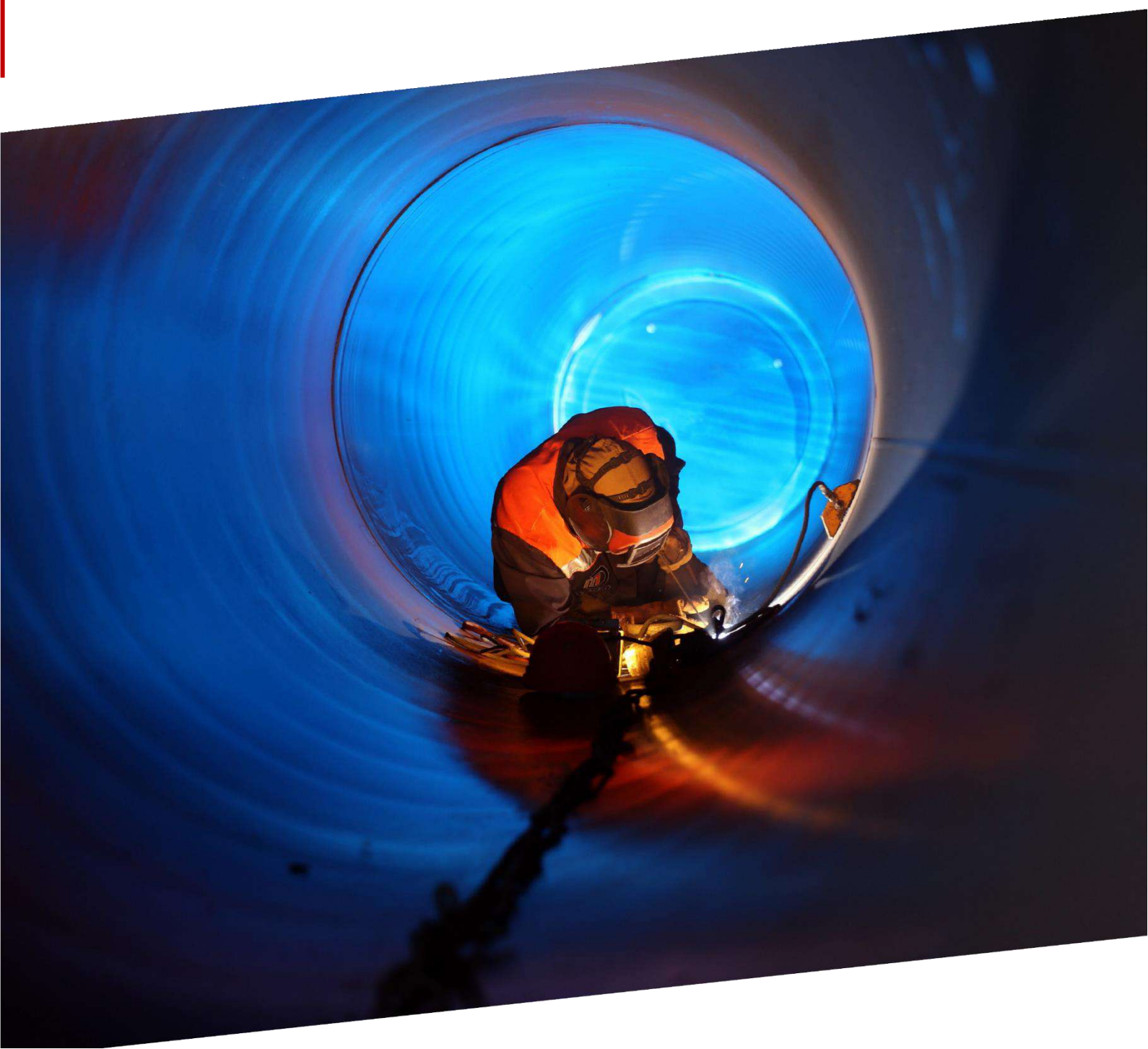




Catalogo pipeline





Our Products Offer:



We offer a wide and complete range, our catalogue integrates more than a hundred thousand products, covering our various lines of business. We guarantee you the best services possible concerning compliance, reliability, and sustainability. We make sure to maintain in our core ranges the fullest we can. To this end, we listen to your requests and constantly fill the catalogue with appropriate solutions. Our professionalism is recognized and allows us to dispose of market exclusivities. If our partners trust us, why wouldn't you?

Our Markets

Oil pipelines

Gas pipelines

On a growing market where ideas take time to be realized, it is vital to surrender yourself with the best professionals.

Industrial piping

The craftsmanship of pipe fitters is very technical because it very often is custom made. A restraint that seek to facilitate thanks to a wide product offer adapted to your needs.

Water pipes in public works and fluid pipes in buildings and infrastructures

To build, maintain and modernize your installations, supports you, pipeline constructors, in your daily tasks.

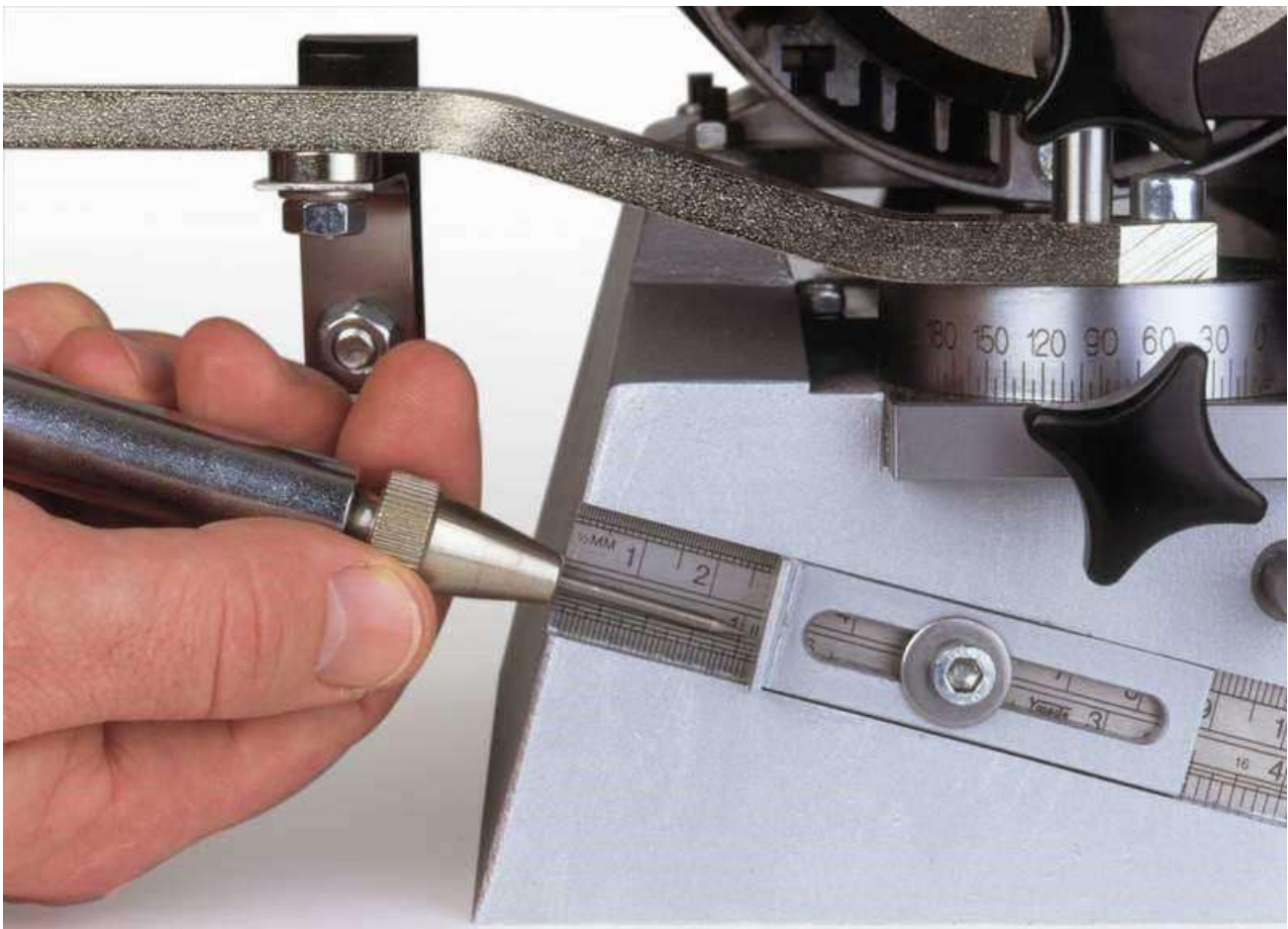


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Accessories

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AIR MANIFOLD



European Certificated Model

As standard, compressed air manifold are equipped with one inlet and 8 outlets, gauge, drain, safety valve. Each connection has a stop valve and a quick coupler of 3/4". For an easy handling, a lifting eye is placed on the superior part of cylinder. A drain is installed underneath the cylinder.

European Certificated model: tested at 14.3 bars delivered with certificate. They are meant to be used with a 7 bars compressor.

US model: ASME Certification tested at 260 psi operating pressure 200 psi. delivered with "certificate Form U1A manufacturer's data report for pressure vessels" Meets OSHA guidelines for compressed air storage devices. Conveniently assembled TO SAVE YOU TIME. Drain port can be partially opened to expel moisture build-up. Pressure relief valve provides protection against back excessive pressure. Tanks act as moisture separators by allowing particulates to fall out of main supply line. Optional cage (2AMF & 6AMF only) protects the valves and makes it easy for one person to move on the jobsite.



US MODEL



US MODEL 2

Model	Weight (kg)	Height (mm)	Lenght (mm)	Diameter (mm)	Width with connectors (mm)	Inputs	Outputs	Operating pressure	Pressure test	Capacity (liters)
EU	35	670	900	380	600	1"	8 x 3/4"	10 bar	14,3 bar	75
2	29	457	876	324 (12")	559	2"	8 x 3/4"	13,79 bar (200psi)	20,68 bar (300psi)	56,77
3	10	255	585	220 (8")	356	1"	4 x 1/2"	13,79 bar (200psi)	20,68 bar (300psi)	9,5
4	52	737	1169	406 (16")	915	2"	2 x 3/4" 4 x 1" 2 x 2"	13,79 bar (200psi)	20,68 bar (300psi)	113,55
5	87	788	1524	508 (20")	991	2"	2 x 3/4" 4 x 1" 2 x 2"	13,79 bar (200psi)	20,68 bar (300psi)	227,1

EARTH CLAMP AND ELECTRODE HOLDER

ROTATING GROUND CLAMP

Rotating ground connections are used in situations where the part has to be rotated.



MAGNETIC EARTH CLAMP

Magnetic earth clamp:

C350: 350A or 500A to 60% - Ø of the cable maxi 50mm²
C600: 600A or 800A to 60% - Ø of the cable maxi 110mm²



ELECTRODE HOLDER

model compliant with the EN-60-974-11 standard. 300 Amps power-Ø of cable: maxi 50mm²-weigh: 420 gr-Ø maxi of the clamp: 6.3 mm. Blocking of the electrode by brass jaws.

Tong Grip model compliant with the EN-60-974-11 standard – 400 Amps power at 35% or 300 Amps at 60% - Ø of the cable: maxi 70mm² - weigh: 500 gr - Ø maxi of the electrode: 6.3 mm - blocking of the electrode by brass jaws.



Triple junction
MFF or MFM

CABLE CONNECTOR



Complete connector, male or female, for cables from 25mm² to 95mm².

FLUX AND ELECTROD OVEN

High-strength alloy steels used in the pipeline construction field need special welding electrodes. The welding codes require that the electrodes that have been exposed to the atmosphere for any length of time must be reconditioned, preheated, and maintained in an oven until being given to the welders.

We offer a wide range of ovens which can be used for reconditioning, reheating or keeping the electrodes in flux. Those ovens can contain from 8kg to 540kg.



It is a vertical quiver for uniform heating of rods, adjustable thermostat, basket for removing electrodes. It has an indicator of neon power, delivered with an ergonomic carrying handle. The thermometer is optional.

SPÉCIFICITY P8T	
Capacity	7 kg
Temperature	Adjustable up to 190 °C
Thermostat	Adjustable temperature
Thermometer	Optional
Voltage	24VAC/48-85VDC/110VAC/220VAC
Output	0,3kW
Internal dimensions (WxDxH)	73x93x473mm
External dimensions (WxDxH)	165x200x630mm
Poids	5,5 kg

TUNGSTEN ELECTRODE SHARPENER

Optimal cutting and welding are the result of longitudinal sharpening.

Both cutting and welding are made by the same diamond blade. The grinding angle can be chosen between 0 and 90° thanks to a graduated swivel plate to adjust the exact grinding angle.

The tungsten electrodes with a diameter of 1.0, 1.6, 2.0, 2.4, 3.2, 4.0, 4.8, 5.0, 5.5 mm and a length of 20 to 175mm are grinded with a ± 0.1 mm.

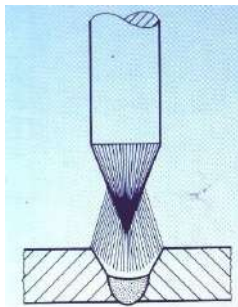
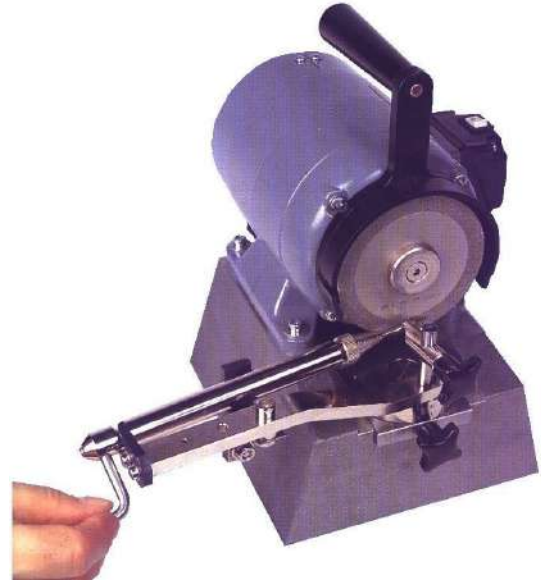
Protective housing.

Easy handling.

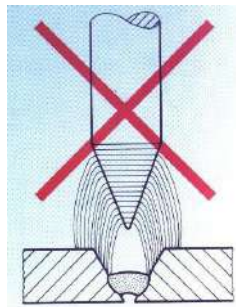
Lever to rotate the electrode.

Device for holding the electrode holder.

For a better hygiene and safety of the operators, a cabinet and a vacuum cleaner for noxious dusts are available in option.



Longitudinal grinding



Circular grinding



Technical specifications

Engine: 220 V, 50 Hz, 5000 turns/min.

Diamond blade \varnothing 90 mm

Electrode \varnothing : 1.0 to 55 mm

Electrode length: 20 to 175mm

Angles: from 0 to 90°

Weight:

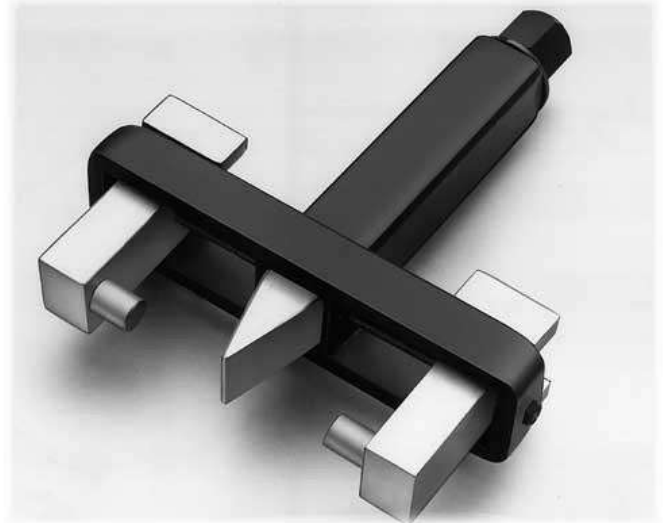
Grinding machine: 9kg

Grinding machine, exhaust and cup-board: 52 kg.



FLANGE SPREADER 2" TO 36"

**Mechanical
flange spreader**



**Hydraulic flange
spreader**

Clamps spreaders allow the replacement of seals without damaging the flange's surface. The corner shape of the spreader helps to easily realise this task. The action of the corner of the manual spreader opens to a maximum space of 31.8 mm and applies a pressure of 135 NM. The spreading force is 5,500 Tons. A hydraulic kit is required for the use of models D101, D102 and D103.

Model	Type	Flanges sizes	Serie (PSI)	Weight net (kg)
D100	Mechanical	2 - 12" / 51 - 305mm	Up to 300	6
D103	Hydraulic	2 - 12" / 51 - 305mm	Up to 300	7
D101	Hydraulic	12 - 24" / 305 - 610mm	150 to 600	13
D102	Hydraulic	26 - 36" / 660 - 914mm	150 to 600	21
D104-KIT	Hydraulic kit with pump, hoses and quick disconnects			5

RATCHET FLANGE SPREADER

RATCHET FLANGE SPREADER

Ratchet flange spreader 18,2T



Ratchet flange spreader 4.5T



Type	Gap Power	Torque	Closed	Open Jaw	Widht	Lenght	Tool lenght
Ratchet	4500 kg	135,66 Nm	2 mm	133 mm	89 mm	38 mm	300 mm
Ratchet	18160 kg	433,80 Nm	13 mm	140-200 mm	89 mm	38 mm	400 mm

MANUAL FLANGE SPREADER

Type	Stud bolt Ø	Spread	ASA 150	ASA 300	ASA 400	ASA 600	ASA 900	ASA 1500	ASA 2500
1	5/8"	2.3/4"	2"	1"	1"	1"			
			2½"	1¼"	1¼"	1¼"			
			3"	2"	2"	2"			
			3½"						
			4"						
2	3/4"	3.3/4"	5"	1½"	1½"	1½"			
			6"	2½"	2½"	2½"			
			8"	3"		3"			
				3½"					
				4"					
3	7/8"	4.1/8"	10"	8"	3½"	3½"	3"	3"	
			12"		4"	4"			
					5"				
					6"				
4	1"	6.1/8"	14"	10"	8"	5"	1½"	1½"	1¼"
			16"			6"	2½"	2½"	2"
5	1.1/8"	7.1/8"	18"	12"	10"	8"	4"	3"	1½"
			20"	14"					2½"
6	1.1/4"	9.1/8"	22"	16"	12"	10"	5"	4"	3"
			24"	18"	14"	12"			
			26"	20"					
			28"						
			30"						



FLANGE SPREADER TYPE ST



ST-301



ST-302



ST-303

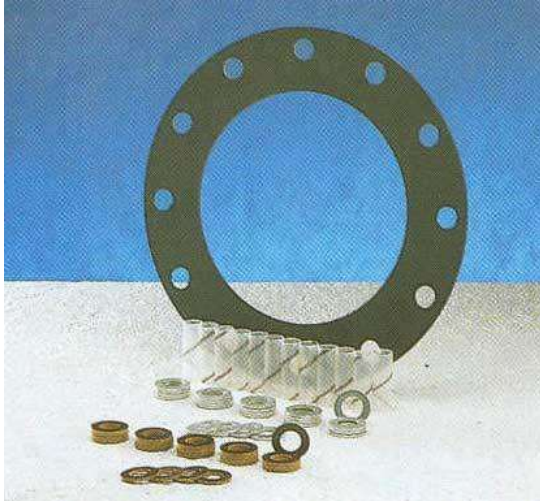
- 4 models to cover the 25 mm to 600 mm flange range
- Can be used on 68 to 680 Kg clamps
- Hardened wedge for safety distribution
- Large feed screw
- The drive can rotate under the effect of a 12" key
- compact design
- robust enough for heavy-duty work



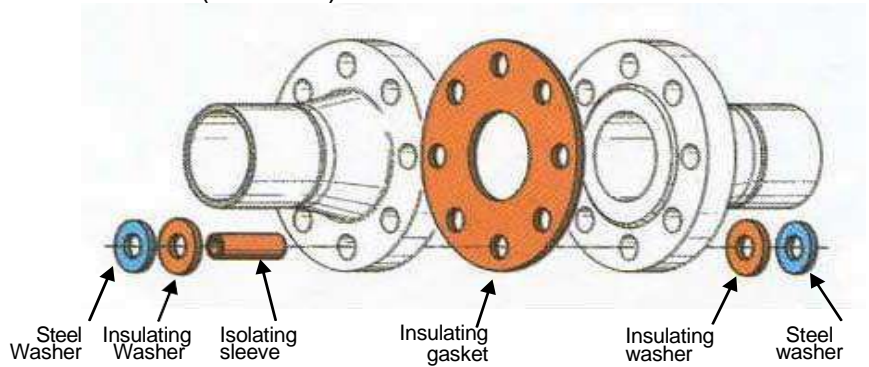
ST-304

Type	Spread	Stud boltØ	68 kg	136 kg	181 kg	272 kg	408 kg	680 kg
ST-301	76mm	16mm	25-152mm	19-101mm	12-50mm	/	/	/
ST-302	101mm	19mm	50-305mm	38-203mm	25-101mm	25-101mm	25-50mm	25-50mm
ST-303	127mm	22mm	127-610mm	63-305mm	38-203mm	50-152mm	25-101mm	25-76mm
ST-304	162mm	25mm	254-610mm	178-610mm	89-406mm	101-254mm	25-203mm	25-127mm

PIPE INSULATOR



Execution E: Sealing gasket with screw bolt holes according to the flange standard (Full Face)



The insulating flange offers you the possibility to turn a conventional flange connection. An insulating flange connection in the form of an electrical breaking point.

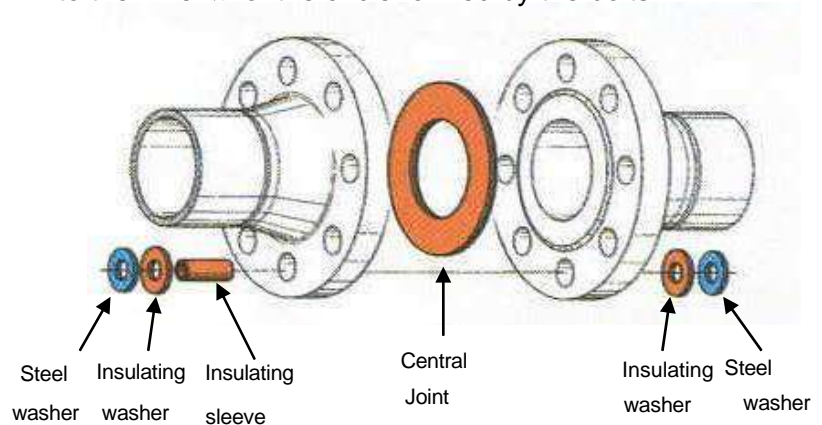
The use of this insulation is not limited to new flange connections. It is also very suitable for the conversion of existing flange connections. No mechanical modifications are required.

The insulation assemblies are suitable for all types of flanges, regardless of their standards, dimensions and pressure ratings.

Please note that the kits are not delivered with threaded rods and bolts.



Execution F: the outer \varnothing of the central joint corresponds to the inner \varnothing of the circle formed by the bolts.



2 - PIPE ALIGNMENT

Alignment

External clamps 2 to 72”	2-01 to 2-02
Internal clamps	2-03 to 2-05
Chain clamp.....	2-06 to 2-07
Chain clamp/ Rim clamp.....	2-08
External clamps.....	2-09 to 2-10

Centring

MF insulators	2-11
HS insulators.....	2-12
GK insulators	2-13
MSG insulators.....	2-14
MK insulators	2-15
GKO gl & gs insulators	2-16



EXTERNAL CLAMPS 2" TO 72"

MANUAL, HYDRAULIC OR RATCHET CAGE CLAMP

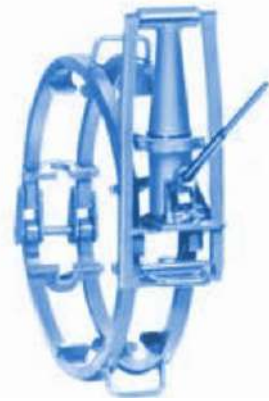
From 2" to 72", for a quick alignment of the pipes:

External line up clamps are designed to allow perfect tube to tube alignment. For pipe diameter from 14" to 72", the clamping is done by a hydraulic cylinder or a ratchet. The "No Tack" clamps with "Omega" bars allows the weld seam to be made without having to remove the clamp from the pipe.

The jackbars are in carbon steel but can be offered with stainless steel skids.

Installation of the clamp:

Using a sling, the side-boom driver positions the clamps above the joint between the ends of the tubes. Once in position (No Tack bars or straight perpendicular to the weld bead), proceed to the locking by pressurizing the cylinder, until the bars perfectly align the two pipe ends.



Manual clamp, from 2" to 20", as shown on the picture, with No tack bars.

Above 20", hydraulic or ratchet clamps should be used.

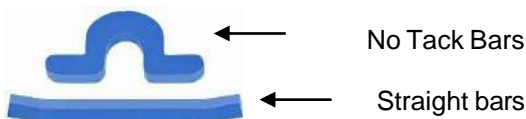
Ratchet clamp, from 14" to 72", as shown on the picture, with straight bars, also available with No Tack bars.

Hydraulic clamp from 14" to 72". As shown on the picture, available with No Tacks or straight bars.

Diameter of the pipe		Weight
Inches	mm	Kg
2	60	3
3	89	8
4	114	9
5	139	11
6	168	14,5
8	219	15,2
10	273	21
12	324	25
14	356	29
16	406	42
18	457	49
20	508	53

Diameter of the pipe		Weight
Inches	mm	Kg
14	356	37
16	406	48
18	457	50
20	508	54
22	559	57
24	610	57
26	660	59
28	711	67
30	762	73
32	813	76
34	864	76
36	914	76
38	965	80
40	1016	90
42	1067	100
44	1118	110
46	1168	120
48	1219	130
56	1422	140
64	1626	150
72	1829	170

Diameter of the pipe		Weight	Jack
inches	mm	Kg	Tonne
14	356	47	10
16	406	56	10
18	457	57	10
20	508	59	10
22	559	63	10
24	610	74	10
26	660	79	15
28	711	82	15
30	762	85	15
32	813	87	15
34	864	90	15
36	914	143	20
38	965	147	20
40	1016	151	20
42	1067	155	20
44	1118	159	20
46	1168	163	20
48	1219	167	20
56	1422	183	20
64	1626	200	20
72	1829	229	20



EXTERNAL CLAMPS 2" TO 72"

EXTERNAL ALIGNMENT CLAMP

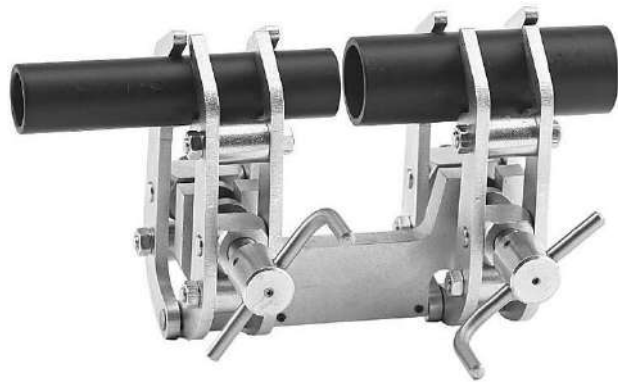
TYPE "1 a":

External alignment clamp are perfect for a quick and precise alignment and clamping of all diameters, even different, with automatic compensation.

Without additional adjustments or aids needed.

The pieces are easily accessible from every sides and ready for welding.

Jaw available in stainless steel, and carbon steel



Model	External Ø (mm)	Material	Weight (kg)
A	10 -70	Steel	2,10
A	10-70	Stainless Steel	2,10
B	40 - 140	Steel	5,90
B	40-140	Stainless Steel	5,90
C	75 - 330	Steel	26,00
C	75 - 330	Stainless Steel	26,00

TYPE "1 a" orbital :

Special version for orbital welding

In order to reduce the load on the unit during orbital welding, we recommend type "1a" Orbital. For aligning and clamping tubes, bodys and round bars quickly, safely and precisely at the first stroke, regardless of the diameter, even if they are diverging, thanks to automatic diameter compensation. By leaving the weld seam constantly accessible from all sides without any additional adjustment, assistant or intermediate control.

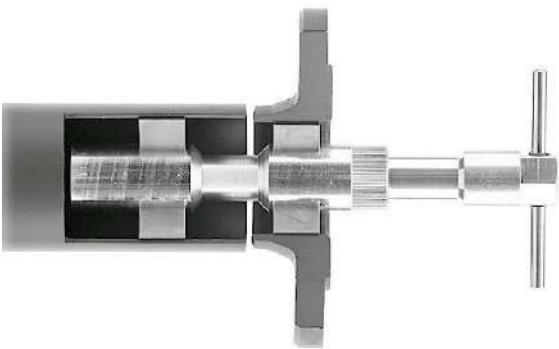


Model	External Ø (mm)	Material	Weight (kg)
1	6-50	Steel	3,60
1	6-50	Stainless steel	3,60
2	10-70	steel	5,70
2	10-70	Stainless Steel	5,70
3	25-140	Steel	12,60
3	25-140	Stainless Steel	12,60
4	75 - 330	Steel	41,00
4	75 - 330	Stainless steel	41,00

INTERNAL ALIGNMENT CLAMP

TYPE II:

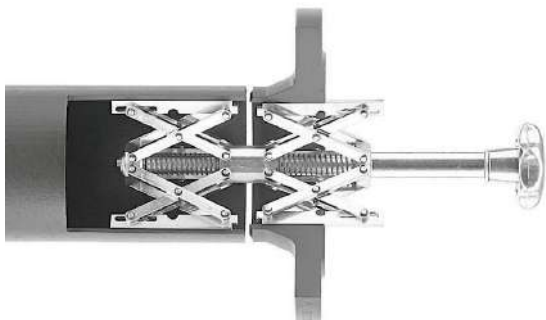
Internal alignment clamp with clamping wedge. Allows quick and precise alignment and clamping of flanges, nozzles, short pipes etc. to pipes and cylindrical tanks in one operation. Wedge shaped clamps provide Automatic diameter compensation, even in case of large differing diameters. Available in stainless steel, or light alloy. Surcharge for copper alloy. In order to prevent electrolytic corrosion, we recommend the versions with stainless steel tensioning wedge (VA 12CrNi177 1.4310).



Model	Internal Ø (mm)	Material	Weight (kg)
004	15-19	Steel	0,20
004	15-19	Stainless Steel	0,20
003	16-20	Steel	0,20
003	16-20	Stainless Steel	0,20
002	19-25	Steel	0,25
002	19-25	Stainless Steel	0,25
001	24-32	Steel	0,50
001	24-32	Stainless Steel	0,50
01	31-40	Steel	0,50
01	31-40	Stainless Steel	0,50
0	38-52	Steel	1,25
0	38-52	Stainless Steel	1,25
00	51-64	Steel	1,25
00	51-64	Stainless Steel	1,25

TYPE III a:

Inner alignment clamp for fast and precise centring of flanges, nozzles, etc. With cylindrical pipes and tanks. With stop for clamps. Automatic diameter compensation, even in case of very large differences. Without adjustment or additional aids, without positioning bracket. Centring is done from the inside, which makes welding accessible from all sides on the outside.

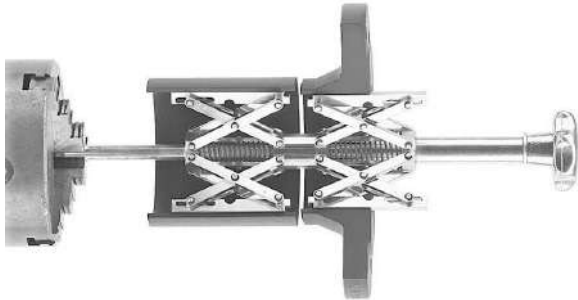


Model	Internal Ø (mm)	Material	Weight (kg)
1	54-140	Steel	1,25
1	54-140	Stainless Steel	1,25
2	85-220	Steel	3,35
2	85-220	Stainless Steel	3,35

INTERNAL CLAMPS

TYPE III b:

Extended central clamping body (length 120mm for models 1 and 2 and length 150mm for model 3) for rotary welding table and rotating device. (Special execution)



Model	Ø intérieur (mm)	Matière	Poids (kg)
1	54-140	Steel	1,40
1	54-140	Stainless Steel	1,40
2	85-220	Steel	4,20
2	85-220	Stainless Steel	4,20
3	120-350	Steel	12,50
3	120-350	Stainless Steel	12,50

TYPE III c:

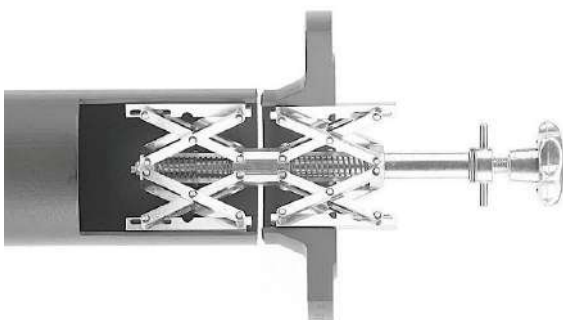
Ideal for clamping identical diameters or a clamping device with only one clamping body. In order to prevent electrolytic corrosion, we recommend the versions with stainless steel support rails (VA 1.4301).



Model	Internal Ø (mm)	Material	Weight (kg)
1	54-140	Steel	1,0
1	54-140	Stainless Steel	1,0
2	85-220	Steel	2,40
2	85-220	Stainless Steel	2,40
3	120-350	Steel	6,00
3	120-350	Stainless Steel	6,00
4	180-520	Steel	14,00
4	180-520	Stainless Steel	14,00
4/s	400-940	Steel	20,00
4/s	400-940	Stainless Steel	20,00

TYPE IV:

Internal alignment clamp with two independent clamping bodies for quick clamping without additional assistance. The bottom clamping body is inserted into the pipe and fixed by screwing. The flange or sleeve is placed on the upper clamping body and also fixed. Other operating features identical to those of model III.
Automatic diameter compensation.

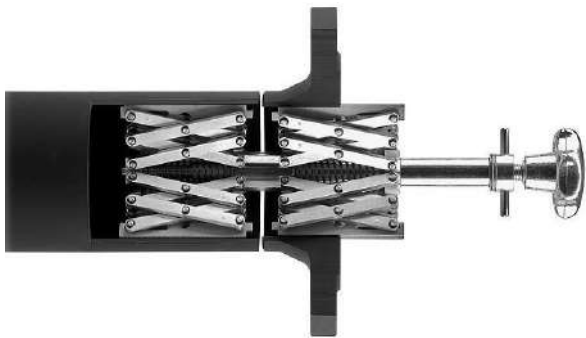


Model	Internal Ø (mm)	Material	Weight (kg)
1/e	54-140	Steel	1,30
1/e	54-140	Stainless Steel	1,30
2/e	85-220	Steel	3,90
2/e	85-220	Stainless Steel	3,90
3/e	120-350	Steel	11,50
3/e	120-350	Stainless Steel	11,50
4/e	180-520	Steel	27,00
4/e	180-520	Stainless Steel	27,00

INTERNAL CLAMPS

TYPE IVs:

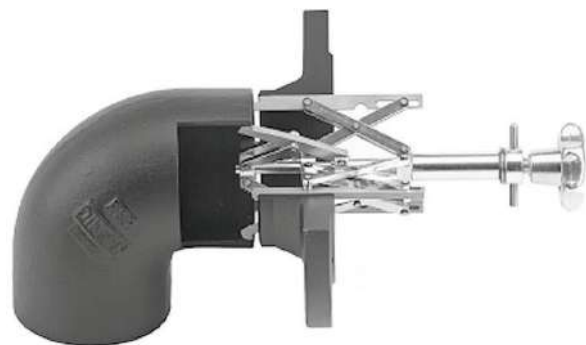
Immediate fast, safe and exact centring and tensioning of flanges, brackets, rings, etc. on pipes and cylindrical tanks. Comes with contact surface for smooth flanges. Automatic diameter compensation even for extremely varied diameters via independently tensible bracing elements. The centring device is fixed with the lower expansion element in the pipe, the flange or similar attached and finally centred and clamped using the upper expansion element. In order to prevent electric corrosion, we recommend the versions with stainless steel support rails (VA 1.4301).



Model	Internal Ø (mm)	Material	Weight (kg)
1/es	120-250	Steel	1,80
1/es	120-250	Stainless Steel	1,80
2/es	220-400	Steel	5,20
2/es	220-400	Stainless Steel	5,20
3/es	300-640	Steel	16,40
3/es	300-640	Stainless Steel	16,40
4/es	400-940	Steel	39,00
4/es	400-940	Stainless Steel	39,00

TYPE V:

This model with two independent clamps is used for clamping flanges of all kinds and similar parts to elbows and pipe-bends of various diameters. The lower expanding clamp has strong gripping feet which insert into the bend and are tightened by means of the knob. The top expanding clamp is tightened by means of the hand-bar in the flange. Automatic diameter compensation. In order to prevent electrolytic corrosion, we recommend the versions with stainless steel support rails (VA 1.4301).



