0.4 kV

A three-phase, oil-filled transformer that steps medium-voltage supply down to 400 V for distribution to a site.

Rated capacity	500 kVA
Voltage (HV / LV)	11 kV / 0.4 kV
Phases / windings	Three phase, two-winding, core type



FGR-EIC-005

Cast-resin dry-type transformer 1000 kVA, 10/0.4 kV

A three-phase distribution transformer with epoxy-resin-cast windings and no insulating oil, suited to indoor installation...

Series	SC(B)10, 10 kV grade
Rated capacity	1000 kVA
Voltage (HV / LV)	10 kV / 0.4 kV



FGR-EIC-006

Automatic transfer switch 630 A, 4-pole

A switching device that automatically moves a load between mains supply and a standby generator when the normal supply...

Rated current	630A
Poles	4
Utilisation category	AC-33A

FGR-EIC-007



80 GHz radar level transmitter

A non-contact level instrument that measures the distance to a liquid or solid surface using frequency-modulated radar...

Frequency	76-81 GHz (FMCW)
Measuring range	Up to 120 m
Measurement accuracy	±3 mm

FGR-EIC-008



Vortex flow meter for steam and gas

An in-line flow meter that measures the frequency of vortices shed from a bluff body to determine the flow of steam, gas or...

Model	HDF-WJ
Size	DN50-100 (attribute table)
Accuracy	±0.2-0.5%

FGR-EIC-009



Fixed gas detector, 4-20 mA

A permanently mounted gas sensor that continuously monitors for combustible or toxic gas and sends a 4-20 mA signal to a...

Model	MT003
Detectable gases	Combustible gas, CO, H2S, O2
Sensor type	Catalytic or electrochemical

FGR-EIC-010



Head-mounted temperature transmitter, 4-20 mA/HART

A compact transmitter fitted in a sensor connection head that converts an RTD or thermocouple signal into a 4-20 mA output...

Input signal	Thermal resistance (RTD), thermocouple (TC)
Output signal	4-20mA/HART protocol
Accuracy	≤0.5% F.S

FGR-EIC-011



Automatic power factor correction capacitor bank

A low-voltage cabinet of switched capacitor steps, controlled by a power factor regulator, that offsets inductive reactive power on a...

Model	GGJ
Rated capacity	600 kvar (2 cabinets)
Rated voltage	240V, 480V, 690V

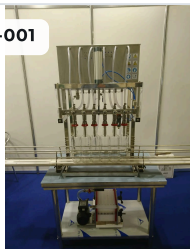


CATEGORY 08 · 11 PRODUCTS

Packaging machinery

Filling, sealing and end-of-line wrapping machines matched to the container, product and line speed.

FGR-PKG-001



Linear piston liquid filling machine

An automatic inline filler that uses piston pumps to dispense measured volumes of liquid into bottles.

Filling heads	Based on customer's need
Container size	50-5,000 ml
Capacity	30-120 bottles/min (8 nozzles)

FGR-PKG-002



Turntable pallet stretch wrapper

A machine that rotates a loaded pallet on a turntable while a carriage applies pre-stretched film to stabilise the load.

Turntable diameter	1,650 mm
Turntable speed	0-12 rpm, variable
Load capacity	2,000 kg (standard); 3,000 kg (optional)

FGR-PKG-003



Automatic carton sealer

A conveyor machine that automatically applies adhesive tape to seal the top, bottom and sides of filled cartons.

Carton size (max)	L 450 × W 400 × H 400 mm
Carton size (min)	L 200 × W 150 × H 100 mm
Conveyor speed	0-25 m/min

FGR-PKG-004



Vertical form-fill-seal machine with auger filler

An automatic machine that forms bags from roll film, doses powder with an auger filler and seals each bag in one continuous...

Bag length	80-300 mm (420F); up to 80-500 mm (820F)
Bag width	50-200 mm (420F); up to 50-400 mm (820F)
Maximum roll film width	420 (420F) to 820 (820F) (units TBC)

FGR-PKG-005



Automatic round bottle labelling machine

An in-line machine that applies self-adhesive wrap-around labels to cylindrical bottles and jars as they pass on a conveyor.

Model	MPC-AS
Labelling speed	60-100 bottle/min
Labelling accuracy	±1 mm

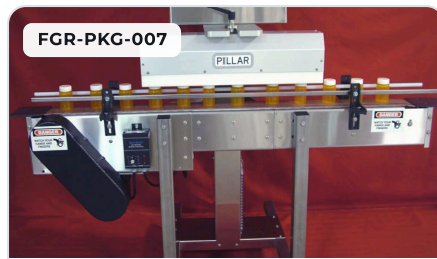
FGR-PKG-006



Automatic servo screw capping machine

An in-line machine that places and tightens screw caps on bottles using servo-driven spindles under PLC control.

