



**ENGINEERING SERVICES**  
SALES, SERVICES & SOLUTION IN ALL ENGINEERING

☎ 98980 74438, 78619 77988

**TATA  
AGRICO**

**Authorised Channel Partner of TATA AGRICO**



**Mig Wire**



**Welding Rods  
ISI Certified**



**Welding Rod  
NoN ISI**

**Agro and Construction Tools | Garden Tools | Tradesman Hand Tools | Consumables**

**A & J Engineering Services**

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**Authorised Channel Partner of EJOT Octaqon**



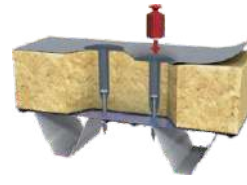
**Metal Building Fasteners**



**Anchoring Technology**



**Storm Washers**



**Skylight Panel Fixing**



**Clip Fixing**



**ETICS**



**Colour Head**



**Storm Washers**



**Skylight Panel Fixing**



**Liner Panel Fixing**



**Roofing**



**Stitching**



**Heavy Section Fixing**



**Wall Cladding**



**Sandwich Panel**



**A2 Hardened Steel Drill Point**



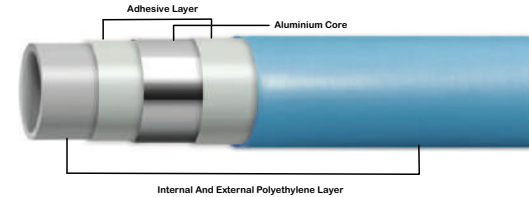
**Sealing Washer**



**Spin Zone Under The Screw Head**

## Authorised Channel Partner of Jindal PVC Pipes

FOR COMPRESSED AIR SUPPLY

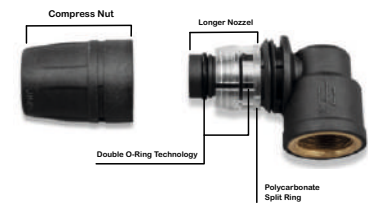


### Compressed And Air Supply Pipe

Size Range	Inner Dia	Outer Dia
1216	12mm	16mm
1620	16mm	20mm
2025	20mm	25mm
2532	25mm	32mm
3240	32mm	40mm
4050	40mm	50mm



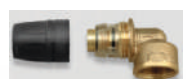

FEATURE	AIR-Connect	Aluminium Pipes	PPR-C Pipes
<b>COST</b>	Most cost-effective. Low initial investment, long Working life and no maintenance.	Most expensive	Least Expensive but has a short Working Life
<b>HYGIENE</b>	Hygienic, made from 100% Food Grade Polyethylene.	Hygienic	Not hygienic, is not made from Food grade material.
<b>FLOW RATE</b>	Best, has smooth inner surface and minimum use of fittings.	Good, has smooth inner surface but use of more fittings (elbows and couplers)	Good, has smooth inner surface but use of more fittings (elbows and couplers)
<b>CORROSION RESISTANCE</b>	Good	Good	Good
<b>BENDABILITY</b>	Bendable without any spring back	Not bendable	Not bendable
<b>REQUIREMENT OF FITTINGS</b>	Minimum, use of Elbows and Couplers is eliminated	High, fittings are required at bends and joints at every 6 mts	High, fittings are required at bends and joints at every 6 mts
<b>JOINING METHOD</b>	Compression method, Leak proof, fittings can be re-opened for maintenance work	Push-in method	Electric fusion method, results in a permanent joint and cannot be re-opened for maintenance work.
<b>WEIGHT</b>	Light-weight, Upto 90% lighter than GI pipes.	Heavy, 5 times heavier than Air Connect Pipes	Heavy, compared to Air Connect Pipes
<b>STORAGE, HANDLING &amp; TRANSPORTATION</b>	Easy, are light weight and packed in coils of upto 200 mts. Come in Carton packing.	Difficult, are heavy and packed in lengths of 6 mts	Difficult, are heavy and packed in lengths of 6 mts
<b>INSTALLATION</b>	Fast and Easy. Requires basic Tools only.	Fast and Easy. Requires basic Tools only.	Time consuming, requires electricity and Heating machine
<b>LINEAR THERMAL EXPANSION</b>	Low	Low	Low
<b>WASTAGES</b>	Zero wastage	High	High