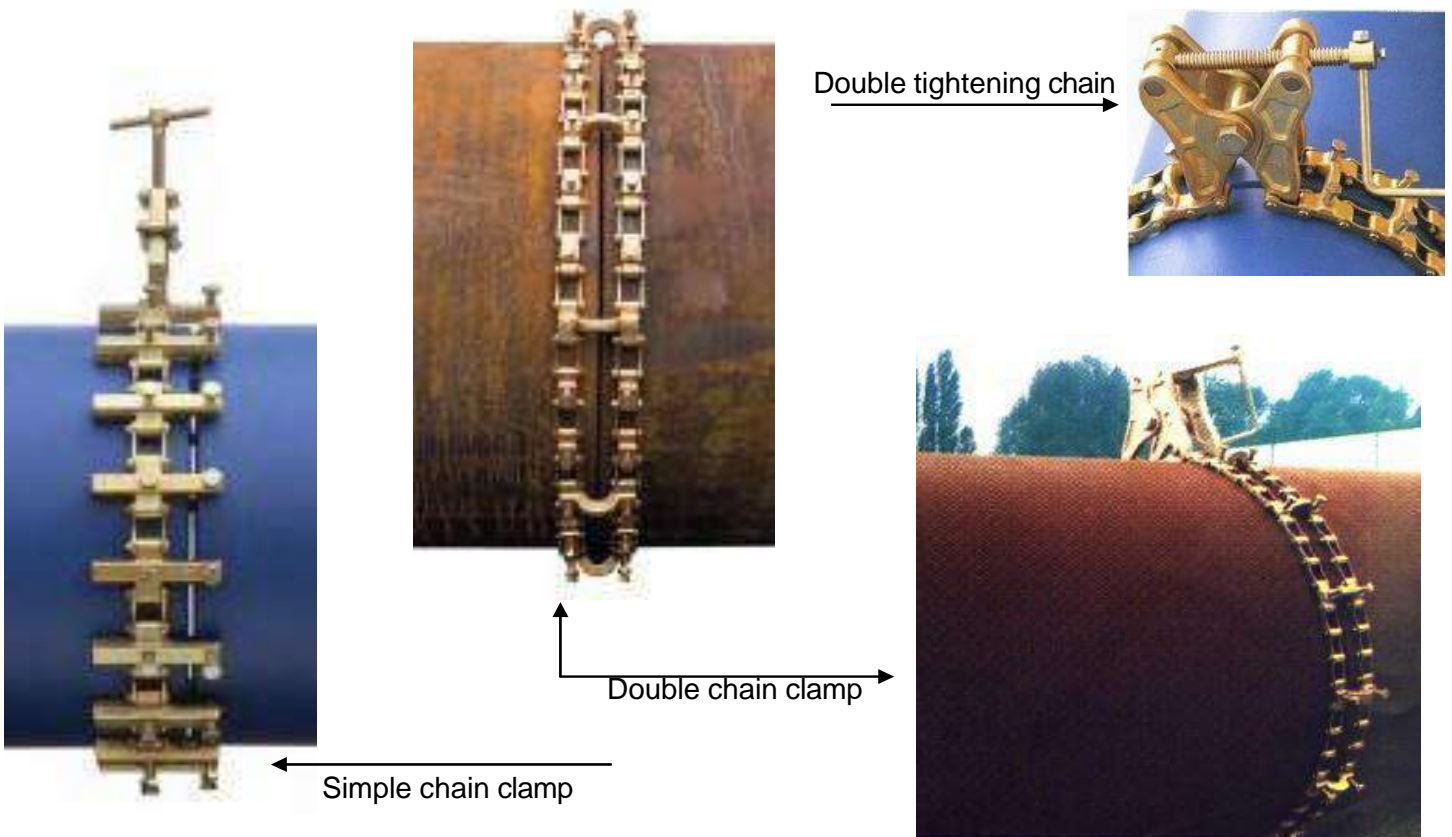
Model	Internal Ø (mm)	Material	weight (kg)
1/b-e	54-115	Steel	1,00
1/b-e	54-115	Stainless Steel	1,00
2/b-e	85-195	Steel	3,10
2/b-e	85-195	Stainless Steel	3,10
3/b-e	120-315	Steel	9,30
3/b-e	120-315	Stainless Steel	9,30
4/b-e	180-520	Steel	23,10
4/b-e	180-520	Stainless Steel	23,10

FOR PIPES FROM 6"

For pipes starting from 6"

The chain clamps made of carbon steel allows the alignment of the pipe in preparation for welding. They are also available in a full stainless-steel version (consult us).

Model	Item	Pipe Ø	Length of the chain	Opening
150 C	Simple chain	6 - 8"	650mm	-
150 CV	Simple chain extension		125mm	-
150 CS	Single tightening wrench		-	105mm
200 C	Simple chain	8 - 16"	1275mm	-
200 CV	Simple chain extension		177mm	-
200 CS	Single tightening wrench		0	125mm
D200 C	Double chain	8 - 16"	1275mm	-
D200 CV	Double chain extension		177mm	-
D200 CS	Double tightening wrench		-	170mm
300 C	Simple chain	12 - 24"	1920mm	-
300 CV	Simple chain extension		265mm	-
300 CS	Single tightening wrench		-	155mm
D300 C	Double chain	12 - 24"	1920mm	-
D300 CV	Double chain extension		265mm	-
D300 CS	Double tightening wrench		-	215mm



MINI-FIT CHAIN CLAMP

The Mini-Fit chain clamp is an alignment tool for tubes from \varnothing 3/4" to 8" with a 40 max schedule (steel or stainless steel).



\varnothing	Material of the tube	Reform	Alignment	Weight
3/4" to 8"	steel	sch 10	sch 40	3,2 kg
3/4" to 8"	Stainless steel	sch 10	sch 40	3,2 kg

SIMPLE JACKSCREW CHAIN CLAMP

This range of single chain jackscrew clamps is equipped with a single row of alignment wedge.

\varnothing	Pipe material	Reform	Alignment	Weight
1 to 8"	Steel	sch 40	sch 80	9 kg
1 to 8"	Stainless Steel	sch 40	sch 80	9 kg
4 to 16"	Steel	sch 40	sch 80	31 kg
4 to 16"	Stainless Steel	sch 40	sch 80	31 kg
10 to 36"	Steel	sch 40	sch 80	67 kg
10 to 36"	Stainless Steel	sch 40	sch 80	67 kg
10 to 54"	Steel	sch 40	sch 80	79 kg
10 to 54"	Stainless Steel	sch 40	sch 80	79 kg



DOUBLE JACKSCREW CHAIN CLAMP

This range of double jackscrew chain clamps is equipped with a double screw jack bar of alignment wedge for more precise reforming and alignment.



\varnothing	Pipe Material	Reform	Alignment	Weight
1 to 8"	Steel	sch 40	sch 80	12 kg
1 to 8"	Stainless Steel	sch 40	sch 80	12 kg
4 to 16"	Steel	sch 40	sch 80	33 kg
4 to 16"	Stainless Steel	sch 40	sch 80	33 kg
10 to 36"	Steel	sch 40	sch 80	67 kg
10 to 36"	Stainless Steel	sch 40	sch 80	67 kg
10 to 54"	Steel	sch 40	sch 80	72 kg
10 to 54"	Stainless Steel	sch 40	sch 80	72 kg

CHAIN CLAMPS / RIM CLAMP

DOUBLE CHAIN CLAMPS

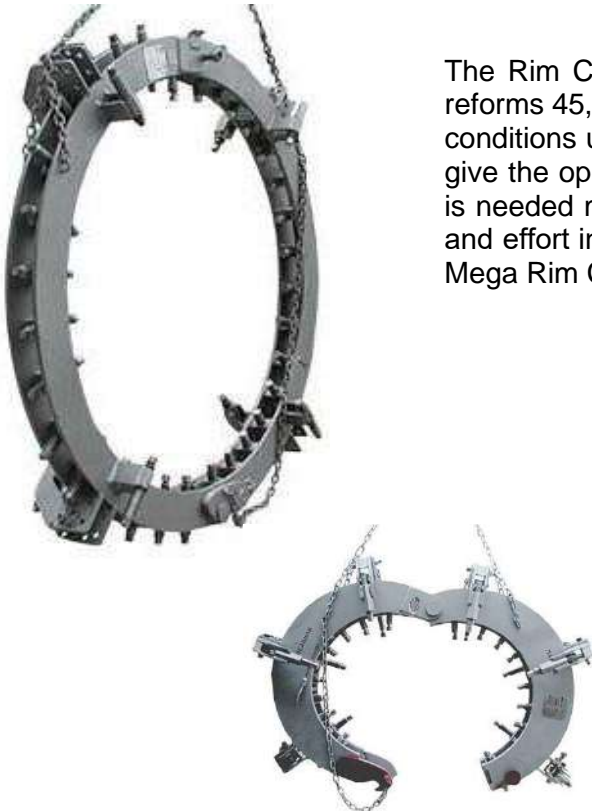
The Double Chain Clamp is designed for the aligning and reforming of pipes and vessels up to 20" in diameter, up to Schedule 80. If no reforming is required, the clamps can be used to align pipes over Schedule 80. Specialized heavy duty jackbars and main block handle even the most difficult of reforming applications. All these clamps are available in stainless steel version.

Pipe Ø	Tightening wrench number	Wedges number	Chain length (m)	Weight (Kg)
10" to 36"	1	9	3.05	99
10" to 48"	1	12	3.97	125
10" to 54"	1	14	4.58	135
10" to 60"	1	16	5.03	149
10" to 72"	1	20	6.10	174
10" to 84"	1	24	7.01	199
10" to 96"	2	28	7.93	224
10" to 108"	2	32	9.00	249
10" to 120"	2	36	10.06	275
10" to 11'	2	39	10.98	297
10" to 12'	2	42	11.89	320
10" to 14'	3	48	14.02	365
10" to 16'	3	54	15.85	410
10" to 18'	3	60	17.68	455
10" to 20'	3	66	19.51	500



RIM CLAMPS

The Rim Clamp is designed for tough reforming jobs. The Rim Clamp reforms 45,000 PSI high tensile pipe up to Schedule 80, with out-of-round conditions up to 2" depending on wall thickness. The multiple jackscrews give the operator the ability to apply precise reforming pressure where it is needed most. The Jackscrew Setting Gauge saves considerable time and effort in trying to balance the clamp once it's in position. Available in Mega Rim Clamp version for thicker tubes.



Size (")	Weight kg	Model	Size (")	Weight kg
4 to 6	10	D711-2632	26 to 32	180
6 to 8	23	D711-3036	30 to 36	189
8 to 10	32	D711-3440	34 to 40	203
10 to 12	41	D711-3844	38 to 44	221
12 to 14	54	D711-4248	42 to 48	230
14 to 16	86	D711-4652	46 to 52	275
16 to 18	108	D711-5056	50 to 56	306
14 to 20	126	D711-5460	54 to 60	338
18 to 24	158	D711-5864	58 to 64	369
20 to 26	162	D711-6268	62 to 68	396
22 to 28	171	D711-6672	66 to 72	428

EXTERNAL CLAMPS



CLAMP DX

The DX is a forged clamp that is used for pipe alignment. There are 5 models covering a range of use from 1" to 14" (from 25 to 355mm OD). Each model can be equipped with optional stainless-steel shoes and screws.



Description	Range of application	Weight
Clamp DX 1"-3" external alignment - steel	25-76mm / 1-3"	1,4kg
Clamp DX 2"-5" external alignment - steel	50-127mm / 2-5"	3,1kg
Clamp DX 4"-7" external alignment - steel	101-177mm / 4-7"	3,3kg
Clamp DX 5"-9" external alignment - steel	127-228mm / 5-9"	7,0kg
Clamp DX 10"-14" external alignment - steel	254-355mm / 10-14"	9,0kg



EXTERNAL CLAMPS

CLAMPS JA

Made in Germany, JA forged clamps are designed to adjust the pipe alignment from ½" to 14". Made of steel (anti-corrosion treated) or stainless steel.



← Clamp JA steel



Clamp JA steel →

Description	Range of application	Weight
Clamp JA 1/2"-3" external alignment - steel	12-90mm / ½-3"	1,2kg
Clamp JA 1"-3" external alignment - steel	20-90mm / 1-3"	1,4kg
Clamp JA 1"-3" external alignment – stainless steel	20-90mm / 1-3"	1,4kg
Clamp JA 2"-5" external alignment - steel	50-150mm / 2-5"	3,0kg
Clamp JA 2"-5" external alignment - stainless steel	50-150mm / 2-5"	3,0kg
Clamp JA 4"-7" external alignment - steel	90-190mm / 4-7"	3,3kg
Clamp JA 4"-7" external alignment - stainless steel	90-190mm / 4-7"	3,3kg
Clamp JA 5"-9" external alignment - steel	125-225mm / 5-9"	7,0kg
Clamp JA 5"-9" external alignment - stainless steel	125-225mm / 5-9"	7,0kg
Clamp JA 10"-14" external alignment - steel	225-370mm / 10-14"	9,0kg
Clamp JA 10"-14" external alignment - stainless steel	225-370mm / 10-14"	9,0kg



Chain + T shaped elbow holding device (optional)

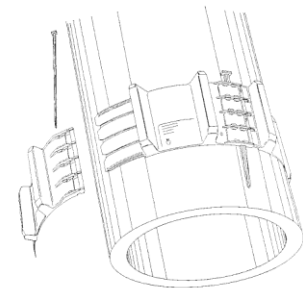
MF METAL FREE INSULATORS

For the centering pipes in casing, for pipe diameters from 21 mm to 2867 mm.

This new system of metal-free and screwless centring spacers offers several advantages:

- Quick assembly:** the segments fit into each other without difficulty, when the last segment is inserted, the locking pins are inserted between each segment.
- Duration in time:** No risk of corrosion, designed without metal these clamps do not fear corrosion. 5 segment widths are available (in mm) and several skid heights:
- Micro 54 (width 54 mm), height: 8 - 12.5 - 16.5 - 21 - 28 - 33 - 38 - 44 - 50 - 65 - 75 - 90 - 100 mm.
- Mini 80 (width 80 mm), height: 9 - 12.5 - 16.5 - 21 - 28 - 33 - 38 - 44 - 50 - 65 - 75 - 90 - 100 - 125 mm.
- Midi 130 (width 130 mm), height: 12.5-16.5-21-28-33-38-44-50-65-75-80-90-100-125-135-150-165-175 mm.
- Medi 175 (width 175 mm), height: 21- 28 - 38 - 50 - 65 - 75 - 90 - 100 - 125 - 135 - 150 - 165 - 175 mm.
- Maxi 25 (width 225 mm), height: 21 - 28 - 38 - 50 - 65 - 75 - 90 - 100 - 125 - 135 - 150 - 165 - 175 mm.

Number of segments	Diameters in mm.				
	Micro	Mini	Midi	Medi	Maxi
3	21-29	46-62	104-141		325-395
4	29-40	62-83	138-188	390-495	426-546
5	38-49	77-104	172-235	495-625	532-682
6	46-60	92-125	207-282	600-750	638-819
7	55-69	107-145	241-329	700-800	745-955
8	61-80	123-166	276-376	800-1000	851-1092
9		138-187	310-423	900-1140	957-1228
10		153-205	344-470	1000-1290	1064-1365
11		169-228	379-517		1170-1502
12		184-249	413-564		1276-1838
13					1383-1775
14					1489-1911
15					1595-2048
16					1702-2184
17					1808-2321
18					1914-2457
19					2020-2594
20					2127-2731
21					2233-2867
Bold Characters: Standard Dimensions					
Maximum load capacity	1000N 100kg	3000N 300kg	7500N 750kg	20000N 2 tons	30000N 3 tons



Maximum load capacity per insulator and maximum distance between them:

This is rather difficult to determine because many factors come in. The load capacity decreases with the height of the skid (by 20% starting at 50mm / 30% starting at 80mm / 50% starting at 100mm).

For socket pipes, a minimum of 3 clamps must be used per pipe length. In the case of PE pipes, please refer to the manufacturer's data for the maximum permissible load.

Characteristics:

MF insulators are made of PP block copolymer polypropylene (not reconstituted) from primary melt (no recycled material). This polymer has better stress crack resistance than PE and excellent sliding properties.

Technical data:

-Tensile modulus of elasticity: 1100 Mpa

-Threshold stress: 23 Mpa .

-Charpy resistance on notched specimen: 60 Kj/m² / Friction: 0.7μ

-Coefficient of pressure loss: 15 μm/km

-Service temperature: between -40°C and +100°C (up to 120°C for short periods)

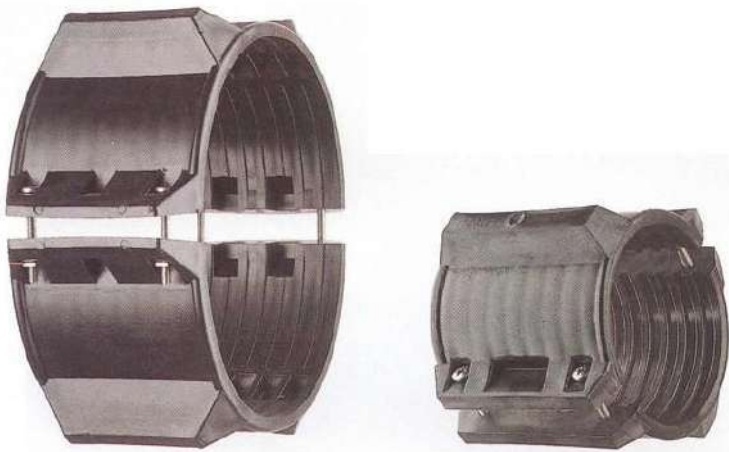
Dielectric strength: 140 kV/mm. MF insulators are made of black polyethylene and are therefore 15 times more resistant to UV than white, undyed insulators.

HS TWO HALFSHELL-SEGMENTS INSULATORS

Conventional Insulators made up from 2 Half ring:

The HS clamps consists of 2 half ring that fit perfectly to the pipe. They are available in many sizes and adapt perfectly to various pipe diameters (see table below). Installation time is reduced as only 4 stainless steel A2 (304L) screws are required for assembly.

Type	Minimum Ø (mm)	Maximum Ø (mm)	Skids Height
HS2	59	68	For all segments: 16, 25 or 36mm
HS4	108	124	
HS6	160	182	
HS8	218	238	
HS10	273	295	
HS12	323	343	



Technical data :

HS insulators are made of high-density polyethylene (low pressure polyethylene, not reconstituted).

This special polyethylene is characterized by:

- high resistance to stress cracking (18 hours according to ASTM D 1693).
- a very good resilience (15kj/m² according to ISO 179/2C).
- a very good pressure resistance (around 10N/mm²).
- a resistance to a temperature of 90°C continuously (with peaks at 110°C).
- a dielectric strength of 70-80 kmm (according to DIN VDE 0303).
- good sliding properties.

HS insulation clamps are made of black polyethylene which is about 15 times more UV resistant than white polyethylene.

GK INSULATORS

GK insulators are suitable for all pipe types from 98 to 500mm. Only 3 segment sizes GK1, GK2 and GK3 are sufficient to fit all pipe diameter from 90 to 530 mm OD. Thanks to the recessed positioning of the center skid, screw assembly is facilitated and assembly time is shortened.

They are designed to withstand a continuous temperature of 90°C with peaks up to 110°C.

For external tube Ø (mm)	Segments types and height *
98-130	3 GK1
131-170	4 GK1
171-210	5 GK1
200-219	3 GK2
215-235	2 GK2 + 1 GK3
230-248	1 GK2 + 2 GK3
245-265	3 GK3
262-290	4 GK3
280-310	3 GK2 + 1 GK3
310-340	1 GK 2 + 3 GK3
323-350	4 GK3
330-360	5 GK2
340-380	4 GK2 + 1 GK3
375-410	2 GK2 + 3 GK3
405-445	5 GK3
440-480	3 GK2 + 3 GK3
460-495	2 GK2 + 4 GK3
490-530	6 GK3

These figures are given by way of indication



Technical data:

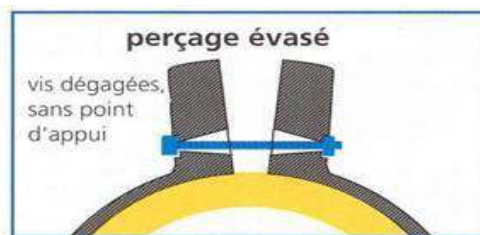
The screws are made of stainless steel A2 (304L).

Resilience: 15 kJ/m² according to ISO 179/2C.

Dielectric strength: 70-80 kV, DIN VDE 0303.

Pressure resistance: 10N/mm² The HS insulation clamps are made of black polyethylene which is about 15 times more UV resistant than white polyethylene.

GK1 GK2 GK3



Available skids heights: 16, 28, 38, 50, 65, 75, 80, 90, 100, 125 mm.

MSG INSULATORS

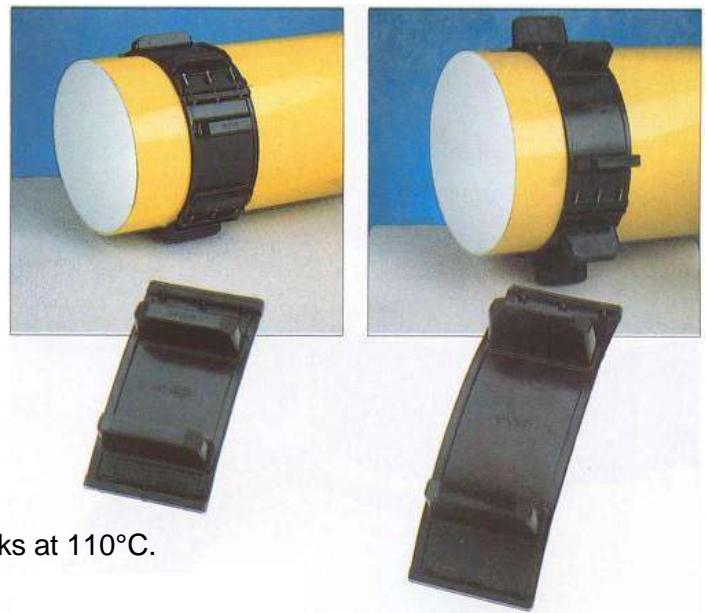
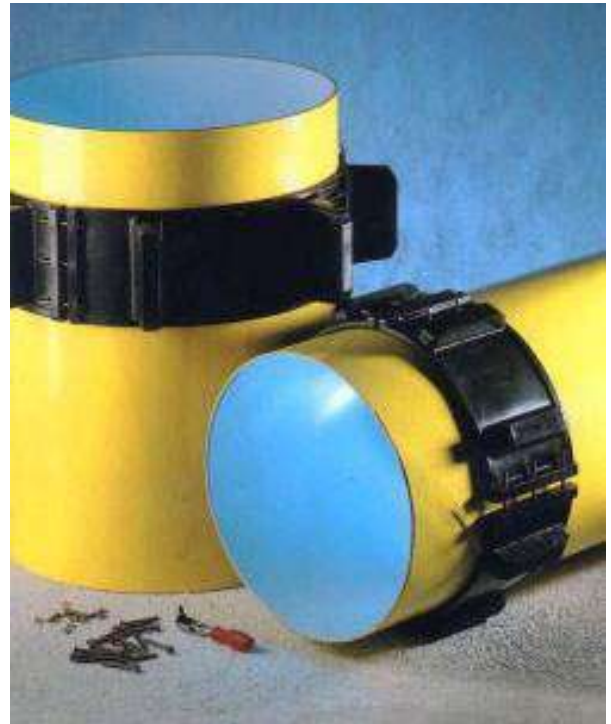
MSG insulators are destined for pipes from 350mm to 1600mm diameter. 2 segment lengths model are necessary to cover all the possibilities (MSG 1 and MSG 1.5)

Assembly clamps are shorter than the skirts, therefore, they do not fulfil any supporting function.

These insulators also have a greater capacity and carrying force.

Pipe Ø	Segment number and types
350 - 399 mm	2 MSG 1 + 1 MSG 1,5
400 - 440 mm	4 MSG 1
449 - 491 mm	3 MSG 1 + 1 MSG 1,5
499 - 549 mm	2 MSG 1 + 2 MSG 1,5
548 - 590 mm	1 MSG 1 + 3 MSG 1,5
598 - 640 mm	4 MSG 1,5
648 - 698 mm	2 MSG 1 + 3 MSG 1,5
697 - 749 mm	1 MSG 1 + 4 MSG 1,5
750 - 799 mm	5 MSG 1,5
797 - 849 mm	2 MSG 1 + 4 MSG 1,5
850 - 899 mm	1 MSG 1 + 5 MSG 1,5
896 - 949 mm	6 MSG 1,5
950 - 999 mm	2 MSG 1 + 5 MSG 1,5
1000 - 1049 mm	1 MSG 1 + 6 MSG 1,5
1050 - 1099 mm	7 MSG 1,5
1100 - 1149 mm	2 MSG 1 + 6 MSG 1,5
1150 - 1199 mm	1 MSG 1 + 7 MSG 1,5
1200 - 1249 mm	8 MSG 1,5
1250 - 1299 mm	2 MSG 1 + 7 MSG 1,5
1300 - 1349 mm	1 MSG 1 + 8 MSG 1,5
1350 - 1399 mm	9 MSG 1,5
1400 - 1499 mm	2 MSG 1 + 8 MSG 1,5
1500 - 1549 mm	10 MSG 1,5
1550 - 1600 mm	2 MSG 1 + 9 MSG 1,5

These figures are given by way of indication



Available skirts height: 20, 25, 38, 42, 50, 67, 75, 90, 110, 125 mm.

Technical data:

They are designed to withstand 90°C continuously with peaks at 110°C.

The screws are made of stainless steel A2 (304L).

Resilience: 15 kJ/m² according to ISO 179/2C.

Dielectric strength: 70-80 kV/mm, DIN VDE 0303.

Pressure resistance: 10N/mm²

The MSG insulation clamps are made of black polyethylene which is about 15 times more UV resistant than white polyethylene.

MSG 1: width 170 mm - length 314mm

MSG 1.5: width 170 mm - length 469mm

GKO MK INSULATORS METAL FREE

GKO mK Insulators are suitable for pipe OD from 150 to 430mm.

Each collar is composed of several segments. Plastic pins necessary to the assembly are delivered with the segments.

Benefits with this type of centring collar:

- Entirely made out of polypropylene (metal free)
- Flexible construction for an easy adaptation to the diameter of the tube
- Simple and quick assembly (closing by pins, metal free)

On a smooth pipe surface (e.g. PE, PVC, steel/cast or PE-coated or stoneware) we recommend wrapping Anti Sliding Tape where there is contact between the pipe and insulator to guarantee optimum security against slipping.

Number of segments	External pipe Ø
4	150 to 180mm
5	181 to 230mm
6	231 to 280mm
7	281 to 330mm
8	331 to 380mm
9	381 to 430mm
Maximum load capacity per insulators	250kg for ≤ 75 mm skids 157,5kg for ≥ 75 mm skids



GKO MK insulators are made of black polyethylene which is about 15 times more UV resistant than white polyethylene.

GKO GL& GS INSULATORS METAL FREE

Insulators type GKO gl / gs are recommended for pipe OD from 400 to 2500mm.

Each necklace is made up of several segments. The plastic wedges necessary for assembly are delivered with the segments.

Benefits of this type of insulators:

- Entirely made of polypropylene (metal free)
- Flexible construction for easy adaptation to pipe diameter
- Simple and quick assembly (closing by pins)

On a smooth pipe surface (e.g. PE, PVC, steel/cast or PE-coated or stoneware) we recommend wrapping

Number of segments	External pipe Ø
3,5	400 to 440mm
4	441 to 490mm
4,5	491 to 540mm
5	541 to 625mm
5,5	626 to 659mm
6	660 to 749mm
7	750 to 854mm
8	855 to 959mm
9	960 to 1067mm
10	1068 to 1199mm
11	1200 to 1330mm
12	1331 to 1440mm
13	1441 to 1540mm
14	1541 to 1660mm
15	1661 to 1800mm
16	1801 to 1910mm
17	1911 to 2042mm
18	2043 to 2150mm
19	2151 to 2270mm
20	2271 to 2400mm
21	2401 to 2500mm
Maximum load capacity per GKO-gl insulator	4000kg for ≤ 75mm skids 3000kg for ≥75mm skids
Maximum load capacity per GKO-gs insulator	14200kg for ≤ 75mm skids 10650kg for ≥75mm skids



Anti Sliding Tape where there is contact between the pipe and insulator to guarantee optimum security against slipping.

GKO GL&GS insulators are made of black polyethylene which is about 15 times more UV resistant than white polyethylene

FLANGE PINS AND LEVELERS

QUICK PINS AND FLANGE PINS

Our quick pins allow quick and accurate flange alignment. They are available in screw-on version (diameter from 16 to 66mm) or with clamping latch (diameter from 16 to 42mm).



Screw-on model:
available in stainless
steel or carbon steel



« Quik Pins » models

Flange levelers

Flange levelers allow centering and alignment of the flanges in one operation thanks to the integrated spirit levels.

They are equipped with "Quick Pins" clamping latches for quicker installation (hole diameter from 16 to 42mm).



ATEX

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AIR MOVERS

Pneumatic Axial Model

	ATEX Guideline 2014/34/EU	Nominal Ø (mm)	Lenght	Maxi operating pressure (bars)	Air consumption m3/min	Flow m3/s	Sound level dB(A)	Weight Kg
Mobile								
	II2GcIIBT6	300	350	5	0,45	0,57	85,7	13
	II2GcIIBT6	300	380	5	0,45	0,57	85,7	14,5
Stationary								
	II2GcIIBT6	300	410	4	2,02	1,57	99	21
	II2GcIIBT6	400	400	4	2,03	3,15	106	32
	II2GcIIBT6	500	520	4	2,73	4,33	105	46
	II2GcIIBT6	600	520	4	3,84	5,83	99	58



Electrical Axial Model

	ATEX Guideline 2014/34/EU	Nominal Ø mm	Nominale Speed tr/min	Output power kW	Nominale tension V	Intensity at nominal voltage A	Frecuence Hz	Flow m3/s	Sound level dB(A)	Weight Kg
Stationary										
	II2GcIIBT3	300	2840	0,35	230 / 400	1,6 / 0,92	50	1	86	20
	II2GcIIBT3	300	2900	0,37	110	5,1	50	1	85	20,5
	II2GcIIBT3	300	2900	0,37	110	5,1	50	1	85	20,5
	II2GcIIBT3	300	2900/3480	0,37	110	5,1	50/60	1	85	20,5
		300	2870	0,37	230	2,3	50	1	85	20,5

Type "Spitzjet" pneumatic model

	ATEX Guideline 2014/34/EU	Nominal Ø mm	Lenght mm	Flow m3/s			Sound level dB(A)	Air consumption n3/min	Connectors	Weight Kg
				at 6 bar	at 5 bar	at 4 bar				
Standard version										
	II2GcT6	100	410	20,5	17,7	14,9	100,8	from 1,6 to 2,3	G 3/8" F	3,3
	II2GcT6	125	425	26,2	23,3	19,6	101,1	from 1,7 to 2,4	G 3/8" F	3,9
	II2GcT6	150	435	49,8	42,7	36,3	103,8	from 2,8 to 4,4	G 1/2" F	5,2
	II2GcT6	180	450	67,5	62,0	53,6	104,4	from 2,9 to 4,5	G 1/2" F	5,3
	II2GcT6	200	450	78,3	65,3	54,3	115,8	from 6,3 to 9,7	G 1/4" F	6,8
	II2GcT6	250	450	88,7	78,9	67,2	116,3	from 6,4 to 9,5	G 1/4" F	8,0
Stainless steel version										
	IM2cT6	101,6	410	21,6	18,2	15,3	100,8	from 1,6 to 2,3	G 1/2" F	4,8
	IM2cT6	129,0	425	27,4	21,7	18,6	101,1	from 1,7 to 2,4	G 1/2" F	5,6
	IM2cT6	154,0	435	52,5	47,0	38,3	103,8	from 2,8 to 4,4	G 1/2" F	7,5
	IM2cT6	168,3	450	59,0	54,2	46,8	104,4	from 2,9 to 4,5	G 1/2" F	7,7
	IM2cT6	204,0	450	81,5	68,0	56,5	115,8	from 6,3 to 9,7	G 1/4" F	9,9
	IM2cT6	219,1	450	83,5	72,1	60,8	116,3	de 6,4 à 9,5	G 1/4" F	11,5



ATEX
Guideline 2014/34/EU



<p><u>Protection grids</u></p> <p>For obvious safety reasons, optional grids can be used when the extractor is used without sleeves.</p>	
<p><u>Flanges according to DIN21603</u></p> <p>To be used if a flanged hose is to be connected to the suction and/or discharge end of the extractor.</p>	
<p><u>Antistatic connection sleeve</u></p> <p>This sleeve is used to connect the extractor to the hose. It can be mounted on both sides.</p>	
<p><u>Antistatic quick coupling</u></p> <p>Allows the connection between the sleeve and the hose</p>	
<p><u>Antistatic air duct</u></p> <p>The air duct is flexible and can be adapted to any type of shape. The length (5m) can be increased by using the quick couplings.</p>	
<p><u>Adapter</u></p> <p>This reduction makes it possible to adapt the diameter of the hoses to many configurations.</p>	
<p><u>Grounding cable</u></p> <p>Mandatory for axial extractors, they can also be used with Spitzjets. The total length is 1.5m.</p>	

MAGNETIC DRILLS

Pneumatic

ATEX Guideline 2014/34/EU	Maximum cutting Ø mm	RPM tour	Power kW	Torque Nm	Air consumption m³/min	Course mm	Height Width Length mm	Connectors	Ø Pipe mm	Sound level dB(A)	Vibration levels m/s²	Weight Kg
II2GcT6	52	400	1	47,5	1,8	130	475/375/190	R 3/8" female	13	79,8	<2,5	18,8
II2GcT6	52	400	1	47,5	1,8	260	600/375/190	R 3/8" female	13	79,8	<2,5	21,7

Performances with a 6 bar operating pressure



ATEX
Guideline 2014/34/EU

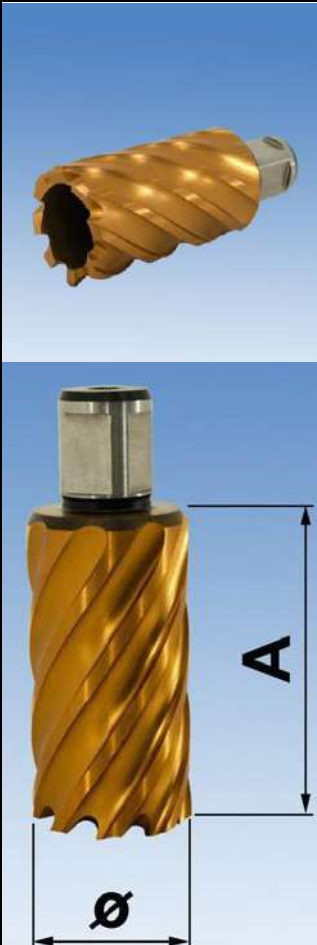
Hydraulic Model

Ref	ATEX Guideline 2014/34/EU	Ø drill bit mm	Ø drill bit helicoidal mm	Ø reaming mm	RPM tour	Power kW	Tool carrier	HUB mm	Oil consumption l/min	Height Width Length mm	Sounds level dB(A)	Vibration level/s²	Weight Kg
23376016	II2GcIIBT5	100	31,75	31	40 à 250	2,5	MT3	300	20-23	547/198/392	79,8	<2,5	22,5

Performances with a 140 bar operating pressure

MAGNETIC DRILLS

HSS Milling cutter					
Ø mm	Usable Length A Short type / long type Mm	Ø mm	Usable length A Short type / long type mm	Ø mm	Usable length A Short type / Long type mm
12	30 / 55	26	30 / 55	40	30 / 55
13	30 / 55	27	30 / 55	41	30 / 55
14	30 / 55	28	30 / 55	42	30 / 55
15	30 / 55	29	30 / 55	43	30 / 55
16	30 / 55	30	30 / 55	44	30 / 55
17	30 / 55	31	30 / 55	45	30 / 55
18	30 / 55	32	30 / 55	46	30 / 55
19	30 / 55	33	30 / 55	47	30 / 55
20	30 / 55	34	30 / 55	48	30 / 55
21	30 / 55	35	30 / 55	49	30 / 55
22	30 / 55	36	30 / 55	50	30 / 55
23	30 / 55	37	30 / 55	51	30 / 55
24	30 / 55	38	30 / 55	52	30 / 55
25	30 / 55	39	30 / 55		



Available accessories:

- Adapter Weldon 19 / Chuck
- Auto Chuck 1,5-13 mm
- Chuck 3-16 mm
- Pipe support Ø150 to 500mm
- Support extension
- Transport case ...
- Filter and lubrication unit
- Ejector Pilot
- Adapter Cone Jaw 3 / Weldon 19
- Adapter Cone Jaw Cone 3 / Weldon 32
- Weldon 19 adapter / chuck
- Adapter MT3 / ½" with connection for cooled liquid
- Adapter MT3 / MT2
- Adapter MT2 / MT1
- Hydraulic Hose Assembly....