Model	SCM-300
Capping speed	25-35 pcs/min
Cap size	20-80 mm



FGR-PKG-007

Continuous induction cap sealer

A conveyorised sealer that uses an electromagnetic field to heat the foil liner inside a closed cap, bonding it to the...

Model	LGYP-2000BX
Sealing speed	0-12 m/min
Sealing diameter	20-130 mm



FGR-PKG-008

Double-chamber vacuum packaging machine

A floor-standing machine with two vacuum chambers under a swinging lid that evacuates air from bags and heat-seals...

Model	DZ-400/2SF
Chamber dimensions	450 × 460 × 140 (90) mm
Seal bar dimensions	430 × 8 × 2 mm



FGR-PKG-009

Rotary premade pouch packing machine

An automatic rotary machine that picks premade pouches, opens, fills and seals them at a series of indexing stations.

Model	GC8-200R
Design speed	40-70 bags/min
Packing speed	40-60 bags/min



FGR-PKG-010

Automatic arch carton strapping machine

A table-height arch machine that automatically feeds, tensions and heat-welds polypropylene strap around cartons...

Model	YS-605
Strap width	5 mm (attribute table: 5-6 mm)
Strap thickness	0.4-0.55 mm



FGR-PKG-011

Conveyor checkweigher with pusher rejector

An in-line conveyor scale that weighs every pack on the move and pushes off packs that are over or under the set weight.

Model	NG-709
Weighing range	1-200 g / 5-1000 g (optional)
Check weight range	1-999 g



CATEGORY 09 · 11 PRODUCTS

Power tools, hardware and PPE

Industrial power tools, workshop hardware and personal protective equipment, with the standard each item is tested to.

FGR-TPE-001



Corded angle grinder, 230 mm

A corded 230 mm angle grinder for heavy cutting and grinding of metal and masonry. The reference model is rated at 2,200 W.

Model	GA9020
Continuous input power	2200 W
Disc diameter	230 mm

FGR-TPE-002



Magnetic core drilling machine

1500 W magnetic-base drilling machine for annular cutters up to 60 mm diameter and 75 mm depth, with MT3 tool holder.

Model	DX-60
Input power	1500 W
Load speed	250/450 rpm

FGR-TPE-003



Industrial safety helmet

An industrial safety helmet with a polyethylene shell and adjustable harness for head protection on sites and in plants....

Product code	AJE030-000-100
Shell material	HDPE
Harness	6-point polyethylene cradle harness

FGR-TPE-004

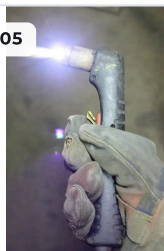


Inverter MIG/MMA welding machine 350 A

An IGBT inverter welding power source for gas-shielded wire (MIG/MAG) and manual metal arc (stick) welding of steel.

Input power source	220V ±10% 50/60Hz
Phase	Single phase
Power	15.1 kVA

FGR-TPE-005



Inverter air plasma cutter 60 A

A three-phase DC inverter plasma cutting machine that uses compressed air to cut steel, stainless steel and non-ferrous...

Input voltage	AC380V (±15%), three-phase, 50/60Hz
Rated input power	7.9 kVA
Output current range	20-60A

FGR-TPE-006



Cordless brushless impact wrench 1/2"

A battery-powered impact wrench with a brushless motor and 1/2-inch square drive for fastening and loosening nuts and bolts.

Maximum torque	900 N.m
Battery voltage	18V
Battery capacity	2600mAh



SDS-plus rotary hammer drill 26 mm, 800 W

A corded electro-pneumatic rotary hammer with SDS-plus chuck for drilling and light chiselling in concrete and masonry.

Model	Light Rotary Hammer -2657
Voltage	220-240V
Input power	800W



Half-face reusable respirator

A reusable silicone half-face mask that takes replaceable gas/vapour cartridges and particulate filters to protect the wearer...

Model	HM7500
Shape	Half face
Body material	Silicone



Full-body safety harness (fall arrest)

A polyester-webbing full-body harness with back and waist D-rings for fall arrest at height.

Material	Polyester
Webbing	45mm polyester webbing
Fixed mode	Three-point



Auto-darkening welding helmet

A welding helmet with an electronic filter that darkens automatically when an arc is struck, protecting the eyes and face during...

