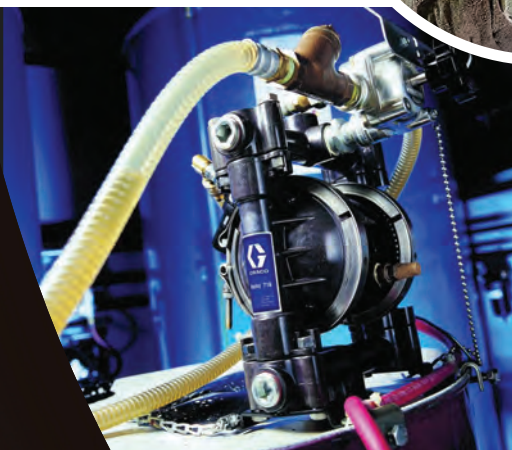
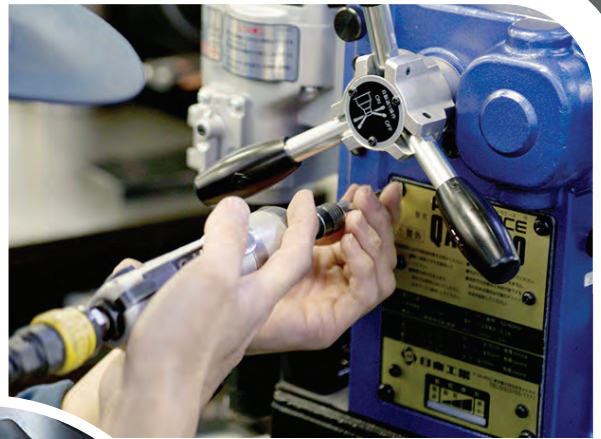




INDUSTRIAL SOLUTIONS PRODUCT CATALOGUE





YOUR INDUSTRIAL PARTNER

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Middle East Fuji LLC

Middle East Fuji LLC is a subsidiary company of Fuji Trading Co, Ltd. Japan and is among the leading Marine supply, Engineering & Industrial products / services provider in the Middle East. We represent various leading manufacturers of Marine & Industrial products as agent and distributors in the Middle East

Facilities & Services

- Head office & main warehouse (over 100,000 Sq Feet) located in Al-Quoz Industrial Area Dubai.
- Equipment Sales and Services
- Stock of wide range of Industrial Equipment and Spare Parts.
- Branch offices at Abu Dhabi, Fujairah, Ras Al Khaimah, Doha, Muscat, Salalah, Jeddah, Dammam and Riyadh
- Over 300 Skilled & experienced staff.
- Comply with ISO 9001 2015 standard with total computerized operation (ERP Solution).
- Availability of Training room & repair facility.
- Own Fleet of transporting trucks.



We work hard to meet our customer expectations, and to keep it consistent by implementing international management standards



MEF's Vision is to 'Be the Best Service Provider in the Region', as measured by Customer Satisfaction, Quality of Service, Financial Profitability, Growth and high standards of Health & Safety.

We represent various reputed manufacturers of quality industrial equipment. with a team of factory trained sales engineers & technicians we support our customers both on site & at our facilities with sales & rental fleet of equipment.



Boring and Punching



Durable Japanese Made Machines

Portable Magnetic Drilling & Boring Machines made to suit GCC work and climate conditions!

- One-touch cutter replacement
- Coolant into the Heart of the cut
- Built-in motion sensor
- Fail-safe restart
- Magnet open-circuit sensor

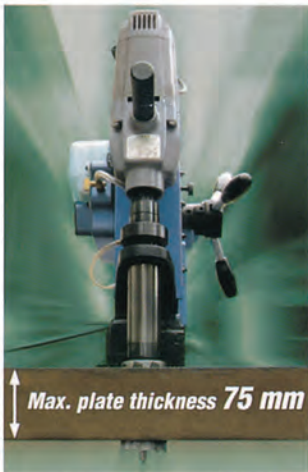
- Slow start mechanism
- Auto-feed
- Load sensor
- Variable speed
- Cycle stop
- Overload stop



WA-5000



Very fast mounting and removing of cutters, with different size of cutters available.



Mounting the cutter



Removing the cutter



Model	QA-4000	QA-6500	WA-3500	WA-5000	AO-5575	WOJ-3200	A-100	LO-3550		
	Full Automatic		Automatic			Manual				
Power source (Single Phase)	220-240VAC, 50/60 Hz									
Power Consumption	Watt	680	1,010	1,100	1,150	1,150	950	1,600	800	
Electric Drill No Load Speed	RPM	750	400/750	950	350/650	350/650	870	330	950	
Magnet Power Consumption	Watt	50	75	34	75	50	70	330	35	
Max. Cutting Capacity	Hole Dia.	mm	40	65	35	50	55	32	100	35
	Plate Th.	mm	35	50	35	75	75	50	75	50
Magnet Holding Power	N	6,664	9,800	7,056	9,800	10,000	9,000	17,640	5,500	
Overall Dimensions WxDxH	mm	215 x 407 x 535	215 x 455 x 535	237 x 409 x 535	237 x 425 x 613	86 x 296 x 611	99 x 318 x 361	318 x 705 x 575	65 x 316 x 280	
Magnet Dimensions WxD	mm	82 x 172	100 x 200	92 x 216	101 x 201	86 x 170	99 x 177	130 x 256	65 x 145	
Weight	Kg	18.5	26	20	23	18	13	50	8.7	



**made
in
JAPAN**



WOJ-3200



Optional One-Touch Adapter

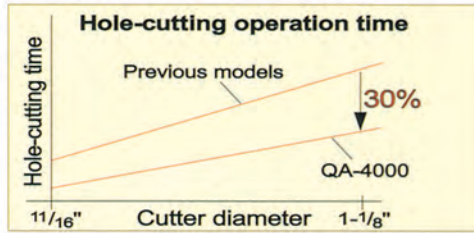
Optional one touch adapter allows the use of up to 13mm twist drills to be used in the original arbor.

Quick Autos : Reduce Drilling Time!
 Because of Nitto's automatic-feed mechanism, total drilling time is 30% less than older style manual feed magnetic drills. Our automatic drills constantly monitor resistance on the cutter and adjust feed rates accordingly. Ultimately holes are cut as quickly and efficiently as possible while maintaining cutter life.



QA-4000

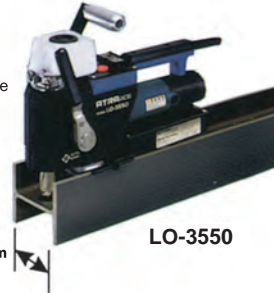
Features/Model	QA-4000	QA-9500	WA-3500	WA-5000	AO-5575	WOJ-3200	A-100	LO-3550
Overload Stop	✓	✓	✓	✓	✓	✓	✓	✓
One-touch Cutter Replacement	✓	✓	✓	✓	✓	✓	✓	✓
Fail-Safe Restart	✓	✓	✓	✓	✓	✓	✓	✓
Magnet Open-Circuit Sensor	✓	✓	✓	✓	✓	✓	✓	✓
Integrated Cooling Tank	✓	✓	✓	✓	✓	✓	✓	✓
Built-in Motion Sensor	✓	✓	✓	✓	✓	✓	✓	✓
Slow Start Mechanism	✓	✓	✓	✓	✓	✓	✓	✓
Automatic Feed	✓	✓	✓	✓	✓	✓	✓	✓
Variable Speed Adjustment	✓	✓	✓	✓	✓	✓	✓	✓
Cycle Stop	✓	✓	✓	✓	✓	✓	✓	✓
Auto Return	✓	✓	✓	✓	✓	✓	✓	✓



Optional Chip Breaker



The smallest portable magnetic boring machine ever made!



LO-3550

65mm

Portable Hydraulic Puncher



New design adopted for punching steel, stainless steel. Punching round or elongated holes on steel plates, H-beam steel, framework, and on-site punching holes on shaped steels.



HS11-1624

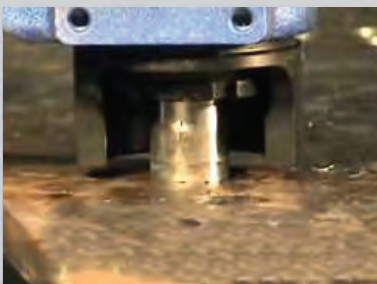


HA11-1624



E55-0619

- Portable punchers and pumps are ideal for on-site punching.
- Full punching cycle is automated after the start button is depressed.
- Inching function (manual operation) is also available.
- Full punching cycle is automated after the start button is depressed.
- An emergency switch stops the punch instantly at any time.
- A special urethane spring is built-in to return the punch.
- Hydraulic pump and power-motor combination in a simple body for outstanding workability.
- No hydraulic hose, extremely small mounting space exactly fits the needs of worksite.



12 sec. for one hole!