HAMMER DRILLS SDS+

Pneumatic Model

ATEX Guideline 2014/34/EU	RPM tour	Power kW	strokes/min	Drilling capacity (concrete)	Air consumption m ³ /min	Lenght (chucks included) mm	Output & input connectors	Ø pipe mm	Sound level B(A)	Vibrati on level m/s ²	weight Kg
I12GcT6	625	0,5	3000	28	0,6	410	½"F_3/8"F	≥10	93	4,5	6,3
IM2cT6	625	0,5	3000	28	0,6	410	Rd 32x1/8"	≥10	93	4,5	9,5

Underwater use

I12GcT6	625	0,5	3000	28	0,6	410	½"F_3/8"F	≥10	93	4,5	6,3
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Performances with a 6 bar operating pressure



Hydraulic Model

ATEX Guideline 2014/34/EU	RPM tour	Power kW	stroke s /min	Drilling capacity (concrete)	Oil consumption l/min	Lenght (Chuck included) mm	Input/output connectors	Sound level dB(A)	Vibrati on level m/s ²	Weight Kg
I12GcT5	500	1,2	3400	28	15-25	460	¾"-16UNF	92	4,5	8,2
I12GcT5	500	1,2	3400	28	15-25	460	¾"-16UNF	92	4,5	8,2

*Safety block intergrated

Performances with a 80 bar operating pressure

HAMMER DRILLS SDS+

Pneumatic Model

	ATEX Guideline 2014/34/EU	RPM tour	Power kW	stroke s /min	Drilling capacity (concrete)	Air consumption m ³ /min	Lenght (Chuck included) mm	Input/output connector	Ø Pipe mm	Sound Level dB(A)	Vibration Level m/s ²	Weight Kg
Under water use												
	II2GcT6	250	1,5	2500	50	1,5	640	½"F_3/8 "F	≥13	90,4	9,2	13,3

Performances with a 6 bar operating pressure



ATEX
Guideline 2014/34/EU

Hydraulic Model

	ATEX Guideline 2014/34/EU	RPM tour	Power kW	stroke s /min	Drilling capacity (concrete)	Oil consumption l/min	Lenght (Chuck included) mm	Connector	Sound level dB(A)	Vibration level m/s ²	Weight Kg
Under water use											
	II2GcT5	270	1,2	2300	50	15-45	640	¾"-16UNF	92	9	14

Performances with a 80 bar operating pressure

ACCESSORIES & CONSUMABLES

SDS+ Drill bit					
Ø x Total length mm	Usable length mm	Ø x Total length mm	Usable length mm	Ø x Total length mm	Usable length mm
5x160	100	12x160	100	20x300	250
6x160	100	12x260	200	22x250	200
8x160	100	14x160	100	22x450	400
10x160	100	14x260	200	25x250	200
12x260	200	16x300	250	25x450	400
SDS Max Drill bit					
Ø x Total length mm	Usable length mm	Ø x Total length mm	Usable length mm	Ø x Total length mm	Usable length mm
12x340	200	20x320	200	30x320	200
12x540	400	20x520	400	32x320	200
14x340	200	22x520	400	40x320	200
14x540	400	24x320	200	40x520	400
15x340	200	24x520	400	45x520	400
16x340	200	26x320	200	50x520	400
16x540	400	30x520	400		



Available accessories:

- Automatic chuck (SDS+)
- SDS+ adapter
- Hydraulic hose assembly
- Safety block
- Filtration and lubrication unit
- Carrying case ...



ACCESSORIES & CONSUMABLES

Pneumatic Model											
ATEX Guideline 94/9 EC	Body	On/Off	Power kW	Course mm	strokes /min	Aur consumption m ³ /min	Vibration level m/s ²	Sound level B(A)	connectors	weight Kg	
II2GcT5	Alu.	Twist	1,1	60	330	1,45	<2,5	84	¾"	6,4	
	Alu.	lever	1,1	60	330	1,45	<2,5	84	¾"	6,4	
IM2cT5	Zamak	lever	1,1	60	330	1,45	<2,5	84	¾"	10	

Performances with a 6 bar operating pressure

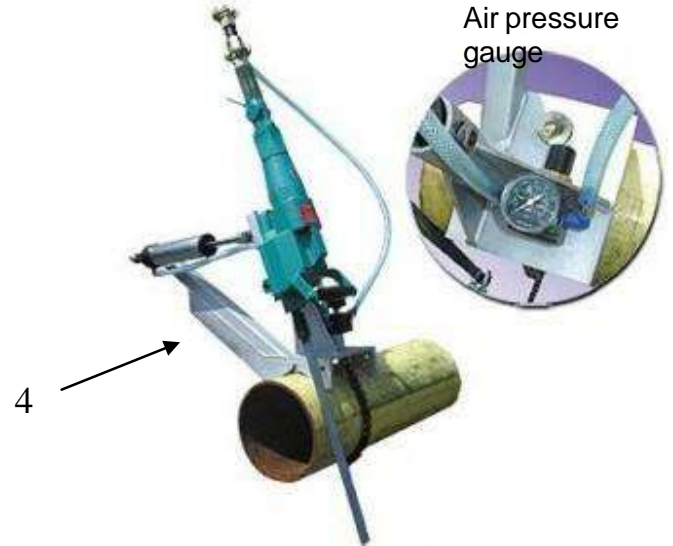
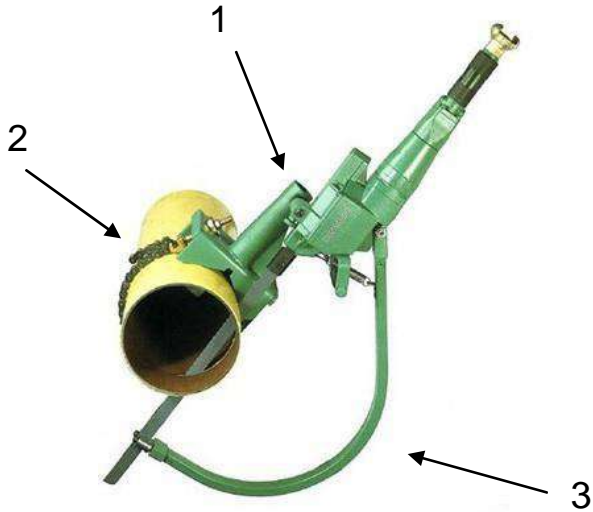


Hydraulic Model											
ATEX Guideline 94/9 EC	Material	On/Off	Power kW	Course mm	Stroke s /min	Oil consumption l/min	Vibration level m/s ²	Sound level dB(A)	connectors	weight Kg	
II2GcT5	Alu	Twist	2,8	60	300	10-50	<2,5	<70	M18x 1,5	10,5	
II2GcT5	Alu	lever	2,8	60	300	10-50	<2,5	<70	M18x 1,5	10,5	

Performances with a 140 bar operating pressure

RECIPROCATING SAWS

ACCESSORIES



Accessories	
	Description
	Clamping device for Ø60 pipes at 150mm (1+2)
	Clamping device for Ø80 pipes at 325mm (1+2)
	Clamping device for Ø80 pipes at 530mm (1+2)
	Blade guide for pipes up to Ø325mm (3)
	Blade guide for pipes up to Ø530mm (3)
	Blade guide for pipes up to Ø600mm (3)
	Automatic cutting feed device + clamp Ø530mm (4)
	Extension chain 0,5m (2)
	Extension chain 1m (2)
	Extension chain 2m (2)
	Portable air filtration and lubrication unit 3/4"
	Clamp for <290mm section profiles (5)
	Clamp for <340mm section profiles (5)



3/4" boxed air service unit

SABRE SAWS

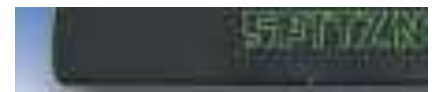
HSS SAW BLADES

Teeth number / "	Dimension	Applications
6	200x25x1,5	Abestos concrete Plastic / Aluminum
6	300x25x1,5	
6	400x25x1,5	
6	500x28x2,0	
6	600x28x1,5	
6	770x28x2,0	
8	200x25x1,5	Plastics, Steel, Aluminum non ferrous metals Stainless Steel
8	400x25x1,5	
8	600x25x2,0	
12	200x28x2,0	Plastics, Steel, Aluminum Non ferrous metals Stainless Steel
12	300x25x1,5	
12	400x25x1,5	
12	500x25x1,5	
12	530x28x1,5	
12	770x28x2,0	
12	940x32x2,0	Plastic, Stell up to 600N/mm ² , Non ferrous metals Stainless Steel
14	150x2,5x1,5	
14	200x25x1,5	
14	250x25x1,5	
14	300x25x1,5	
14	400x25x1,5	
14	500x28x2,0	
14	600x25x1,5	
14	770x28x2,0	Steel, Stainless steel
16	200x25x1,5	



HSS-SL saw blades



Teeth number/ "	Dimension	Applications
12	230x28x1,5	Hight strengh steel Stainless Steel
12	770x28x2,0	
12	940x28x2,0	
16	150x25x1,5	
16	200x25x1,5	
16	250x25x1,5	
16	300x25x1,5	
16	350x25x1,5	
16	400x28x2,0	
16	500x28x1,5	
16	600x25x2,0	



Carbide saw blades

lenght (mm)	Applications
300	Ductile iron pipe
400	
500	
600	
700	
770	
900	




Pneumatic Model										
ATEX Guideline 94/9 EC	Cutting lenght (wood) mm	Cutting lenght (Steel) mm	Power kW	Course mm	Stroke s /min	Air consu mption m ³ /min	Vibration level m/s ²	Sound level dB(A)	Weight Kg	
 II2GcT5	160	19	1,0	28	1200	1,3	<2,5	79,5	3,95	
 IM2cT5	160	19	1,0	28	1200	1,3	<2,5	79,5	6,9	

Performances with a 6 bar operating pressure



ATEX
Guideline 2014/34/EU



Hydraulic Model										
ATEX Guideline 94/9 EC	Cutting lenght (wood) mm	Cutting lenght (Steel) mm	Power kW	Course mm	stokes /min	Oil consu mption l/min	Vibratio n levels m/s ²	Sound levels dB(A)	Weight Kg	
 II2GcT5	160	19	1,5	28	1500	22 - 50	<2,5	89,4	6	

Performances with a 140 bar operating pressure

Blades : please consult us

4 - CONSUMABLES

Consumables

Osborn brushes	4-01
Gap a let.....	4-02
Soluble Gap a let.....	4-03



INDUSTRIAL BRUSHES AND PIPELINES

Osborn manufactures a wide variety of highly efficient brushes and abrasives for the pipeline industry.

Wheel brushes, knotted, plastic-bonded



Wheel brushes:

Ø150x5x22.2 or M14

Ø150x10x32

Ø150x25x50.8

Ø178x4.7x22.2 ou M14

Coated clutch brushes:

Ø90x25x60xM14

Ø145x38x65xM14

Knot twisted wire wheel brushes:

Ø100x6xM14

Ø100x10x22.2 or M14

Ø115x10x22.2 or M14

Ø125x6x22.2

Ø125x10xM14

Ø150x6x22.2 or M14

Ø150x13x22.2 or M14

Ø165x6x22.2

Ø165x10x22.2

Ø171x4x22.2

Ø178x6x22.2 or M14

Ø178x13x22.2 or M14



Knot Twisted wire clutch brushes:

Ø65x20x50XM14

Ø65x20x50xM14

Ø90x32x65xM14

Ø90x32x65x5/8"

Ø100x25x65x5/8"

Ø150x45x70xM14

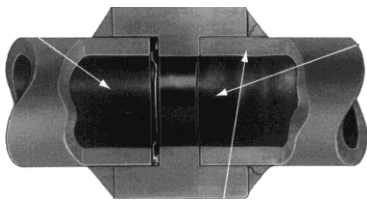
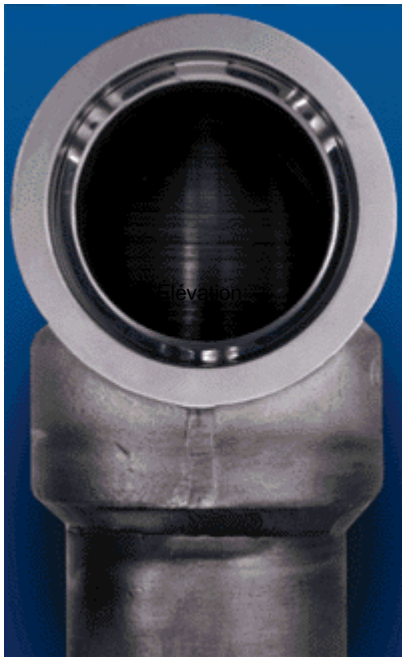
Ø150x45x70x5/8"

Many other models and sizes are available on stock, please consult us.

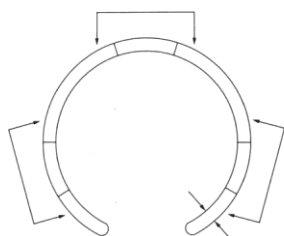
SPACER RING

The GAP-A-LET is a spacer ring designed to give a minimum pre-measurement of the distance between the fittings, and the tubes. Made of stainless steel, it resists to corrosion due to water and chemical and radioactive products.

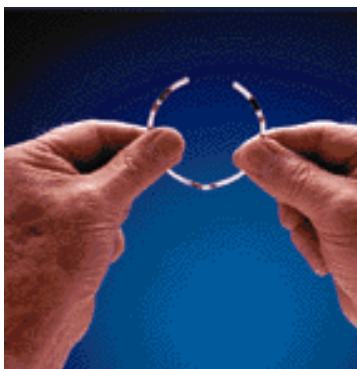
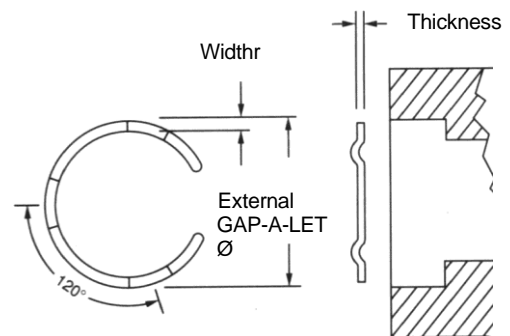
Designed for all socket weld applications, it is used in the following applications in chemistry, petrochemistry, nuclear, it automatically allows to respect a minimum spacing of 1/16" during welding. It complies with ANSI, ASME standards.



standard GAP-A-LET washers	internal connector $r \text{ } \varnothing$ (")	external GAP -A-LET \varnothing (")	Width (")	Thickness (")
1/4 NPS	0.555	0.600	0.070	0.025
3/8 NPS	0.690	0.730	0.070	0.025
1/2 NPS	0.855	0.880	0.070	0.025
3/4 NPS	1.065	1.110	0.070	0.025
1NPS	1.330	1.385	0.105	0.030
1.1/4 NPS	1.675	1.780	0.105	0.030
1.1/2 NPS	1.915	2.020	0.105	0.030
2 NPS	2.406	2.580	0.105	0.030
2.1/2 NPS	2.905	3.010	0.105	0.030
3 NPS	3.500	3.885	0.105	0.030
3.1/2 NPS	4.000	4.150	0.105	0.030
4 NPS	4.500	5.110	0.103	0.040
5 NPS	5.563	5.880	0.103	0.040



ANSI ASME standards
 Nominal Diameter of the pipe 1/4"-3/8"-1/2"-3/4"
 Elevation 0.088"
 Nominal diameter of the pipe 4"-5":
 Elevation 0.093"



SOLUBLE GAP-A-LET



Soluble gap a let is the only model equipped with 3 spikes on its circumference, allowing the block inside the socket, as well as maintaining every position.

Soluble Gap a let is resilient, and completely soluble in water.

The installation before welding generates a 1/6" gap (1.587mm) depending on the ANSI 31.1 standard, section III, ASME, US Navy & Military Codes.

Easy to set up, ready to use, insert and weld!

It dissolves itself completely during the operation. Easy to install, stays in place in every position.



Gap a let washers	Socket diameter	Width
2040000	1/2"	1,587 mm
2040010	3/4"	1,587 mm
2040020	1"	1,587 mm
2040030	1 1/4"	1,587 mm
2040040	1 1/2"	1,587 mm
2040050	2"	1,587 mm
2040060	2 1/2"	1,587 mm



Easy to install



Stays in place in every position

5 - CONTROL, MEASURE, PRESSURE

Control, Measure, Pressure

Holiday detector.....	5-01
Welding gauge	5-02 to 5-03
Welding inspector case	5-04
Hydrotest manual pumps	5-05
Pneumatic high-pressure pump	5-06
Pressure and Temperature measure	5-07



HOLIDAY DETECTOR



Isotest 4.0

Characteristics of the Isotest detector:

- Robust construction suitable for use on a building site.
- Testing of dirty, damp and self-conductive surfaces.
- Rapid battery change.
- 3 grounding possibilities.
- testing of completely insulated objects.
- Emergency off setting mode (optional).
- No static charge on the controller.
- Automatic monitoring of the earthing system.
- Low material stress thanks to short test pulses
- Can be carried on the shoulder.

Application :

Control of coatings and anti-corrosion materials thanks to tension.

Using extremely short high-voltage pulses, layer thicknesses from 100 micrometers to several millimeters can be determined on pores, cracks or hard-to-recognize transit damage.

The device is also suitable for indoor and outdoor pipes, plastic coatings, fully encapsulated reinforcements or machine parts. In the case of non-conductive coatings laid on conductive materials (metal, wet concrete) or inserted with them (for example. plastic joints in pipes and containers) it is therefore possible to easily visualize problems.

Contents of the starter kit :

1 controller, 1 battery pack, 1 charger, 1 grounding cable

Connector socket with ground monitoring, carrying bag, operating instructions and calibration certificate.

Many accessories available on request.

Model	Isotest 4S	Isotest 4.0	Isotest 8.0
Reference	3908057	3908060	3908070
Voltage range	5 - 30 kv	0.5 - 4.0 kv	1.0 - 8.0 kv
Voltage selection	Self-calibrating instrument	LC screen, 8 positions	
Type of impulse	unipolar impulse		
Impulse duration	< 10 μ s		
Voltage supply	PB 6v, 4.5, Ah, separate compartment		
Length of use	Up to 9 hours		
Alarme volume	About 86 DB, 3500 HZ frequency		
Input connection cable	1,5m		
Relevant standards and directives	DIN 55670, DIN 28055, DIN 30670, Din 4681, DIN 28063, DIN EN 14330 (iV), DVGW 462/I, W400-2		
Weight	3 kg		
Dimensions	220 x 256 x 88 mm		



Isotest 4S gaz

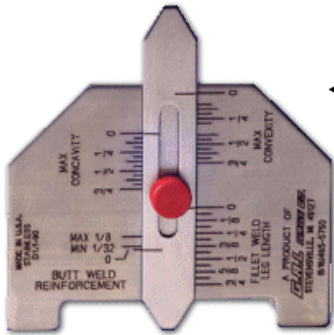
WELDING CONTROL GAUGE - 1



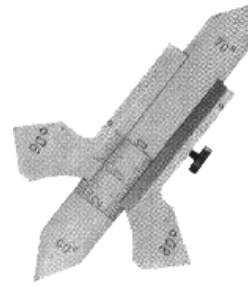
HI-LO #1 Measures internal alignment of pipe after fit-up/alignment cuts radiographic rejects, internal misalignment of pipe before and after tracking.



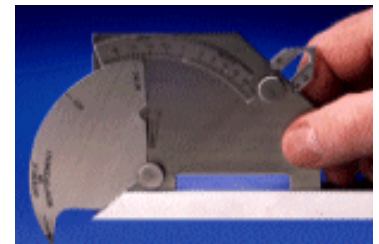
HI-LO simple #2 Economy single purpose hi-lo welding, internal misalignment (metric or inch)



AWS # 6 for accurate calibration of butt fillet type welds

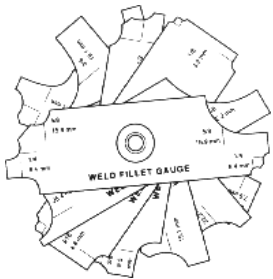


Fillet weld gauge, 60°, 70°, 80°, 90° (metric)



Bridgcam gauge #4 For measure Angle of Preparation, Excess Weld Metal, Depth of Undercut, Depth of Pitting, Weld Throat Size, and more.

Stainless Steel fillet weld gauge standard **NF EN970**

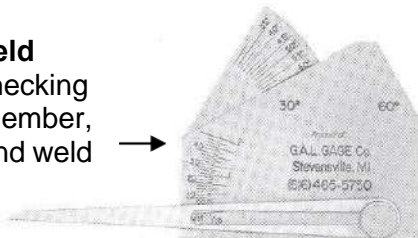


Fillet welding gauge #8A: Checking fillet leg size and throat size.



Taper Gauge: round design in stainless steel

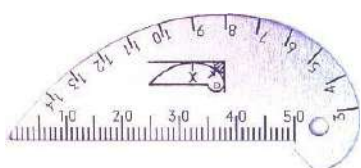
Skew-T Fillet Weld Gauge #9C for checking angle of vertical member, weld acute side and weld obtuse side.



Adjustable fillet #3 Equal leg measurement feature. For fillet weld and throat thick.



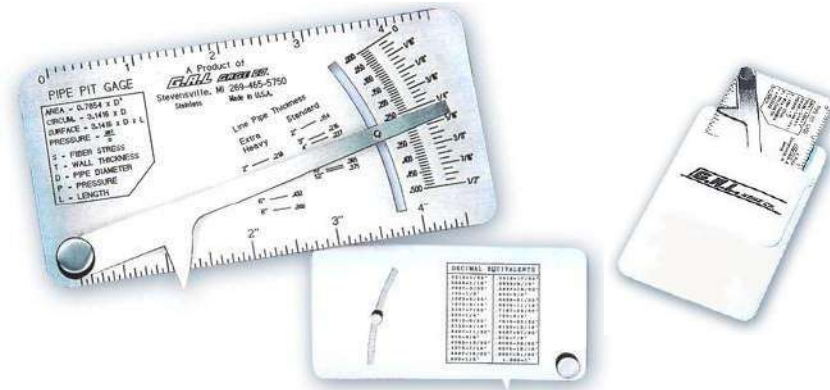
V-WAC #5 Checks undercut, crown height, porosity, pits, in stainless steel, metric or inch



Aluminum fillet weld gauge Markings on both sides

WELDING CONTROL GAUGE- 2

PIPE PIT GAGE #17



Range is 0 to 1/2" in 1/64 & 0.020 increments.
Arm can be locked in place at any dimension.

All stainless steel

Gage will fit in shirt pocket and comes in a pocket protector.

Has handy formulas on front and decimal equivalents on the back

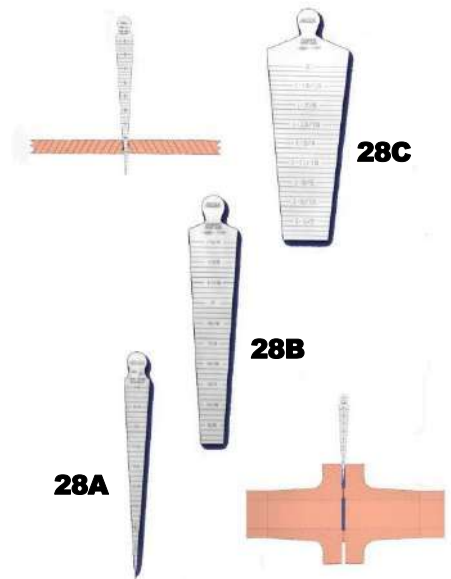
TAPER GAGE #28

Check plate fit-up, front side in inch and back side in metric

Model 28A: 1/32" to 5/8"

Model 28B: 5/8" to 1 3/16"

Model 28C : 1 3/16" to 2"2"



COMBINATION 0-10 DIAL/PIT DEPTH GAUGE #13

Measuring range 0" - 10"

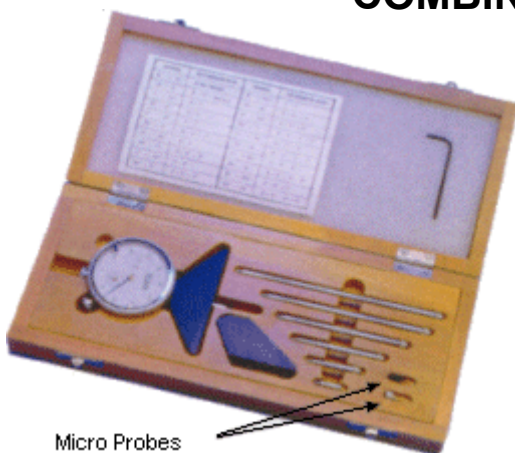
Graduations 0.001"

Accuracy Meets or Exceeds Federal Specs

Continuous dial for 1/2" travel - revolution counter

Uniform pressure over full range of travel

Complete with 6 extensions rods in fitted case



Micro Probes
0.062 Diam - 0.025 Diam



WELDING INSPECTOR CASE

WELDERS, CWI INSPECTORS, INSTRUCTORS BRIEF CASE

Contents of the welding inspector case:

Telescopic magnet with pen 700 mm.
Zero point striking figure 8 mm high.
Chronometer.
Complete dial indicator (90000122-90000125).
Flow meter / Tig torch 0-50 ltr./min.
Curved extension internal control unit.
Straight extension internal control unit.
Fixing lamp with bulb.
HI-LO single level meter #2.
Vernier gauge, angles 60°, 70°, 80°, 90°.
Stainless steel thickness gauge from 0.05mm to 1.00.
HI-LO gauge + dial/pit depth/10mm. gra. 1/100.
Stainless steel tip gauge 1-6 mm round.
Stainless steel prism gauge 30 mm/1.2 "lrg.+HI-LO+depth.
Aluminum welding gauge with inscriptions on 2 sides.
Stable/battery-independent rotating stainless-steel finger light.
Pocket lens, magnification 3x 6x 9x.
Light green tinted safety goggles.
JA welder's inspector case.
3m roll-up meter with level + compass.
Mirror 22.5mm diam. 7/8; 30.5mm diam. 1/2;
39.0 mm diam. 1.54 for internal inspection.
Stainless steel chromed caliper 180 mm.
Digital amperometric clamp for AC/DC 1000 Amp.
Battery handle for quality control.
Leather wallet with pen + notepad.
Foldable fixed probe for internal control.
Stainless steel ruler length 300mm/12".
Measuring probe 90° with clamp, HI-LO +depth.
Straight measuring probe with clamp, HI-LO +depth.
Temperature sensor TK122-1 170mm total width.
Polarization tester.
Digital thermometer -70°C to 1000°C.
Interior quality control unit, Lamp + mirrors.



HYDROTEST MANUAL PUMPS

HIGH PRESSURE HAND-OPERATED TEST PUMPS

Depending on the model, the pumps can be used either for pressures up to 630 bar or up to 1000 bar. The safety valve is part of the basic equipment. A pressure gauge connection G 1/2 is installed on the side of the pump of discharge. All models are also available in a mobile version.

Special design: All parts of the HP 32/12 VA test pump and accessories are in contact with the tested liquid are made of stainless steel.



Application:

The model HP 140 is a light inspector's test pump. The models UX 60, HP 300 and HP 220 have a low capacity due to single-stage design (one plunger). The model HP 500 is a double-stage test pump (two plungers) for a higher volume (see diagram). Test liquid: Clear water, water/oil emulsion or low viscosity oil.

Design:

The pump body of model UX 60 is made from cast aluminum, the 10-liter reservoir from stainless steel. The pump block of the other models is from pressure-proof cast iron. The reservoir is completely galvanized. Rectangular containers with 60 l volume are also available for models HP 300, HP 220 and HP 500, instead of oval 30-liter reservoir.

Model	HP140	UX60	HP300	HP220	HP500	HP32/12	HP32/8
Plunger Ø (mm)	14	20	30	22	50/16	32/12	32/8
flow (cm ³)	50	10	24	13	75/7.5	28/3.4	28/1.5
Test pressure (Bar)	30	60	60	100	200	630	1000
Dimensions (cm)	-	50X18x16	43 x 31 x 33			48 x 33 x 49	
Weight (Kg)	4	6.5	14	14	18	35	35

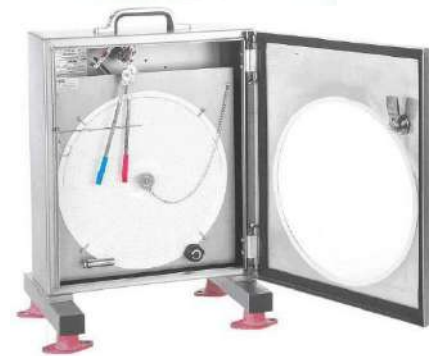


Kit mobile option for HP32/12 and HP32/8

PRESSURE & TEMPERATURE MEASURE



Boxed Pressure recorder Ø200mm or 300mm:
Verification of supply pressures of liquids (water, fuel, oil) gases (air, various gases).
Allows you to have a justification in case of issue through the registration of the constant pressure on 24 hours or 7 days. Manual or Quartz clock. Stainless-steel or steel case.



Pressure and Temperature recorder with mixed stainless-steel case (pressure and temperature) drum. Movement sequence of mechanical clockwork with manual winding with weekly revolution. (if other rotation, please consult us).
Example: 0-10 Bar, -10 +50 °C.

DEAD WEIGHT TESTER

Highly accurate instrument for testing and calibrating pressure gauges up to 20000psi.

It is the only portable manometric scale of this capacity, aluminum base, weight in brass, protective case. With manual pump and different connections 1/8", 1/4", 1/2" in Gas or NPT. Accuracy guaranteed: 0.1%.

Several ranges: Standard pressure from 5-500psi to 5-1500psi, high pressure from 50-3000psi to 50-5000psi and very high pressure from 50-6000 to 50-20000psi.



DIRECT-READING MANOMETER AND INDICATOR OF PRESSURE LOSS




Pressure gauge scale in Bar or PSI from 0-6 to 0-1000 Bar, from 0 -100 to 0 - 10000 PSI with different connections 1/2" GAS or NPT. Aluminum or stainless-steel housing, with or without damping liquid. With or without calibration certificate. For further details, please consult us



Cutting, Beveling

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EXACT 170 Pipe cutter Circular Saw	EXACT 170E Pipe cutter Circular Saw
	
<p><u>Content:</u> Exact 170 saw, 4 Pipe Support, user's guide, 5 and 2 mm, allen keys DVD instructions and Demo. 1 Blade TCT 1 Ø 140mm, Carrying bag</p>	<p><u>Content:</u> Exact 170E saw, 4 Pipe Benches, user's guide, 5 and 2 mm allen keys, DVD instructions et Demo. 1 TCT blade Ø 140mm, Carrying bag,</p>
<p><u>Power :</u> 1010W</p>	<p><u>Power :</u> 1200W</p>
<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>
<p><u>No-Load:</u> 4000tr/min</p>	<p><u>No-Load:</u> 1600 à 3500tr/min</p>
<p><u>Application range :</u> Ø15mm à Ø170mm</p>	<p><u>Application range :</u> Ø15mm à Ø170mm</p>
<p><u>Max thickness:</u> 6mm (steel) / 14mm (plastic)</p>	<p><u>Max thickness:</u> 8mm (steel) / 14mm (plastic)</p>
<p><u>Blade diameter :</u> 140mm</p>	<p><u>Blade diameter :</u> 140mm</p>
<p><u>Mounting bore :</u> 62mm</p>	<p><u>Mounting bore :</u> 62mm</p>
<p><u>Weight:</u> 5,7kg</p>	<p><u>Weight:</u> 5,7kg</p>
<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-resistant, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-resistant, multi- layered materials and all kinds of plastics</p>


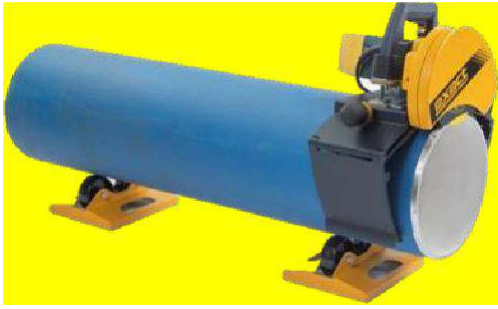


EXACT 220E Pipe cutter Circular Saw	EXACT 220 PRO SERIES Pipe cutter Circular Saw	EXACT 220 INOX Pipe cutter Circular Saw
		
<p><u>Content:</u> Exact 220E saw, 4 Pipe Benches, user's guide 5 and 2 mm allen keys, DVD instruction et Demo. 1 TCT blade Ø 140mm, Carrying bag</p>	<p><u>Content:</u> Exact 220 pro series saw, 4 Pipe Benches, user's guide 5 and 2 mm allen keys, DVD instruction et Demo. 1 TCT blade, Carrying bag</p>	<p><u>Content:</u> Exact 220 INOX saw, 4 Pipe Benches, user's guide 5 and 2 mm allen keys, DVD instruction et Demo. 1 TCT blade, Carrying bag</p>
<p><u>Power :</u> 1200W</p>	<p><u>Power :</u> 1600W</p>	<p><u>Power :</u> 1600W</p>
<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>
<p><u>No-Load:</u> 1600 à 3500tr/min</p>	<p><u>No-Load:</u> 1900 à 2885tr/min</p>	<p><u>No-Load:</u> 1900 à 2885tr/min</p>
<p><u>Application range :</u> Ø15mm à Ø220mm</p>	<p><u>Application range :</u> Ø20mm à Ø220mm</p>	<p><u>Application range :</u> Ø20mm à Ø220mm</p>
<p><u>Max thickness:</u> 8mm (acier) / 14mm (plastique)</p>	<p><u>Max thickness:</u> 16mm (steel) / 35mm (plastic)</p>	<p><u>Max thickness:</u> 12,5mm</p>
<p><u>Blade diameter:</u> 140mm</p>	<p><u>Blade diameter:</u> 165mm</p>	<p><u>Blade diameter:</u> 140mm</p>
<p><u>Mounting bore :</u> 62mm</p>	<p><u>Mounting bore :</u> 62mm</p>	<p><u>Mounting bore :</u> 62mm</p>
<p><u>Weight:</u> 6kg</p>	<p><u>Weight:</u> 11,5kg</p>	<p><u>Weight:</u> 11,5kg</p>
<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-resistant, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-resistant, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-resistant, multi-layered materials and all kinds of plastics</p>

EXACT 280 PRO SERIES Pipe cutting circular saw	EXACT 360 PRO SERIES Pipe cutting circular saw	EXACT 360 INOX Pipe cutting circular saw
		
<p><u>Content:</u> Exact 280 Pro Series Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD instruction and Demo. 1 TCT blade Ø140mm ,Carrying bag</p>	<p><u>Content:</u> Exact 360 Pro Series Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD Instruction and Demo. 1 TCT blade, Carrying bag</p>	<p><u>Content:</u> Exact 360 INOX Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD Instruction and Demo. 1 TCT blade, Carrying bag</p>
<p><u>Power :</u> 2500W</p>	<p><u>Power :</u> 2500W</p>	<p><u>Power :</u> 2500W</p>
<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>
<p><u>Idling Speed:</u> 2900 to 3900tr/min</p>	<p><u>Idling Speed:</u> 2900 to 3900tr/min</p>	<p><u>Idling Speed:</u> 1900 to 2885 tr/min</p>
<p><u>Application Range :</u> Ø40mm à Ø280mm</p>	<p><u>Application Range:</u> Ø75mm to Ø360mm</p>	<p><u>Application Range:</u> Ø75mm to Ø360mm</p>
<p><u>Max Thickness:</u> 10mm (steel) / 38mm (plastic)</p>	<p><u>Max Thickness:</u> 10mm (steel) / 38mm (plastic)</p>	<p><u>Max Thickness:</u> 12mm (steel) / 50mm (plastic)</p>
<p><u>Blade diameter:</u> 165mm</p>	<p><u>Blade diameter:</u> 165mm</p>	<p><u>Blade diameter:</u> 140mm</p>
<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>
<p><u>Weight:</u> 15,5kg</p>	<p><u>Weight:</u> 17,5kg</p>	<p><u>Weight:</u> 17,5kg</p>
<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-proof, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-proof, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-proof, multi-layered materials and all kinds of plastics</p>

EXACT 460 Pro Series scie circulaire coupe tube	EXACT 460 Inox scie circulaire coupe tube	EXACT Infinity scie circulaire coupe tube
		
<p><u>Content:</u> Exact 460 Pro Series Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD Instruction and Demo. 1 TCT blade, Carrying bag</p>	<p><u>Content:</u> Exact 460 INOX Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD Instruction and Demo. 1 TCT blade, Carrying bag</p>	<p><u>Content:</u> Exact 460 INOX Saw, 4 pipe benches, user's guide, 5 and 2 mm allen keys, DVD Instruction and Demo. 1 TCT blade, Carrying bag</p>
<p><u>Power :</u> 1010W</p>	<p><u>Power :</u> 1600W</p>	<p><u>Power :</u> 1600W</p>
<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>
<p><u>Idling Speed:</u> 4000 tr/min</p>	<p><u>Idling Speed:</u> 4000 tr/min</p>	<p><u>Idling Speed:</u> 4000 tr/min</p>
<p><u>Application Range:</u> Ø100mm to Ø460mm</p>	<p><u>Application Range:</u> Ø100mm to Ø460mm</p>	<p><u>Application Range:</u> Ø360mm to ØInfinity</p>
<p><u>Max Thickness:</u> 15mm (steel) / 50mm (plastic)</p>	<p><u>Max Thickness:</u> 10mm (steel) / 38mm (plastic)</p>	<p><u>Max Thickness:</u> 190mm</p>
<p><u>Blade diameter:</u> 165mm</p>	<p><u>Blade diameter:</u> 165mm</p>	<p><u>Blade diameter:</u> 165mm</p>
<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>
<p><u>Weight:</u> 17,5kg</p>	<p><u>Weight:</u> 11,5kg</p>	<p><u>Weight:</u> 11,5kg</p>
<p><u>Can be used to cut the following materials:</u> All kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless steel, steel, acid-proof, multi-layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> All kinds of plastics</p>