Filter size	110 x 90 x 9 mm
Viewing area	92 x 42 mm
Switching time	1/25000 s



Steel-toe leather safety boots (S3)

Leather safety boots with a steel toe cap and steel midsole plate for impact, compression and puncture protection on industrial sites.

Model	PSLB305A
Upper material	Leather
Lining	Mesh



CATEGORY 10 · 11 PRODUCTS

HVAC, refrigeration and cooling

Chillers, cooling towers, cold rooms, condensing units and industrial air handling for process cooling and controlled environments.

FGR-HVR-001



Air-cooled scroll water chiller, 65 kW

A packaged chiller that uses a scroll compressor and an air-cooled finned condenser to produce chilled water for...

Model	OMC-25A
Cooling capacity	65 kW
Cooling capacity (OMC-25A)	67.5 kW / 58,050 kcal/h / 19.2 ton

FGR-HVR-002



Water-cooled screw chiller, 150-1,692 kW range

A packaged chiller using semi-hermetic screw compressors and shell-and-tube heat exchangers, rejecting heat to a condenser...

Model series	HWL (HWL150 to HWL1700D)
Cooling capacity	150-1692 kW
Input power	33.5-352 kW

FGR-HVR-003



Air-cooled glycol chiller for brewery, 5 HP

A compact air-cooled chiller that cools a glycol solution to sub-zero temperatures for fermentation tank jackets, bright tanks and...

Model	MG-5CL
Cooling capacity at -5 °C outlet	8.9 kW / 7,665 kcal/h / 2.5 tons
Input power	5.45 kW

FGR-HVR-004



Counter-flow open cooling tower, 300 m³/h

A square, induced-draft, open-circuit cooling tower in which air rises against falling water through PVC fill to cool...

Model	NSH-300
Nominal flow	300 m³/h
Fan motor power	11 kW

FGR-HVR-005



Closed-circuit cooling tower (cross-flow), 15-335 RT

An evaporative fluid cooler in which process fluid flows inside a sealed coil while spray water and air cool the coil, keeping the...

Series	KCH (cross-flow)
Capacity range	15RT-335RT
Coil	Stainless steel / red copper

FGR-HVR-006



Walk-in cold room, PU sandwich panel

A modular insulated room built from cam-locked polyurethane sandwich panels, fitted with a door, unit cooler and condensing un...

Temperature range	-35~+15 °C
Wall panel	PU panel (40-42 kg/m³) with cam-lock
Panel thickness	100 mm, 120 mm, 150 mm, 200 mm



Semi-hermetic air-cooled condensing unit, 6 HP

A refrigeration condensing unit combining a semi-hermetic reciprocating compressor, air-cooled condenser and controls to serve...

Model	JZBF06MY (chiller room range)
Compressor	Bitzer semi-hermetic reciprocating, 4EES-6Y
Compressor horsepower	6HP



Cold room unit cooler (evaporator), 2.2 kW

A ceiling-mounted finned-coil evaporator with axial fans and electric defrost that circulates cold air inside a freezer room.

Model	DD-2.2/12
Nominal capacity	2200 W at $t = -18\text{ °C}$, $\Delta t = 7\text{ °C}$
Cooling surface area	12 m ²



Industrial refrigerative dehumidifier, 360 L/day

A floor-standing compressor-type dehumidifier that removes moisture from air in warehouses, basements and...

Model	XCL-S360
Moisture removal capacity	360 L/day (30 °C, RH 80%)
Power	6300 W



Direct-expansion combined air handling unit

A modular sectional air handling unit with a direct-expansion cooling coil, filtration, heating and optional humidification, serve...

Cooling capacity range	12.1 kW-360 kW
Heating capacity range	12.6 kW-378 kW
Example model	35 kW
HZK05PTA:...	



Flake ice machine, 20 t/day

An industrial ice maker that freezes water on a refrigerated drum and scrapes it off as thin, irregular flakes for chilling fish, meat...