**EZ- FIT**



**EZ- HYBRID**



**EZ- BRASS**

Authorised Channel Partner of Jindal PVC Pipes



FOR GAS SUPPLY

MLC pipe for gas



FOR HOT AND COLD WATER SUPPLY

Hot And Cold Water Supply Pipe



PE-AL-PE For cold water distribution | Temp. -20°C to 80°C



PE-AL-PERT For hot water distribution | Temp. -20°C to 95°C



**JOINT-FREE**  
 Piping System



Available in rolls of 50m, 100m & 200m  
 (Depending on the Pipe Size)

Size Range	Inner Dia	Outer Dia
1216	12mm	16mm
1620	16mm	20mm
2025	20mm	25mm
2532	25mm	32mm
3240	32mm	40mm
4050	40mm	50mm



Plumbing Pipe (For Domestic Plumbing Applications)



Garden Flexing Hoses



HDPE Pipe



uPVC Column Pipe



CPVC Pipe

**Authorised Channel Partner of Rothenberger**

**Pipe cutters for metal , Plastic , MLP**



**TC 35 DURAMAG**

Working Range	0.6 - 42 mm (1/4 - 1.5/8")
Suitable for:	Cu, brass, Al, thin-walled steel pipes, PE-PP-, PVDF-, PVC, plastic-coated pipes



**TC 42 XL**

Working Range	0.6 - 42 mm (1/4 - 1.5/8")
Suitable for:	Cu, brass, Al, thin-walled steel pipes, PE-PP-, PVDF-, PVC, plastic-coated pipes



**MINICUT I PRO**

Working Range	0.3 - 16 mm (1/8 - 1.3/8")
Suitable for:	Cu, brass, Al, thin-walled steel pipes,



**TUBE CUTTER 50**

Working Range	0.12 - 100 mm (1 - 4")
Suitable for:	Cu, brass, Al, thin-walled steel pipes, Plastic-coated pipes



**ROSLICE 12 mm**

Working Range	0.6 - 66 mm (1/4 - 2.3/8")
Suitable for:	Cu, Stainless steel



**ENORM 4"**

Working Range	0.6 - 115 mm (3 - 3/8-2")
Suitable for:	Stainless Steel



**TORUQ WRENCH SET**

**Vacuum Pump**

**ROAIRVAC R32 1.5**



**ROAIRVAC R32 CL 2.0**



**ROAIRVAC R32 3.0**



**ROAIRVAC R32 CL 5.0**



**ROAIRVAC R32 6.0**



**ROAIRVAC R32 9.0**



Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	✓	✓	✓	✓
CO <sub>2</sub> subcritical (R744):	✓	✓	✓	✓	✓	✓
Cordless:		✓		✓		
System size:	< 24 kW	< 40 kW	< 74 kW	< 100 kW	< 123 kW	> 124 kW



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**Authorised Channel Partner of Rothenberger**

**Refrigeration circuit control**



**ROCOOL 600**



**2- and 4-ways manifold connection 5/16"**



**2- and 4-ways manifold connection 1/4"**



**Pressure hoses**

Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	-	✓
CO <sub>2</sub> subcritical (R744):	✓	-	-	✓
System size:	all	all	all	all

**Push and Pull Bending**



**TUBE BENDER**

Working range Cooper	0.5 - 12 mm (1/4 - 1/2")
Working range Aluminium	0.5 - 12 mm (1/4 - 1/2")
Working range Precision Steel	0.5 - 12 mm (1/4 - 1/2")



**TUBE BENDER Maxi**

Working range Cooper	0.12 - 22 mm (3/48 - 7/8")
Working range Aluminium	0.12 - 22 mm (3/48 - 7/8")
Working range Precision Steel	0.12 - 22 mm (3/48 - 7/8")



**Standard two handed bender**

Working range Cooper	0.12 - 22 mm (3/48 - 7/8")
Working range Aluminium	-
Working range Precision Steel	-