EXACT PIPECUT P400 Pipe cutting circular saw	EXACT PIPECUT P1000 Pipe cutting circular saw	EXACT PIPECUT V1000 Pipe cutting circular saw
		
<p><u>Content:</u> Exact P400 saw, 3 Pipe benches, user's guide, allen 5- and 2-mm keys, DVD instruction and demo. 1 TCT P blade Ø150mm tungsten carbide pellets + 1 Cut Bevel blade, Carrying bag</p>	<p>Contents : carrying bag, Exact Pipecut P1000 saw, user manual, 5 mm allen key, instruction DVD and Demo. 1 Cermet V155 mm blade with ceramic alloy pellets. P1000 bracket sold separately</p>	<p>Contents : carrying bag, Exact Pipecut V1000 saw, user manual, 5 mm Allen key, instruction DVD and Demo. 1 Cermet V155 mm blade with ceramic alloy pellets. V1000 bracket sold separately</p>
<p><u>Power :</u> 1010W</p>	<p><u>Power :</u> 1600W</p>	<p><u>Power :</u> 1010W</p>
<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>	<p><u>Voltage :</u> 230V</p>
<p><u>Idling Speed :</u> 4000tr/min</p>	<p><u>Idling Speed :</u> 4000tr/min</p>	<p><u>Idling Speed :</u> 4000tr/min</p>
<p><u>Application Range:</u> Ø100mm to Ø400mm</p>	<p><u>Application Range:</u> Ø60mm à Ø1000mm</p>	<p><u>Application Range:</u> Ø75mm à Ø1000mm</p>
<p><u>Max Thickness:</u> 25mm (cutting) / 22mm (bevel)</p>	<p><u>Max Thickness:</u> 75 mm</p>	<p><u>Max Thickness:</u> 1,5mm (tuyau) / 6mm (joint)</p>
<p><u>Blade diameter:</u> 150mm</p>	<p><u>Blade diameter:</u> 165, 180, 190, 250 mm</p>	<p><u>Blade diameter:</u> 155mm</p>
<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 65mm</p>
<p><u>Weight:</u> 6kg</p>	<p><u>Weight:</u> 11,5kg</p>	<p><u>Weight:</u> 6kg</p>
<p><u>Can be used to bevel and cut the following materials:</u> All kinds of plastics</p>	<p><u>Can be used to bevel and cut the following materials:</u> All kinds of plastics</p>	<p><u>Can be used to bevel and cut the following materials:</u> Thin-walled ventilation pipes made of steel, aluminium and stainless steel</p>

EXACT CUT + BEVEL 170E Cutting and beveling	EXACT CUT + BEVEL 360 PRO SERIES Cutting and beveling
	
Contents : carrying bag, Exact Cut + Bevel 170 saw, 4 tube supports, user manual, 5 and 2 mm allen key, instruction and Demo DVD. 1 CUT+BEVEL blade Ø 140mm diamond disc	Contents : carrying bag, Exact PipeCut + Bevel 360 Pro Series saw, 3 pipe supports, user manual, 5 and 2 mm Allen key, instruction and Demo DVD. 1 bevel cut diamond blade Ø 165mm + 1 TCT blade
<u>Power :</u> 1200W	<u>Power :</u> 2500W
<u>Voltage:</u> 230V	<u>Voltage:</u> 230V
<u>Idling speed:</u> 1600 à 3500tr/min	<u>Idling speed:</u> 1600 2900 à 3900tr/min
<u>Application Range:</u> Ø15mm à Ø170mm	<u>Application Range:</u> Ø75mm à Ø360mm
<u>Max Thickness:</u> 8mm (melting) / 14mm (plastic)	<u>Max Thickness:</u> 10mm (steel) / 38mm (plastic)
<u>Blade diameter:</u> 140mm	<u>Blade diameter:</u> 165mm
<u>Reaming:</u> 62mm	<u>Reaming:</u> 62mm
<u>Weight:</u> 5,7kg	<u>Weight:</u> 12,1kg
<u>Can be used to bevel and cut the following materials:</u> Gray and ductile iron and all plastics	<u>Can be used to bevel and cut the following materials:</u> steel, stainless steel, aluminium <u>Suitable for cutting and chamfering:</u> cast iron and all plastics

EXACT 360 AIR Pipe cutting circular saw	EXACT CUT + BEVEL 360 AIR Cutting and beveling
	
<p><u>Content:</u> Exact 360 AIR saw, user's guide, 5 and 2 mm allen keys, DVD instruction and demo Carrying bag.</p>	<p><u>Content:</u> Exact PipeCut + Bevel 360 Air Saw, 4 Pipe benches, user's guide, 5 and 2 mm allen keys, DVD instruction and demo.1 CUT AND BEVEL diamond blade Ø 165mm + 1 TCT165 blade Carrying bag</p>
<p><u>Power :</u> 4,6Ch</p>	<p><u>Power :</u> 4,6Ch</p>
<p><u>Air Supply:</u> 6 bar / 90 psi</p>	<p><u>Air Supply :</u> 6 bar / 90 psi</p>
<p><u>Air consumption :</u> 4 m³/min</p>	<p><u>Air consumption :</u> 4 m³/min</p>
<p><u>Application Range :</u> Ø100mm toØ360mm</p>	<p><u>Application Range :</u> Ø100mm toØ360mm</p>
<p><u>Max Thickness:</u> 10mm (steel) / 45mm (plastic)</p>	<p><u>Max Thickness:</u> mm (Steel) / mm (plastic)</p>
<p><u>Blade diameter:</u> 165mm or 180mm</p>	<p><u>Blade diameter:</u> 165mm or 180mm</p>
<p><u>Reaming:</u> 62mm</p>	<p><u>Reaming:</u> 62mm</p>
<p><u>Weight:</u> 26,7kg</p>	<p><u>Weight:</u> 26,7kg</p>
<p><u>Can be used to cut the following materials:</u> Steel, copper, cast iron, stainless-steel, multi layered materials and all kinds of plastics</p>	<p><u>Can be used to cut the following materials:</u> cast iron, ductile cast iron, steel and all kinds of plastics <u>Can be used to cut and bevel the following materials:</u> cast iron, ductile cast iron and all kinds of plastics</p>

TOOLS - SAW BLADES

Machines

Materials

Materials:
Steel, copper, aluminum and plastics.

TCT:
Tungsten carbide tips, resharpenable reusable.

Materials:
Stainless-steel, copper and plastics.

CERMET:
Ceramic alloy tips, intense use Resuable.

Materials:
Cast iron.

DIAMOND:
Especially made for cast iron pipes cutting and beveling Non sharpenable.

Materials :
Aluminum and plastic

ALU:
Tungsten carbide tips (TCT). Sharpenable

Materials:
Cast iron and plastics, (PE, PP, PVC, etc.)

Diamond CUT and BEVEL:
Blade Ø140 x 62 x 3,3 x 2 mm.





Materials:
Plastic (PE, PP, PVC, etc.)

CUT and BEVEL:
Blade Ø148 x 62 x 2/30 x 40/8 mm

	Pipe Cut 170 - 170E - 220E	Pipe Cut Pro Series 280 - 360	Pipe Cut 360 AIR	Pipe Cut & Bevel 170	Pipe Cut P400 - P400 Battery	Pipe Cut V1000
	 TCT _ Ø140 46 teeth	 TCT _ Ø165 52 teeth	Not available	Not available	Not available	Not available
	 Cermet _ Ø140 46 teeth	 Cermet _ Ø165 52 teeth	 Cermet _ Ø180 56 teeth	Not available	Not available	 Cermet V155 _ Ø155 58 dents
	 Diamond _ X140 Ø140x2mm	 Diamond _ X165 Ø165x2,7mm	 Diamond _ X180 Ø180x2,7mm	Not available	Not available	Not available
	 Alu _ Ø140 36 teeth	 Alu _ Ø165 42 teeth	Not available	Not available	 Alu _ Ø140 or Ø165 36 or 42 teeth	Not available
	Not available	 Diamond Cut Bevel Ø165x3,3mm	Not available	 Diamond Cut Bevel Ø140x3,3mm	Not available	Not available
	Not available	Not available	Not available	Not available	 Cut Bevel_40 teeth 8 tips	Not available

RECIPROCATING SAWS

Simple Pipe Benches

PipeCut 170E	PipeCut 280 Pro Series	PipeCut 360 Pro Series	PipeCut P400	PipeCut V1000	Table Mini Roll	Table Adjust A Roll
						
Ø maxi: 170mm WLL:	Ø maxi: 280mm WLL: 110kg	Ø maxi: 360mm WLL: 110kg	Ø maxi: 400mm WLL: 40kg	Ø maxi: 1000mm WLL: 110kg	Ø maxi: 900mm WLL: 450-1135kg	Ø maxi: 900mm WLL: 450-1135kg

Double pipe benches

PipeCut 360 Pro Series	PipeCut P400
	
Pipe Ø maxi: 360mm WLL: 235kg	Pipe Ø maxi: 400mm WLL: 60kg

Pipe Bench 170 Cutting set



The Pipe Bench 170 is a lightweight and easy to transport workbench and can be supplied with a variety of accessories.

Whichever combination you choose, you have a handy shoulder bag to carry the accessories and other tools needed for pipe work.

Features:

Capacity: OD 15mm -170mm (0.6"-6.7")
 Maximum load: 100kg (220 lbs) Weight: 12.1 kg (26.1 lbs)
 Length: 1180mm -2510mm (46.5"-98.8")
 Height: 700mm (27.5")

Working height: 875mm -1030mm (34.4"-40.5")

The Pipe Bench 170 cutting set consists of:

- PipeBench 170 (x1)
- Pipe holder (x4)
- Tool bag (x1)

The Pipe Bench 170 cutting set & crimping set consists of:

- Pipe Bench 170 (x1)
- Pipe holder (x4)
- Tool bag (x1)
- Chain vices (x1)

The Pipe Bench 170 complete set consists of:

- Pipe Bench 170 (x1)
- Pipe holder (x4)
- Tool bag (x1)
- Chain vices (x1)
- Work surface (x1)
- Chip box (x1)

The pipe holder is designed to support the pipe and to roll during cutting. Cutting is done in the centre of 2 pairs.

ED max 170mm.



The bench vice is used to hold piping for threading or when welding pieces.

ED max 170mm.



The worktop is used for different types of work. You can hang pieces, etc. on it. You can drill holes in it to install a vice.
 Dim: 400mm x 250mm



The chip box is used to keep your work area clean. It allows you to collect chips when sawing pipes or making threads.



RECIPROCATING SAWS

Pneumatic Model

ATEX Guideline 94/9 EC	Body	On/Off	Power kW	Course mm	Strokes /min	Air consumption m ³ /min	Vibration level m/s ²	Sound level dB(A)	Connectors	Weight Kg
II2GcT5	Alu.	Twist	1,1	60	330	1,45	<2,5	84	¾"	6,4
	Alu.	lever	1,1	60	330	1,45	<2,5	84	¾"	6,4
IM2cT5	Zamak	lever	1,1	60	330	1,45	<2,5	84	¾"	10

Performances with a 6 bar operating pressure

Electric Model

Ref	Body	Power kW	Voltage V	Protection class	Frequency Hz	Strokes / min	Course mm	Vibration level m/s ²	Sound level dB(A)	Weight Kg
1225445	Alu	1,2	220	II	50	200 to 400	60	3,0	86	7,8
1225444	Alu	1,2	110	II	40 - 60	200 to 400	60	3,0	86	7,8

Modèle Hydraulique

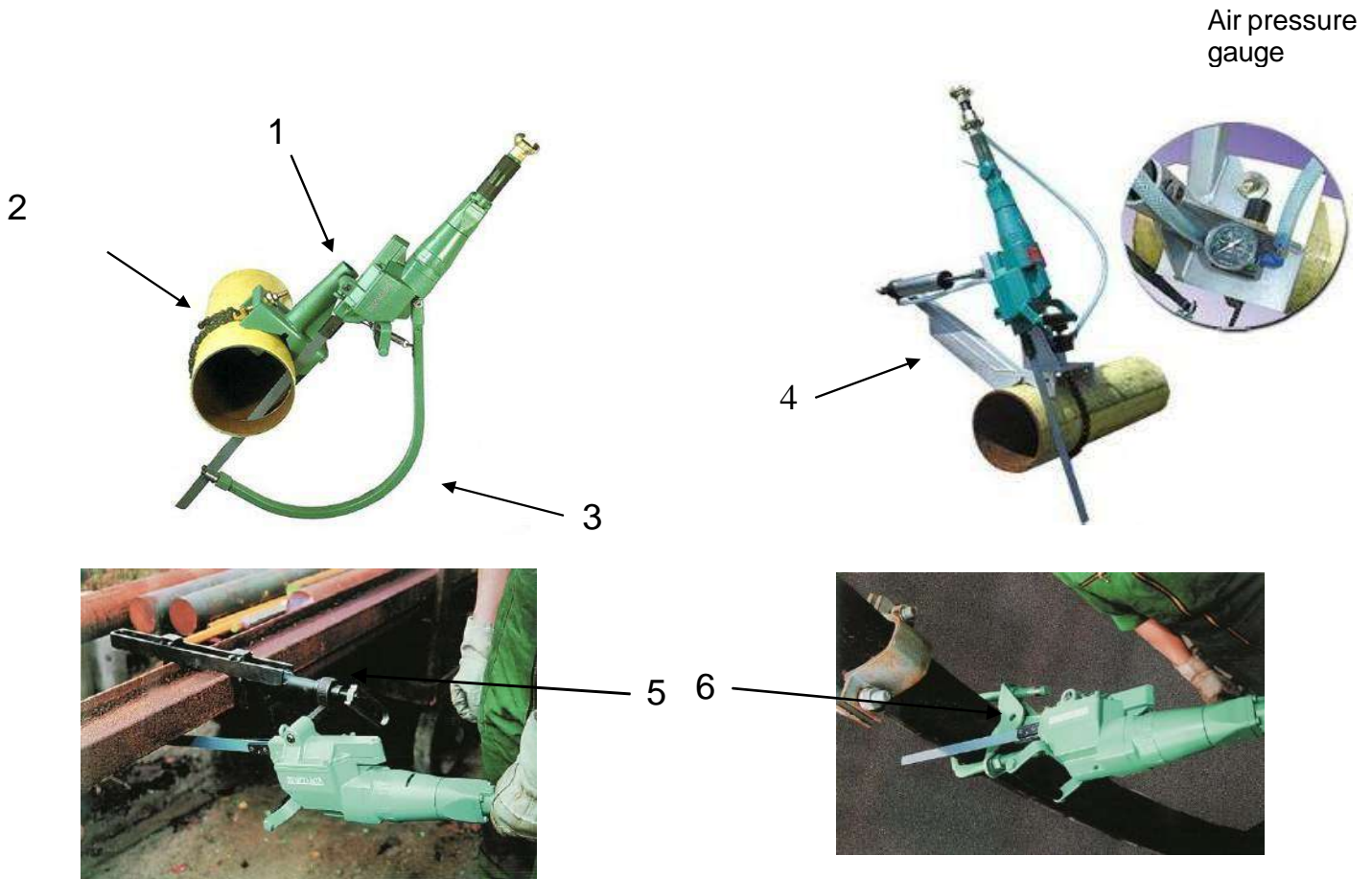
Ref	ATEX Guideline 94/9 EC	Body	On/Off	Power kW	Course mm	Strokes /min	Oil consumption l/min	Vibration level m/s ²	Sound level dB(A)	Connectors	Weight Kg
12254447	II2GcT5	Alu	Twist	2,8	60	300	10-50	<2,5	<70	M18x1,5	10,5
12254448	II2GcT5	Alu	lever	2,8	60	300	10-50	<2,5	<70	M18x1,5	10,5

Performances with a 140 bar operating pressure



RECIPROCATING SAWS

ACCESSORIES



Accessories	
Description	
	Clamping device for pipes of 60 to 150mm Ø (1+2)
	Clamping device for pipes of 80 to 325mm Ø (1+2)
	Clamping design for pipes of 80 to 530mm Ø (1+2)
	Blade guides for pipes up to Ø325mm (3)
	Blade guides for pipes up to Ø530mm (3)
	Blade guides for pipes up to Ø600mm (3)
	Automatic cutting device + clamp Ø530mm (4)
	Extension chain 0,5m (2)
	Extension chain 1m (2)
	Extension chain 2m (2)
	Portable air filtration and lubrication unit 3/4"
	Clamp for cross-section profiles <290mm (5)
	Clamp for cross-section profiles <340mm (5)



Boxed air service Unit 3/4"

RECIPROCATING SAW BLADES

HSS Saw Blades

Nb of teeth/ "	Dimension	Materials
6	200x25x1,5	Abestos Concrete Plastic / Aluminum
6	300x25x1,5	
6	400x25x1,5	
6	500x28x2,0	
6	600x28x1,5	
6	770x28x2,0	
8	200x25x1,5	Plastics, Steel, Aluminum Non ferrous metals Stainless Steel
8	400x25x1,5	
8	600x25x2,0	
12	200x28x2,0	Plastics, Steel, Aluminum Non ferrous metals Stainless Steel
12	300x25x1,5	
12	400x25x1,5	
12	500x25x1,5	
12	530x28x1,5	
12	770x28x2,0	
12	940x32x2,0	
14	150x2,5x1,5	Plastic, Steel up to 600N/mm ² , Non ferrous metals Stainless Steel
14	200x25x1,5	
14	250x25x1,5	
14	300x25x1,5	
14	400x25x1,5	
14	500x28x2,0	
14	600x25x1,5	
14	770x28x2,0	
16	200x25x1,5	Steel, Stainless Steel

HSS-SL Saw blades

Nbre dents / "	Dimension	Materials
12	230x28x1,5	Hight resistance steel Stainless steel
12	770x28x2,0	
12	940x28x2,0	
16	150x25x1,5	
16	200x25x1,5	
16	250x25x1,5	
16	300x25x1,5	
16	350x25x1,5	
16	400x28x2,0	
16	500x28x1,5	
16	600x25x2,0	



Carbide saw blades

Lenght (mm)	Materials
300	Ductile cast iron piping system
400	
500	
600	
700	
770	
900	



SABRE SAWS

Pneumatic Model

ATEX Guideline 94/9 EC	Cutting length (Wood) mm	Cutting length (steel) mm	Power kW	Stroke mm	Strokes /min	Air consumption m ³ /min	Vibration level m/s ²	Sound level dB(A)	Weight Kg
 II2GcT5	160	19	1,0	28	1200	1,3	<2,5	79,5	3,95
 IM2cT5	160	19	1,0	28	1200	1,3	<2,5	79,5	6,9


Performances with a 6 bar operating pressure



ATEX
Guideline 2014/34/EU



Hydraulic Model

ATEX Guideline 94/9 EC	Cutting Length (Wood) mm	Cutting length (Steel) mm	Power kW	Stroke mm	Strokes /min	Oil consumption l/min	Vibration Level m/s ²	Sound level dB(A)	Weight Kg
 II2GcT5	160	19	1,5	28	1500	22 - 50	<2,5	89,4	6

Performances with a 140 bar operating pressure

Blades : please contact us

TUBOCUT BEVELING MACHINES

TUBOCUT is a portable pipe flame cutting and beveling machine

Fast and easy mounting of the two semi-circular steel guides

- Precise centering and locking onto the pipe by mean of a special clamping device
- Very high guidance and cutting precision through the three-point support of the guide and drive wheels
- Possibility of bevel cutting up to 45° with the aid of an angle scale at the torch holder.

The machine is provided with:

- Scope of supply:** - set of block nozzles 3 - 50 mm for acetylene or Propane, - nozzle cleaners - spanners
-Electric motorization on demand

Tubocut 2 cut steel pipes
from Ø110 to 260
mm.



Tubocut 1 cut steel pipes
from Ø70 to 120 mm..



TubOcut 3 cut steel
pipes from Ø250 to
410 mm.



TubOcut 4 cut steel pipes
from Ø400 to 1600 mm.



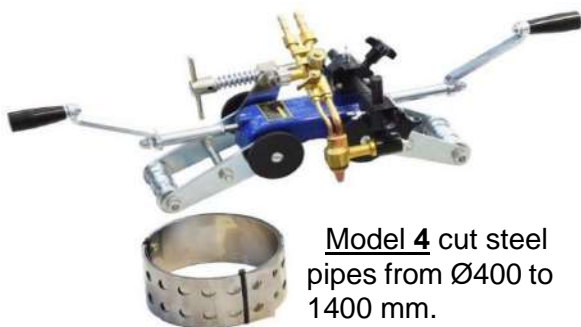
Tubocut 4's guiding bands are available for the following pipe range diameters:

- 400 – 600 mm
- 600 – 1000 mm
- 900 – 1200 mm
- 1200 – 1600 mm

ZINSER BEVELING MACHINES

Portable flame cutting technology from ZINSER for simultaneous cutting and bevelling of steel pipes

The pipe cutting devices are designed to be fitted onto an endless pipe. With the fast clamping device the pipe cutting device can be clamped at any position on the pipe. The movement around the pipe is achieved by the means of 2 hand cranks and 4 wheels. The hand cranks are fitted for the operator not to have to change his position when the pipe is being cut. The cutting torch can be swivelled by $\pm 45^\circ$ and is equipped with a horizontal and vertical adjustment (2 coordinates slide). Instead of the manual drive by means of hand cranks an electric drive with spur gear and infinitely variable speed control is also available.



Model 4 cut steel pipes from $\text{Ø}400$ to 1400 mm.

The design of the beveling machines is different according to the size:

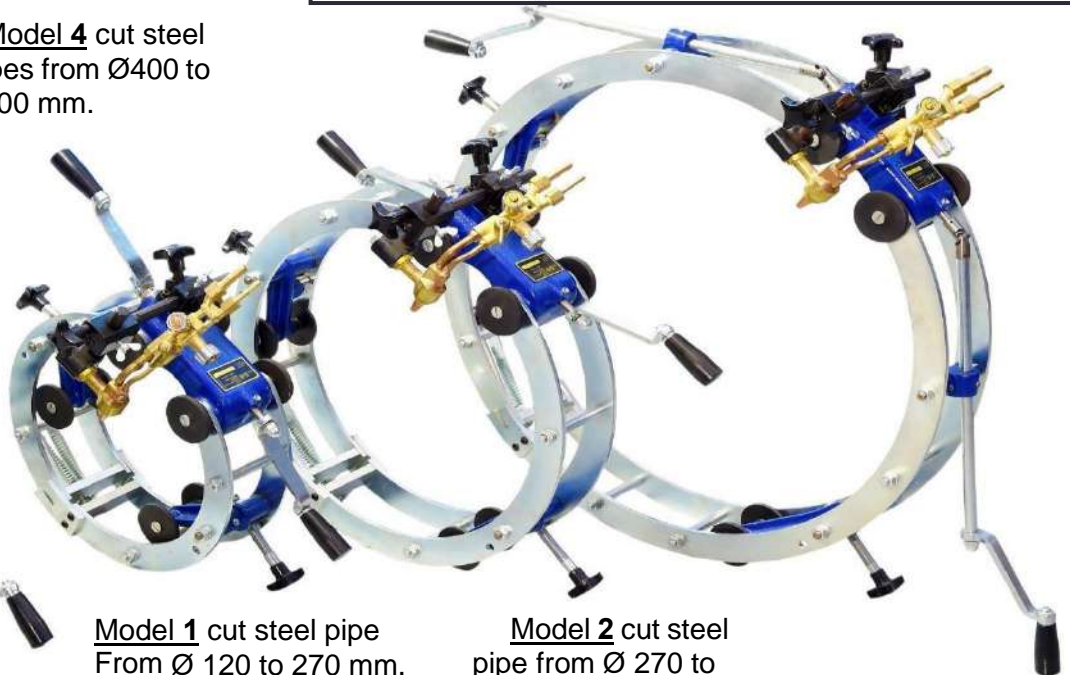
Model 0: half collar and a swiveling arm.

Model 1 to 3: two half collars.

Model 4: with guidance by steel band.



Model 0 cut steel pipes from $\text{Ø}70$ to 120 mm.



Model 1 cut steel pipe From $\text{Ø} 120$ to 270 mm.

Model 2 cut steel pipe from $\text{Ø} 270$ to 420mm

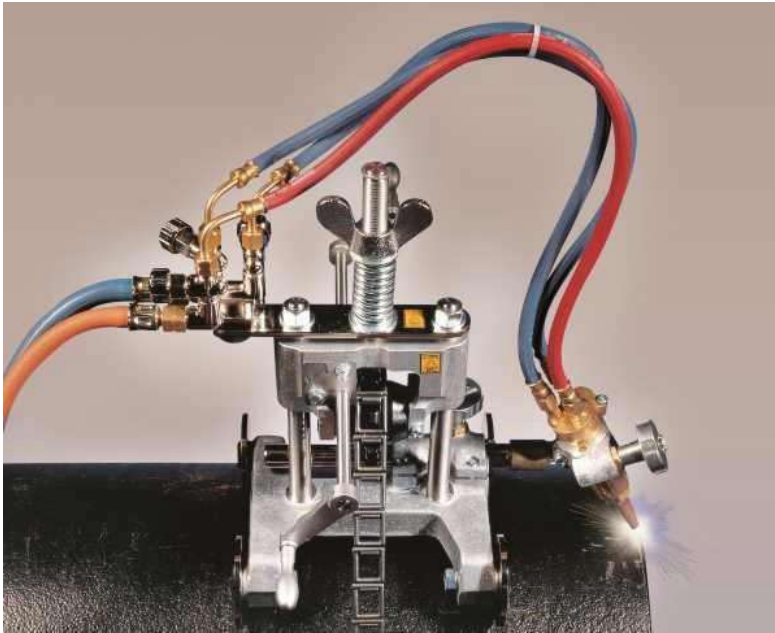
Model 3 cut steel pipes from $\text{Ø}420$ to 620 mm.

Accessories :

- Double torch (makes the cut and bevel on X and V possible).
- Metal case for machine storage.
- Cutting tips from 3 to 200 mm WT
- Other steel bands for model 4 :
- Range 400 – 600 mm ext dia..
 600 – 1000 mm ext dia..
 800 – 1200 mm ext dia..
 1200 – 1500 mm ext dia..
- Electrical motorization



PICLE-1 BEVELING MACHINES 4-24"



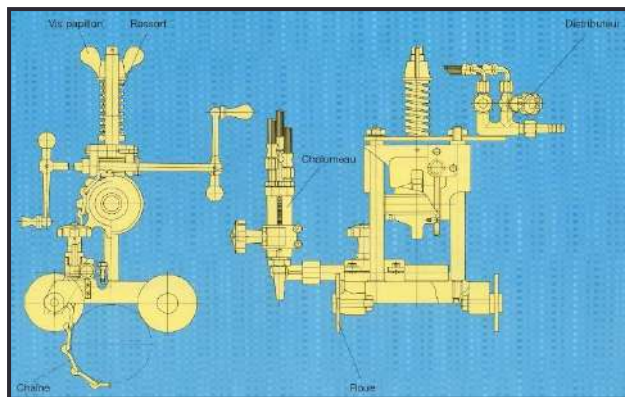
The PICLE-1 is a very precise pipe cutting beveling machine. With a weight of only 9 kg, this small & robust unit design offers easy maintenance, simple operation and genuine handling. With its chain guide system, the Picle-1 solves all circumference cutting problems. This machine is easily transportable from one work station to another, it can be used both on the building site and in the workshop, for straight cuts and bevel on pipes of different diameters and thicknesses.

Smooth and safe movement: The movement is carried out by means of a handle and a guide wheel. The low gear ratio allows a very smooth movement.

Simplified order: The valves controlling the fuel gas, heating oxygen and cutting oxygen are located away from the overheating zone, allowing easy use by the operator.

Adjustable cutting head: Using acetylene or propane nozzles, the cutting torch- is mounted on a rack and pinion cross movement offering a vertical stroke of 80 mm and a horizontal stroke of 120 mm. A graduated dryer ensures accuracy when making bevel cuts. A screw locks the torch in position.

Chain adaptability: The guide chain is made up of simple design links that are easily added or removed for quick changes between tubes of different diameters. **Optional motorized kit 42 V transformer – 220V source**



Capacity : 100 - 600 mm (Standard).
Cutting thickness: 5 - 50 mm.
Cutting Shape: I or V up to 45°.
Cutting nozzle : 102 nr 0,1,2.

Chain links can be easily adjusted for various pipe diameters.

BAND BEVELING MACHINES

CRAWLER CUTTING BEVELING MACHINES "TYPE CRC"

For manual or motorized flame cutting crawler adaptable for plasma cutting. Used on oil and gas pipeline construction sites, for optimum cutting quality. Equipped as standard with Victor cutting torch MT210A. The flexible stainless-steel bands are 6" wide. The band range goes from 6" to 60" pipe diameter. On demand we can offer customized band size. Minimal 6" radial clearance needed when using the Right Angle Drive kit.

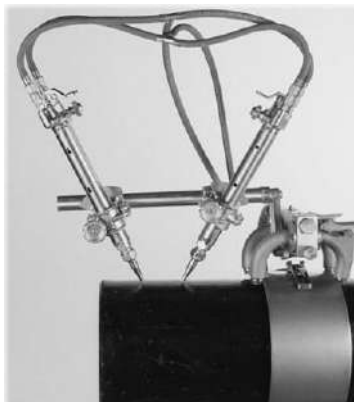
Bands for pipe sizes 6" and larger

Large beveling bands for pipe sizes 60"-144" and larger

- Special order oversized bands for ARO and extra coated pipe
- Bands conforms to out-of-round pipe and mounts anywhere on the pipe
- Single operator setup and operation on pipes up to 48"
- Flexible 9' or 14' drive shaft (whip)
- One crawler fits all band sizes
- Crawlers are precision cast aluminum for rugged strength
- Right Angle Drive kit provides minimal 6" clearance
- Cordless motorized drive optional



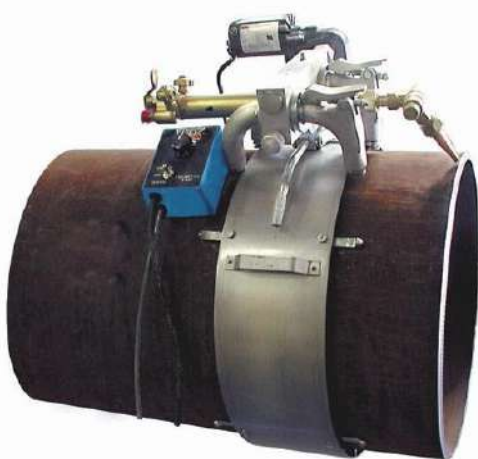
Flexible 9' or 14' drive shaft (whip) support rotation cable for manual rotation system. This cable allows a precise movement of the crawler with distance. Its handle can be operated in both directions to ensure a bidirectional rotational movement. Length 2.75m as standard, 4.25m as an option.



Double cut torch holder



Simple cut torch holder



These beveling machines can be equipped with a motorized kit, easy to install by the operator.

versions are available:

- 110 VAC 50/60 Hz
 - 230 VAC 50/60 Hz
 - Cordless motor kit, brushless motor, battery 18V
- Cutting head option and plasma source.

SADDLE BEVELING MACHINES

Reliable and precise saddle beveling machines are designed specifically for applications that require a high degree of cutting quality and accuracy. The machines are available for pipe sizes from 1 ½ "-48" (38-1219mm). The 1SA, 2SA and 3SA are equipped with spacers.

Model	Capacity (" / mm.)	Net Weight (kg)
MSA	1,5-4 / 38-102	5
1SA	3-8 / 76-203	7
2SA	6-12 / 152-305	12
3SA	12-20 / 305-508	22
4SA	20-26 / 508-660	34
5SA	24-30 / 610-762	50
6SA	28-36 / 711-914	82
8SA	36-48 / 914-1219	130



Torch support

This torch support offers a vertical and horizontal setting of the torch by toothed racks. A tilt indicator can be found on the support every 5°



Twin torch support.

This support allows the assembly of 2 cutting head supports for the combination of 2 standard acetylene oxygen torches. This assembly is interesting for making adjacent cuts or bevels in a single rotation. This twin torch support is similar in quality to the standard torch support.

Contours cutting:

For cutting and beveling pipe ends (contours and angles) with regularity, assurance and speed (on the building site or in the workshop).

The various "miter" cutting guides can be mounted easily on the contour cutter. The torch precisely follows the chosen guide model to cut and bevel at the same time. The guides can be produced on request.



Torch fixing for ovalized pipe

This type of fixing material allows a high accuracy work. Studied so that the torch is always at a constant distance from the pipe. This way, the imperfections of the external surface of the pipe do not prevent a perfect cut.

Can be installed directly on the Standard Torch Support. Recommended for pipes over 14" (not shown here)

6" TO 72" COLD CUTTERS

The cold pipe cutter, in pneumatic or hydraulic version, is equipped with **two motors**: the **first one** for the rotation of the cutting and beveling discs and the **second one** for the rotation of the machine around the pipe. Cutting capacity: 6 to 72 " on horizontal pipe. 16 to 72" on vertical pipe with guide and wheel.

Feed motor power:

Pneumatic version: Ingersoll Rand ATEX II 2 GD c IIB 95°C X 0,56 kW / 0,75 HP

Hydraulic version: 0,56 kW / 0,75 HP

Both versions are equipped with a powerful reduction device (400:1 capacity).

Feed speed:

Pneumatic version: Adjustable from 0 to 38 mm/min (0-1.1/2"/min). Independent forward and reverse gear.

Hydraulic version: Adjustable from 0 to 65 mm/min (0 - 2.6/16"/min). Independent forward and reverse gear.

Cutting motor power:

Pneumatic version: Ingersoll Rand ATEX II 2 GD c IIB 95°C X 2,75 kW / 3,75 HP as standard.

Hydraulic version: 4,0 kW 5,4 HP

Cutting speed:

Pneumatic version: adjustable from 20 to 71 rpm

Hydraulic version: adjustable from 20 to 76 rpm

Pipe diameter, wall thickness, configuration of the side blades, blade wear and material hardness are determining factors for the cutting time of the pipe.

Pneumatic or hydraulic power required:

The pneumatic version requires a compressor with a minimum capacity of 4000 liters/minute at an operating pressure of 8 bar; connection by 12.7 mm (1/2") quick-disconnect hose.

The hydraulic version requires a minimum hydraulic supply pressure of 100 bar at 72 l/min.

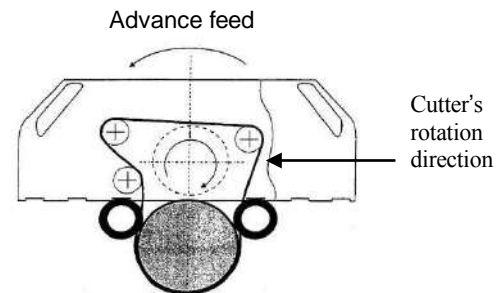
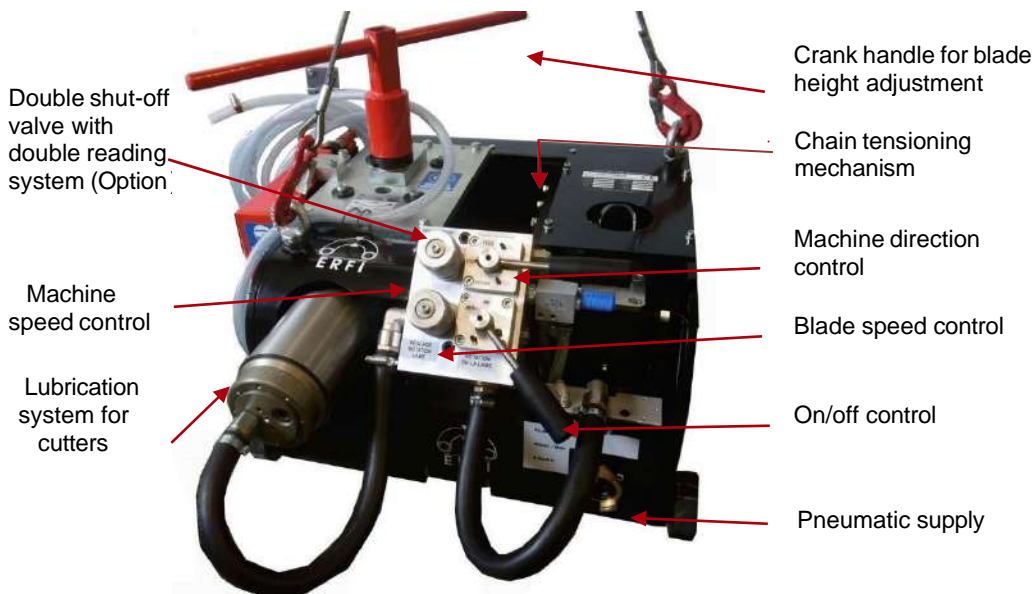
The hydraulic supply must be provided with a 25-micron filter, an air-cooled heat exchanger to re-cool the hydraulic oil before it is returned to the 200-250 l hydraulic tank. The pressure inlet is via a 12.7 mm (1/2") connection and the oil return via a 19 mm (3/4") connection.