Daily capacity	20 t/24 h
Refrigeration capacity	131.4 kW
Total installed power	64.5 kW

All products, by category (1 of 3)

Code	Product	Category	Page
FGR-BBV-001	Brewhouse system, 1,000 L	Brewery and beverage	3
FGR-BBV-002	Cylindroconical fermentation tank (unitank)	Brewery and beverage	3
FGR-BBV-003	CIP clean-in-place unit	Brewery and beverage	3
FGR-BBV-004	Bright beer tank, 1,000 L	Brewery and beverage	3
FGR-BBV-005	Malt roller mill, 500 kg/h	Brewery and beverage	3
FGR-BBV-006	Keg washer and filler, two-head	Brewery and beverage	3
FGR-BBV-007	Yeast propagation tank, 1-10 hL	Brewery and beverage	4
FGR-BBV-008	Two-stage sanitary plate heat exchanger (wort cooler)	Brewery and beverage	4
FGR-BBV-009	Beverage carbonator and CO2 mixer, 2,000-3,000 L/h	Brewery and beverage	4
FGR-BBV-010	Tubular UHT pasteuriser, 2,000 L/h	Brewery and beverage	4
FGR-BBV-011	Reverse osmosis water treatment plant, 500 L/h	Brewery and beverage	4
FGR-TPV-001	Stainless steel liquid storage tank, 1 to 100,000 m³	Tanks and pressure vessels	5
FGR-TPV-002	Compressed air receiver, 1,000 L	Tanks and pressure vessels	5
FGR-TPV-003	Liquid oxygen (LOX) storage tank, 1,000 to 100,000 kg	Tanks and pressure vessels	5
FGR-TPV-004	Double-wall fuel storage tank, 1 to 100,000 m³	Tanks and pressure vessels	5
FGR-TPV-005	LPG storage tank, 1 to 100,000 m³	Tanks and pressure vessels	5
FGR-TPV-006	Liquid CO2 cryogenic storage tank, 1,000 to 100,000 kg	Tanks and pressure vessels	5
FGR-TPV-007	Jacketed stirred tank reactor, 500 L	Tanks and pressure vessels	6
FGR-TPV-008	Steam accumulator	Tanks and pressure vessels	6
FGR-TPV-009	GRP sectional panel water storage tank, 1 to 100,000 m³	Tanks and pressure vessels	6
FGR-TPV-010	ISO tank container, 20 ft T11, 25,000 L	Tanks and pressure vessels	6
FGR-TPV-011	PE-lined steel chemical storage tank, 1 to 100,000 m³	Tanks and pressure vessels	6
FGR-TPV-012	Hong Hui cryogenic liquid storage tank, 1 to 100,000 m³	Tanks and pressure vessels	6
FGR-TPV-014	Cryogenic liquid cylinder (dewar), 175 L to 1,000 L	Tanks and pressure vessels	6
FGR-PVH-001	End-suction centrifugal pump	Pumps, valves and hydraulics	7
FGR-PVH-002	Horizontal centrifugal slurry pump	Pumps, valves and hydraulics	7
FGR-PVH-003	Flanged floating ball valve	Pumps, valves and hydraulics	7
FGR-PVH-004	Hydraulic power unit	Pumps, valves and hydraulics	7
FGR-PVH-005	Submersible borehole pump, 4 inch	Pumps, valves and hydraulics	7
FGR-PVH-006	Vertical multistage centrifugal pump	Pumps, valves and hydraulics	7
FGR-PVH-007	Air-operated double-diaphragm pump, 2 inch	Pumps, valves and hydraulics	8
FGR-PVH-008	Progressive cavity (single screw) pump	Pumps, valves and hydraulics	8
FGR-PVH-009	Submersible non-clog sewage pump	Pumps, valves and hydraulics	8
FGR-PVH-010	Rubber-seated butterfly valve, PN10/16	Pumps, valves and hydraulics	8
FGR-PVH-011	Double-acting tie-rod hydraulic cylinder	Pumps, valves and hydraulics	8
FGR-PVH-012	Cast steel swing check valve	Pumps, valves and hydraulics	8
FGR-MHL-001	Electric chain hoist, 2 t	Material handling and lifting	23
FGR-MHL-002	Troughed belt conveyor	Material handling and lifting	9

All products, by category (2 of 3)