Model		HANDY SELFER			SELFER ACE				
		E25-0615	E55-0619	HA06-1322	HA07-1624	HA11-1624	HS06-1322	HS07-1624	HS11-1624
Max. Throat Depth	mm	25	55	60	70	110	60	70	110
	Th. mm	6	6	13	16	16	13	16	16
Max. Punching Capacity	Dia mm	15	19	22	24	24	22	24	24
	Sec	4	2	10.5	16.5	16.5	7.9	11.8	11.8
Return Time	Sec	4	2	-	-	-	3.4	5.7	5.7
Ram Stroke	mm			21	25	25	21	25	25
Weight	kg	7	14	21.5	28.5	35.5	20.5	25.5	30
Power Source	1ph	220-240VAC, 50/60			Single Acting Hydraulic Pump			Double Acting Hydraulic Pump	
Motor Power	w	305	670						



HPD-05 Double Acting Hydraulic pump

Model		HPD-05	SC-05
Power Source	1ph	115v/230VAC 50 Hz	
Acting Mode		Double	Single
Max. Output Pressure	bar	686.5	
At No Load	L/min	1.2	
Motor	Watt	400	
Reservoir Capacity	L	4	
Weight	kg	32.5	27.5

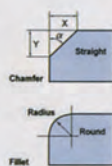
Portable Chamfering Tools



Superior cold cut bevelling for straight, round, and orbital edges by portable, lightweight, and durable tools.



With optional attachment for pipes up to 800 mm dia.



Model		HAND BEVELER			CIRCUIT BEVELER	
		HB-158	EMB-0307C	MB-03A	ECB-0203	CB-02
Power Source	50/60Hz	1PH, 220-240 vac				
Rated Power Consumption	Watt	910	1,010	430	450	Pneumatic
Chamfering Capacity	Mild Steel	0C-15C	0C-7C, 2R, 3R, 4R	0C-3C, 2R, 3R	0C-3C, *2R, *3R	0C-2C, 2R
	Stainless Steel	-	0C-3C, 2R, 3R, 4R	-	0C-1.5C, *2R	-
Chamfer Angle		15°-45°	15°-45°	45°	45°	45°
Weight	kg	15	3.9	2.5	2.5	1.8
Remarks			Available in Pneumatic type			

DELVO

Electric Screw Drivers

Nitto Kohki's "Delvo" Electric Screwdrivers are high-quality tools for professional use, with special emphasis on precision torque control and long life.

They always apply just the correct amount of torque with accurate and positive control at your fingertips. They are smooth and shockless in operation too, with eco-friendly Brushless motor.



AIR SONIC

Pneumatic Die Grinders

Ergonomically designed pneumatic die grinders, work on all metals, wood, and plastics, even extremely hard and exotic materials.



L-25B



AL-55



Model		L-25B	L-35C	AL-55
Rated Air Pressure	Bar	6	6	6
Air Consumption (No Load)	m3/min	0.4	0.35	0.17
Free Speed	rpm	27,000	37,500	56,500
Size of Collect Chuck	m/m	6	6	3
Hose Size	inch	1/4	1/4	1/4
Weight	kg	0.6	0.45	0.25



Surface Cleaning



Full Automatic System
The only unit of it's kind on the market without springs. This means no springs to break... no irregular power... and the advantage of low air consumption.

Shot Peening Effect
Reinforcement of the deteriorated part by shot peening effect. Increase the strength through imparting a residual stress to the surface of a workpiece by high speed tapping of the needle punch. Most suitable for a reinforcement of deteriorated parts in the welder.

JET CHISELS

Powerful scaling with multi-needles.



Removal of spatter after welding, rough chipping concrete and stone slabs, work similar to sand blasting and shot blasting of castings and painted finishes, chipping welding slag, removing paint and rust from panels and sheet metal, and removal of other encrusted materials.



Model		JT-20	JC-16	JEX-24	JEX-28
Rated Air Pressure	Bar	6	6	6	6
Air Consumption (No Load)	m ³ /min	0.2	0.15	0.27	0.35
Stroke Speed	rpm	4,000	4,000	4,000	4,500
Needles	mm	OD 3 x 180 (12pcs.)	OD 2 x 150 (29pcs.)	OD 2 x 180 (23pcs.)	OD 3 x 180 (28pcs.)
Hose Size	inch	3/8	3/8	3/8	3/8
Weight	kg	2.4	1.4	2.7	3.5

Model	EJC-32A	
Power Source	1 PH	115 V AC 60 Hz / 230 V AC 50 Hz
Power Consumption	W	300
Rated Current	A	2.8 / 1.4
Stroke Speed	min-1	3,000
Needles	mm	OD 3 x 180 (15 pcs.)
Power Cord	m	5
Weight	kg	4.5

- Jet Chisel needles adjust to any surface contour automatically. They get deep into corners, all the way into uneven surfaces, and all types of curvatures.
- Hard steel needles blow at stroke speed of 4,000 - 4,500 per minute. (Pneumatic scaler)
- Side handle can be turned to any position in accordance with job positions. (Electric scaler)

AIR CHIPPER

Chipping after welding is EASY!

- Suitable for chipping after welding and removing solid substances adhered to the works at job sites.
- Easy chisel replacement is made to excellent operation.
- The straight grip-to-chisel design is suitable for operation in narrow or secluded area.

CH-24

ACH-16



Model		ACH-16	CH-24
Rated Air Pressure	Bar	6	6
Air Consumption (No Load)	m ³ /min	0.15	0.2
Stroke Speed	min-1	6,000	4,000
Size of Chisel Shank	mm	OD 10.5	12.7 WAF*
Hose Size	inch	3/8	3/8
Weight	kg	0.9	1.7

*WAF stands for width across flat.

Grinding and Sanding

BELTON

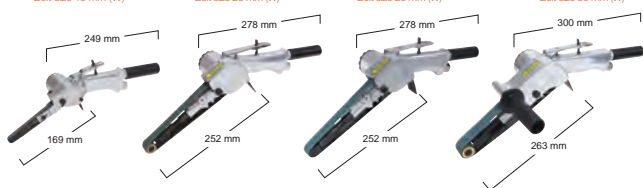
Pneumatic Belt Sanders



The most versatile belt sander ever developed!

Bear grind-off, casting finish, furniture surface finish, plastic products profile adjustments, mold sanding & adjustment, spot weld head-off finish, die-cast finish, stamped sheet metal trimming & chamfering, and iron parts surface sanding.

- BELTON-10**
Model **B-10CL**
• Belt size 10 mm (W)
- BELTON-20**
Model **B-20CL**
• Belt size 20 mm (W)
- BELTON-20**
Model **B-20CL-A**
• Belt size 20 mm (W)
- BELTON-30**
Model **B-30CL**
• Belt size 30 mm (W)



Specifications		B-10CL	B-20 CL	B-20 CL-A	B-30 CL
Model					
Air Pressure	MPa (kgf/cm ²)			0.6 (6)	
Air Consumption (No-load)	m ³ /min	0.4		0.48	0.82
Free Speed	min ⁻¹ (rpm)	17000		18000	15000
Belt Speed	m/min	1120		2770	2310
Belt Size	mm	10 x 330		20 x 520	30 x 540
Inlet Size				Rc 1/4	
Mass (Weight)	kg	0.9	1.6	1.5	2.4

- Suitable for sanding and grinding in narrow spaces, recessed areas and on curved surfaces
- Quick belt change
- Rear exhaust system

MYTON

Pneumatic Grinders

Deburring, cleaning and smoothing jobs typical at fabrication shops, foundries, refineries, shipyards, power plants and a variety of sites for other industries.

- All models are angle type mighty grinders with silencer.
- Available for light-duty to heavy-duty range of grinding work.

Model		MLG-25	MLG-40	MAGW-40	MAG-50	MAG-70
Rated Air Pressure	Bar	6	6	6	6	6
Air Consumption (No Load)	m ³ /min	0.42	0.45	0.68	0.87	0.75
Free Speed	rpm	19,000	13,000	13,000	12,000	7,600
Depressed Center Wheel	mm	OD 58	OD 100	OD 100	OD 125	OD 180
Hose Size	inch	1/4	3/8	3/8	3/8	3/8
Weight	kg	0.6	1.5	1.55	2.2	2.45



MYTON

Pneumatic Sanders

High performance yet quiet sanding.



Good for all kinds of sanding jobs especially in limited spaces or those require high sanding performance.

- Uses one-touch disc pads (MAS-20B)
- Ideal for sanding in tight spots (MAS-20B)
- High performance sander good with disc paper (MAS-40)

Model		MAS-20B	MAS-40
Rated Air Pressure	Bar	6	6
Air Consumption (No Load)	m ³ /min	0.4	0.45
Motor Free Speed	rpm	22,000	13,000
Abrasive Disk		OD 1", OD1-1/2" and OD 2"	OD 100 mm
Hose Size	inch	1/4	3/8
Weight	kg	0.5	0.9

POWER TOOLS

AUTO CHISEL - AIR HAMMER



A-300



More chisel shapes are also available

Enable the work to be done in narrow space where ordinary hammering work is impossible. The respective parts employ high material and are subjected to high precision process. Stroke speed 2,600 stroke/min and weight is 1.7 kg.



SSW110

Pneumatic Hacksaw, with Special double-piston system achieves low vibration, with a stroke of 11 mm, speed of 7,000 stroke/min, and weight of 0.6 kg!