Clearance around pipe:

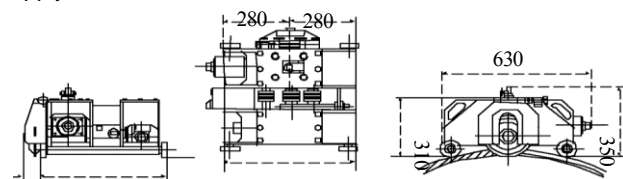
Depending on the diameter of the pipe, the clearance can be between 30 and 40 cm (12-16") in the transverse direction.

Pneumatic version: 132kg (440 lbs.) box size: 97 x72x68 cm (97 x72x68 cm).

Hydraulic version: 161kg body size: 97 x72x68 cm.



Dimensions in mm



550

550

Materials available to rent
Don't hesitate to contact us

PIPE CUTTING CIRCULAR SAWS

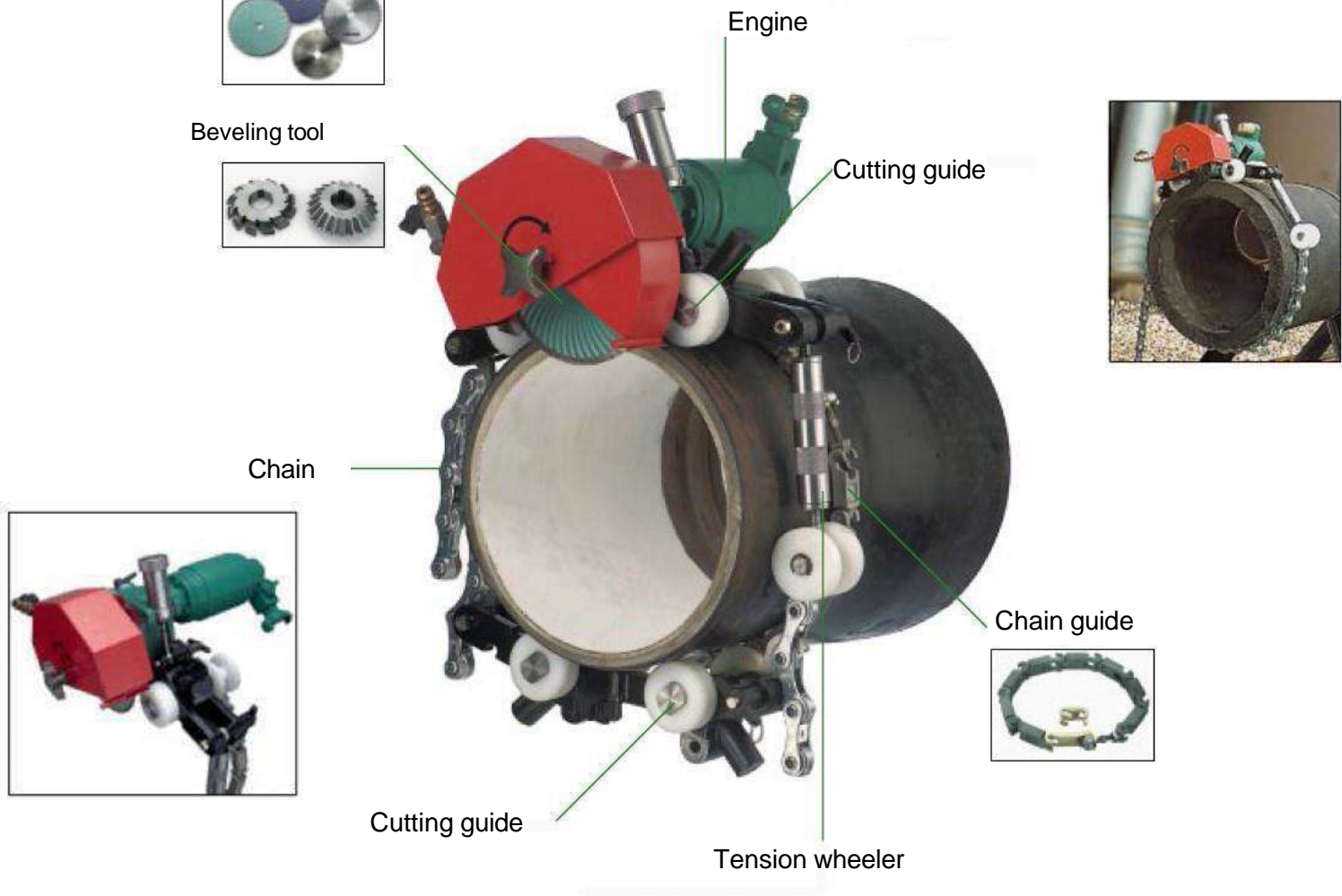
The Spitznas pneumatic pipe circular saw is available in a pneumatic or hydraulic version for pipes from DN300 to DN1600.

Different blades are available: carbon steel, stainless steel (minimum thickness 4mm), plastic, PE, PVC, grey cast iron, ductile cast iron, cement, sandstone concrete, GFK, fiber.

Cutting Tool



Beveling tool










PIPE BEVELING MACHINES

Pipe beveling machines – External Clamping

The machines are used to prepare welds for pipes, elbows and manifolds. Portable and lightweight, they are made of robust design and can be operated by one person. Suitable for both workshop and site work, their compact design and maneuverable allow them to be used in confined spaces. Its high working speed and quick set-up ensure high profitability and productivity.

External Clamping Pipe beveling machine

Model	MF3-R	MF3-EF	MF4-R	MF2-25	MF3-25	MF3-25 XL	MF4
							
Clamping range OD-OD (mm)	12 - 44,5	20 - 63,5	48,3 - 88,9	20 - 38	20 - 63,5	20 - 76,1	38 - 133
Clamping range OD-OD (inches)	0,472 - 1,752	0,787 - 2,5	1,902 - 3,5	0,787 - 1,496	0,787 - 2,5	0,787 - 2,996	1,496 - 5,236
Clamping range ID-OD (mm)	9 - 44,5	min. 12,5	30 - 88,9	8 - 38	12,5 - 63,5	12,5 - 76,1	25 - 133
Clamping range ID-OD (inches)	0,354 - 1,752	min. 0,492	1,181 - 3,5	0,314 - 1,496	0,787 - 2,5	0,496 - 2,996	0,984 - 5,236
Maximum thickness (mm)	10	10	10	15	15	15	25
Stroke (mm)	15		15	25	25	25	15
Weight (kg)	4,8		5,9	6,4	8,4	8,8	13
Pneumatic engine (kW)	0,74	0,74	0,74	0,74	0,74	0,74	0,74
Electric engine (kW)	1,2	-	1,2	1,5	1,5	1,5	1,5
Angular pneumatic engine	-	-	-	-	Option	Option	Option
Angular electric engine	-	-	-	-	Option	Option	Option



Benefits:

- Quick adjustment
- Maximal productivity
- Ergonomic
- Light
- High-end Tools

- Powerful and robust
- Maximal quality
- Quiet, no dust
- High reproducibility
- Lightweight

Options (according to model)



Hollow cutter



Angular engine to save space



Easy to fit solution

PIPE BEVELING MACHINES

Pipe beveling machines-Internal Clamping

DWT beveling machines improve the quality of the productivity and the preparation before welding

The complete range of beveling machines for pipe preparation facilitates the work of the welders, whether for manual welding or orbital welding and on site as well as in the workshop. The machines are placed directly on the pipe. The pipe beveling machines can be operated by a single operator who manually operates the tool feed by means of a lever, a ratchet or a feed wheel.

Several beveling tools can be installed on the tool holder.

The working speed is adjustable and depends on the type of material, thickness and diameter.

Internal clamping pipes beveling machines

Mod	MF2iw	MF3iw	MF3i XL	MF4i	MF5i XL	MF6i-50
Clamping range ID-OD (mm)	11 - 22	16,2 - 96	25 - 152	58 - 217	100 - 440	280 - 700
Clamping range ID-OD (inches)	0,433 - 0,866	0,638 - 3,779	0,984 - 5,984	2,283 - 8,543	3,937 - 17,323	11,023 - 27,559
Working range ID-ID (mm)	11 - 28	25 - 114	27 - 168	58 - 219,1	100 - 460	280 - 711
Working range ID-ID (inches)	0,433 - 1,102	0,984 4,488	1,063 - 6,614	2,283 - 8,626	3,937 - 18,110	11,024 - 27,992
Maximum Thickness (mm)	3	15	25	25	30	36
Stroke (mm)	20	20	15	30	30	50
Weight (kg)	2,7	5,8	10,3	17,9	23,8	79
Pneumatic Engine (kW)	0,37	0,74	0,74	2 x 0,74	2 x 0,74	3 x 0,74
Electrique Engine (kW)	-	1,5	1,5	-	2,2	-
Angular pneumatic engine	-	-	Option	-	-	-
Angular electric engine	-	-	Option	-	-	-



Options (according to model)



Quick lever feed



XL extension with tool holder and clamping jaws



Space saving angular engine



Special elbow beveling tool



XL extension, composed of sleeves, clamping jaws and tool holders.



Special tool for heat exchangers distribution

ORBITAL PIPE CUTTERS

DLW Cold pipe cutting and beveling machines

Cutting and beveling machine ideal for thicker pipes.

It has been proven that the quality of the pipe preparations has an enormous influence on the quality of the welds.

For heavy pipe welding applications and for orbital welding, engineers demand perfect pipe preparation in order to achieve the best end result possible. The DLW cutting and beveling machine covers a range of outside diameters from 2 to 66 inches. It is lightweight and can be equipped with pneumatic, electric or hydraulic engines. It is controllable by a single operator and has a large metal removal capacity. It is therefore easy to use, robust and compact.

Nowadays the DLW orbital cutting and beveling machine replaces the torch, chain or grinder system, thanks to its productivity, precision and very safe operation.

The benefits of the orbital cutting and beveling machine are numerous:

The machine can make different types of bevel on site (30 or 37°, internal bevel or J bevel) that can be used in restricted areas.

It increases productivity and reduces operating costs. There is no reworking and use of grinding machine, so there are no sparks or flames, which means less risk of fire or explosion in gas pipeline installations for example.

The wide range of machines is suitable for all kinds of applications, types of steel and thicknesses.



Model	ext pipe Ø (mm)		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Weight (Kg)	Maxi Thickness (mm)
	Mini	Maxi											
DLW 3-6	60,3	168,3	320	182	88,5	68	127	182	202	188	545	23	80
DLW 4-8	88,9	219,1	367	232	88,5	68	127	232	224	188	590	27	80
DLW 5-10	114,3	273,1	420	286	88,5	68	127	286	249	188	644	30	80
DLW 6-12	141,3	323,9	470	340	88,5	68	127	340	261	188	694	34	80
DLW 8-14	193,68	355,6	496	368	88,5	68	127	368	262	188	719	38	80
DLW 10-16	244,48	406,4	550	42	88,5	68	127	421	317	188	774	42	80
DLW 12-18	298,45	457,2	605	470	88,5	68	127	470	341	187	827	45	80
DLW 14-20	330,2	508	655	525	88,5	68	127	525	369	187	878	50	80
DLW 18-24	431,8	609,6	760	625	88,5	68	127	625	420	187	981	60	80
DLW 24-30	584,6	762	920	775	88,5	74	127	775	496	188	1143	83	80
DLW 30-36	736,6	914,4	1068	928	88,5	74	127	928	572	188	1294	93	80
DLW 36-43	889	1092,2	1250	1105	88,5	74	136	1105	661	188	1472	105	80
DLW 40-48	990,6	1219,2	1420	1245	95	89	151	1245	731	194	1645	115	80
Great capacity versions													
DLW - HD 53	1041,4	1346,2	1610	1372	158,8	119,1	215,9	-	-	-	-	314	100
DLW - HD 55	1092,2	1397	1661	1422	158,8	119,1	215,9	-	-	-	-	325	100
DLW - HD 57	1143	1447,8	1711	1473	158,8	119,1	215,9	-	-	-	-	333	100

ORBITAL PIPE CUTTERS

Tools & accessories



High end Tools








Split Frame



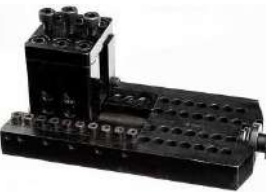




Powerful and interchangeable engine

Standard cutting and beveling tools

HSS cutting tools	HSS beveling tools	Cutting and beveling tools	Cut Tool Tip Holder	Beveling Tool Tip Holder
From 45x5mm to 80x9mm Lenght 100 à 175mm	Bevel from 30 to 37.5° Left or Right	Bevel from 30 to 37.5° Left or Right	60x8mm or 80x8mm	Bevel from 30 to 37.5°
				

Accessories

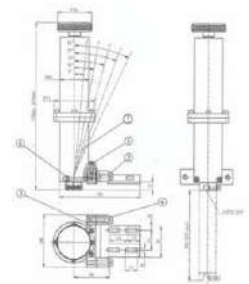
Tool Carrier	Low profile tool carrier	Extended tool carrier	Front gear adaptor	Anti reaming device
M14 Feed lenght of 19 - 42 or 71mm	On demand, to save space	Exclusively on demand	To position the engine in front of the machine	Exclusively on demand
				

ORBITAL PIPE CUTTERS

Special Equipment

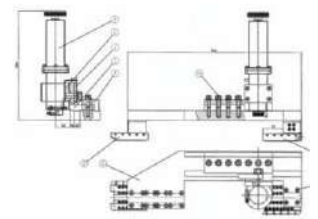
DLWCB Inside Counter Bore:

The internal beveling device can be used to calibrate the internal diameter.



Flange surfacing DLW-FF:

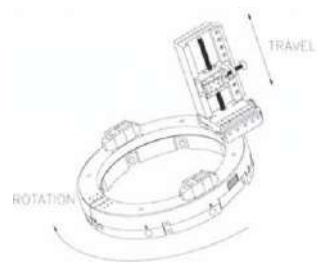
The DLW-FF machining device allows the reworking of flange surfaces as well as the grinding of bevels. It is provided with an automatic feed.



DLW-ETM External Turning Unit

The DLW-ETM external turning unit can be used to process the outside of thick steel pipes or to remove excess weld beads.

Stroke: 188mm
Thickness: 25mm (50mm in 2 passes) Feed speed: 2mm/min.



DLW-SLH Spring Load Holder:

The spring-loaded holder DLW-SLH is used for cutting and beveling ovalized pipes. The internal springs support the tool feed and allow precise cutting.



Deck Cutter:

The use of powerful magnets and a special blade holder makes it possible to turn any DLW from 12" to 48" into a Deck Cutter.

This mobile machine is able to drill large holes in sheet metal plates.

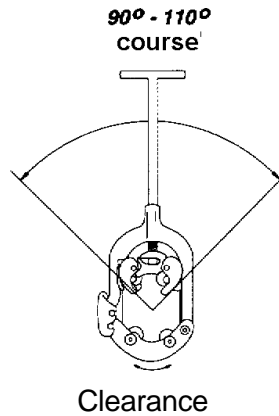


MANUAL PIPE CUTTERS

MODEL H: Hinged 4 wheels type.

Rigid frame made in one piece with a hinge for quick mounting on the pipe.

Models	Cuting capacity (mm)	Lenght (mm)	Weight (kg)
H2½S	32-76	419	3.6
H2½I	32-76	419	3.6
H2½X	32-76	419	3.6
H4S	60-125	559	6.3
H4I	60-125	559	6.3
H4X	60-125	559	6.3
H6S	114-182	711	10
H6I	114-182	711	10
H6X	114-182	711	10
H8S	168-240	813	13
H8I	168-240	813	13
H8X	168-240	813	13
H8XX	168-240	813	13
H12S	219-356	864	18
H12I	219-356	864	18
H12X	219-356	864	18
H12XX	219-356	864	18



Available Wheels types:

S: Steel and Stainless-Steel wheels
I: Grey Cast Iron and Ductile Cast Iron Wheels.
X: Schedule 80 Stainless Steel and Steel Wheels.

LCRC AND RC MODELS: 4-wheel type.

Cuts up to 30" diameter in steel, stainless steel and cast iron in depth, narrow trenches with a minimum stroke of 90°. Up to Ø16", required clearance 4", over 8" required clearance 8" with a stroke between 45° and 60°

Action in a very small space (a clearance of 15 to 20 cm around the pipe and a 45° to 60° stroke of the handle are sufficient.)

Models	Cutting capacity			Lenght (mm)	Weight (kg)
	Steel (")	Cast Iron (")	Diameter (mm)		
LCRC8S	6-8		159-246	1473	24
LCRC8I		6-8	159-246	1473	24
LCRC12S	10-14		266-358	1549	27
LCRC12I		10-12	266-358	1549	27
LCRC16S	16-18		368-462	1664	33
LCRC16I		14-16	368-462	1664	33
RC20S	20-22		476-572	2680	44
RC20I		18-20	476-572	2680	44
RC24S	24-26		584-660	2807	52
RC24I		22-24	584-660	2807	52
RC30S	28-34		698-864	2438	109
RC30I		30	698-864	2438	109

LCRC Model



RC Model

Type of wheels available:

RCS: Wheels for steel and stainless steel
RCI: Wheels for grey and ductile cast iron.
RCX: Schedule 80 wheels for steel and stainless steel

The same wheels can be used for all models (ref. RC 8-36). Max. cutting capacity for steel 20 mm (RCX)

ABESTOS & CAST IRON PIPE CUTTERS

FOR ASBESTOS CEMENT PIPES

Type K pipe cutters are quick and easy to use:

There is no need to remove or add sections. The sections are adjustable and can be used to compensate due to wear and tear. The wheels always stays in the cutting line, which increases the tool life expectancy.

Time saving: after a test run, the K6 model allows cutting a 4" sanitary cast iron pipe in about 10 seconds. Compared to traditional pipe cutters, these models weigh 30% less and are therefore easier to handle. The tool is treated to resist corrosion,

Type K pipe cutters are supplied with wheels for cutting pipes made of sanitary cast iron, sandstone, cement, or similar materials such as asbestos cement.

Type	Capacity (mm)	Weight (kg)
K6	60-150	4,0
K8	100-200	7,0
K9	150-225	8,0
K10	150-250	8,5
K12	150-300	9,0
K14	150-350	14,5
K16	150-400	15,7
K20	150-500	17,3



Note: as an option, models K14 to K20 can be equipped with XL wheels for greater thicknesses.

FOR GREY CAST IRON AND SANDSTONE PIPES

Pipe cutter model 59



Pipe cutter model 49
Delivered with ratchet.

Type	Capacity
6	2 - 6"
8	2 - 8"
10	2 - 10"
12	2 - 12"
15	2 - 15"



FOR SANDSTONES CEMENT AND CAST IRON PIPES

Model	Capacity			Weight (Kg)
	Cast Iron	Concrete	Sandstone	
2990-6	2"-6"	2"-6"	2"-6"	38,5
2990-8	2"-6"	2"-8"	2"-8"	40
2990-10	2"-6"	2"-8"	2"-10"	41
2990-12	2"-6"	2"-8"	2"-12"	42
2990-15	2"-6"	2"-8"	2"-15"	43
3890-12	4"-12"	4"-12"	4"-12"	76
3890-15	4"-12"	4"-15"	4"-15"	79
3890-18	4"-12"	4"-18"	4"-18"	82,5
3890-24	4"-12"	4"-24"	4"-24"	84,5
5590-18	6"-18"	6"-18"	6"-18"	101
5590-20	6"-18"/20"*	6"-20"	6"-20"	106
5590-24	6"-18"/20"*	6"-20"	6"-24"	112
5590-36	6"-18"/20"*	6"-20"	6"-36"	134,5

* Depends on the thickness



PE PIPE CUTTING AND BEVELING

PE Ø63 A 315MM PIPE CUTTER

For PE pipes up to 315mm diameter, in medium and high density.

Perfect cut for electrofusion thanks to a Teflon coated blade.

The HPC8TN model is equipped with 6 wheels at the base allowing a cut without deformation or breaking of the pipe during the cutting process

Guillotine PE – PVC PIPE CUTTER			
Model	Capacity (mm)	Weight (kg)	Length (mm)
HPC4	63 - 125	7,7	482
HPC8	90 - 225	13	750
HPC8TN	90 - 225	13	750
HPC12	125 - 315	45	



PLASTIQUE Ø63 PIPE CUTTER

To cut PE and plastic pipes. Can be used with one hand.

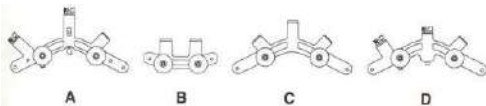
Type	Capacity (mm)	Length (mm)	Weight (Kg)
PIP19	Ø 42	217	0,36
PIP20	Ø 63	325	1



PE Ø110 A 800MM PIPE CUTTING AND BEVELING MACHINE

Equipped with guide wheels for a perfect perpendicular cut, simultaneously cuts and bevels 15° on each side of the cut.

PE - PVC GREAT DIAMETER PIPE CUTTER			
Model	Capacity (mm)	Weight (kg)	Sections
PLAS 0	110 - 240	18	A0, C0
PLAS 1	160 - 335	24	A, B, C
PLAS 2	355 - 500	26	B, C (x2), D
PLAS 3	355 - 630	28	B, C (x3), D
PLAS 4	355 - 800	30	B, C (x4), D



PE & PVC PIPE BEVELING MACHINE

PVC and PE pipe beveling machine made of aluminum alloy to make a 15° bevel on the pipe ends from 1½".

2 models are available from 1½" to 8" (1.4kg) and from 1½" to 12" (2.8kg.).



Electricity

Electrical Equipment, Cables	7-01
Consumables, Lighting, Tools.....	7-02



When your pipe work requires additional **electrical** equipment, ERFI FRANCE offers a range of products and solutions to meet your needs, **on request**.

Offers available among the ranges listed below (**not exhaustive**)

HIGH AND LOW VOLTAGE ELECTRICAL EQUIPMENTS, CABLES

Cabinets, complete electrical panels, supplied loose or assembled, wired and tested. Engine starters, Transformers, Sensors, Operator Dialogue, Automation.

Waterproof site boxes and sockets, Multi-sockets, Extension cords and hose reel.



LIGHT CURRENT CABLES, LOW AND HIGH VOLTAGE

Supply, command, control, measurement, and instrumentation cables.

Tertiary, Industrial, Marine applications in static or mobile use.



CONSUMABLES ET ACCESSORIES



Clamps, sheaths, cable glands, connectors, terminal blocks, ferrules and lugs.
Adhesive tapes, Junction boxes, Preflect, Markings.

LIGHTENING

High-temperature and ATEX lights, Headlamps and watertight. Site lighting, Industrial fixtures, Workstations.



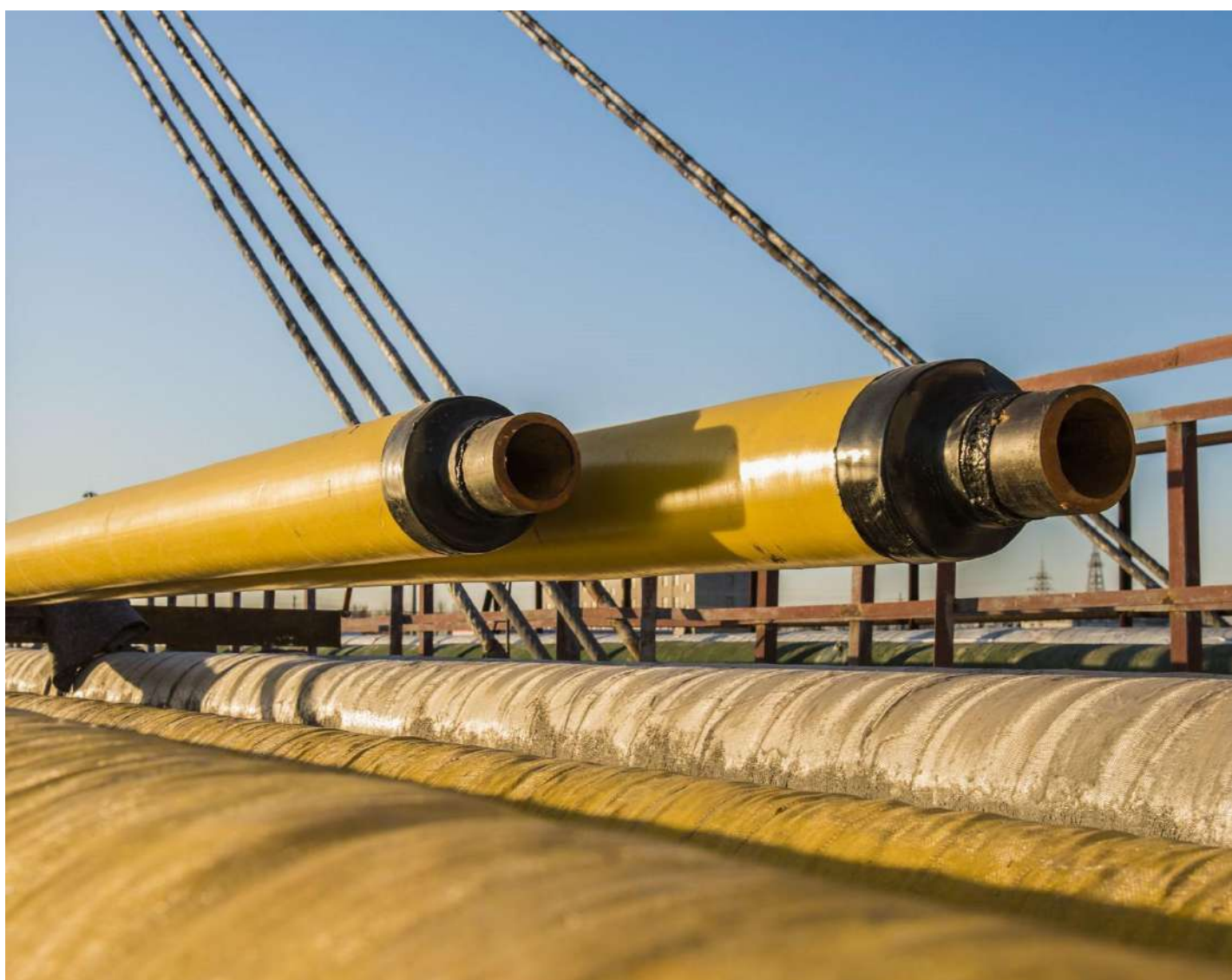
TOOLING

Ammeters, Frequency meters, Voltmeters, Wattmeters, Multimeters, Thermometers. Electrician's scissors, Stripping, cutting and crimping pliers, Screwdrivers. Calibrators, Insulation controllers, Cable locators.

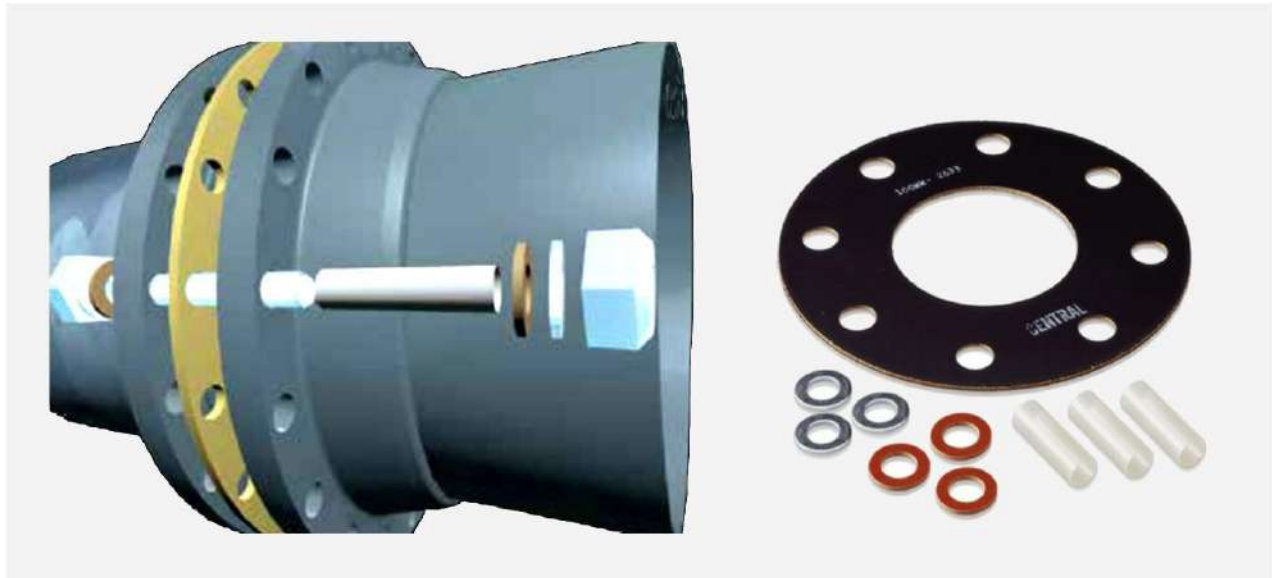


Sealing

Flanges isolation kit.....	8-01
Link Seal	8-02
Compakt, sealing plug, accessories	8-03



FLANGES ISOLATION KIT



The insulating flanges offers you the possibility to make a traditional flange junction into an insulating flange junction as an electrical failure point.

The use of this kit is not limited to new flanges junctions. Isolation is also suitable for the upgrading of existing flanged junctions. No mechanical modifications are necessary.

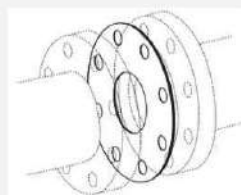
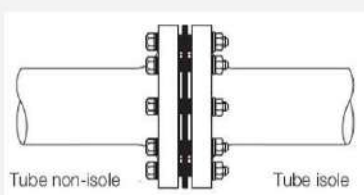
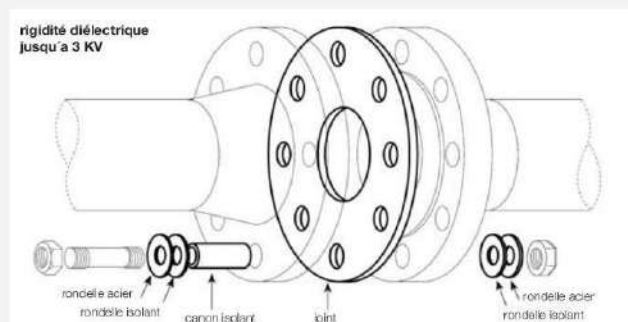
Flange isolation kit suitable for all types of flange, regardless of their norms, dimensions, and pressure levels.

Be careful, the kits are not delivered with threaded rods and bolts.

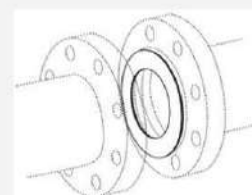
To receive a quote, please provide us with the information below:

- Flange dimension
- Pressure
- Flange norm
- Flange type
- Fluid in contact with the seal
- Temperature
- Operating pressure
- Electrical isolation necessary
- Choice of several seals
- Amount

Necessary CERTIFICATIONS:



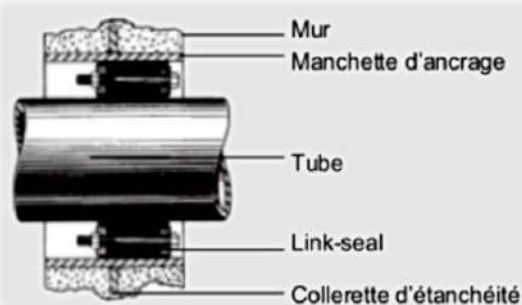
Gasket type E



Gasket type F



Type	Version	Material	Pressure plate	All of screws	T°C	Application
C	Black standard	Black EPDM	Composite	Galvanized steel	-40°C/80°C	Cathodic protection, humid atmosphere, water
B	Shore 40+/-5	Blue EPDM	Composite	Galvanized steel	-40°C/80°C	See type C, non-metallic pipe
S316	Black standard	EPDM	Composite	S316 steel/stainless steel	-40°C/80°C	Water resistance, products not organic, acetone, alkali, acids
O	Oil resistant	Nitrile EPDM	Composite	Galvanized steel	-40°C/70°C	resistance to oil, fuel oil, solvents
BS316	Shore 40+/-5	Blue EPDM	Composite	S316 steel/stainless steel	-40°C/80°C	See type B
OS316	Oil resistant	Green EPDM	Composite	S316 steel/stainless steel	-40°C/80°C	See type O
KTW	Shore 40+/-5	Black EPDM/KTW	Reinforced polyamid	S316 steel/stainless steel	-40°C/70°C	Drinking water
T	High and low temperatures	Grey silicone	Zinc-plated steel	Galvanized steel	-55°C/230°C	no cathodic protection / extreme temperatures



SEALING TECHNOLOGIES

COMPAKT ANNULAR SEAL



The COMPACT sealing system is a perfect complement of our modular gasket range LINK SEAL. It offers excellent sealing of the annular spaces for gas pipelines, water, sanitation as well as for any type of cable.

This system ensures pressure tightness. Its small size makes it easy to install in low thickness walls.

CUSTOM MADE COMPACT



Example « custom made » VARIA type

The COMPACT seal system can also be used to meet your specific needs. This product is available in two parts (existing installation) in different materials (EPDM or NRB)

There are many possible drillings (in particular for cable entries).

The VARIA type is a sealing gasket that can be used as a plug or as a seal for cables or pipes with a diameter of 18 to 65mm. The onion-shaped structure allows 5mm adjustments to ensure perfect sealing.

SEALING PLUG



Composed of half-shells, this product range is designed to ensure the sealing of cables and pipes passing through the wall.

Installation is quick and simple; the plug must be pushed into the existing recess around the pipe.

Applications: water and gas (black EPDM); Hydrocarbons and fats (blue nitrile); Firewall (red FS) Extremes temperatures (brown silicone); Chemical products (green Viton)

ACCESSORIES



Wall sleeve: available in steel, fibre cement (without asbestos)



Epoxy resin: available in 0.2kg or 0.9kg boxes.



Sealing putty: available in 0.33kg or 0.53kg cartridges. With or without gun.

Purging system

Concept.....	9-01
Silicone disc purging system.....	9-02 to 9-05
Gas bags.....	9-06
Doubles gas bags.....	9-07
Trailing shields.....	9-08
Conical pipes stopper.....	9-09
Mechanical pipe pipes stopper.....	9-10
Modular purging box.....	9-11 to 9-12
Water soluble paper.....	9-13
Soluble paper – EZ Purge.....	9-14
Oxygen purge monitor.....	9-15



Used to prevent corrosion when welding stainless steel pipes and connectors.

During manual welding, and on automatic welding machines, a high-quality weld is achieved with a very low inert gas cost.