**MULTIBEND**

Working range Cooper	0.10 - 18 mm (1/4 - 5/8")
Working range Aluminium	0.10 - 18 mm (1/4 - 5/8")
Working range Precision Steel	0.10 - 18 mm (1/4 - 5/8")

**Expander**



**ROLOCK expander power torque**

	Manual
Stationary drilling in concrete:	0.8 - 42 mm (5/16 - 1.3/4")
Stationary drilling in masonry:	0.8 - 28 mm (5/16 - 1.1/8")
Hand-operated drilling in concrete:	0.8 - 28 mm (5/16 - 1.1/8")
Hand-operated drilling in masonry:	0.8 - 22 mm (5/16 - 7/8")



**H 600**

	Hydraulic
Stationary drilling in concrete:	0.8 - 110 mm (5/16 - 4.1/4")
Stationary drilling in masonry:	0.8 - 110 mm (5/16 - 4.1/4")
Hand-operated drilling in concrete:	0.8 - 110 mm (5/16.4 - 4.1/4")
Hand-operated drilling in masonry:	0.8 - 110 mm (5/16.4 - 4.1/4")



**ROLOCK expander power torque sets**

Model Number	Weight (K.G)
12 - 15 - 18 - 22 mm	2.9
12 - 15 - 18 - 22 mm	3.3
10 - 12 - 16 - 22 - 28 mm	3.3
12 - 14 - 16 - 18 - 22 mm	3.3



**Reeling flaring tool**

Model Number	Size (mm / Inch)
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"
Set EB	1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm
<b>Dies</b>	
Metric	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm
Imperial	1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"

**Authorised Channel Partner of Rothenberger**

**Press Machines and Press jaws/ Press chains / Press rings**



**ROMAX Compact TT**



**ROMAX 4000**



**ROMAX 3000 AC**



**ROMAX AC ECO**



**Interchangeable press jaws compact**



**Press jaws compact**



**Press ring**

**Threader manual, Threader electrical**



**Super CUT sets 1/2 - .1.1/4"**



**SUPERTRONIC 1250**



**SUPERTRONIC 2000**



**SUPERTRONIC 2000 SE**

**Threader Stationary , Roll grooving machines**



**ROPOWER 50 R**



**Hand roll groover 1-12"**



**ROGROOVER 1-12"**

**Authorised Channel Partner of Rothenberger**

**Hand - Operated And Stationary Drilling**



**RODIADRILL CEREMIC**

Hand-operated	
Stationary drilling in concrete:	0.6 - 132 mm
Stationary drilling in masonry:	0.6 - 152 mm
Hand-operated drilling in concrete:	0.6 - 82 mm
Hand-operated drilling in masonry:	0.6 - 162 mm



**RODIADRILL 160**

Hand-operated	
Stationary drilling in concrete:	0.6 - 132 mm
Stationary drilling in masonry:	0.6 - 162 mm
Hand-operated drilling in concrete:	10 - 82 mm
Hand-operated drilling in masonry:	0.3 - 162 mm



**HIGH SPEED PLUS-NATURAL STONE**

Connection:	G 1/2"
Drill bit diameters:	0.10 - 500 mm
Application:	wet and dry



**RODIACUT 150, RODIADRILL 200**

Hand-operated / Stationary	
Stationary drilling in concrete:	0.32 - 400 * (500)mm
Stationary drilling in masonry:	0.32 - 400 * (500)mm
Hand-operated drilling in concrete:	0.10 - 82 mm
Hand-operated drilling in masonry:	0.10 - 82 mm

**ROPUMP SUPER PLUS, ROPUMP and ROSPI H+E PLUS, R600 VarioClean**



**ROPOWER 50 R**



**ROPUMP**



**ROSPI H+E PLUS**



**R600 VarioClean**

**Socket welding**



**ROWELD P 63 S-6**



**ROWELD P 125**



**Heating element HE 120**



**Heating element HE 200**

**Cutting**



**ROCUT XL 125**



**ROCUT XL 225**



**ROCUT XL 315**



**ROCUT UKS 160 / 355**



**ROCUT 42**