AIR DRILL



Pneumatic hand drill with Built-in silencer, reversible rotation switch, and variable speed adjustment.

Model		ADR-65	ADR-100
Rated Air Pressure	bar	6	6
Air Consumption (No Load)	m ³ /min	0.55	0.67
Free Speed	rpm	2,900	2,000
Max. Drilling Capacity	mm	6.5	10
Weight	kg	0.8	1.1

SUPER KELEN

Pneumatic scaler, achieves labor savings in industrial, shipboard descaling and cleaning jobs.

- Removes solid substances such as rust and concrete adhered to mixer panels.
- Employ idle running proof structure with 2,500 rpm stroke high speed.
- Three types of bar length are available in accordance with applications.



Model		S-250	S-500	S-1000
Rated Air Pressure	Bar	6	6	6
Air Consumption (No Load)	m ³ /min	0.27	0.27	0.27
Stroke Speed	min-1	2,500	2,500	2,500
Size of Chisel Shank	mm	OD 12.7	OD 12.7	OD 12.7
Hose Size	inch	1/4	1/4	1/4
Dimension	mm	OD 630x49	OD 890x49	OD 1370x49
Weight	kg	4.1	4.7	6.1

TIGON

Improves work safety and efficiency.

Retractors Sizes

Model	RW-0	TW-1R	RW-3	RW-5
Capacity (kg)	0.5-1.5	0.5-1.5	1.0-3.0	2.5-5.0
Stroke (m)	2	1.5	2	2
Weight (kg)	0.50	0.40	0.70	0.90

Spring Balancers Sizes

Model	TW-00	TW-0	TW-3	TW-5	TW-9	TW-15	TW-22	TW-30	TW-40	TW-50	TW-60	TW-70
Capacity (kg)	0.5-1.5	0.5-1.5	1.0-3.0	2.5-5.0	4.5-9.0	9.0-15.0	15.0-22.0	22.0-30.0	30.0-40.0	40.0-50.0	50.0-60.0	60.0-70.0
Stroke (m)	0.5	1	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Weight (kg)	0.50	0.60	1.60	1.70	3.90	4.30	8.10	8.70	10.60	11.30	12.20	12.70

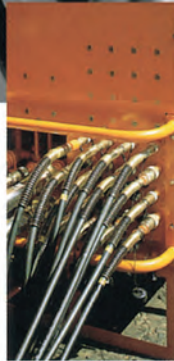
Retractors



Spring Balancer



Quick Connect Couplings



Nitto Kohki's unique technologies and dedicated research have been proven by numerous patents, which led to the development of 25,000 different Cupla variations.

- Applications diversify from general household to high-tech industries such as in oceanic and space development.
- Diameters range from a tiny 1mm to a huge 540mm.
- Wide varieties of body materials such as steel, brass, plastic, aluminum or stainless steel are available.

Some Applications



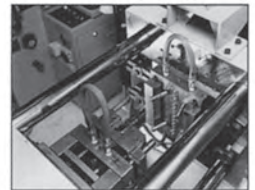
Air Point



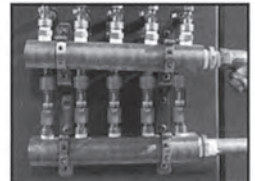
Oxy Fuel Cutting Torch



Mold Cooling



Flow Meter



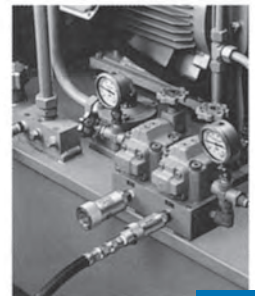
A/C Unit Test



Compressor Test



Hydraulic Applications



TIGON Hose Reel.

Hose reels to transport fluid from a vertical point, the hose retracts back when released.

Model	Capacity (kg)	Storke (m)	Hose Dia (mm)	Weight (KG)
HW-0	0.5-1.5	1.3	Ø6.5/10.0	1.60
HW-3	1.5-3.0	1.3	Ø6.5/10.0	1.70
HW-5	3.0-5.0	1.3	Ø6.5/10.0	1.80





POWER
AND PRECISION
IN PERFECT
HARMONY

Fuji has manufactured tools for some of the toughest and most demanding industrial environments in Japan and on the planet. This has resulted in a wide range of robust and long lasting material removal tools that is the preferred choice for metalworking in Japan and many places overseas. Our range of assembly tools and error proofing solutions was born from the needs of the Japanese manufacturing industry and delivers quality and safety together with speed of operation and ergonomic handling.

FA 20 SERIES ANGLE GRINDERS

- Compact & Low head
- Powerful
- Low Vibration



FW - 330 SERIES IMPACT WRENCH

- Powerful
- Durable
- Ergonomic



FLT *3 SERIES SHUT-OFF PLUSE TOOLS



- 3 Times Longer Service life
- High Torque Accuracy
- Low Noise/Vibration
- High Productivity
- Ergonomic Design

FRC-200S1-STEEL MILLING MACHINE



- 3 Times Faster than a grinder to flatten weld seam
- Preserve the working surface.
- Comfortable and easy to handle.



GF6



GF4



Cutting and beveling:

- high-alloy steel (stainless steel)
 - low-and unalloyed steel
 - plastics
 - casting materials and
 - non-ferrous metals
- in just seconds, using the "Planetary Cutting" technology.

PS 4.5



Cutting thin-walled tubes and elbows using the superior "Planetary Cutting Technology".

Deformation-free clamping system by integrated clamping jaws made from coated cast aluminum.

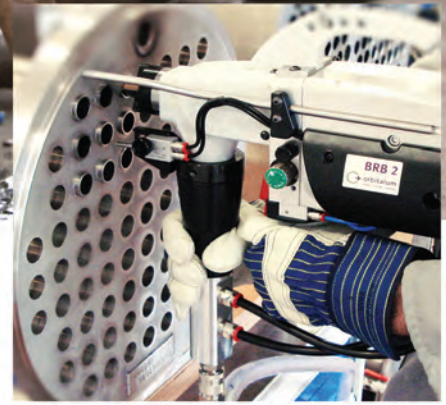
GFX 3



New, innovative saw from Orbitalum Tools for cutting and beveling of tubes and elbows in just seconds. The perfect preparation for orbital welding!



Pipe Beveling Equipment



BRB4



REB



RPG 3

Model	BRB2-Kit1	BRB2-Kit2	REB6	REB14	RPG2,5	
Drive	Pneumatic	Pneumatic	Electrical	Electrical	Electrical	
Power	0.38	0.38	1.2	1.2	1	
Speed	0-120	0-120	10-32	5-16	9-153	
Power Supply	50/60Hz	NA	1PH230V	1PH230V	1PH230V	
Air Supply	m3/min	0.7	0.7	NA	NA	
Pipe ID	mm	12.75-25.5	19.1-46.0	49-159	92-320	-
Pipe OD	mm	16.75-41.5	23.0-62.0	56-168	100-355.5	6.35-63.5
Wall Thickness	mm	2-8	2-8	3-22	4-30	Max.3

The most powerful pipe end preparation solution. Counterboring and axial turning of pipes made from high-alloy steel (stainless steel), low-alloy and carbon steel. Designed for pipe end preparation and boiler pipe applications.



ESG TUNGSTEN ELECTRODE GRINDER



Mobile Welder OC Plus

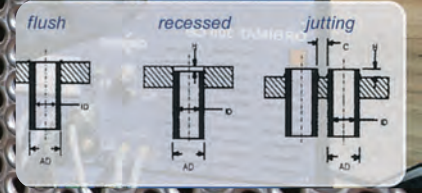
Portable orbital welding power source

The Mobile Welder OC Plus is the first portable orbital welding power source designed specifically for use on the construction site. The Mobile Welder OC Plus brings the usual high and consistent quality of orbital welding to even the most remote locations.

The lightweight and robust design is equipped with state-of-the-art information and communication technology and builds on the strengths of the Orbimat 180SW - our established Smart Welder.

- Simple.
- Portable.
- Modular.





300SW



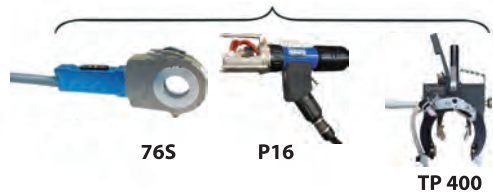
Orbital welding power supplies ORBIMAT CA

The ORBIMAT CA advanced series of orbital welding power supplies are equipped with a new and unique operating concept.

In addition to the reliable automatic programming which generates welding parameters by entering the tube diameter, wall thickness, material, and welding gas all ORBIMAT CA models also have the exclusive new development FLOW FORCE to reduce the pre-flow gas time when the weld heads are closed in the standard model and BUP control function with controllable, position-dependent tube internal pressure control as an optional extra.