The following list presents all the means used during the purging system:

- 1) Classic modular systems
- 2) Inflatable purging balls (single and double purge balls)
- 3) Purging system with trailing shields
- 4) Conical purging plugs (rubber or silicon)
- 5) Mechanical purging plugs
- 6) Water soluble paper
- 7) Complete purging cases
- 8) Purge monitors



PURGING CONCEPT

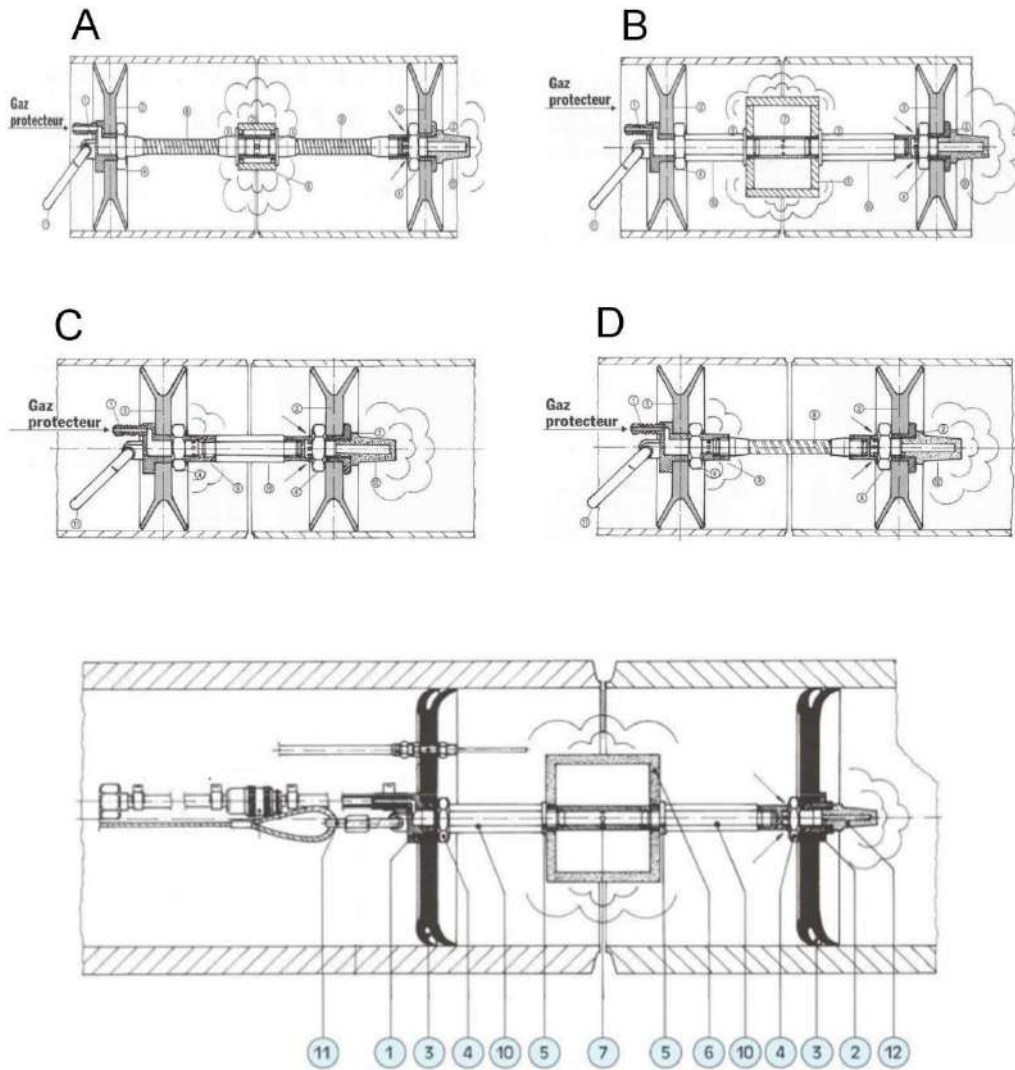


INCLUDED:

- Connectors/Collar/ Screwable carabiner
- Gaz hose 10m
- Stainless steel cable 10m
- 2 flexible arm / 2 rigid arm
- 2 heat resistant sealing disc

	system Ø (mm)	Mini tube inside Ø (mm)	Maxi tube inside Ø (mm)	central hole Ø
	45	38	43	Ø15mm
	50	43	48	
	55	47	53	
	60	52	58	
	65	54	63	
	70	58	68	
	75	64	72	
	80	68	76	
	85	72	81	
	90	75	86	
	95	80	91	
	100	86	95	
	107	90	101	
	115	100	112	
	125	105	120	
	145	120	140	
	160	135	155	
	175	145	165	
	190	160	180	
	210	175	200	
	230	195	220	
	250	215	240	
	270	235	260	
	290	255	280	
	310	275	300	
	330	290	320	
	350	310	340	
	365	325	355	

EXPLODED VIEW



Reference point :

- | | |
|---|--|
| 1- Protective gas inlet. Ø15mm for disc Ø45 up to 107mm and Ø20mm after. | 6- stainless steel porous gas diffuser Ø27, Ø36, Ø44, Ø65mm. |
| 2- Protective gas outlet. Ø15mm for disc Ø45 up to 107mm and Ø20mm after | 7- gas diffuser. |
| 3- Heat resistant sealing disc 330°C. central hole Ø15mm from Ø45 to 107mm and Ø20mm from 115mm and more. | 8- flexible arm: 120mm, 150mm or 200mm. |
| 4- Nut M16 x 1.5 mm or nut 20 x 1.5 mm | 9- gas diffuser nozzle SW14. |
| 5- Discs Ø10.5*21mm | 10- rigid arm length 5mm to 400mm. |
| | 11- hook with 10m or 20m cable |
| | 12- porous metal gas outlet |

« COMPACT » SYSTEM



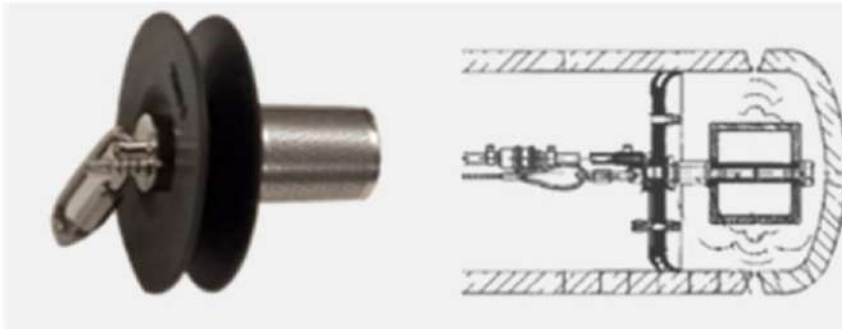
For your large diameters

With XL diffuser and close-connector silicone discs for purging gas diffusion time very short.

Delivered with connectors, pvc hose 10m and stainless-steel cable 10m.

Exist in the following sizes: from inside \varnothing 100 to 410mm.

DISHED END SYSTEM



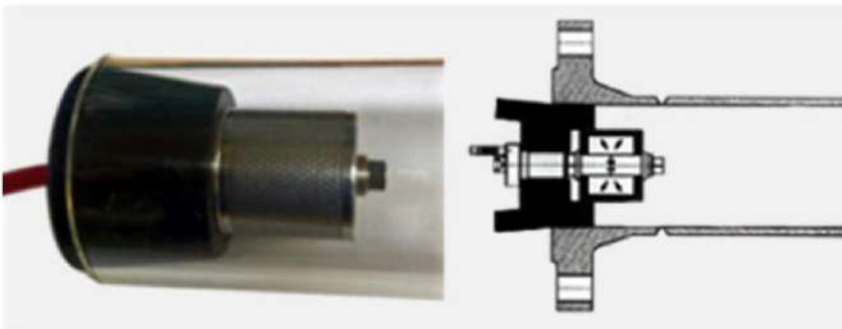
For your tanks and your dished end

With a silicone disc and a large diffuser to reduce the space to be purged.

Delivered with connectors flexible pvc 10m and stainless-steel cable 10m.

Exist in the following sizes: from \varnothing inside 20 to 420mm

PLUGS SYSTEM



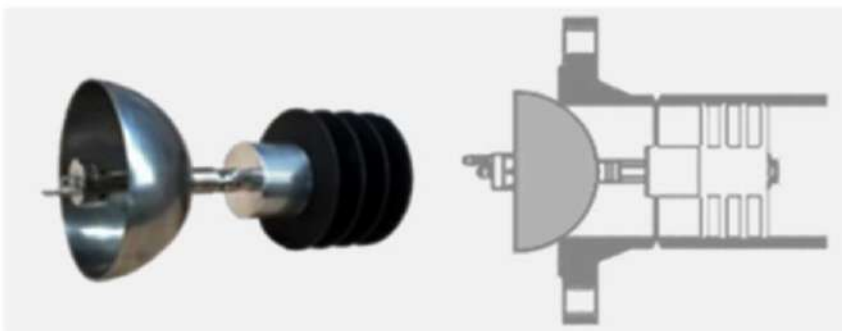
Configured for pipes end and flanges.

With a silicone conical plug and a diffuser adapted to your needs

Exist in the following sizes: from

\varnothing inside 10 to 170mm

FLANGES SYSTEM



Specially designed for flange purging of the pipe.

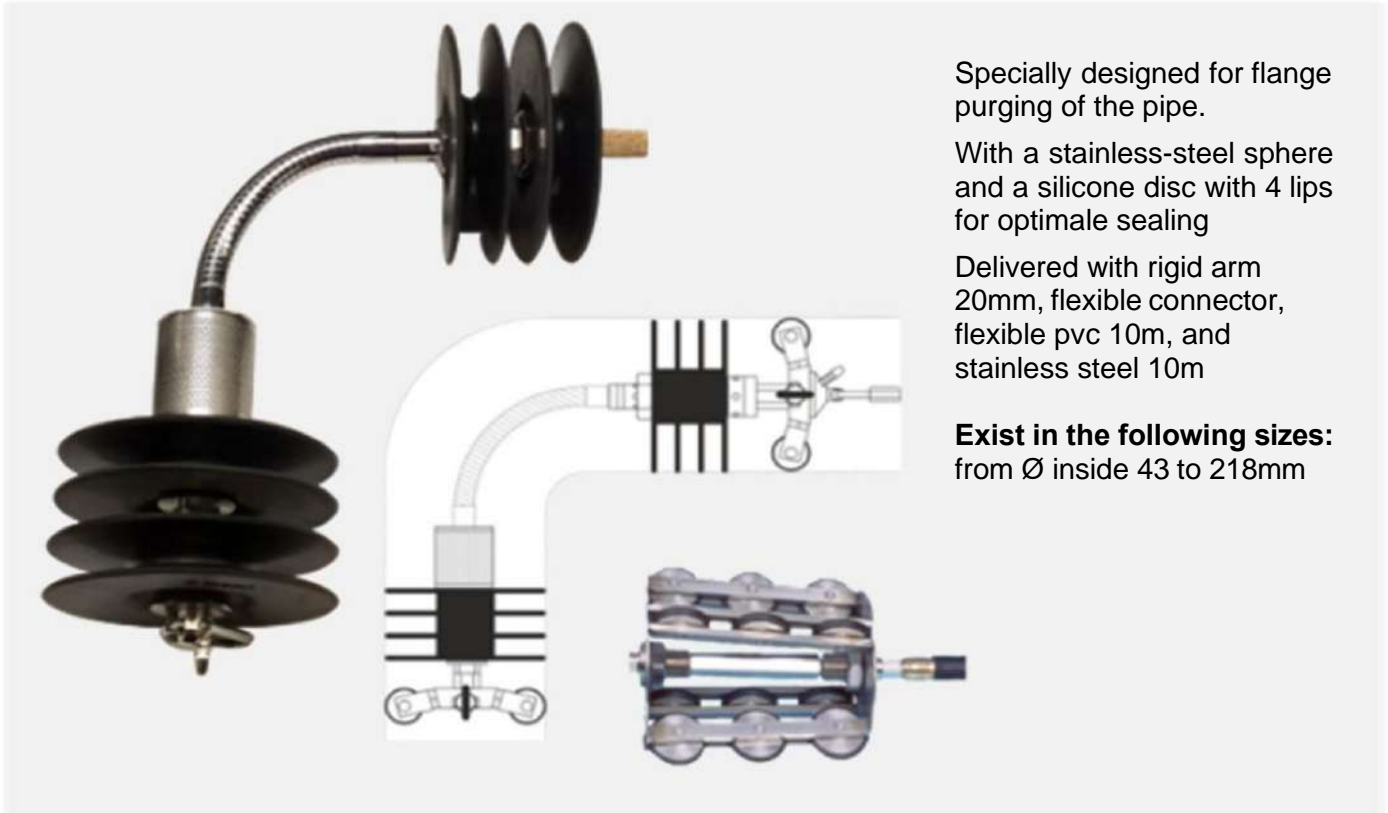
With a stainless-steel sphere and a silicone disc with 4 lips for optimum sealing

Delivered with rigid arm 20mm, flexible connector, flexible pvc 10m, and stainless steel 10m

Exist in the following sizes: from \varnothing inside 43 to 218mm

SPECIAL APPLICATIONS

SYSTEM FOR FLANGES



Specially designed for flange purging of the pipe.

With a stainless-steel sphere and a silicone disc with 4 lips for optimale sealing

Delivered with rigid arm 20mm, flexible connector, flexible pvc 10m, and stainless steel 10m

Exist in the following sizes:
from Ø inside 43 to 218mm

SMALL DIAMETER SYSTEM

1/ « MINI » system solution

Included: 2 discs, stainless-steel cable, diffuser, flexible 10m and connectors Exist in the following sizes: from Ø inside 17 to 49mm

2/ « gas finger » solution

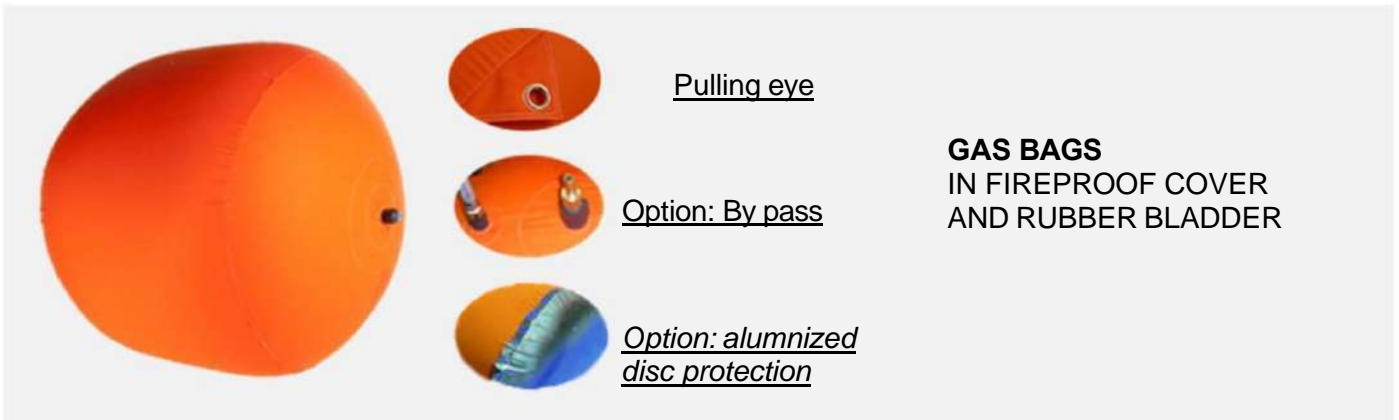
Sintered metal diffuser.

Exist in the following sizes: from Ø inside 6 to 36mm

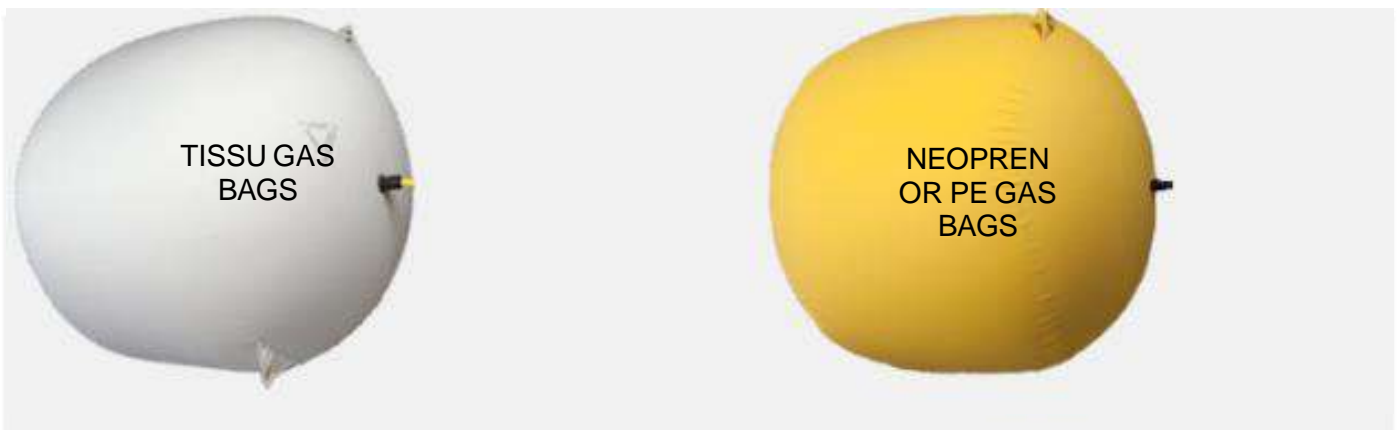


DESIGN OFFICE
For your specific needs

SPECIAL APPLICATIONS



**GAS BAGS
IN FIREPROOF COVER
AND RUBBER BLADDER**



Pipe diameter Inchs (")	Using range		Inflating pressure (max)		Connection
	Minimum	Maximum	PSI	BAR	Type
2"	50mm	55mm	15	1,03	¼" Gaz F
3"	75mm	84mm	15	1,03	¼" Gaz F
4"	100mm	112mm	15	1,03	¼" Gaz F
5"	125mm	138mm	15	1,03	¼" Gaz F
6"	150mm	168mm	15	1,03	¼" Gaz F
7"	175mm	192mm	15	1,03	¼" Gaz F
8"	200mm	224mm	14	0,96	¼" Gaz F
9"	225mm	245mm	12	0,82	¼" Gaz F
10"	250mm	276mm	10	0,68	¼" Gaz F
12"	300mm	324mm	8	0,55	¼" Gaz F
14"	350mm	368mm	7	0,48	¼" Gaz F
15"	375mm	403mm	6,5	0,45	¼" Gaz F
16"	400mm	417mm	6,5	0,45	½" Gaz F
18"	450mm	481mm	6	0,41	½" Gaz F
20"	500mm	520mm	5	0,34	½" Gaz F
21"	525mm	546mm	4,75	0,32	½" Gaz F
22"	550mm	559mm	4,5	0,31	½" Gaz F
24"	600mm	637mm	4	0,27	½" Gaz F
26"	650mm	669mm	3,75	0,25	½" Gaz F
27"	675mm	698mm	3,5	0,24	½" Gaz F
28"	700mm	737mm	3,5	0,24	½" Gaz F
30"	750mm	788mm	3,25	0,22	½" Gaz F
32"	800mm	813mm	3,25	0,22	½" Gaz F
34"	850mm	864mm	3	0,2	½" Gaz F
36"	900mm	943mm	3	0,2	½" Gaz F
40"	1000mm	1021mm	2,5	0,17	½" Gaz F
42"	1050mm	1067mm	2,25	0,15	½" Gaz F
48"	1200mm	1252mm	2	0,14	½" Gaz F

Other sizes: consult us



Inflation hose with valve, fittings and pressure gauge.
Hose length of request

DOUBLE GAS BAGS



Several options are possible:

- Primary and secondary gas bags size
- Length of connection hose between tank
- Anti-heat protection by aluminum disc
- Air/gas supply hose extensions

For inerting pipes with a diameter of 50 to 1500mm (above on order). These perfectly cylindrical balls are fitted with a fireproof cover and a latex bladder.

IDEAL DEVICE FOR INSETION THROUGH A TUBE STICH

Nomina pipe diameter	Range of use		Maximum inflation pressure		Connection
	Minimum	Maximum	PSI	BAR	Type
2"	50	55	15	1,03	1/4" Gaz F
3"	58	85	15	1,03	1/4" Gaz F
4"	80	110	15	1,03	1/4" Gaz F
5"	103	136	15	1,03	1/4" Gaz F
6"	150	168	15	1,03	1/4" Gaz F
8"	200	224	14	0,97	1/4" Gaz F
10"	250	276	10	0,69	1/4" Gaz F
12"	300	324	8	0,55	1/4" Gaz F
14"	350	368	7	0,48	1/4" Gaz F
16"	375	406	6,5	0,45	1/4" Gaz F
18"	425	457	6	0,41	1/4" Gaz F
20"	475	508	5	0,34	1/4" Gaz F
22"	550	559	4,5	0,31	1/4" Gaz F
24"	570	608	4	0,28	1/4" Gaz F

Contact us for other side



Flexible standard gas balls, 8 meters

TRAILING SHIELDS

The trailing shields are designed to provide high quality gas coverage when welding titanium, duplex steels and all other reactive alloys.

They are suitable for any TIG or plasma torch, for manual or automatic welding, on piping or sheets. They can be used to protect both the front and back of the weld seam.

The use of a diffusion trailing shield provides clear and bright welds, without discoloration, oxidation or porosity

The trailing shields are made according to the application because it's essential that the shield conform to the surface so that the molten bath is well protected or the reverse of the welding

They exist in concave, convex or flat forms to protect the inner or outer side of all to weld.



Advantages :

- Standard or custom made
- light and adaptable
- Flexible with check valve
- Silicone sealing resistant high temperature (consumable)
- Allows the perfect stainless cord realisation
- Standards models in stock
- Essential for welding titanium

TYPE 1 - RIGHT TRAILING SHIELD with silicone sealing on the side. Length 170mm

TYPE 1 - RIGHT TRAILING SHIELD with silicone sealing on the side. Length 50mm

TYPE 3 - FLEXIBLE TRAILING SHIELD with silicone sealing on the side and the back. Length 250mm

Others types, consult us

ALUMINUM TAPE



Adhesive aluminum tape: to be stuck on the weld bead opening to reduce air draught during welding. Resistant up to approx. 250°C. Roll of 25 m.

Thickness (mm)	Quantity per box
25	4
33	3
50	2
75	2
100	2

SILICONE PLUGS

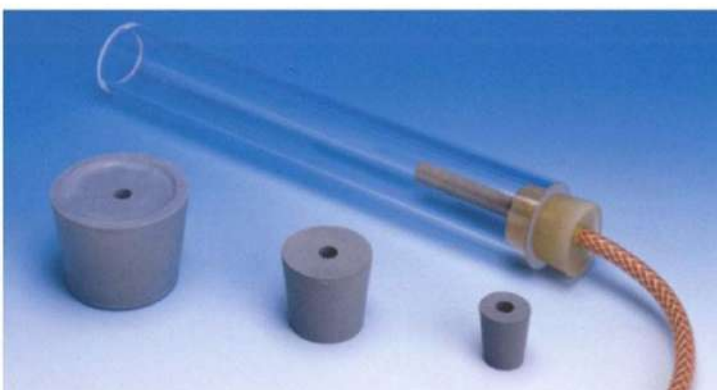
The silicone conical plugs are perfectly suited to seal all types of pipes in counterbore applications. To use with pipe ID 4mm to 170mm. Temperature: -60°C to +260°C. Hardness: 50° Shore.

Colour: black and transparent
Option: central hole.



SILICONE CONICAL PLUG (T° from -60°C to 260°C)			
Hardness : 50° Shore		Available in Drilled version	
∅	Height	∅	Height
4-6mm	20mm	40-50mm	40mm
6-10mm	20mm	46-55mm	40mm
9-13mm	20mm	50-60mm	45mm
11-15mm	20mm	55-66mm	45mm
14-18mm	20mm	60-73mm	50mm
17-22mm	25mm	66-80mm	60mm
19-24mm	25mm	73-87mm	60mm
22-27mm	25mm	80-93mm	60mm
24-32mm	30mm	87-105mm	72mm
27-34mm	30mm	93-115mm	90mm
32-38mm	30mm	110-130mm	90mm
34-40mm	30mm	120-170mm	130mm
38-46mm	35mm		

The rubber conical plugs are ideal for sealing all types of pipes in counterbore applications. To use with pipe ID 4mm to 260mm. Colour: grey. Temperature: -20°C to +90°C. Hardness: 40° Shore. Option: central hole.



RUBBER CONICAL PLUGS (T° from -20°C to 90°C)			
Hardness : 40° Shore		Available in Drilled version	
∅	Height	∅	Height
3,5-6,5mm	15mm	38-45mm	45mm
4-8mm	20mm	42-49mm	35mm
5-9mm	20mm	46-54mm	40mm
6-10mm	20mm	50-60mm	50mm
9-13mm	20mm	55-65mm	50mm
11-15mm	20mm	63-73mm	50mm
12,5-16,5mm	20mm	70-90mm	50mm
14-18mm	20mm	78-92mm	50mm
16-21mm	25mm	85-95mm	50mm
17-23mm	30mm	87-100mm	65mm
19-24mm	25mm	95-107mm	55mm
22-27mm	25mm	95-125mm	80mm
25-31mm	30mm	100-130mm	85mm
28-35mm	35mm	105-125mm	50mm
31-38mm	35mm	120-170mm	130mm
34-41mm	35mm	160-220mm	160mm
36-44mm	40mm	200-260mm	160mm

MECHANICAL PIPE PLUGS

NYLON pipe plugs
FROM Ø18MM to 162MM



Available fittings

STEEL OR ALUMINUM pipe plugs
FROM Ø18MM to 162MM



Gas hose Ø6mm

CASE WITH NYLON PLUGS

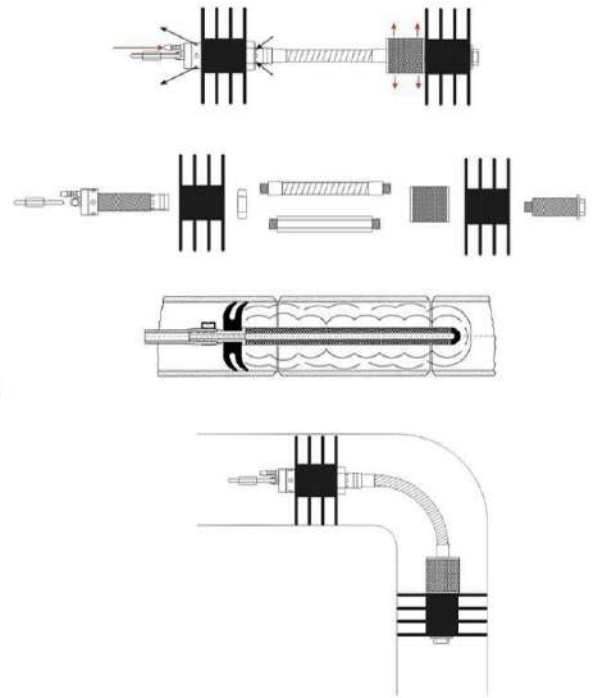


Included:

- Pairs of plugs 3/4"
- Pairs of plugs 1"
- Pairs of plugs 1.25"
- Pairs of plugs 1.5"
- Pairs of plugs 2"
- Pairs of plugs 2.5"
- Pairs of plugs 3"
- Pairs of plugs 3.5"
- Pairs of plugs 4"
- 1 fitting 1/4"
- 1 fitting 3/8"

PURGING SYSTEM BOX 6''

POSSIBLE CONFIGURATIONS



DN15(1/2'') to DN150 (6'')

Basic equipment with protective gas fingers from DN 15(1/2'') and Shielding gas universal systems up to DN 150 (6'')

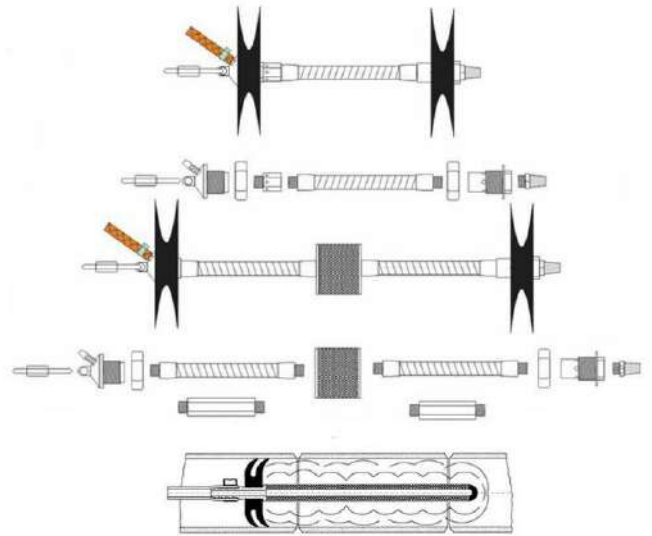


- A-** Gas finger Ø 10 and Ø22; length 50mm with silicone discs Ø21,26,31,36,41,46 and 51mm
- B-** Heat resistant sealing discs (quadruple) Ø50,55,60,70.80,100,115,145,175mm
- C-** 1 protective gas inlet and outlet M18; 1 protective gas inlet and outlet M20
- D-** 2 gas diffusers, stainless steel (Ø36mm/ Ø60mm*L40mm) / 2 nuts M18 and 2 nuts M20
- E-** Rigid arm (50,100 and 150mm) + flexible pipe (120,150,200mm)
- F-** Stainless steel release cable 10 m Ø 2mm, Two-ply PVC 10 m hose Ø 5 x 8 mm, 2 screwable carabiners.

PURGING SYSTEM BOX 8''



POSSIBLE CONFIGURATIONS



DN15(1/2'') to DN200 (8'')



- A-** Gas finger \varnothing 10 and \varnothing 22; length 50mm with silicone discs \varnothing 21,26,31,36,41, 46 and 51mm
- B-** Heat resistant sealing discs (double) \varnothing 50,55,60,70,80,90,100,115,125,145,160,175,190,230 mm
- C-** 1 protective gas inlet and outlet \varnothing 15mm/M16; 1 protective gas inlet and outlet \varnothing 20mm/M20. 2 nuts M16 and 2 nuts M20
- D-** 2 gas diffusers, stainless steel (\varnothing 36mm/ \varnothing 44mm*L40mm) + 1 dispenser nozzle SW14. 2 sintered metal exits
- E-** Pairs of rigid arms (50 and 100mm) + Pairs of flexible arms (120,150mm)
- F-** 10 m of stainless-steel cable, 10 m of pvc hose, 2 stainless steel carabiners, simple fittings and argon regulator fitting
- G-** 4 rolls of aluminum scotch tape length 25m (width 25mm(x2) and 33mm(x2)) 1 flowmeter for torch Tig 0-50 ltr./min

WATER SOLUBLE PAPER

DISSOLVO

An economical solution for purging application:

For small diameter pipes (less than 4" inner diameter), simply position a wad of Dissolvo paper several inches down into each section to be joined.

For larger pipes (inner diameter and larger 100mm and more), cut a disc of Dissolvo paper to a diameter 60mm larger than the inside diameter

Example: for a pipe inner diameter 100, cut to diameter 160

Trace or impress the pipe inner diameter on the paper and fold on this line to form a 90-degree lip. Insert the plug into the pipe with the lip towards the weld prep.

Peel tape from backing and tape dam in place. Optional: Punch a small hole in the pipe to facilitate the evacuation of air when purging.

For pipes larger than 700mm diameter, simply splice two or more sheets of Dissolvo paper together with Dissolvo tape, and proceed as in steps B, C, and D.

After the dams are in place, Argon or another purge gas may be introduced through the root gap with a needle valve connected to the gas line. If one end of the pipe is accessible, the purge gas may be introduced through a hole at the lower end of one pipe. A vent hole should be made at the upper end of the other pipe to allow air and gases to escape.

Optional: cover the open root joint on the outside of the pipe with tape to prevent gas leakage.



	THICKNESS	DIMENSIONS
SOLUBLE PAPER	0.0035"	22 cm x 28 cm
SOLUBLE PAPER	0.0035"	216 mm x 355 mm
SOLUBLE PAPER	0.0035"	431 mm x 559 mm
SOLUBLE PAPER	0.0070"	52 cm x 56 cm
SOLUBLE ROLLER	0.0035"	23 cm x 50 m
SOLUBLE ROLLER	0.0035"	39 cm x 50 m
SOLUBLE ROLLER	0.0050"	52 cm x 50 m
SOLUBLE ROLLER	0.0070"	39 cm x 50 m
SOLUBLE ROLLER	0.0070"	79 cm x 50 m
SOLUBLE TAPE	N/A	2.5 cm x 92 m
SOLUBLE TAPE	N/A	5 cm x 92 m
WATER SOLUBLE PAPER IN ROLLER (with 2 glue pots)	N/A	1mx20m

SOLUBLE PAPER - EZ PURGE

A Unique Design and a Registered Model

ZAP™ (Zero Air Permeability) technology optimizes gas retention

Its flat design allows an equal distribution of gases over the entire body of the dam

For ease of insertion, the sidewalls of EZ purge are beveled to accommodate different pipe sizes

In addition, all EZ Purge products come with a generous amount of water-soluble tape pre-mounted in the sections so, don't worry about alignment and stickiness



Profitability

Valuable hours of working time are not spent gathering material, measuring, cutting or building a dam.

Improve your execution schedule.

Save gas.

Save on purchases.

Ease of Removal

Sodium Carbonic Methyl Cellulose and Pulp dissolves instantly and completely in most liquids.

Combined with other water-soluble polymer compounds in a unique formula for added strength.

100% biodegradable and ecological.

EZ Purge Dam dissolves and flushes out of the system leaving no residue in the line.

ARTICLE REFERENCE	PIPE DIAMETER		SET
	IMPERIAL SYSTEM	METRIC SYSTEM	
EZP-2	2"	51 mm	192
EZP-3	3"	76 mm	192
EZP-4	4"	102 mm	48
EZP-5	5"	127 mm	48
EZP-6	6"	152 mm	48
EZP-8	8"	203 mm	48
EZP-10	10"	254 mm	48
EZP-12	12"	305 mm	48
EZP-14	14"	356 mm	24
EZP-16	16"	406 mm	24
EZP-18	18"	457 mm	24
EZP-20	20"	508 mm	24
EZP-22	22"	559 mm	24
EZP-24	24"	610 mm	24
Sizes available until 84.			

OXYGEN PURGE MONITOR



Argo-Naught Oxygen Analyzer for Welding

measurement the oxygen content until 0.1% (1000 ppm)

- Hermetically sealed, robust housing
- Air and water-tight
- State of the art electronics
- High measurement accuracy
- Quick response time
- Clear, large display
- Increased sensor life expectancy

Delivered with probe, hose, pump and carrying case



PE 100 WELD PURGE MONITOR

measures the oxygen content until 100 ppm

- IP65 sealed assembly according to IP65 standards
- LCD Monitor
- Value read in %
- Manual pump
- Lector sensor life: 18 months
- Dustproof and waterproof
- Quick calibration

Delivered with probe, hose, pump and carrying case



UNIQUE WORKSHOP PRECISION: J AERO L

Measuring range from 10ppm to 0.1ppm
Measuring error less than 3%
Measuring gas flow rate: 5 to 10 l/hour
Maximum permissible temperature: 80°C
IP30 Protection degree

- Touch monitor and reversible at 180°
- Languages: French, English, German and Russian
- Sound and light indicator
- Automatic pump
- Automatic calibration

Model J AERO F available with data logging via supplied software

10 - LIFTING, PIPE HANDLING

Lifting

Bending Chocker belt EC	10-01
Pipe hooks	10-02
Textile and steel slings	10-03
Rolli cradle	10-04
Ballast webbing	10-05
Lifting air bags	10-06

Pipe handling

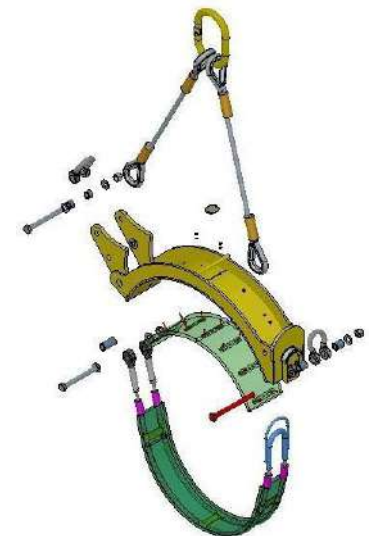
Pipe jack/stand	10-07 to 10-08
Pipe handling cart.....	10-09
Pipe cart.....	10-10
Lift Roust-A-Bout.....	10-11
Fab-Mate Mobile Lift.....	10-12



BENDING CHOCKER BELTS EC

IN ACCORDANCE WITH EC STANDARDS

	Ø pipe		Width		Weight	Volume	W.L.L
	"	mm	"	mm	kg	m ³	kg
	12	324	8	203	71	0,09	4000
	14	355	8	203	76	0,1	4000
	16	406	8	203	80	0,1	4000
	18	457	8	203	89	0,1	4000
	20	508	8	203	96	0,1	4000
	24	610	8	203	101	0,12	8000
	26	660	8	203	106	0,13	8000
	28	711	8	203	109	0,13	8000
	30	762	8	203	117	0,13	8000
	32	812	8	203	128	0,14	8000
	34	863	8	203	136	0,14	8000
	36	914	8	203	147	0,14	8000
	40	1016	8	203	185	0,19	10000
	48	1219	8	203	227	0,25	13000
	48	1219	12	304	290	0,35	20000
	56	1422	8	203	250	0,32	13000
	56	1422	12	304	320	0,42	25000



Roll pipe, pull pipe, secure extreme bends all without damage.

Fastest tool available for positioning and handling pipe.

Used on pipe from 12" up to 60". 2 different capacities from 20" to 56".

High resistance belt with PU coating.

PIPE LIFTING HOOK WITH ALUMINUM INSERT

Fast pipe fixing without damage of the bevel thanks to the removable aluminum insert of protection.

Pipe lifting hook (per pairs)				
	Type	Size	WLL (Tons)	Weight (kg)
	232A-6	3-6"	7	8
	232A-12	8-12"	7	8,2
	232A-18	14-18"	7	8,5
	232A-24	20-24"	7	9,1
	232B-30	26-30"	9	9,5
	232B-36	32-36"	9	10
	232B-42	38-42"	9	10,4
	231C-55	44-55"	11	57
	231C-72	56-72"	11	57



Model 232



Model 231

PIPE LIFTING HOOK WITH TEFLON INSERT

Pipe lifting hook (pair)				
	Size	WLL (Tons)	Weight (kg)	Shackle recommended
	3-6"	1,2	4,6	7/16" _ 1,5T
	8-24"	6	10	3/4" _ 4,75T
	26-48"	12	18	7/8" _ 6,5T



PIPE LIFTING HOOK

The minimal failure load is equal to five (5) times the maximum using load. The long conical nozzle is easily hooked in rings, meshes, eye bolts, pipes, etc.