Code	Product	Category	Page
FGR-MHL-011	Belt bucket elevator	Material handling and lifting	10
FGR-MHL-012	Gravity roller conveyor	Material handling and lifting	10
FGR-MFG-001	High-shear mixer	Process and manufacturing machinery	11
FGR-MFG-002	Horizontal decanter centrifuge	Process and manufacturing machinery	11
FGR-MFG-003	Hammer mill	Process and manufacturing machinery	11
FGR-MFG-004	Electronic universal testing machine	Process and manufacturing machinery	11
FGR-MFG-005	Double planetary mixer with high-speed disperser	Process and manufacturing machinery	11
FGR-MFG-006	Disc stack separator centrifuge	Process and manufacturing machinery	11
FGR-MFG-007	Manual Rockwell hardness tester	Process and manufacturing machinery	12
FGR-MFG-008	Horizontal ball mill 900 × 3000	Process and manufacturing machinery	12
FGR-MFG-009	Jaw crusher PE250 × 400	Process and manufacturing machinery	12
FGR-MFG-010	Round vibrating sieve (vibro screen)	Process and manufacturing machinery	12
FGR-MFG-011	CNC flat-bed lathe CK6140	Process and manufacturing machinery	12
FGR-MFG-012	Centrifugal spray dryer LPG-25	Process and manufacturing machinery	12
FGR-MPA-001	IE3 three-phase induction motor	Motors, power and air	13
FGR-MPA-002	Low-voltage variable frequency drive	Motors, power and air	13
FGR-MPA-003	Silent diesel generator set	Motors, power and air	13
FGR-MPA-004	Rotary screw air compressor	Motors, power and air	13
FGR-MPA-005	Industrial axial fan	Motors, power and air	13
FGR-MPA-006	Helical in-line gear reducer (gearmotor)	Motors, power and air	13
FGR-MPA-007	Motor soft starter 185 kW	Motors, power and air	14
FGR-MPA-008	Permanent-magnet synchronous motor 11 kW	Motors, power and air	14
FGR-MPA-009	Flameproof (Ex d) induction motor 15 kW	Motors, power and air	14
FGR-MPA-010	Natural gas generator set 100 kW	Motors, power and air	14
FGR-MPA-011	Refrigerated compressed-air dryer 0.6 Nm ³ /min	Motors, power and air	14
FGR-MPA-012	Three-lobe Roots blower 150 mm	Motors, power and air	14
FGR-MPA-013	Diesel mobile light tower 4 x 1000 W	Motors, power and air	14
FGR-EIC-001	Low-voltage switchgear and motor control centre	Electrical and instrumentation	15
FGR-EIC-002	Electromagnetic flow meter	Electrical and instrumentation	15
FGR-EIC-003	Pressure transmitter, 4 to 20 mA	Electrical and instrumentation	15

All products, by category (3 of 3)

Code	Product	Category	Page
FGR-PKG-009	Rotary premade pouch packing machine	Packaging machinery	18
FGR-PKG-010	Automatic arch carton strapping machine	Packaging machinery	18
FGR-PKG-011	Conveyor checkweigher with pusher rejector	Packaging machinery	18
FGR-TPE-001	Corded angle grinder, 230 mm	Tools, hardware and PPE	19
FGR-TPE-002	Magnetic core drilling machine	Tools, hardware and PPE	19
FGR-TPE-003	Industrial safety helmet	Tools, hardware and PPE	19
FGR-TPE-004	Inverter MIG/MMA welding machine 350 A	Tools, hardware and PPE	19
FGR-TPE-005	Inverter air plasma cutter 60 A	Tools, hardware and PPE	19
FGR-TPE-006	Cordless brushless impact wrench 1/2"	Tools, hardware and PPE	19
FGR-TPE-007	SDS-plus rotary hammer drill 26 mm, 800 W	Tools, hardware and PPE	20
FGR-TPE-008	Half-face reusable respirator	Tools, hardware and PPE	20
FGR-TPE-009	Full-body safety harness (fall arrest)	Tools, hardware and PPE	20
FGR-TPE-010	Auto-darkening welding helmet	Tools, hardware and PPE	20
FGR-TPE-011	Steel-toe leather safety boots (S3)	Tools, hardware and PPE	20
FGR-HVR-001	Air-cooled scroll water chiller, 65 kW	HVAC and refrigeration	21
FGR-HVR-002	Water-cooled screw chiller, 150-1,692 kW range	HVAC and refrigeration	21
FGR-HVR-003	Air-cooled glycol chiller for brewery, 5 HP	HVAC and refrigeration	21
FGR-HVR-004	Counter-flow open cooling tower, 300 m³/h	HVAC and refrigeration	21
FGR-HVR-005	Closed-circuit cooling tower (cross-flow), 15-335 RT	HVAC and refrigeration	21
FGR-HVR-006	Walk-in cold room, PU sandwich panel	HVAC and refrigeration	21
FGR-HVR-007	Semi-hermetic air-cooled condensing unit, 6 HP	HVAC and refrigeration	22
FGR-HVR-008	Cold room unit cooler (evaporator), 2.2 kW	HVAC and refrigeration	22
FGR-HVR-009	Industrial refrigerative dehumidifier, 360 L/day	HVAC and refrigeration	22
FGR-HVR-010	Direct-expansion combined air handling unit	HVAC and refrigeration	22
FGR-HVR-011	Flake ice machine, 20 t/day	HVAC and refrigeration	22



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