180SW



76S

P16

TP 400

Model	from tube ID to Tube OD (mm)	Weight (kg)
Tube-to-Tube-Sheet p16	10 - 78	17.5

Model	Tube OD (mm)	Weight (kg)	
Open weld head	TP 250	20 - 77	10.5
	TP 600	70 - 170	13.8
Closed weld head	76 S	6 - 77	9.0
	115	20-115	20.7



ORBICAR

Optional trolley and cooling system

OW76S



Fluid Handling



Diaphragm Pumps

GRACO process equipment line includes air-operated double diaphragm pumps, peristaltic hose pumps, piston pumps and high pressure cleaning equipment for low to high viscosity fluids for a variety of aggressive applications.



Model	Husky	515	716	1050	1590	2150	3300	3275
Body Material		Plastic	Metal	Plastic / Metal	Plastic / Metal	Plastic / Metal	Plastic	Metal
Connection Size	in	1/2	3/4	1	1-1/2	2	3	3
Max. Flow Rate	Lit/min	57	61	189	379	568	1059	1135
Max. Discharge Pressure	bar	7	7	8.6	8.3	8.3	7	8.6
Max. Solids	mm	2.5	2.5	3.2	4.8	6.3	12.7	12.7



Model	SaniForce	515	1040	1590	2150	1590 HS & 3-A	3150 HS & 3-A	Meat / Poultry
Max Flow Rate	Lit/min	61	151	340	568	340	568	568
Max Fluid Pressure	bar	7	8	8	8	8	8	8
Suction Lift (Wet)	m	7.6	8.84	8.84	8.84	8.5	5.5	3
Max Pumpable Solids	mm	2.38	3.2	4.8	6.3	15.9	25.4	63.5
Max. Fluid Viscosity	cps	10,000	10,000	15,000	20,000	15,000	20,000	25,000



SaniForce 6:1 Sanitary Drum Unloader

SaniForce 3150 Bin Evacuation System



The SaniForce 6:1 Sanitary Drum unloader features an on-demand workflow capability and can also be taken apart quickly for applications that require frequent sanitation. Available in double ball and priming piston designs for additional system flexibility.



The SaniForce 3150 bin evacuation system (BES) evacuates viscous products from their original 300-gallon containers without diluting the material. Standard with an inflatable ram plate seal, the BES allows a quick replacement of the empty container. An all-pneumatic version is available for applications that do not require metering or batch control and an electronic version is available for those applications that do.



CUBITRON II
Industrial Abrasives



Introducing 3M™ Cubitron™ II Fibre Disc 982CX Pro

featuring re-engineered
3M Precision-Shaped Grain and
redesigned construction.

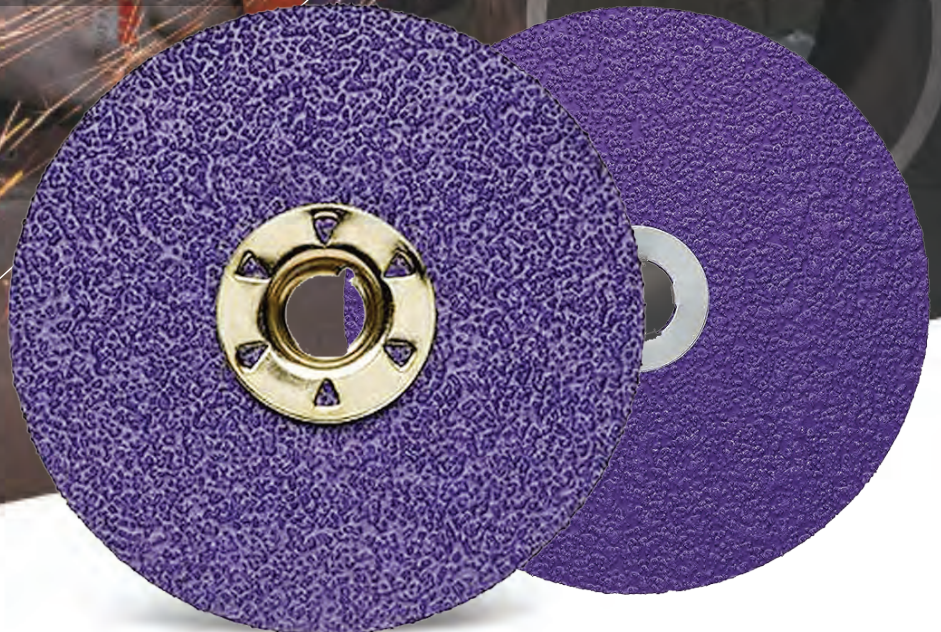
How the best get better.

Boost productivity and your bottom line.

Introducing the new 3M™ Cubitron™ II Fibre Disc 982CX Pro and the new 3M™ Pneumatic Angle Grinder and Pneumatic Sander. The new fiber discs that cut even faster and last even longer than our legendary Cubitron™ II Fibre Discs. When paired with our tools and recommended back-up pads, the system gives you more power than ever before. It's performance, power and productivity optimized.

Cuts
33%
Faster
than Cubitron™ II
Fibre Discs 982C

Introducing 3M™ Cubitron™ II
Fibre Disc 982CX Pro
featuring re-engineered
3M Precision-Shaped Grain and
redesigned construction.



BORN TO GRIND.

3M.com/abrasives

COATED AND BONDED ABRASIVES

3M Abrasives

3M's experience of working in partnership with a wide range of industries has enabled us to develop a comprehensive range of abrasive solutions designed to deal with mild steel and stainless steel.



3M™ Flap Discs 769F Harness the power of 3M

Precision-Shaped Grain at a price that's affordable for everyday use.

- Grinding, Beveling, Blending
- Finishing & surface prep
- Scale and weld spatter removal

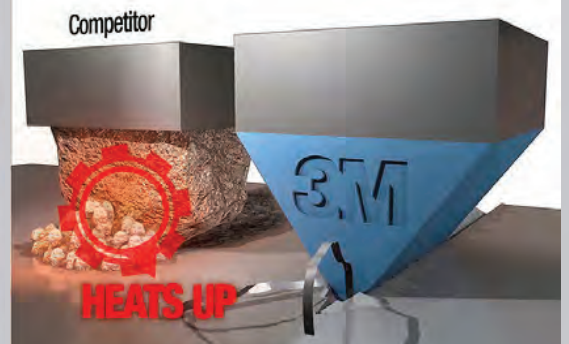
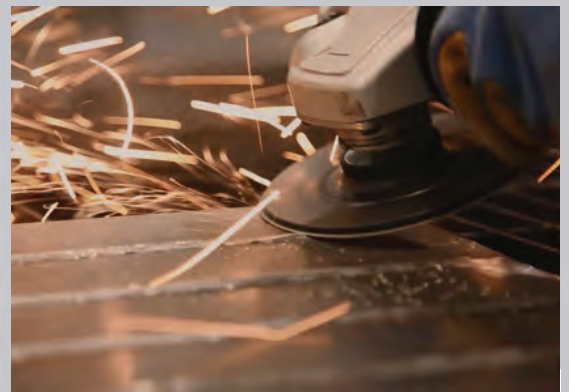


3M™ Silver Depressed Centre Grinding Wheel, 51787

- Perfect for heavy grinding, beveling and weld removal
- 3M Precision Shaped Grain cuts cleanly and fast, helping to increase productivity
- Long-lasting wheel provides great performance value
- Use on a variety of substrates such as carbon steel and stainless steel
- Works with tools and accessories designed for depressed centre grinding wheels



- Metal bond secures diamond particles for long-lasting performance
- Premium low-stretch backing supports various grinding applications
- Works well on a variety of materials: stone, glass, ceramic, metal carbide and composites
- Open dot pattern allows swarf and debris to escape, helping to prevent loading



For more than 100 years, 3M has been a world leader in developing advanced Abrasives products and systems. Some familiar brands include, Scotch-Brite, Wet-or-dry, Cubitron, Trizact, Roloc, Green Corps and Hookit. 3M™ offers innovative Abrasive solution for grinding, cutting, blending, sanding, dimensioning, cleaning, stripping, resurfacing, fluting, polishing or finishing.



982C

3M™ Cubitron™ II Fibre Disc 982C outperforms conventional ceramic industrial abrasive discs. Our discs feature 3M Precision Shaped Grain technology, offering up to twice the cut rate, durability and lifespan of conventional discs with less grinding pressure required.



782C

3M™ Fibre Disc 782C is a fibre disc engineered for an ultra-rapid cut on carbon steel. These discs feature our advanced abrasive technology, 3M Precision Shaped Grain. Their stiff fibre backing and strong resin bond provides durability and tear resistance. These discs are compatible with 3M disc pad face plates and hubs (sold separately).



51889

Scotch-Brite™ Clean and Strip XT Pro Extra Cut Disc utilizes aluminum oxide abrasive in an open nylon web to efficiently eliminate challenging coatings like heavy rust, thick paint, and corrosion. It swiftly removes these layers while also blending and refining the underlying bare metal. The disc's high conformability ensures a larger contact patch for a faster removal rate, making it effective in cleaning welds and restoring surfaces.