	WLL bottom of the hook (Tons)	WLL bottom of the hook (Tons)	Item	Unit weight (kg)	Dimensions in mm			
					Ø Eye ID	Total length	Throat size	Basket radius
	1,8	6,8	standard	2,9	35	246	71,4	15,9
	1,8	6,8	With handle	3,1	35	246	71,4	15,9

TEXTILE AND STEEL SLINGS

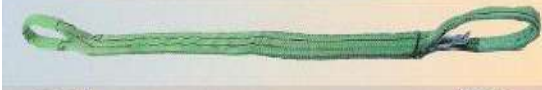
2 PLY CHOKER SLINGS

In accordance with the standard EN 1492-1 - Load factor 1:7 - 100% polyester fibre. Working length: bearing to bearing standard Length and special use

Cat. 1



Cat. 2



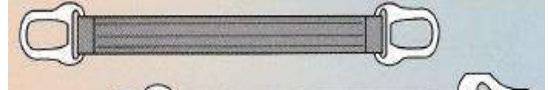
Cat. 4



Cat. 5








Cat. 6



Cat. 7



Model	Width in mm	Colour	Breaking strength (kg)	 100%	 200%	 180%	 140%	 80%
B30-1T	30	Purple	7000	1000	2000	1800	1400	800
B50-1.5T	50	Olive	10500	1500	3000	2700	2100	1200
B60-2T	60	Green	14000	2000	4000	3600	2800	2000
B75-2.5T	75	Whitec	17500	2500	5000	4500	3500	2000
B90-3T	90	Yellow	21000	3000	6000	5400	4200	2400
B120-4T	120	Grey	28000	4000	8000	7200	5600	3200
B150-5T	150	Red	35000	5000	10000	9000	7000	4000
B180-6T	180	Brown	42000	6000	12000	10800	8400	4800
B240-8T	240	Blue	56000	8000	16000	14400	11200	6400
B300-10T	300	Orange	70000	10000	20000	18000	14000	8000

CAUTION: Abrasive and cutting loads, Use only polyurethane, PVC or leather protective sleeves.

ENDLESS ROUND SLINGS

Endless roundslings, from 1 to 50 tons and 1 to 18m.

In accordance with the standard EN 1492-2

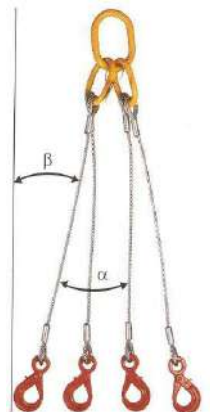
Load factor: 1:7. With or without protection out of polyurethane or PVC.



CABLE AND CHAIN SLINGS ASSEMBLIES

Steel cable slings assembly: in accordance with the European directive EEC/89/392 modified. Exists as standard with 1,2,3 or 4 slings with lock-hook. In certain loading cases we recommend to use reinforced cable ends.

Steel chain slings assembly: in accordance with the European directives EEC/89/392 - EEC/91/368, decrees 92/765, 92/766 of the 29/07/92 and EN818-4:1996 of the 18/12/92. Exist as standard with 1, 2, 3 or 4 slings with lock-hook and a chain reducer.



ROLLI CRADLE from 6" to 12"

Rolli cradle enables to lift and lower-in pipes. It prevents from the damage of pipe coating thanks to the polyurethane rollers. This tool is very handy. It is designed to use one single length of cable throughout the four loops of rollers to facilitate complete load equalisation.

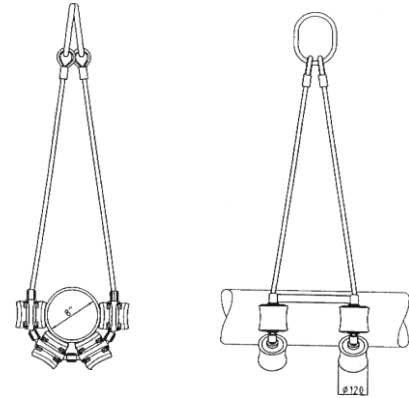
The model for 6"-8" pipes is equipped with 8 rollers, WLL 7500 kg.

The model for 10"-12" pipes is equipped with 10 rollers, WLL 10000 kg.

(safety factor: 5)

Weight: 120 kg - Height: 1300 mm - Rollers: Ø 120 mm.

In accordance with EC standards



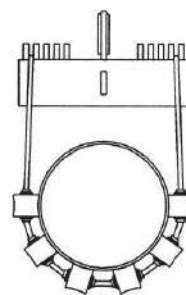
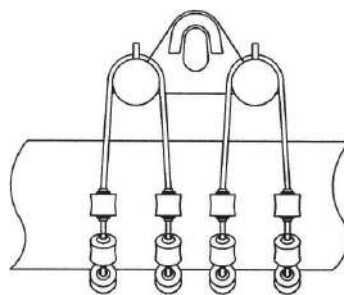
ROLLI CRADLE from 12" to 24"

Concerning Rolli cradles for pipes from 12" to 60", the range is composed of 4 models: 12"-24", 24"-36", 36"-48" and 48"-60"

The model for pipes from 12" to 24" -below illustrated- is equipped with 24 rollers, CMU 14000 kg. The rollers are assembled on steel cable slings of 19 mm (safety factor: 5)

Weight: 450 kg - Length: 920 mm—Width: 900 mm - Height swing bar: 550 mm Rollers: length: 167 mm diameter: 160 mm.

In accordance with EC standards



Pipe size	Height (mm)	Width (mm)	Length (mm)	Weight (kg)	WLL (T)	Roller quantity
From 12 to 24"	1930	1118	1118	1226	17	20
From 24 to 36"	2280	1321	1219	1382	40	28
From 36 to 48"	2845	1676	1219	2043	40	28
From 48 to 60"	3650	1829	1600	2315	40	36

LOWERING IN BELT

All components are quality materials assembled according to CE standards. The robustness of these straps will meet your requirements. Their weight and flexibility facilitate their handling. Standard or special material from 2" to 60".

Special execution: possibility of polyurethane coating for better wear resistance.

Identification plates and CE marking on each head iron and belt.

Independent CE certificates for each head iron and belt.

Coefficient of use: spreaders 1:4

Coefficient of use: straps 1:7

E36 steel spreader bar - Webbing fiber: 100% polyester

Strap stitching: 100% KEVLAR® Thread - CMU cradle use U



Ballast webbing characteristics									
Model	Ø maxi pipe		Sling size		Weight		Volume		W.L.L
			Width	Length	Sling	Swing bar	Sling	Swing bar	Kg
	"	mm	mm	m	Kg	Kg	m³	m³	
ELB112	12	324	305	1.45	11.8	22	0.01	0.02	20000
ELB118	18	457	457	2.13	20.0	38	0.02	0.04	30000
ELB120	20	508	457	2.29	21.8	38	0.02	0.04	30000
ELB124	24	610	610	2.59	28.1	49	0.03	0.07	40000
ELB130	30	762	762	3.05	38.6	60	0.05	0.08	50000
ELB136	36	914	914	3.51	49.9	71	0.07	0.11	60000
ELB142	42	1067	914	4.11	59.0	71	0.07	0.11	60000
ELB148	48	1219	914	4.57	68.0	71	0.08	0.11	60000
ELB242	42	1067	1067	4.11	63.5	80	0.09	0.14	70000
ELB248	48	1219	1067	4.57	70.3	80	0.11	0.14	70000
ELB348	48	1219	1219	4.57	81.7	82	0.15	0.15	80000
ELB156	56	1422	1219	5.18	95.3	82	0.16	0.15	80000
ELB256	56	1422	1422	5.18	104.3	98	0.18	0.17	100000
ELB160	60	1524	1422	5.49	117.9	98	0.19	0.17	100000



AIR LIFTING BAG

Patented lifting bag construction insures excellent operation over a longer period of time.

All metal components are made of brass.

Lifting bags are thin and simple to use. The surface with interlocking dimples provides superior gripping therefore sliding is almost impossible even when two bags are stacked on top of each other.

11 different sizes of bags are available with a lifting capacity from 1 to 63 tons.



24"lift bag #76737

22"lift bag #76736



16' blue hose with EU safety couplers #516192

16' red hose with EU safety couplers #516191

16' yellow hose with SAE couplers #76685



Deadman Controller #61450



PSI piston type regulator #721128-3



Model	SLK1	SLK3	SLK6	SLK10	SLK14	SLK21	SLK25	SLK33	SLK45	SLK55	SLK70
Reference	340517 1	3405170	3405169	3405168	3405167	3405166	3405164	3405164	3405163	3405162	3405161
Size (cm*cm)	15x15	22,5x22,5	30x30	38x38	45x45	55x55	61x61	69x69	78x78	87x87	94,5x94,5
Thickness (mm)	25	25	25	25	25	25	25	25	25	25	25
Weight (kg)	0,55	1,25	2	3,5	5	7	9	11	14	18	22,5
Insertion weight (mm)	29	29	29	29	29	29	29	29	29	29	29
Maxi. Lifting Height (mm)	80	130	160	210	250	300	340	380	420	470	520
Maxi. Lifting Capacity (kg)	1100	2700	5500	10100	13500	21100	25200	33000	44600	55000	70400
Maxi. Air Requirement (l)	5	15	42	86	152	296	416	621	921	1305	1505
Inflating pressure (bars)	8	8	8	8	8	8	8	8	8	8	8

PIPE JACK/STAND

	Fold A Jack (from 71 to 125cm): WLL: 1135kg (2500lb) Foldable for easy storage. Carrying wrist Square tube feet 2,5cm (1")		
	3786003	Folding pipe jack base per unit (Weight: 7,8kg)	
	3786002	Folding pipe jack base in box of 24 units (Weight: 187kg)	
	Fixed pipe jack Pro Jack (from 71 to 125cm): WLL: 1135kg (2500lb) Bent steel legs		
	Fixed pipe jack base per unit (Weight: 7,6kg)	3786001	
	Fixed pipe jack base in box of 24 units (Weight: 181kg)	3786000	

						
Model	Standard Vee head	Stainless steel sleeve	Ball transfert head	Stainless steel Roller Wheel Head	Rubber Wheel head	Bar stock head
Reference (steel)	3786011		3786031	3786051	3786071	3786081
Référence (inox)		3786025	3786041	3786061		
WLL	1135kg / 2500lb	1135kg / 2500lb	450kg / 1000lb	1135kg / 2500lb	450kg / 1000lb	900kg / 2000lb
Unit weight	4,3kg	0,55kg	3kg	5,75kg	5kg	4,2kg
Ø tip (min-max)	3 to 600mm 1/8" to 24"	3 to 600mm 1/8" to 24"	10 to 300mm 3/8" to 12"	30 to 600mm 1¼" to 24"	40 to 600mm 1½" to 24"	3 to 250mm 1/8" to 10"

Fat Jack pipe jack

- WLL 2725kg
- Square tube feet 1¼"
- Midi and Maxi fold
- Carrying handle
- Large Vee w/ Locking Pin and retainer
- Roller head in option



Height: from 91 to 154cm

Height: from 67 to 113cm

Height: from 40 to 72cm

Closed Position

Open Position



Roller head in option



Large Vee w/ Locking Pin



Midi and Maxi fold

PIPE JACK/STAND

MAX- JAX

The Sumner* MAX JAX* fabrication stands are the ideal 5-legged stand for fit-up, rotating and welding

Designed for loads up to 4,500 lbs.

Designed to hold 4" to 36" pipe depending on the head attachment

5-leg base construction with either a fixed base or adjustable 8" casters ensure stability

Optional head attachments available



MAX JAX Kit #1 ref 3786311	
<p>MAX JAX 5 legs base – w/ Standard Vee head + includes 4 rollers head kit and caster - 5 legged stand for fit up - WLL 2045 kg</p>	



MAX-JAX 2

The Sumner* MAX JAX* 2 upgraded fabrication stands are the ideal high and low stand for fit-up, rotating and welding.

Designed for loads up to 4,500 lbs.

Designed to hold 4" to 36" pipe

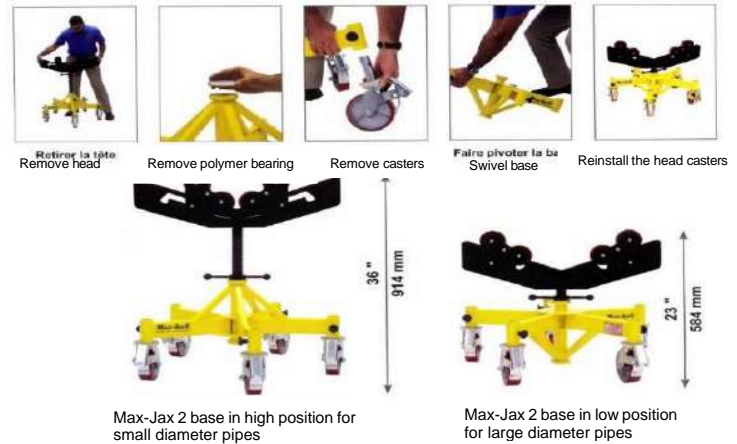
Dual height range:

786450: 21" to 29" low or 26" to 33" high

786451: 21.5" to 23" low or 26.5" to 36.5" high

5-leg base construction with adjustable 6" casters ensure stability

MAX JAX 2 Kit #1 ref 37863130	
<p>MAX JAX 2 5 legs base w/ standard Vee head + includes 4 rollers head kit and caster - 5 legged stand for fit up - WLL 2045 kg</p>	
MAX JAX 2 Kit #2 ref 37863135	
<p>MAX JAX 2 5 legs base – w/ slot head+ includes 4 rollers head kit and caster - 5 legged stand for fit up - WLL 2045 kg</p>	



Type	Wheels Kit	Stainless inox sleeve	Rubber wheel kit	Ball transfers	Hold down device	Roller wheel caster kit
Reference (steel)	3786320		3786323	3786322	3786090	3786331
Reference (stainless steel)	3786326	3786321		3786324		
WLL	2045kg / 4500lb	2045kg / 4500lb	450kg / 1000lb	450kg / 1000lb		
Unit weight	3,6kg	0,55kg	3kg	5,75kg	5kg	34,1kg
Ø pipe (min-max)	From 100 to 900mm	From 100 to 900mm	From 100 to 900mm	From 100 to 900mm	From 100 to 300mm	

PIPE HANDLING CART



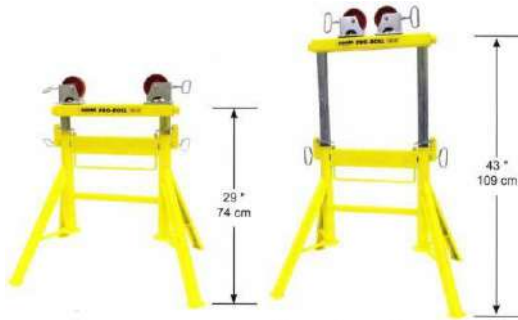
Type	Adjust-A-Roll	Pro Roll	Table Mini Roll	Table Adjust-A-Roll
Reference (unit)	3786503	3786501	3786508	3786507
Reference (box of 6 pieces)	3786502	3786500	/	/
WLL	1135kg / 2500lb	1135kg / 2500lb	1580kg / 3500lb	1135kg / 2500lb
Height (without head)	78cm	Adjustable from 74 to 109cm	19cm	6cm
Unit weight (without head)	13kg	19,4kg	6,8kg	5,5kg
Ø pipe (min-max)	From 12 to 900mm ½" to 36"	From 12 to 900mm ½" to 36"	From 12 to 900mm ½" to 36"	From 12 to 900mm ½" to 36"



Spare stand
(Only Adjust-A-Roll)



Improved locking washer



Adjustable height from 74 to 109cm (Only Pro roll)



simple and tool-less change of optional heads



Type	Wheel head kit	Rubber wheel head kit	Ball transfer head kit	Bar stock head kit
Reference (steel)	3786511	3786521	3786542	3786551
Reference (inox)	3786531	/	3786561	/
WLL	1135kg / 2500lb	550kg / 1200lb	450kg / 1000lb	900kg / 2000lb

CRICKET

- Transport 20 ft (6.1 m) pipe lengths up to 1,000 Lb. (450 Kg)
- Comes with ratchet hold-down strap and 16" (41 cm) tubed tires.
- Weights only 82 Lb (37.2 kg) ...
- Quick handle disconnects for compact storage.
- Carries up to 12" (300 mm) diameter pipe.
- Ideal job-site material carrier



GRASSHOPPER

- Enables one man to lift 2,000 lb (900 Kg) unassisted!
- Special sliding chain block design accommodates long and short loads
- Carries up to 20" (500 mm) diameter pipe, tool boxes, fittings and valves
- Fits through 35" (89 cm) openings, is a versatile 12 feet (3.6 m) long and weighs only 165 lbs (75 kg)
- Rugged high-pressure tires and wheels allow for construction site mobility
- Chains can be used to lock wheels for security



LIFT ROUST A-BOUT



The Sumner Roust-A-Bout enables one man to lift and place loads in tight locations that would be impossible with other lifts. The flexible Roust-A-Bout not only makes the job possible.

It can pay for itself in days by reducing job time. This dependable lift can raise a 1,500 lb. (680 kg) load to heights up to 25 feet (7.6 m) in minutes. In addition, large 8" (200 mm) casters permit a fully loaded Roust-A-Bout to position pipe or beams with ease. Wider loads up to 1,000 lbs (455 kg) can be handled with the addition of Sumner's Tee Head Extension Bar. The Roust-A-Bout eliminates the need for many other tools such as come alongs, scaffolds, monorails, and swing booms



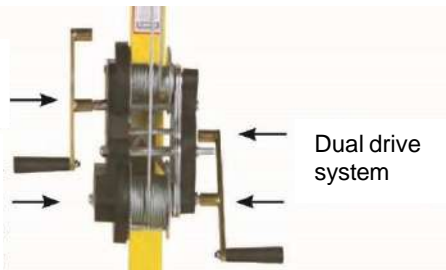
Roust-A-Bout Extension for mobile lift head



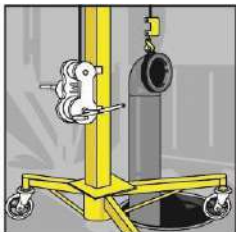
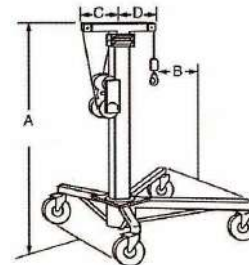
	Description	Weight	Height A	Height B	Width C/D	Base	Height Maxi
	Mobile lift R-100 Roust-A-Bout galvanized finish	150kg	200cm	50cm	30cm	80x100cm	4,6m
	Mobile lift R-250 Roust-A-Bout galvanized finish	224kg	302cm	75cm	44cm	150x150cm	7,6m

Mast raising winch

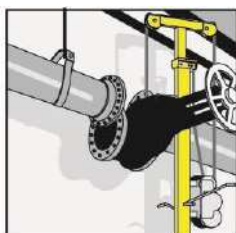
Winch for the supply of the load lifting cable



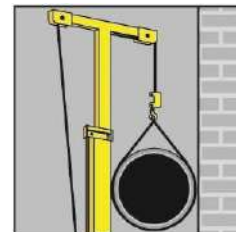
Dual drive system



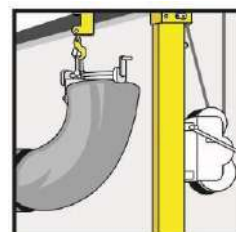
Loads can be lowered below floor level with the Roust-A-Bout's unique design.



One person can position objects weighing 1,500 lb (680 kg) with infinite accuracy up to 25 feet above!



The Roust-A-Bout operates in tight areas that are inaccessible for other lifts.



Used in combination with Sumner's [Adjust-A-Fit](#), the Roust-A-Bout can maneuver awkward objects for easy placement.

FAB-MATE MOBILE LIFT

FAB-MATE MOBILE LIFT For all your workshop needs!

1,000 lb (450 Kg), 7 foot (2.1 m), lifting capacity
Moves loads vertically and horizontally at the same time
Sumner-built single-speed winch offers infinite positioning for accurate fit-ups
8" casters (200 mm) and special base allows load to "get close to the work"
Accessories make Fab-Mate extremely versatile



Description	Weight	Height	Width	Length
FAB MATE mobil shop elevator	93kg	224cm	89cm	111cm



Move plate with plate lifting clamp



Align flanges with Sumner [Adjust-A-Flange](#)

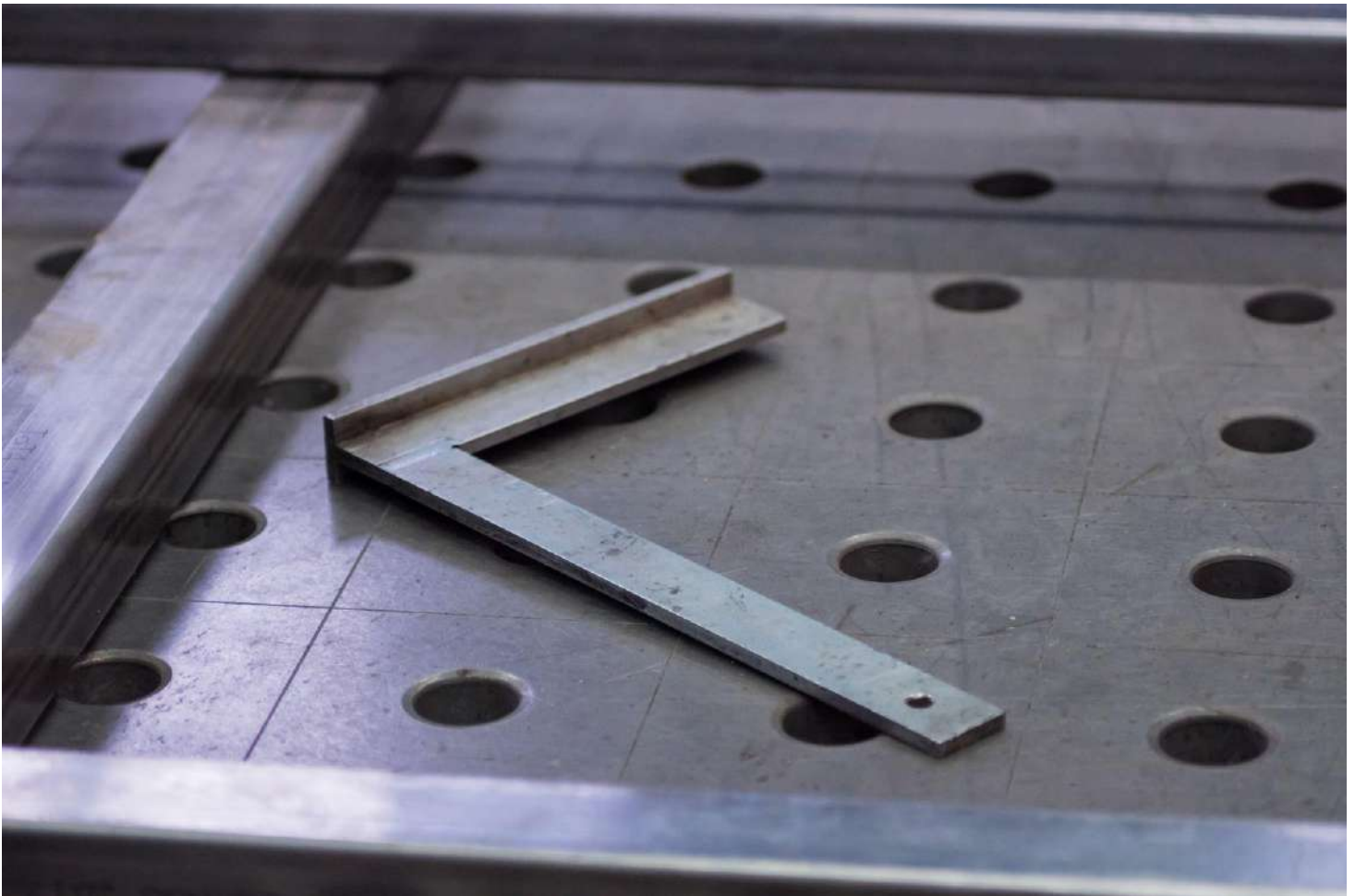


Position Fittings with Sumner [Adjust-A-Fit](#)

11 - MARKING, TRACING

Marking, Tracing

Markers	11-01
Pipe wraps	11-02
Centering head, Contour Marker, Pipe Master	11-03
ProtRactors, square positionners, Pipe slope level	11-04



MARKING and TRACING



TEMPILSTICK

TEMPILSTIK pencils are made out of materials whose melting point is gauged with a guaranteed tolerance of $\pm 1\%$. The range includes 177 pencils whose melting points are from 38°C (100°F) to 1371°C (2500°F) - see table below

TEMPILSTIK pencils are certified without suffers nor lead.

A specific material batch number is allocated to each pencil.

Also available in



PAINT MARKERS

Marks can be easily wiped away with water, ideal for quality control and temporary marking needs

Great for many surfaces including: smooth, rough, rusty, or dirty surfaces

Marker refills eliminate mess and paper waste of grease pencils, saving time and money

Durable plastic holder helps prevent breakage and keeps hands and clothing clean

Push-button advancing makes for easy, one-handed use.

Convenient clip allows for pocket storage and prevents rolling off work table

Multiple colors available for easy identification



Welding pencils

WELDING MARKERS

Perfect for marking through holes or in other tight areas, the Markal Pro Holder uses a long needle-nose tip to mark in hard-to-reach spots. The all-metal and refillable construction, built-in sharpener, and one-click advance provide years of reliability and ease-of-use. Use only with Markal Pro Welding & Pro General Purpose Refills

Markal pro

soapstone chalk



Security Paint Indicator

Pen Valve Action

SAFETY MARKERS

Paint marks crack for visual indication of loosening or tampering of bolts and parts

Each tube packed with extended plastic tip

Dry to touch: 15 minutes

Full Cure: 4 days

Comes in eight high-visibility colors

Larger volume tube holds 70% more paint than leading competitor

Marking range: -4°F to 158°F, (20°C to 70°C)

Mark temperature resistance: 392°F. (200°C)

MARKING and TRACING

PIPE WRAPS



They can be used as a straight edge or to mark straight lines around pipes. They are double ruled so both the top and bottom surfaces can be used for layouts. They are made of a highly abrasive resistant material, which aids in increasing pipe wrap life

Pipe Wrap in mm (")	Pipe Ø in mm. (")
Mini Helper	152 (6)
Little helper	305 (12)
Master helper	457 (18)
180 x 2290 (7 x 90)	610 (24)
180 x 3050 (7 x 120)	915 (36)
180 x 3810 (7 x 150)	1219 (48)
180 x 4830 (7 x 190)	1525 (60)

MAGNETIC PIPE WRAPS



This magnetic version completes the range. It allows an assistance during the setting up and will leave your hands free during the operations.

Magnetic Pipe Wrap in mm (")	Pipe Ø in mm (")
Pocket Mag	4"
Mini Mag	6"
Magna Helper	12"
Magna Master	18"
Big Inch (6" x 90")	24"
Big Inch (6" x 120")	36"
Big Inch (6" x 150")	48"

STAINLESS STEEL PIPE WRAPS

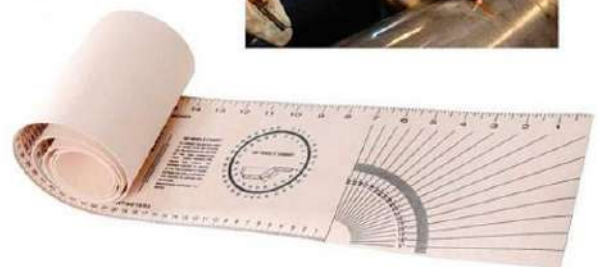


Stainless steel pipe wraps 304 or 316L (without any marking) to be used as a ruler, wound on a tube.

Length: 5 meters

Width: 95 to 100 mm (smaller or larger on request)

Thickness: 0.2 mm (others on request)



MARKING and TRACING

CENTERING HEAD



It provides a quick and accurate means of establishing pipe centreline, locating points on tanks or pipes, measuring slope, establishing angles and laying keyways.

Standard Centering Head: it is used on pipe \varnothing of 1/2" (13 mm) and larger. The "Y" head -which measures 4" (102 mm) from tip to tip- is fitted with an adjustable bubble protractor, and hardened punch for marking the material.

Jumbo Centering Head: it is used on pipe \varnothing of 1" (25 mm) and larger. The "Y" head measures 8" (203 mm) from end to end. The Jumbo mod-el has a spring-loaded hardened punch for marking the material

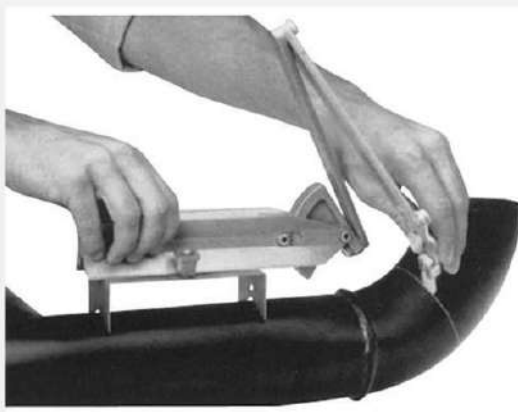
UNIVERSAL CENTER PUNCH



The Sumner* Center Punch has magnetic arms attach to the steel surface to assure accurate location when using the punch's spring-loaded striking hammer

- Fixed magnetic arms accommodate 4" to 8" steel pipe or tank
- Push button spring-loaded striking hammer
- Removable digital leveling gauge with magnetic base
- Alignment marks for centering
- Digital gauge can be used as angle finder.

CONTOUR MARKER



Device used for the marking of the oblique cuts and the penetration of pipings and sections, without calculation nor gauge. With bubble contractor.

Available size:

Ref1: with magnetic fixing

Ref	(int diam)		weight
1	40-250mm		0.85
2	200-700mm	2.2	

PIPE MASTER CONTOUR CONTROL

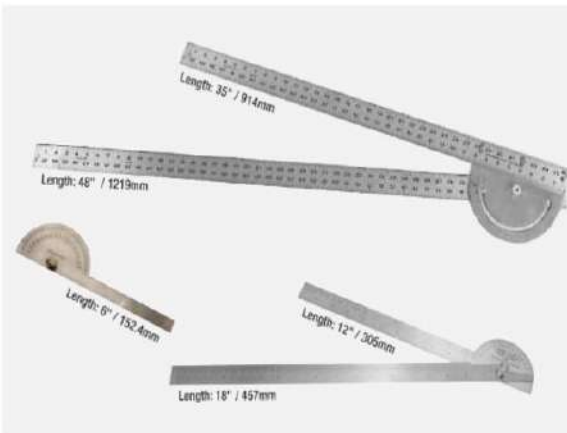


The cylindrical combs enable a faster and more precise work by simplifying the tracing of pipes, for the achievement of special cuts.

Exist from 1" to 12" (unit)

MARKING and TRACING

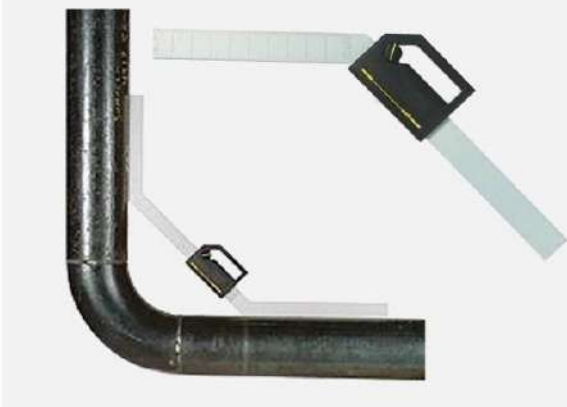
PROTRACTORS



It's the perfect tool to determine/set bevels, transfer angles, and measure the squareness of one surface to another. The Mini (DXX250) and Small (DK239) Protractors are made of stainless steel. The Large Protractor (DK100) is made of aluminum for easy handling. Protractor blades can be locked in place at specific angles and the heads have dual graduations from 0° to 180° in both directions

MODEL	DESCRIPTION	SHIPPING WEIGHT		SHIPPING DIMENSIONS	
		LBS	KG	IN	MM
DXX-250	Mini Stainless - 4" / 102.4mm	0.2	0.1	8 x 6 x 6	203 x 152 x 152
DK-239	Small Stainless - 18 & 12" / 457 & 305mm	0.9	0.4	20 x 6 x 6	508 x 152 x 152
DK-100	Large Aluminum - 48 & 36" / 1219 & 914mm	3.7	1.7	50 x 9 x 1	1270 x 229 x 25

MUL-T-SQUARE



The Sumner* Mul-T-Square* tool consist of two 45° blades that slide effortlessly in an industrial-strength plastic handle

- Lightweight durable aluminum construction
- Handles up to 8" flanges and up to 14" fittings
- Versatile for measuring 45° and 90° angles
- Blades marked with both imperial and metric units
- Comes with 10" (26 cm) and 14" (35 cm) arms
- Also available with 30" (76 cm) arms

QWIK PINS AND FLANGES LEVELER



- «**QWIK PINS**»: for openings from 16 to 42mm. Equipped with a locking and quick release system.
- - **ST106** (carbon) and **ST206** (stainless steel): for openings from 16 to 42mm.
- - **ST258** (carbon): (1) for openings from 38 to 66mm and (2) for openings from 117 to 162mm.
- - "**Flange Leveler**" with level: for openings from 16 to 42mm.

PIPE SLOPE LEVEL « TYPE X »



It is used to regulate and check the slope of pipings. The magnetic bearing surfaces enable fixing in any angle on smooth pipings or surfaces.

The reading of the angle is done directly on the display, without calculation.

Length: 300 mm

Weight: 0.7 kg

Plugging

- Mechanical pipe stopper..... 12-01 to 12-04
- Plastic pipe stopper..... 12-05 to 12-06
- Test pipe stopper..... 12-07 to 12-10
- Inflatable pipe stopper..... 12-11 to 12-12
- Rubber pipe stopper..... 12-13 to 12-14
- Pipe stopper..... 12-15 to 12-16
- Special pipe stopper..... 12-17
- Jetfreezer..... 12-18
- End seal pipe stopper..... 12-19
- Safety pipe stopper..... 12-20



MECHANICAL PIPE STOPPER

SINGLE MECHANICAL PIPE STOPPER



Single steel mechanical pipes stopper is used for the control of low-pressure pipelines. (low back pressure)

- For pipes from ½" to 18" (DN12 to DN450)
- Range of use: 12mm to 495mm
- By-pass: 1/2" to 1".
- Back pressure: 0.33 to 3.3 bar (depending on size)
- Gasket material: Rubber
- Flange material: steel or aluminum

STEEL TEST PIPE STOPPER



Single steel mechanical pipe stopper is used for the control of low-pressure pipelines (low back pressure)

- For pipes from ½" to 24" (DN12 to DN450)
- Range of use: 12mm to 600mm
- By-pass: 1/2" to 1".
- Back pressure: 0.33 to 2 bars (depending on size)
- Gasket material: Rubber
- Flange material: steel or aluminum

FALL PREVENTION PIPE STOPPER ER22



The clamping bar protects you from the risk of falling inside the pipeline.

- For pipes from 1.5" to 16" (DN40 to DN400)
- Range of use: 36mm to 425mm
- By-pass: 1/2" to 1".
- Back pressure: 0.3 to 2 bars (depending on size)
- Seal material : Rubber
- Flange material: steel

MULTI LOCK STEEL TEST PIPE STOPPER



Multiple compression points around the perimeter of the plug. Enable the seal to expand in localized areas. Strength where it matters – at the compression point. Steel components are aluminum coated against corrosion.

- For pipes from 17" to 54" (DN40 to DN400)
- Range of use: 415mm to 2030mm
- By pass (by pass): 2"
- Back pressure: 0.13 to 0.33 bars (depending on size)
- 4-point clamping
- Gasket material: Rubber
- Flange material: Aluminum

MECHANICAL PIPE STOPPER

SEALING PIPE STOPPER	Steel	Aluminum	ER22	RF	By pass	Pressure
ND(")	Øint. Min-max	Øint. Min-max	Øint.Min-max	Øint. Min-max	Ømm	max. (bar)
12(0,5")	12-16mm				4	3,33
20(0,75")	19-26,5mm				6	3,33
25(1")	24,8-37,5mm				6	3,33
30(1,25")	31-39,5mm				6	3,33
40(1,5")	37-50mm	38-50mm	36-48mm		15	2
50(2")	50-61mm	49-62mm	49-60mm		15	2
65 (2,5")	61-75mm	62-77mm	61-75mm		15	2
80(3")	73-85mm	73-89mm	73-85mm		15	1,4
90(3,5")	84-100mm	84-103mm	84-95mm		15	1
100(4")	94-108mm	97-110mm	94-110mm		15	1
115(4,5")	110-125mm	112-130mm	108-120mm		15	1
125(5")	124-139mm	125-142mm	121-138mm		15	1
140(5,5")	138-148mm		138-148mm		15	1
150(6")	150-160mm	146-168mm	146-163mm		15	1
175(7")	175-200mm	175-200mm	170-195mm		25	0,49
200(8")	195-215mm	193-220mm	191-211mm		25	0,49
225(9")	210-230mm	220-240mm	216-235mm		25	0,49
250(10")	245-260mm	245-270mm	244-260mm		25	0,49
275(11")	240-282mm	274-328mm	275-305mm		25	0,49
300(12")	296-320mm	295-325mm	296-314mm		25	0,49
325(13")	290-345mm	325-360mm			25	0,49
350(14")	340-385mm	350-385mm	340-375mm		25	0,35
375(15")	370-415mm	370-410mm	365-400mm		25	0,35
400(16")	390-430mm	390-435mm	390-425mm		25	0,35
450(18")	448-495mm	445-495mm		440-480mm	50	0,33
500(20")		495-550mm		490-530mm	50	0,33
525(21")		502-556mm		515-555mm	50	0,2
550(22")		535-578mm		540-580mm	50	0,2
600(24")		595-650mm		590-630mm	50	0,2
650(26")		635-690mm		640-680mm	50	0,2
700(28")		690-740mm		690-730mm	50	0,2
800(32")		785-835mm		790-830mm	50	0,2
900(36")		890-940mm		890-930mm	50	0,2
1000(40")				990-1030mm	50	0,2
1050(42")				1040-1080mm	50	0,2
1100(44")				1090-1130mm	50	0,2
1150(46")				1140-1180mm	50	0,2
1200(48")				1190-1230mm	50	0,2
1250(50")				1240-1280mm	50	0,2
1300(52")				1290-1330mm	50	0,2
1400(56")				1390-1430mm	50	0,2
1500(60")				1490-1530mm	50	0,2
1600(64")				1590-1630mm	50	0,2
1700(68")				1690-1730mm	50	0,2
<Size				Consult us		

MECHANICAL PIPE STOPPER

« END » TYPE PIPE STOPPER

The larger flange size protects you from the risk of falling inside the pipe.