969F

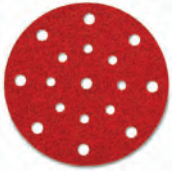
3M™ Cubitron™ II Flap Disc 969F is made with layers of abrasive material. Our flap discs are unique in design and feature a fast cutting abrasive material on flaps of tough polyester cloth. These discs come with a grinding aid and semi-flexible, Y-weight, backing gives each flap excellent strength.





775L

3M™ Cubitron™ II Hookit™ Film Disc 775L features 3M™ Precision Shaped Ceramic Grain a revolutionary advancement in abrasive technology. Our film discs can cut up to twice as fast and last up to six times as long as normal abrasives.



950U

3M™ Cubitron™ II Hookit™ Disc 950U is an abrasive disc designed to deliver high performance in body-in-white applications. It's powered by fast-cutting, long-lasting 3M Precision-Shaped Grain in a super-open-coat construction that resists loading with sanding swarf. The E-weight paper backing is specially designed for sanding metal.



710W

Dust extraction meets industry-leading cut-rate in 3M Xtract™ Cubitron™ II Net Disc 710W. This premium sanding disc features a unique abrasive pattern on a net backing that allows for virtually dust-free sanding, with legendary 3M™ Precision-Shaped Grain technology. You'll finish more parts per disc with less dust in the environment, boosting productivity without sacrificing worker health.



7447

Scotch-Brite™ General Purpose Hand Pad 7447 combines flexible fibers with outstanding cut to help you accomplish tough cleaning jobs or produce fine finishing results, use after use. It is a superior alternative to steel wool, wire brushes, sandpaper, and other non-woven products for cleaning or finishing tasks.



SC-DR

Scotch-Brite™ Roloc™ Surface Conditioning Disc combines our durable, non-woven disc with the efficient Roloc quick-change attachment system, for effective cleaning, finishing, blending and deburring. These discs use non-woven fibre which conforms well to irregular surfaces.

3M™ Random Orbital Sander, Xtract Pneumatic 88958, 6"

This helps in delivering high-quality surface preparation and finishing results with your 3M™ Abrasives.

- SELF-GENERATED VACUUM (SGV): Uses the inlet air to create its own venturi vacuum that extracts the dust from the work surface and expels it through a wide collection port on the back of the tool into a filter bag
- POWERFUL AND PRECISION-BALANCED 209W MOTOR.
- APPLICATIONS: Metal fabrication, primer sanding, gelcoat sanding, composite sanding, and woodworking.
- PART OF THE 3M XTRACT CLEAN SANDING SOLUTIONS: When used with 3M Xtract Net Discs and dust extraction, the system extracts up to 97% of the dust created during sanding.





 **Speedglas™**
Welding Safety

3M™ Speedglas™ Welding Safety

Do your best with our best welding helmets

#3MScienceofSafety

What do you need?

Full-featured helmet with the maximum number of options

9100 series

Our "standard" 9100 helmet



3M™ Speedglas™ 9100

Flip-up welding filter with big clear grinding visor underneath



3M™ Speedglas™ 9100 FX

Safety helmet head protection via quick release attachment



3M™ Speedglas™ 9100-QR

THE UNCOMPROMISING, ALL-IN-ONE WELDING PROTECTION SYSTEM



3M™ Speedglas™ 9100 MP

G5 series

10v series



3M™ Welding Helmet 10V QR



3M™ Welding Helmet 10V



3M™ Speedglas G5-01



3M™ Speedglas™ G5-02

These ADFs are excellent with virtually any arc welding process, including "hidden arc" applications, plus plasma welding & cutting.



9100



9100xx



G5 07 series



9002NC

Helmets also available with passive filters

3M

versaflo™

Powered air Purifying Respirators

Facility Maintenance, Grinding,
Sanding, Machine Operations,
Powder Handling, Pharmaceutical



Versaflo™ PAPER TR

300
600
800



3M Science.
Applied to Life.™*



Respiratory Protection

3M™ offers a wide range of disposable, reusable, powered and supplied air respirators for protection against gases, vapours and particulates. Allowing you to choose the level and type of protection, comfort, style and maintenance requirements you need to work safely, comfortably and effectively.

When the heat is on, stay strong.



Take on the most demanding high temperature applications with the new 3M™ VHB™ Tape GPH series.

3M™ VHB™ Tape GPH Series

The new 3M™ VHB™ Tape GPH series is a permanent bonding solution that can replace traditional mechanical fasteners and liquid adhesives in challenging, high temperature applications. It uses a conformable, acrylic foam core to provide a good balance of strength and conformability. The 3M™ VHB™ Tape GPH series has excellent temperature resistance, making it ideal for permanent bonding where high temperature tolerance is needed, including applications that undergo a powder coat or liquid painting process.

Features

- Good adhesion to high and medium surface energy materials (metals, glass, plastics) as well as many coated or painted surfaces
- Excellent temperature resistance (short term 450°F and long term 300°F)
- Good solvent resistance
- High initial tack providing strong immediate handling strength
- Conformable foam offers good gap filling and stress relaxation



Jumeirah Beach Hotel, Dubai UAE
Curtain wall design:
Aluminum panels bonded to steel stiffeners.



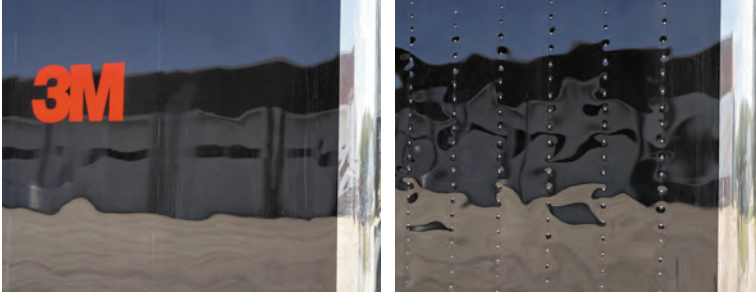
Burj Al Arab Hotel, Dubai UAE
Aluminum composite panels bonded to framework to resist high wind loads.

Product Description	Product Number	Specification			Color	Application / Features		
		Thickness	Width	Length				
3M™ VHB™ TAPES FOR GENERAL PURPOSE HIGH TEMPERATURE APPLICATIONS	GPH 160	1.6mm	12.7mm	19.05mm	25.4mm	33m	GRAY	SIGNAGE, MOUNTING APPLICATIONS, STIFFENER APPLICATION, CAN GO THROUGH POWDER COATING PROCESS
	GPH 110	1.1mm	12.7mm	19.05mm	25.4mm	33m	GRAY	
3M™ VHB™ STRUCTURAL GLAZING TAPES – VHB™ SGT	B23F	2.3mm	12.7mm	19.05mm	25.4mm	33m	BLACK	GLASS BONDING ON UCW PANELS, STRUCTURAL GLAZING, INTERIOR GLAZING
3M™ VHB™ TAPES FOR CLADDING, STIFFENERS AND ARCHITECTURAL PANELS – VHB™ AGT	4941P	1.1mm	12.7mm	19.05mm	25.4mm	33m	GRAY	CLADDING, PANEL STIFFENER BONDING, GLASS PANELING, WOODEN CLADDING, METAL AND PLASTIC BONDING, BONDING HIGH AND MEDIUM SURFACE ENERGY SUBSTRATES
3M™ VHB™ FIRM TYPE FOAM CORE TAPE	4950P	1.1mm	12.7mm	19.05mm	25.4mm	33m	WHITE	ALTERNATIVES TO RIVETTING OR WELDING, METAL BONDING, MOUNTING & TRIM ATTACHMENT, PANEL TO FRAME/STIFFENER TO PANEL ASSEMBLY
3M™ VHB™ - CLEAR TAPE	4910P	1.0mm	12.7mm	19.05mm	25.4mm	33m	CLEAR	JOINING TRANSPARENT MATERIAL, MOUNT BACKLIT TRANSLUCENT SIGNS, EDGE-BOND RESIN FILLED GLASS, METAL, GLASS AND HIGH SURFACE ENERGY (HSE) SUBSTRATES, DECORATIVE MATERIAL AND TRIM, NAMEPLATES AND LOGOS, PANEL TO FRAME, STIFFENER TO PANEL.
3M™ VHB™ MODIFIED ACRYLIC ADHESIVE CONFORMABLE ACRYLIC FOAM CORE TAPE	5952P	1.1mm	12.7mm	19.05mm	25.4mm	13.7m	BLACK	DECORATIVE MATERIAL AND TRIM, NAMEPLATES AND LOGOS, ELECTRONIC DISPLAYS, PANEL TO FRAME, STIFFENER TO PANEL
3M™ EXTREME SEALING TAPE 4412N IS A TRANSLUCENT, HIGHLY CONFORMABLE, SINGLE-SIDED, PRESSURE SENSITIVE ACRYLIC ADHESIVE TAPE WITH A HIGH PERFORMANCE IONOMER BACKING	4412N	2.0mm	50.8mm	101.6mm		16.5m	WHITE	TRUCK AND TRAILER ROOF SEALING, WINDOW AND DOOR SEALING, HVAC, JOINTS AND SEAMS, GUTTERS
3M™ PRIMER 94 - ADHESION PROMOTER FOR BETTER BOND STRENGTH	PRIMER 94		US Quart - 946 ml				CLEAR LIGHT YELLOW	PROMOTE BETTER ADHESION FOR A VARIETY OF PLASTIC SURFACES SUCH AS POLYETHYLENE, POLYPROPYLENE, ABS AND PET \ PBT BLENDS
3M™ VHB™ TAPE UNIVERSAL PRIMER UV,	UV PRIMER 94		US Quart - 946 ml				LIGHT YELLOW WITH FLUORESCENT BLUISH TINT	ADHESION PROMOTER, LOW VOC , UV-INDICATOR VERIFIES PRIMER APPLICATION, QUICK DRY TIME



The Proven, High Strength Alternative to Mechanical Fasteners

Smooth Sided (3M™ VHB™ Tape) vs. Mechanically-Fastened

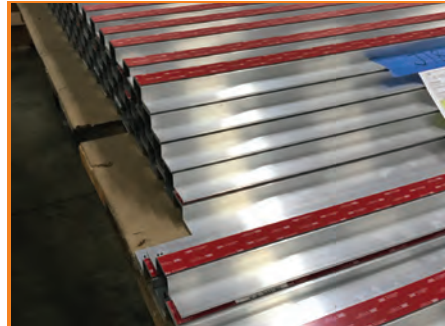


3M™ VHB™ Tapes are easy to apply to simplify the bonding/attachment process.

Applying 3M™ VHB™ Tapes

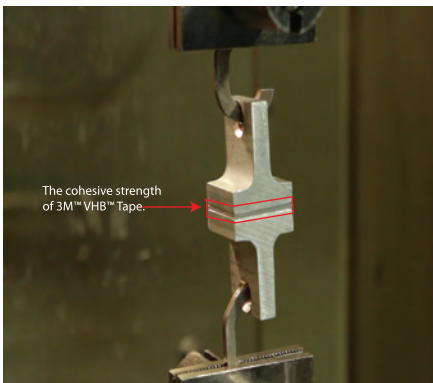


Extreme sealing tape



3M™ VHB™ Tapes are fully cured allowing stiffeners to be pre-taped prior to assembly.

Dynamic normal tensile and elongation tests: Quantifies the internal cohesive strength of 3M™ VHB™ Tape and allows the elongation of 3M™ VHB™ Tape to be compared to that of adhesives. Unlike mechanical fasteners and traditional assembly methods, the viscoelastic foam core of 3M™ VHB™ Tape absorbs tensile stress, distributing the stress across the entire bond, isolating the stresses by allowing them to move independently, while maintaining a strong bond.



3M™ VHB™ Tape GPH-160 allows stiffeners to be bonded prior to a paint bake cycle.



Low emissions, High performance.

Aerosol Adhesives



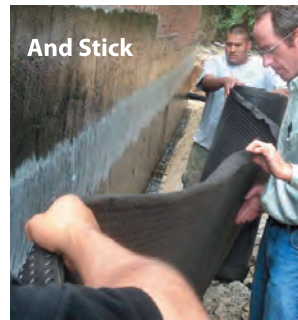
3M™ Holdfast 70



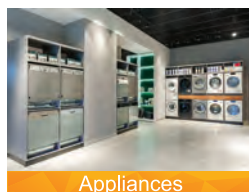
3M™ 1099 Plastic Adhesive



3M™ Gasket Adhesive 1300L



3M™ VHB™ Tapes and Adhesives-Industries



Disposable Respirators



3M[®]8210 Disposable Respirator (N95)
 * Features welded strap attachment, soft nose foam and adjustable noseclip to help provide a custom fit and secure seal



3M[®]8835 Disposable Respirator, FFP3, Valved, 8835+ Premium disposable P3 respirator offering reliable, effective protection against dust, mist & metal fume.



3M[®]FT-10 uses a test solution of sodium saccharin that produces a sweet tasting aerosol



3M[®]8511 Disposable Respirator (N95)
 *Is uniquely designed to help provide protection against certain non-oil based particles
 * Designed to help deliver classic N95 Respiratory protection with the addition of the proprietary 3M Cool Flow Valve



3M[®]8247 Disposable Respirator (R95) Non-valved Specialty Respirators:
 Suggested Application: Grinding, bagging, sanding, sweeping in oil and non-oil environments and other dusty operations.



3M[®]FT-30 uses a test solution of denatonium benzoate to produce a bitter tasting aerosol

Reusable Respirators



3M[™] 6000 / 6502 / 6800 / FF 402 Series Reusable Respirator Provides Lightweight, Easy-to-use, Economical Protection



3M[™] Organic Vapor Cartridge 6001, 6006 / 6007 / 60926, 6005, EA / Case



3M[™] Multi Acid Gas/Organic Vapor Cartridge 6006



3M[™] Acid Gas Cartridge 6002



3M[™] Multi Gas/Vapor Cartridge/Filter 60926



3M[™] Reusable Respirator 7500 Series
 3m Half Facepiece Respirators 7500 Series, Reusable Provides Comfortable, Soft Silicone Faceseal

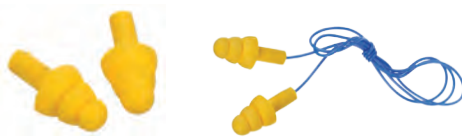


3M[™] Organic vapor/Acid Gas Cartridge 6003/07047

Hearing Protection



3M™ Foam Earplugs



3M™ E-A-R Ultra Fit Earplugs 340 / 4002 / 4004



Carrying Case



3M™ E-A-R Classic Earplugs 310-1001

391-0000
391-1004



3M™ One Touch™ Pro Earplug Dispenser



3M™ Peltor Optime 98 Cap Mount Earmuffs, Hearing Conservation H9P3E



3M™ PELTOR Optime 98 Earmuffs H9A



3M™ E-A-Rfit Dual- Ear Validation System



3M™ PELTOR Optime 105 Earmuffs H10B, Behind-the-Head



KOVAX is the leading Manufacturer of Japanese Coated Abrasives since 1930. Our rigid quality control and well organized manufacturing facilities, and advanced technical knowledge ensures top quality and innovative abrasive products for Automotive, Wood-working, and many more industrial uses.

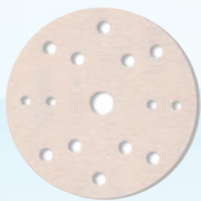


Water Proof Abrasive paper

Grit Ranges

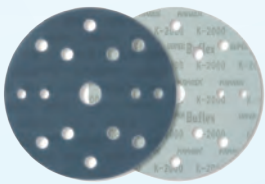
Silicon Carbide : P60-P2000

Aluminium Oxide : P120-P2000



Kovax TRI-PRO Super Tack Disc is made of advantage experience of our sanding technology that we pursue fine uniform finish from aggressive cutting force and long paper life, and of course purse-friendly.

Available Grit : P60, P80, P100, P120, P150, P180, P220, P240, P280, P320, P360, P400, P500, P600



Kovax DRY Super Bulex sanding system used as final sanding step before polishing in various surface such as high solid/hard paint, fluorine clear, anti-scratch clear, water paint and more.

Available Grit : P2000, P2500 & P3000

Mini Polisher KP-301 (Part No.9100301)



Light-weight and easy operation belt sander, Precision-build and durable body made in Japan. Small size but efficient sanding.

Specification Pad Size : 40mm or 70mm or 98mm,

Rotation Speed : 2,500 rpm , Weight : 0.70kgs.

Belt Sander 10/12mm KB-504



Light-weight and easy operation belt sander, Precision-build and durable body made in Japan. Small size but efficient sanding.

Specification: Rotation Speed : 17,000rpm, Weight : 0.93kg,.

Abrasive Belt : 10 (12) mm x 300mm



PROTECTION FROM HEAD TO TOE, IN THE WORKPLACE

A SEGMENTATION FOR DESIGNING PRODUCTS AND RANGES:



KNOW THE RISKS



ANALYZE THEM IN THE WORKERS' ENVIRONMENT AND CONSTRAINTS



TOOL-SEGMENTATION



CONSTRUCTION OF A SUITABLE PRODUCT OFFER



Our multi key input segmentation (business areas, risks, levels of range) is the foundation on which is built the strategy of the range and future products are determined and designed, which meet the constraints and risks in the workplace.



WORK

- HEAD PROTECTION
- HAND PROTECTION
- DISPOSABLE WEAR
- WORKWEAR
- OUTDOOR WEAR
- TECHNICAL WEAR
- FOOT PROTECTION
- FALL PROTECTION

THE GLOBAL OFFER

• THE BUSINESS AREAS

	AGRICULTURE/ GREEN AREAS	Farmers - Woodcutters - Gardeners ...		SERVICES / LOGISTICS	Logistics - Transportation - Airport - Distribution ...
	CONSTRUCTION/ CIVIL ENGINEERING	Structural work - Construction		HYGIENE ENVIRONMENT	Food industry - Pharmacy - Hospitals - Restaurants - Communities ...
	SECOND WORK/CRAFTSMAN	Electricians - Plumbers - Heating specialists - Painters ...		OIL/GAS	Petrochemical industry - Refinery - Off shore - Exploration - Pipelines
	HEAVY INDUSTRY	Metal construction - Petrochemical ...		MINING	Mines (exploration, extraction ...) - Stone-pit
	LIGHT INDUSTRY	Automotive - Aerospace - Industrial Subcontracting ...		WIND ENERGY	



DIAMOND V



QUARTZ UP IV



MAGNY HELMET 2



BARRIER 2



CASOUD3



BALBI2



BRAVA



FUJI 2



TOBA3 T5



GALERAS



INTERLAGOS FOLDABLE



SPA 3



M1300VC



M1200VC



M1195B



ALUCAG19A



H0600



DT117



VV910



VECUT44



VECUT55



VE733



VE712GR



TOUTRAVO 509



VV905



VECUT5M



JUMPER3 S1P/S3



JET3 S1P SRC



ASTI S1P SRC



BROOKLYN S3 SRC



SAGA S3 SRC



KATANA



MIAMI



KAZAK EH



KALINKA



TW 400

RESCUE HUB TC063 KIT WALTC114

DESCENDER, RESCUE AND LIFTING EQUIPMENT WITH HAND WHEEL ABLE TO LIFT UP TO 225KG. APPROVED FOR 2 PEOPLE, AUTOMATIC BRAKE SYSTEM. 2 CENTRIFUGAL BRAKE SYSTEMS.



10, 20 & 30m

CARGO LASHING

Cargo Lashings from 1 to 4 width with lashing capacities ranging from 360kg to 5000kg



BODY PROTECTION

High visibility vests

Easy View



Reno HV



Gilp4



Winter Jackets

Lulea2



Reno



Nordland



Iceberg



Welding

Sumtab



Summan

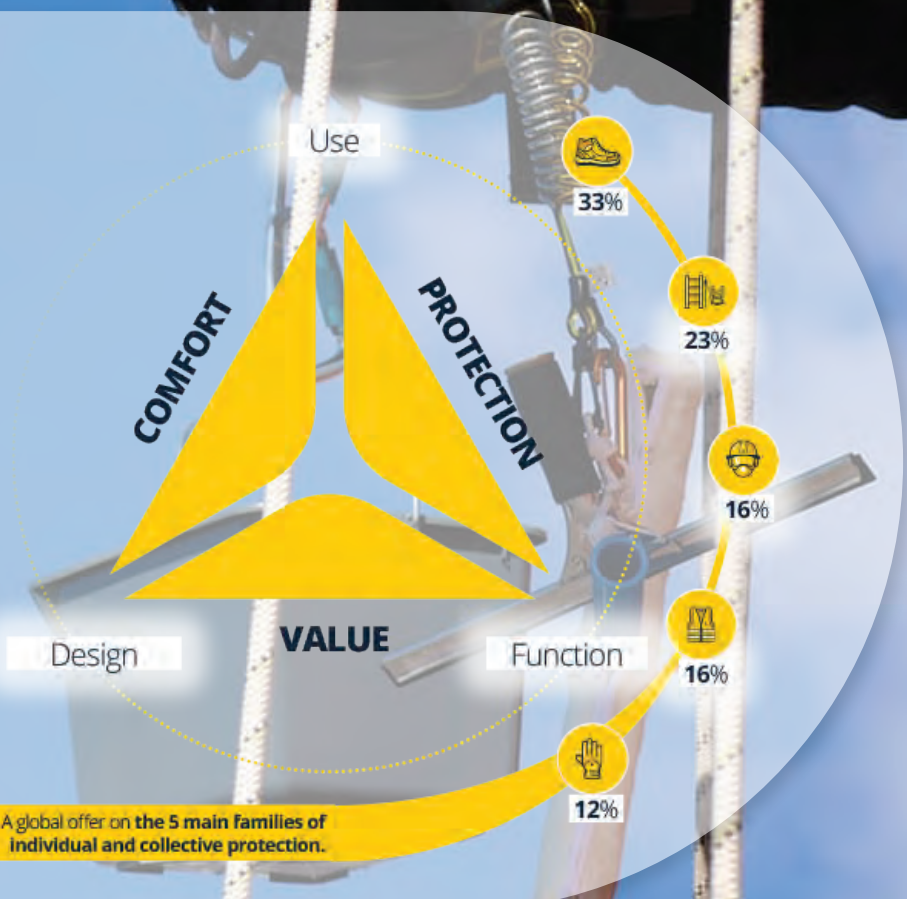


Sumgue



TC 716





A global offer on the 5 main Families of individual and collective protection.

Ansell



For 125 years, Ansell has delivered the most advanced protection solutions to millions of people, offering peace of mind and confidence at work and at home. As health and safety regulations evolve, Ansell remains at the forefront, offering the solutions and expertise companies need.

- Mechanical
- Heat resistant
- Cut resistant
- Anti vibration
- Chemical resistant
- Impact resistant
- Disposable
- Electrical insulating

HyFlex®

11-801 / 11-840
Improved design delivers enhanced comfort in a dirt masking color

Ansell's HyFlex® 11-801 gloves are ideal for dry or slightly oily applications that require light mechanical protection and high levels of handling finesse.

They are well-suited to light assembly applications as well as to the needs of logistics and warehousing.



EDGE®

48-203
Heavy Duty Impact Protection Industrial Gloves

The EDGE® 48-203 Heavy Duty Impact glove with a PVC dot palm provides excellent protection against impact hazards with enhanced grip that resists oil, making it the go-to glove in the Oil & Gas industry.

Bright yellow ensures that hands are visible at all times.



EDGE®

48-305 / 48-920
Medium duty general purpose industrial gloves

EDGE® 48-305 industrial work gloves are the economical solution for medium weight applications requiring a good level of abrasion resistance along with a good grip in dry or wet environments.

This is also the economical choice for use in a wide range of handling and carrying applications, and are more durable than medium weight cotton or leather gloves.



MICROFLEX
ADVANCED DISPOSABLE HAND PROTECTION

92-134
Nitrile Exam Glove with Textured Fingers

The MICROFLEX™ 92-134 disposable nitrile examination glove offers tactility and comfortable protection across numerous applications. The lightweight, soft and stretchy nitrile formulation offers a comfortable fit and feel with the tactile sensitivity needed for fine motor control. Designed with textured fingertips for secure handling of tools and materials. Testing with NA medical team.



AlphaTec
ADVANCED CHEMICAL PROTECTION

08-354
Neoprene dipped coating on an interlock knit liner

Ansell 08-354, liquid-proof industrial gloves offer a rough finish dip that makes handling wet, slippery materials easier and safer. These Neoprene liquid-proof industrial gloves are extremely comfortable to wear.



AlphaTec
Solvex

37-675 / 37-676
Excellent chemical protection with a good level of grip, fit and comfort

AlphaTec Solvex 37-675 industrial gloves' cotton flocking absorbs sweat, for greater wearer comfort.

Their nitrile composition offers these AlphaTec gloves greater resilience than neoprene or rubber equivalents of a similar thickness, with EN and ANSI level 4 abrasion resistance. The safety gloves are suitable in both wet and dry conditions



ACTIVARMR[®]
PERSONAL PROTECTIVE GEAR

43-216
Heavy-duty welding glove for demanding welding and thermal job tasks

ActivArmr 43-216 is a heat-resistant industrial glove, fortified for advanced hand protection in demanding tasks. The three-dimensional thumb design enhances dexterity and control. Durability and comfort thanks to premium leather and Kevlar[®] welded seams. Long cuffs with cotton lining Increases forearm and wrist protection



ACTIVARMR[®]
PERSONAL PROTECTIVE GEAR

43-217
Welder thermal heat protection

ACTIVARMR[®] 43-217, Heavy-duty TIG welding gloves, combining thermal hand protection and dextrorotatory tactility
Excellent thermal and welding capabilities. with three-dimensional thumb design For highly precise welding gloves. Enhanced durability thanks to premium full-grain goatskin and welded seams.
Suitable for TIG welding, as well as grinding, brazing, metal fabrication and maintenance.
Extra protection against heat, flames, sparks and welding spatter.



AlphaTec[®]
ADVANCED CHEMICAL PROTECTION

87190
Extra thin natural rubber glove for excellent sensitivity

ALPHATEC[®] 87-190 87-190, Extra-fine natural latex gloves, offering excellent tactile sensitivity for light tasks. 100% cotton flock lining: Reduces perspiration, more comfort. With chlorination treatment to minimise allergic reactions.



AlphaTec[®]
ADVANCED CHEMICAL PROTECTION

56-100
PVC Aprons

ALPHATEC[®] 56-100 PVC aprons are die-cut PVC fabrics that improve protection against acids, alkalis, pitting and abrasion. Sealed eyelets with 48" adjustable fasteners: Easy fit without tearing. Vinyl construction For flexible, durable personal protection.



BATES CARGO-PAK®

A SIGNODE BRAND



Bates Cargo-Pak is a revolution in securing and safeguarding cargo. It is based on a simple idea: Airbags are placed in the gaps between cargo and inflated with air and are functioning as void fillers. The cargo is now secure and stabilized, and effectively protected against costly transport damages ready for the long haul. Bates Cargo-Pak is constructed with an outer material consisting of several layers of heavy-duty wet strength paper, and a strong multi-layer film inner material, giving the airbags maximum strength and ultimate airtightness.



PPW Striker is a new generation of Bates Cargo-Pak poly woven airbags, equipped with the patented Striker valve based on venturi technology. This allows for very simple and fast inflation of the airbag.



Bates Cargo Striker

Paper dunnage bag

Technical Specifications

Size in cm		85x120	85x185	120x220
Load in Tons in a Gap of:	10cm	5.0	8.2	13.4
	20cm	2.6	5.9	9.0
	35cm	0.9	1.8	3.3
	45cm			2.7
Max Gap in cm:		37	37	55

Bates Cargo Protector

Paper Dunnage Bag

Technical Specifications

Size in cm		85x120	85x185	100x185	120x220
Load in Tons in a Gap of:	10cm	4.9	8.1	9.4	13.2
	20cm	2.5	5.6	5.8	8.8
	35cm	0.8	1.7	2.1	3.1
	45cm	-	-	1.9	2.5
Max Gap in cm:		37	37	45	55



MAX Inflator

Mobile Air Xtreme

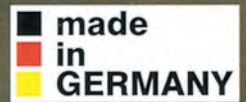


Bates PPW Striker

Polywoven dunnage bag



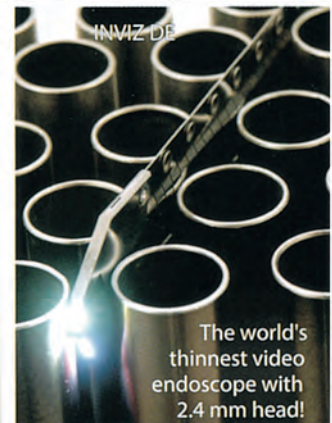
Visual Inspection



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viZaar is the specialist in development of video endoscopes, and manufacturers of video endoscopes.

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Revolver 80



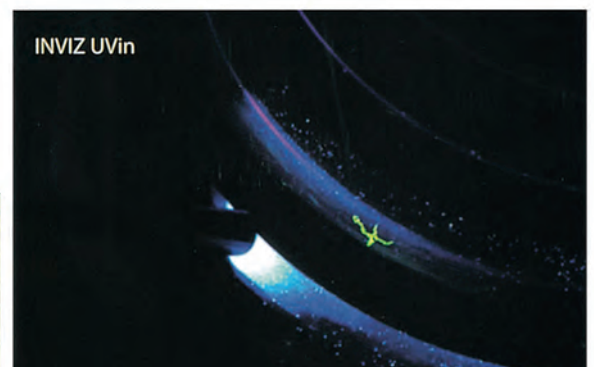
Support for bigger pipe sizes up to 40"



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clamp

INVIZ GR 16

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INVIZ UVin



End Cutting Nippers

DIN ISO 5748

Head shape provides optimised movement when tightening steel mesh knots during reinforced concrete work

- > with cutting edges for soft and hard wire
- > also suitable for twisting and cutting binding wire
- > cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- > High-grade special tool steel, forged, multi stage oil-hardened



68 01 180



68 01 280



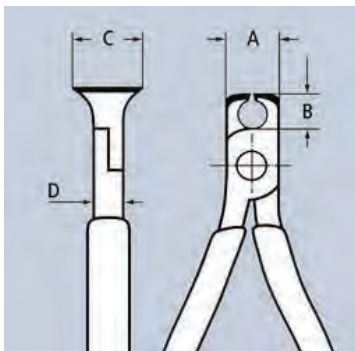
68 01 160

Article No.	EAN 4003773-	↔ mm	Pliers	Head	Handles	Cutting capacities			
						Ø mm	Ø mm	Ø mm	g
68 01 160	013792	160	black atramentized	polished	plastic coated	4.0	2.8	2.3	202
68 01 180	013808	180				4.0	3.2	2.5	284
68 01 200	013815	200				4.0	3.5	2.8	319
68 01 280	077664	280				4.5	4.0	3.2	467

End Cutting Nippers

for mechanics
DIN ISO 5748

- > with cutting edges for soft, hard and piano wire; also suitable for thin copper wires
- > lap joint
- > cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- > Chrome vanadium heavy-duty steel, forged, multi stage oil-hardened



00 11 01



69 01 130



74 02 200



68 01 200



Article No.	EAN 4003773-	↔ mm	Pliers	Head	Handles	Cutting capacities				Dimensions				
						Ø mm	Ø mm	Ø mm	Ø mm	A mm	B mm	D mm	C mm	g
69 01 130	017974	130	black atramentized	polished	plastic coated	0.4 - 2.0	1.3	1.0	0.8	16	7.5	10	20	111
69 03 130	018001	130	chrome plated		plastic coated	0.4 - 2.0	1.3	1.0	0.8	16	7.5	10	20	111

martor

MARTOR KG from Solingen is the leading international manufacturer and provider of high quality safety knives and safety scissors for more cutting safety. With their GS-certified safety technologies, the professional cutting tools contribute to increased occupational safety and a reduction in cutting injuries. This makes them an important part of personal protective equipment in industry, retail/logistics, trade etc.

SECUMAX
Concealed blade =
Maximum safety



SECUPRO
Fully automatic blade retraction =
Very high safety



SECUNORM
Automatic blade retraction =
High safety



SECUMAX 564
N° 564001



SECUMAX 565
N° 565001



SECUMAX 363
N° 363001



Wera

WERA is a German multinational with more than 80 years in the market, manufacturer of hand tools and specialized in the world of screws: screwdrivers, tools for power use, L-Keys, ratchets, ratcheting combination wrenches, torque screwdrivers and adjustable torque wrenches, etc. About 3,200 tools for the world of screw driving in the catalogue and more than 50 patents allow us to offer the best tools for easier, safer and more satisfactory work, as well as better organization and better and more comfortable mobility.



Desoutter



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Boost your UP time, Flexibility and productivity





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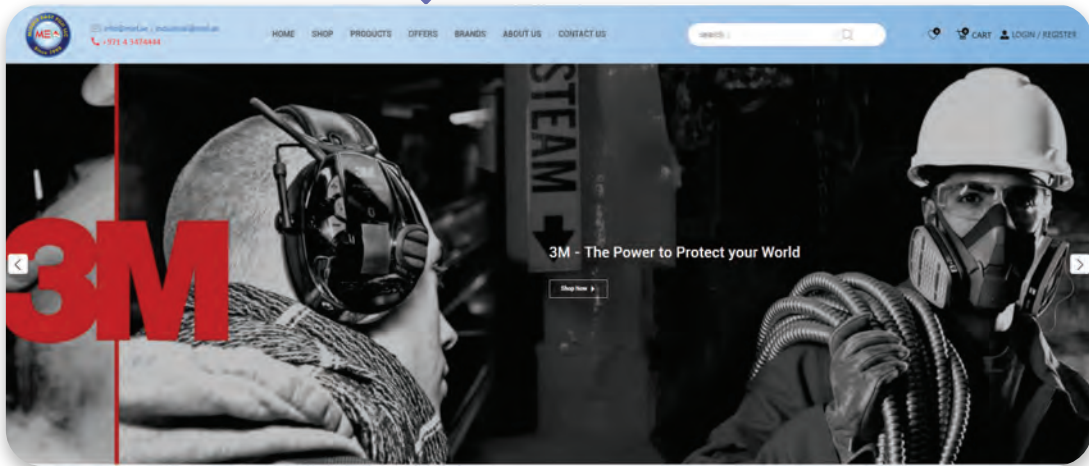


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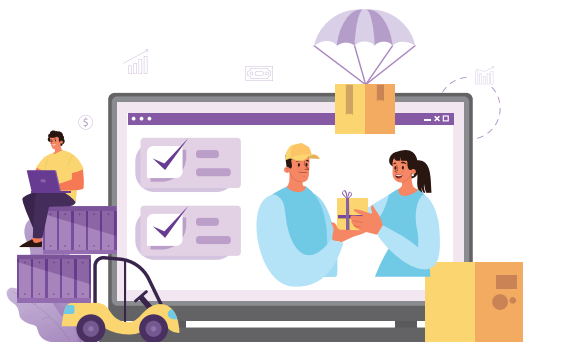
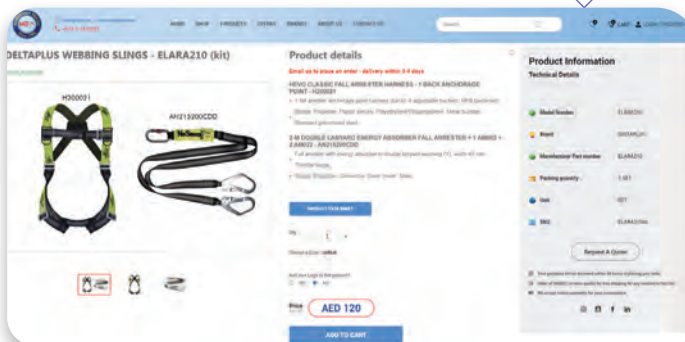
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