	Stainless steel version	Steel version
Range of use	37 mm to 162 mm	50 mm to 320 mm
Pressure	0.07 to 0.14 bar	0.46 bar to 2 bar
ND	From ND40 to ND150	From ND50 to ND300

« ERFISURE » TYPE PIPE STOPPER

For temporary or permanent sealing of pipelines These pipes stopper are without by pass.

For pipes from 0.39" to 5" (DN10 to DN125)

Range of use: 10mm to 122mm

Back pressure: 0.6 to 12.8 bars (depending on size)

Gasket material: Rubber

Material of the flanges / screws: Aluminum

flanges / screws: stainless steel

flanges / screws: steel



"601" TYPE PIPE STOPPER

These pipes stopper with by pass are equipped with or without a valve. Also available with key (601-B), without by pass.



- For pipes from 0.5" to 2" (DN15 to DN50)
- Range of use: 15mm to 56mm
- Back pressure : 2 bars
- Gasket material: Rubber
- Material of the flanges / screws: steel

« CAST IRON » TYPE PIPE STOPPER

For temporary or permanent sealing of pipes. These pipe stoppers are equipped with by pass.

- For pipes from 2" to 18 (DN50 to DN450)
- Range of use: 46mm to 462mm
- Back pressure : 2 bars
- Gasket material: Rubber
- Material of the flanges / screws: cast iron



MECHANICAL PIPE STOPPER

End



Erfisure



601



CAST IRON



SEALING PIPE STOPPER	End	Erfisure	601	CAST IRON
ND(")	Øint. Min-max (bar)	Øint. Min-max (bar)	Øint. Min-max (bar)	Øint. Min-max (bar)
10(0,39")		10-11mm (12,8B)		
12(0,5")		13-14mm (12,4B)	15-20mm (2B)	
20(0,75")		18-22mm (12,4B)	19-25mm (2B)	
25(1")		22-26mm (2,8B)	25-32mm (2B)	
30(1,25")		32-36mm (7,7B)	32-39mm (2B)	
40(1,5")	37-42mm (2B)	36-39mm (6,1B)	39-44mm (2B)	
50(2")	50-61mm (2B)	44-52mm (7,7B)	44-56mm (2B)	46-53mm (0,66B)
65 (2,5")		58-71mm (4,9B)		
80(3")	75-85mm (1,33B)	69-81mm (1,9B)		71-78mm (0,66B)
90(3,5")				
100(4")	94-108mm (1B)	95-114mm (1,7B)		94-103mm (0,55B)
115(4,5")				
125(5")	117-135mm (1B)	122-132mm (0,6B)		
140(5,5")				
150(6")	145-160mm (1,33B)			142-155mm (0,26B)
175(7")				
200(8")	195-215mm (0,46B)			193-208mm (0,26B)
225(9")				
250(10")	245-260mm (0,46B)			244-259mm (0,2B)
275(11")				
300(12")	296-320mm (0,46B)			295-309mm (0,16B)
325(13")				
350(14")				
375(15")				374-386mm (0,16B)
400(16")				
450(18")				450-462mm (0,16B)

PLASTIC PIPE STOPPER

NYLON PIPE STOPPER



Available from 50mm up to 150mm diameter.
Superior design – easier to use.
Can be used for testing up to 7p.s.i.
Designed to fit Telecommunication Ducts for temporary sealing to prevent ingress of vermin and sand.
Easy to sterilise so can be used in Hospitals, Food Processing Plants etc.
Carries the Horobin name – quality guaranteed.

« E-CONE » SCREW PIPE STOPPER



The mechanical screw stopper from the E-CONE range serve to plug sewer and drainage pipes permanently. They are air and watertight.

- The E-CONE stoppers can withstand pressures of up to 2 bar depending on the model.
- They can be dismantled and reused where necessary.
- They are made out of polyurethane for the seal and polypropylene for the threaded conical section. The E-CONE plug can also be used for temporarily blocking pipes, when maintenance works are being completed for example. E-CONE can be inserted into any type of pipeline

« CAP » PIPE STOPPER



Flexible EPDM pipes stopper with stainless steel 304 clamps.

Pressure resistance: 0.5 bar

Tighten with the collar on the outside of the pipe.

Temporary or permanent filling.

- For pipes from 1.25" to 14 (DN30 to DN350)
- Range of use: 30mm to 330mm
- Back pressure: 0.5 bars
- Seal material: EPDM
- Collar material: stainless steel 304

« STOPPER » PIPE STOPPER



CAMSTOPPER® mechanical cam stoppers are recommended for temporary or permanent fillings. Equipped with a cam handle locking system, CAMSTOPPER® fillers are quick and easy to install.

The patented cam handle locking system facilitates easy installation and removal of the obturator. With the help of its handling rod, it can even be installed from the manhole entrance for optimum operator safety.

Four models are available depending on the diameter of the pipe to be plugged:

- CAM and CAM V, from DN 100 to DN 160.
- PRO, from DN 200 to DN 500
- PRO SPC, for tailor-made realizations.

PLASTIC PIPE STOPPER

Nylon



E-cone



Cap



Stopper



Nylon	E-cone	Cap	Stopper
Øint. Min-max(bar)	Øint. Min-max (bar)	Øint. Min-max (bar)	Øint. Min-max (bar)
18-24mm(1,33B)			
23-32mm(1,33B)			
31-24mm(1,33B)	37-40mm (2B)	30-33mm (0,5B)	
37-54mm(1,33B)	40-43mm (2B)		
48-65mm(1,33B)	49-51mm (2B)	47-51mm (0,5B)	
60-77mm(1B)	52-56mm (2B)		
70-87mm(1B)	55-58mm (2B)	57-63mm (0,5B)	
83-97mm(1B)	75-78mm (2B)	80-90mm (0,5B)	90-97mm (0,5B)
95-110mm(0,33B)	77-80mm (2B)	100-115mm (0,5B)	96-103mm (0,5B)
	90-94mm (2B)		102-107mm (0,5B)
	98-102mm (2B)	132-138mm (0,5B)	108-112mm (0,5B)
	101-105mm (2B)		116-123mm (0,5B)
143-155mm (0,33B)	107-111mm (2B)	159-165mm (0,5B)	125-132mm (0,5B)
	116-120mm (2B)		136-142mm (0,5B)
	120-124mm (2B)	200-216mm (0,5B)	144-149mm (0,5B)
	128-132mm (2B)		147-153mm (0,5B)
	141-144mm (1,7B)		157-m162mm (0,5B)
	149-153mm (1,7B)		
	150-154mm (1,7B)	315-330mm (0,5B)	
	153-157mm (1,7B)		
	157-162mm (1,7B)		
	190-194mm (1B)		
	198-202mm (1B)		
	200-204mm (1B)		

TEST PIPE STOPPER

CYLINDRICAL PIPE STOPPER



For more sanitation-oriented use or water pipes, we offer various inflatable shutters with or without by-pass that can be used as test devices. As an option, a hydrocarbon resistant variant can be offered to you on demand. We also have a range of accessories such as the power supply or the inflation pump.

For testing of pipes and ducts.

With clamping via a handle. Equipped with a quick coupling for by pass.

- For pipe from 0.5" to 4" (DN15 to DN100)
- Range of use: 15mm to 102mm
- Back pressure: 5 to 20 bars (depending on size)
- Gasket material: Rubber

PIPE STOPPER 345



For testing of pipes and ducts.

With tightening via a wing screw. These pipes stopper are without by pass.

For pipes from ND12 to ND75

Range of use: 12mm to 80mm

Back pressure: 8 to 30 bars (depending on size)

Gasket material: Rubber

PIPE STOPPER



For testing of pipes and ducts. With tightening via a wing screw. Equipped with a by pass and a valve (also available with a double valve).

- For pipes from 3/8" to 4" (DN20 to DN100)
- Range of use: 20mm to 102mm
- Back pressure: 5 to 20 bars (depending on size)
- Gasket material: Rubber

PIPE STOPPER 26 – M/C



For testing of pipes and ducts. Available in cylindrical or conical version. Equipped with a valve and a pressure gauge.

- For pipes from 1/2" to 3" (DN15 to DN80)
- Range of use: 15mm to 77mm
- Back pressure for cylindrical version: 6 to 20 bars (depending on size)
- Back pressure for conical version: 3 to 10 bars (depending on size)
- Gasket material: Rubber

TEST PIPE STOPPER

Cylindrical



345



26



26—M/C



SEALING PIPE STOPPER	Cylindrical	345	26	26 – M/C
ND(″)	max pressure	max pressure	max pressure	max pressure
10			20 bar	
12	20 bar	30 bar	20 bar	20 / 10 bar
13		30 bar		
14		30 bar		
16		30 bar		
20	20 bar	30 bar	20 bar	20 / 10 bar
25	20 bar	30 bar	20 bar	20 / 10 bar
30	20 bar	25 bar	20 bar	20 / 10 bar
35		20 bar		
40	15 bar	20 bar	15 bar	15 / 7 bar
45		20 bar		
50	15 bar	20 bar	15 bar	15 / 7 bar
55		15 bar		
60		15 bar		
65	10 bar	15 bar	10 bar	10 / 5 bar
70		10 bar		
75		8 bar		
80	6 bar		6 bar	6 / 3 bar
90				
100	5 bar		5 bar	

TEST PIPE STOPPER

TEST PIPE STOPPER (SINGLE PIPE)



For testing of pipes and ducts. Tightening with a nut.

	1024/1025 Type	HEX NUT Type
ND	10 to 200	10 to 500
Range of use	From 12mm to 209mm	From 12 to 488mm
Back pressure	12 to 28mm : 15 bars	From 0.5 to 30 bars
	84 to 158mm : 10 bars	
	165 to 600mm : 6 bars	

PIPE STOPPER WITH VALVE



- 25/600 : for pipe from 1" to 24" Back pressure : from 0.6 to 30 bars
- 26B : for pipe from 3/8" to 24" Back pressure : from 0.5 to 30 bars
- 12/500 : for pipe from 3/8" to 20" Back pressure : from 4.5 to 30 bars

HQ PIPE STOPPER



- 1025 NV : equipped with jaws, handle and tightening by nut
Range of use : depending of size
Back pressure : as needed
- 12/2200 : equipped with valves, a stop and tightened by nut
Back pressure : from 2 to 100 bars (by size)
For pipe from ND12 to ND2200



DESIGN OFFICE
For your specific needs

TEST PIPE STOPPER

SEALING PIPE STOPPER	Hex nut	25/600	26B	12/500	12/2200	1024	1025
ND	Max Pressure	Max Pressure	Max Pressure	Max Pressure	Max Pressure	Max Pressure	Max Pressure
12				30 bar	100 bar		
14	30 bar		30 bar	30 bar	100 bar		
15			30 bar			15 bar	25 bar
20	30 bar		30 bar	30 bar	100 bar	15 bar	25 bar
25	30 bar	30 bar	30 bar	30 bar	100 bar	15 bar	25 bar
30	25 bar	25 bar	25 bar	25 bar	100 bar	15 bar	25 bar
35	20 bar	20 bar	20 bar	20 bar	100 bar	15 bar	25 bar
40	20 bar	20 bar	20 bar	20 bar	100 bar	15 bar	25 bar
50	20 bar	20 bar	20 bar	20 bar	100 bar	15 bar	25 bar
55			15 bar				
60	15 bar	15 bar	15 bar	16 bar	100 bar	15 bar	25 bar
65	15 bar	15 bar	15 bar	16 bar	100 bar	15 bar	25 bar
70	10 bar	70 bar	10 bar	16 bar	100 bar	15 bar	25 bar
75	8 bar	8 bar	10 bar	16 bar	100 bar	15 bar	25 bar
80	6 bar	3,6 bar	6 bar	16 bar	100 bar	15 bar	25 bar
90	5,5 bar	3,3 bar	5,5 bar	16 bar	100 bar		
100	5 bar	3 bar	5 bar	16 bar	100 bar		18 bar
110	4,8 bar	2,8 bar	4,8 bar	15,5 bar	95 bar	10 bar	18 bar
125	4,5 bar	2,7 bar	4,5 bar	15 bar	92,5 bar	10 bar	18 bar
130	4,3 bar	2,6 bar	4,2 bar			10 bar	18 bar
140	4,2 bar	2,5 bar	4,2 bar	14 bar	90 bar	10 bar	18 bar
150	4 bar	2,4 bar	4 bar	13 bar	90 bar	10 bar	18 bar
160	3,8 bar	2,2 bar	3,8 bar	12,5 bar	88 bar		
175	3,5 bar	2,1 bar	3,5 bar	12 bar	85 bar		
190	3,2 bar	1,9 bar	3,2 bar	12 bar	80 bar		
200	3 bar	1,8 bar	3 bar	11,5 bar	80 bar	6 bar	10 bar
210	2,8 bar	1,7 bar	2,8 bar	11,2 bar	77,5 bar	6 bar	10 bar
225	2,6 bar	1,7 bar	2,6 bar	11 bar	75 bar	6 bar	10 bar
235	2,5 bar	1,6 bar	2,5 bar	10 bar		6 bar	10 bar
250	2,5 bar	1,5 bar	2,5 bar	10 bar	70 bar	6 bar	10 bar
260	2,4 bar	1,3 bar	2,4 bar	9,5 bar	65 bar	6 bar	10 bar
275			2 bar	9 bar	60 bar	6 bar	10 bar
300	2 bar	1,2 bar	2 bar	9 bar	60 bar	6 bar	10 bar
310	2 bar	1 bar	2 bar	8,5 bar	57 bar	6 bar	10 bar
350	1,5 bar	0,9 bar	1,5 bar	7 bar	50 bar	6 bar	10 bar
400	1 bar	0,6 bar	1 bar	6 bar	35 bar	6 bar	10 bar
450	0,5 bar		0,5 bar	5 bar	30 bar		
500	0,5 bar		0,5 bar	4,5 bar	30 bar		
600			0,5 bar		25 bar		
700					20 bar		
800					18 bar		
900					17 bar		
1000					16 bar		
1100					13 bar		
1200					10 bar		
1300					9 bar		
1400					8 bar		
1500					7 bar		
1600					6 bar		
1700					5 bar		
1800					3,5 bar		

INFLATABLE PIPE STOPPER

TYPE 1 FABRIC BAG



Designed with rubber bladder and fabric covering (polyester)

Single bag:

For pipes from 2" to 36" (DN50 to DN900)
Delivered with 1.5m red hose and "Schrader" valve.

Double bag:

For pipes from 3" to 20" (DN80 to DN500)
German "DVGW" certification

TYPE 2 ICISIL BAG



These bags are made of PVC rubber resistant to hydrocarbons.

At the same time flexible and resistant, they make it possible to cover several diameters of tubes, even ovalized.

Supplied with 1.5m hose and a valve
For pipes from 2" to 8" (DN50 to DN200)
Range of use: 48mm to 320mm.

TYPE 3 BAG WITH SPECIAL COATING



Bag with fireproof cover:

- Resistant to welding spatter
- For pipe from 2" to 48" (DN50 to 48")

Bag with neoprene cover:

- Resistant to chemicals
- For pipes from 1/2" to 60" (DN10 to DN1500)

Bag with special nylon cover:

- Resistant to natural gas
- For pipes from 2" to 16" (DN50 to DN400')

TYPE 4 EXTENSIBLE BAG



This type of bag is equipped with BET (Bladder Expansion Technology) pocket dilatation technology. This technology is revolutionary because it allows a single module to adapt to many pipe sizes.

- For pipe form 2" to 48" (DN50 to DN1200)
- Range of use: 51mm to 1219mm.
- Available sizes : 2-3" / 4-6" / 8-12" / 14-18" / 20-26" / 28-36" / 38-48

INFLATABLE PIPE-STOPPER

Type 1



Type 2



Type 3



Type 4



Type 1 (simple)	Type 1 (double)	Type 2	Type 3	Type 4
Size	Size	Size	Size	Size
ND50		50-70mm	50-55mm	51-76mm
ND80	ND80	75-95mm	75-84mm	
ND100	ND100	100-145mm	100-112mm	102-152mm
ND125	ND125	150-195mm	125-138mm	
ND150	ND150	200-300mm	150-168mm	203-305mm
			175-192mm	
ND200	ND200		200-224mm	203-305mm
			225-245mm	
ND250	ND250		250-276mm	356-457mm
ND300	ND300		300-324mm	
ND350	ND350		350-368mm	356-457mm
			375-403mm	
ND400	ND400		400-417mm	509-660mm
ND450	ND500		450-481mm	
ND500			500-520mm	509-660mm
			525-546mm	
ND550			550-559mm	711-914mm
ND600			600-637mm	
			650-669mm	711-914mm
			675-698mm	
ND700			700-737mm	965-1219mm
ND750			750-788mm	
ND800			800-813mm	965-1219mm
			850-864mm	
ND900			900-943mm	965-1219mm
			1000-1021mm	
			1050-1067mm	965-1219mm
			1200-1252mm	

RUBBER PIPE STOPPER

VP TYPE (2"-4" by pass)
GSY TYPE (with basic by pass)
GY TYPE (without by pass)



G TYPE (1 inlet)
GM TYPE (2 inlets with by pass)



TYPE						
GY – Z	GY	GSY – Z	GSY	VP	G	GM
Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi
20-33mm			38-48mm			
33-40mm	32-53mm		48-57mm			
50-75mm	40-70mm		67-83mm		50-80mm	45-80mm
75-100mm	48-80mm	75-100mm	70-150mm		80-130mm	75-130mm
100-150mm	100-200mm	100-150mm	100-200mm	98-150mm	100-160mm	100-160mm
150-200mm	150-200mm	150-200mm	150-200mm	148-250mm	145-210mm	145-210mm
175-204mm	150-300mm	175-204mm	150-300mm	198-300mm	200-315mm	200-315mm
219-254mm	300-525mm	219-254mm	200-400mm	150-300mm		
275-305mm	350-600mm	275-305mm	300-525mm	200-400mm		
267-311mm	375-750mm		350-600mm	300-525mm	315-500mm	315-500mm
	500-800mm		375-750mm	350-600mm		
	500-1000mm		500-800mm			
	600-1200mm		500-1000mm	500-1000mm		
	750-1500mm		600-1200mm	600-1200mm		
	800-1800mm		750-1500mm	750-1500mm		
			800-1800mm	800-1800mm		

RUBBER PIPE STOPPER



ACCESSORIES



MANOMETER WITH VALVE

0.9 KG
2.5 BAR
1.5 BAR
1 BAR



CONTROLLER

5 BAR / 0.9 KG
1.2 KG



**BLUE INFLATING HOSE
10M**



**YELLOW INFLATING
HOSE 10M**

1.2 KG



**RED INFLATING HOSE
10M**

1.2 KG
10M / 2.4KG



**INFLATING HOSE AND
TRACTION CORD**

5M / 1.9KG



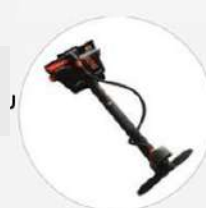
PLACEMENT DEVICE FOR

Type GY 100-200
Type GY 200-400
Type GY 350-600
Type GY 500-1000



**ALUMINUM TELESCOPIC
CANE in 3 parts**

1 KG



MANUAL PUMP

0.8KG

CONE SHAPED PIPE STOPPER « CP » TYPE



With eyelets, pull cuffs and 3 reinforcement strips made of special foam.

TYPE GY (without by pass)

Range of use (mm): 400-100 / 600-1500 / 700-2000 / 900-2400.

TYPE GSY (with 2" by pass)

Range of use (mm): 400-100 / 600-1500 / 700-2000 / 900-2400

OVOID PIPE STOPPER TYPE "EI"



The shape of the first two sizes is adapted to the shape of the pipeline, while the larger sizes are pillow-shaped to simplify insertion through the manholes. Pipes stopper are available in seven standard sizes, both sealing and bypass types.

Ovoid pipes stopper are made of soft rubber with KEVLAR reinforcements

Materials: CR rubber

TYPE GY (without by pass)

Range of use (mm): 200-375 / 300-525.

GSY TYPE (with 2" and 3" by pass)

Range of use (mm): 200-375 / 300-525.

PIPE STOPPER TYPE "CSS"



Pipes stopper of this type are suitable for the largest pipelines and can be custom-made to fit any pipeline diameter.

Materials: CR rubber

TYPE GY (without by pass)

Range of use (mm): 600-1000 / 800-1200 / 1200-1600 / 1600-2000 / 1900-2200 / 2400-2500 / 2600- 2700 / 2800-2900 / 3000

GSY TYPE (with 2" female by pass)

Range of use (mm): 600-1000 / 800-1200 / 1200-1600 / 1600-2000 / 1900-2200 / 2400-2500 / 2600- 2700 / 2800-2900 / 3000

PIPE STOPPER TYPE "VJ"



Materials: CR rubber

TYPE GSY (with 2" by pass)

Range of use (mm): 590-600 / 600-650 / 780-800 / 980-1000.

Inflation pressure: depending on size (see table)

Max. back pressure depending on size (see table)

Inflation valve : R1/4".

PIPE STOPPER

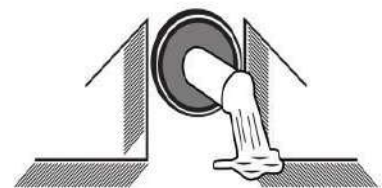
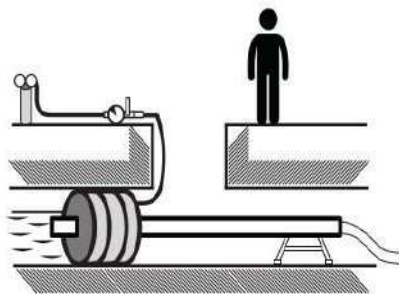
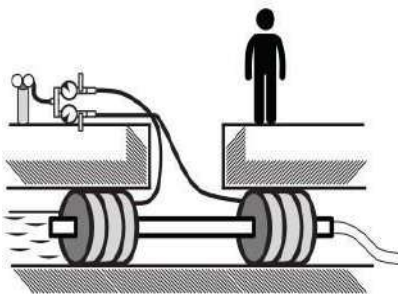


TYPE

CP-GY	CP-GSY	EI-GY	EI-GSY	CSS-GY	CSS-GSY	VJ

RANGE OF USE

Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi	Ømin-maxi
		200/300-250/375mm	200/300-250/375mm	600-1000mm	600-1000mm	590-600mm
400-1000mm	400-1000mm	300/450-350/525mm	300/450-350/525mm	800-1200mm	800-1200mm	600-650mm
600-1500mm	600-1500mm	400/600-500/750mm	400/600-500/750mm	1200-1600mm	1200-1600mm	780-800mm
700-2000mm	700-2000mm	600/900mm-600/900mm	600/900mm-600/900mm	1600-2000mm	1600-2000mm	980-1000mm
900-2400mm	900-2400mm	700/1050-800/1200mm	700/1050-800/1200mm	1900-2200mm	1900-2200mm	
		900/1350-1000/1500mm	900/1350-1000/1500mm	2400-2500mm	2400-2500mm	
		1200/1800-1400/2100mm	1200/1800-1400/2100mm	2600-2700mm	2600-2700mm	
				2800-2900mm	2800-2900mm	
				3000mm	3000mm	



SPECIAL PIPE STOPPER

« MDS » TYPE PIPE STOPPER



Advantages:

- Multidimensional
- Prevents any gas by pass, impossible with other balloons
- Very solid balloons
- Possibility of back pressure measurement
- Placement with small opening

The MDS multi-diameter shutter balloon. Represents an evolution in the temporal obturation of pipes.

Range of use (mm): 60-80 / 80-120 / 120-170 / 140-215 / 190-270 / 240-315 / 300-400 and 400-500.

Back pressure (all sizes): 1bar / 4bar or 10bar

« HP 3-10 » TYPE PIPE STOPPER



TYPE GY 3bar (without by pass)

Range of use (mm): 100-150 / 150-200 / 200-300 / 350-500 / 500-600.

Max. back pressure : 3bar

TYPE GY 10bar (without by pass)

Range of use (mm): 100-125 / 150-150 / 200-250 / 300-350 / 400-400 / 500-500.

Max. back pressure : 10 bar

« HP 16 » TYPE PIPE STOPPER



TYPE GY 16bar (without by pass)

Range of use (mm): 55-75 / 75-100 / 100-150 / 150-200. Max. back pressure : 16bar

TYPE GSY 16bar (with by pass)

Range of use (mm): 55-75 / 75-100 / 100-150 / 150-200. Max. back pressure counter pressure : 16bar



DESIGN OFFICE
For your specific needs



PORTABLE PIPE FREEZING EQUIPMENT

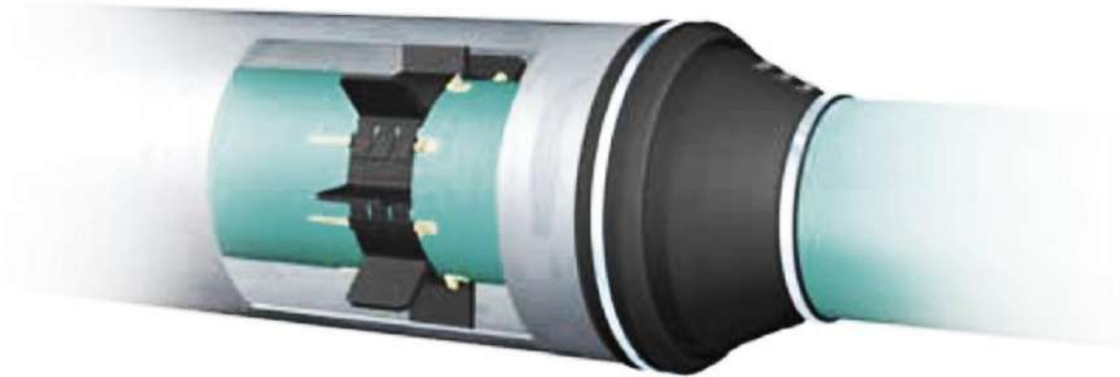
The equipment uses liquid carbon dioxide (CO₂) to freeze water trapped in specific sections of pipe or tubing. The sleeve produces a plug of dry ice due to the diffusion of the liquid CO₂ which is at very low temperature. It is then possible to temporarily isolate the water in the circuit, allowing repairs or modifications without the need for draining or shutting down the circuit completely.

This system is easy to use. A specially designed sleeve surrounds the piping at the point where freezing is to take place. A nozzle on the sleeve is connected to the liquid CO₂ bottle by means of a high pressure tubing.

When the liquid CO₂ is injected into the space between the sleeve and the piping, it becomes solid carbon dioxide (dry ice), generating a temperature of -78°C (-108.4 F).

FREEZING						
Compleat kit					By product	
Mini	Senior	Senior +	Pro	Pro +	Sleeves	Nb of connexion
Ø ext. Pipe	Ø ext. Pipe	Ø ext. Pipe	Ø ext. Pipe	Ø ext. Pipe	Ø ext. Pipe	
8-15mm	8-15mm	8-15mm(x2)	8-15mm	8-15mm(x2)	8-15mm	1
	16-22mm	16-22mm(x2)	16-22mm	16-22mm(x2)	10-22mm	1
			23-42mm	23-42mm(x2)	22-42mm	1
					42-80mm	2
					80-100mm	2
					Accessories	HP flexible
						T fitting
						washer
						CO2 cylinder

END SEAL PIPE STOPPER



KT Type



Available size :
 Ø Pipe: 10-508mm
 Ø Sleeve: 110-610mm

Material : EPDM
 Included :
 Stainless steel
 fixing trip

HA Type



Available size :
 Ø Pipe : 25-50mm
 Ø Sleeve : 50-90mm

Material : EPDM
 Included :
 Stainless steel
 fixing trip

DU Type



Available size :
 Ø Pipe: 20-762mm
 Ø Sleeve: 90-965mm

Material : EPDM
 Included :
 Stainless steel
 fixing trip

STM Type



Available size:
 Ø Pipe: 500-1200mm
 Ø Sleeve: 200-
 1600mm

Material : EPDM
 Included :
 Stainless steel
 fixing trip

KG and KO Type



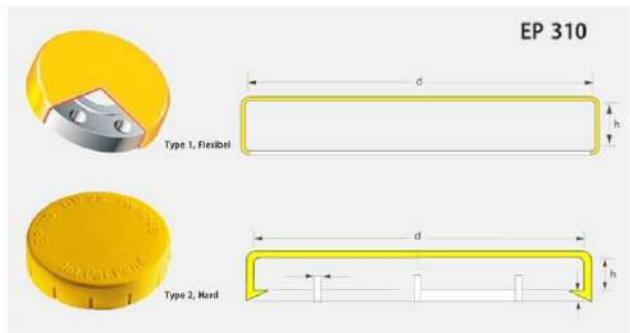
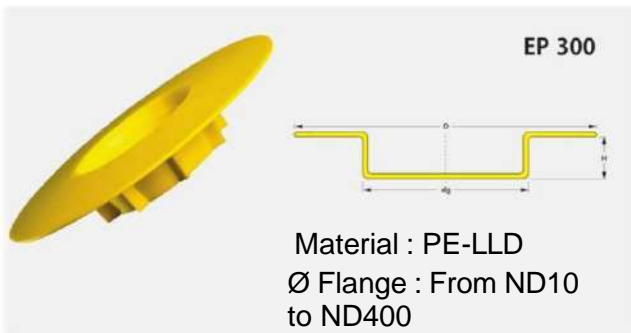
Available size:
 Ø Pipe : 32-1320mm Ø
 Sleeve: 83-2000mm
 Material : Neopren /
 silicone or NBR
 Included: fixing collar
KG type for a new
 installation
KO type for a
 restoration

FW Type



Custom made
 Material : Rotoline
 Extension at limit
 point: 400% Included
 : Stainless steel
 fixing trip

SAFETY PIPE STOPPER



13 - UNDERWATER TOOLS

Underwater tools

Tools.....	13-01 à 13-02
Drill, core drill, saw.....	13-03 à 13-04
Chainsaws, impact wrenches, grinders.....	13-05 à 13-06



UNDERWATER TOOLS

Pneumatic Tools

	ATEX Guideline 2014/34/EU	free speed rpm	Power kW	Blow per min	Drilling capacity in steel/concrete	Air consumption m ³ /min	Lenght incl drill chuck (mm)	Connection inlet/outlet (mm)	Ø Hose ID mm	Noise level dB(A)	Vibration level m/s ²	Weight Kg
HAMMER DRILL - SDS-plus shank holder												
	I12GcT6	420	0,5	3000	28/50	0,6	410	R1/2"female/ R3/8"female	≥10	93	4,5	6,6
HAMMER DRILL - SDS-max shank holder												
		250	1,5	2500	50/80	1,5	490	R1/2"female/ hose fitting	≥13	90,4	9,2	15,8
Performances with a 6 bar operating pressure												



Hydraulic Tools

	ATEX Guideline 2014/34/EU	free speed rpm	Power kW	Blow per min	Drilling capacity in steel/concrete	Air consumption m ³ /min	Lenght incl drill chuck (mm)	Connection inlet/outlet (mm)	Ø Hose ID mm	Noise level dB(A)	Vibration level m/s ²
HAMMER DRILL - SDS-plus shank											
	I12GExhIIBT5 Gb	500	1,2	4460	28/50	15-45	460	1/2" FF	92	4,5	8,2
<i>*Safety block included</i>											
HAMMER DRILL - SDS-max shank											
	I12GExhIIBT5 Gb	270	1,2	2300	50	15-45	640	1/2" FF	92	9	14
Performances with a 80 bar operating pressure											

SDS+ Drill bit					
Ø x total length mm	Use length mm	Ø x total length mm	Use length mm	Ø x total length mm	Use length mm
5x160	100	12x160	100	20x300	250
6x160	100	12x260	200	22x250	200
8x160	100	14x160	100	22x450	400
10x160	100	14x260	200	25x250	200
12x260	200	16x300	250	25x450	400

SDS Max Drill bit					
Ø x total length mm	Use length mm	Ø x total length mm	Use length mm	Ø x total length mm	Use length mm
12x340	200	20x320	200	30x320	200
12x540	400	20x520	400	32x320	200
14x340	200	22x520	400	40x320	200
14x540	400	24x320	200	40x520	400
15x340	200	24x520	400	45x520	400
16x340	200	26x320	200	50x520	400
16x540	400	30x520	400		



Available accessories

- Automatic chuck (SDS+)
- Adaptator SDS+
- Hydraulic hose
- Safety block
- Filter and lubrication
- Carrying case ...



UNDERWATER TOOLS

Hydraulic magnetic drill

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Tool holder	Drilling capacity (concrete)	Oil consumpti on l/min	Sound Level dB(A)	Vibration Level m/s ²	Weight Kg
23376016	II2GclIBT5	40-250	2,5	MT3	100	20-23	79,8	<2,5	22,5

Performances with a 140 bar operating pressure



Hydraulic core drill

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Output torque	Drilling capacity (concrete)	Oil consumpti on l/min	Lenght mm	Weight Kg
12213017	II2GExhIBT	380/900/1800	2,8	60/38/17	160	22-45	490	8,5

Performances with a 140 bar operating pressure

Pneumatic core drill

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Output torque (Nm)	Drilling capacity (concrete)	Oil consumpti on l/min	Lenght mm	Weight Kg
122130152	II2GExhIBT6Gb	400/900/1600	1,6	49/31/16	160	2,2	540	8,5
122130154	II2GExhIBT5Gb	300/700/1350	2,8	90/56/29	160	3,5	594	8,5

Performances with a 6 bar operating pressure



Pneumatic drill

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Chuck (mm)	Drilling capacity (concrete)	Air consumpti on m ³ /min	Lenght mm	Weight Kg
12213515	II2GExhIBT6Gb	1550	0,5	10	10	0,6	235	2,1
12213517	II2GExhIBT6Gb	850	0,5	13	13	0,6	245	2,3

Performances with a 6 bar operating pressure

UNDERWATER TOOLS

Pneumatic percussion drill

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Chuck (mm)	Drilling capacity (concrete)	Air consumption m ³ /min	Lenght mm	Weight Kg
12213513	II2GExhIIBT6Gb	950	0,5	13	13	0,6	300	3,3

Performances with a 6 bar operating pressure



Hydraulic sabre saw

Ref	ATEX Guideline 2014/34/EU	Speed (rpm)	Power kW	Cutting capacity (steel / wood) mm	Oil consumption l/min	Course mm	Weight Kg
1225385	II2GExhIIBT5Gb	1500	1,5	160 / 19	22-50	28	6,0

Performances with a 140 bar operating pressure



Hydraulic alternative saw

Ref	ATEX Guideline 2014/34/EU	RPM tour	Power kW	Matériau	Oil consumption l/min	Stroke (mm)	Weight Kg
1225448	II2GExhIIBT5Gb	300	2,8	Aluminum	oct-50	60	10
122544856	IM2ExhIMBT5	330	2,8	Zamac	20-50	60	10,5

Performances with a 140 bar operating pressure



Hydraulic chainsaw

Ref	ATEX Guideline 2014/34/EU	Power kW	Oil consumption l/min	useful guide length	no chain Inch	Sound level with dB(A)	Weight Kg
1006530	II2GExhIIBT5Gb	7,7	40-50	270-430-630-730-1030	0,404	86,8	10,5

Delivered without guide and chain

Performances with a 140 bar operating pressure



UNDERWATER TOOLS

Pneumatic chainsaw

Ref	ATEX Guideline 2014/34/EU	Power kW	Air consumption m3/min	useful guide length	no chain Inch	Sound level with dB(A)	Weight Kg
1006540	II2GExhII BT5Gb	3	2,9	430*	0,404	102,6	8,5

*Other lengths available, please consult us

Performances with a 6 bar operating pressure



Hydraulic impact wrenches

Ref	ATEX Guideline 94/9 EC	Square	for nut up to	max. torque Nm	Oil consumption l/min	Sound level with dB(A)	Connection	Weight Kg
54794290	II2GcT5	3/4"	M30	350 to 1700	20-40	85,3	M18x1,5	7,3
54794298	II2GcT5	1"	M30	350 to 1700	20-40	85,3	M18x1,5	7,3
54794300	II2GcT5	1"	M36	850 to 2500	25-45	99,2	3/444-16UNF-2B	10,7

Performances with a 140 bar operating pressure



Pneumatic impact wrenches

Ref	ATEX Guideline 94/9 EC	Square	For nut to	tightening torque maxi Nm	Air consumption m3/min	Noise level dB(A)	Ø flexible inside mm	Weight Kg
54794070	II2GcT6	3/4"	M30	1350	1,4	96	13	5,6
54794190	II2GcT6	1"	M30	1350	1,4	96	13	5,7

Performances with a 6 bar operating pressure



hydraulic straight grinder for heavy duty applications

Ref	Speed rpm	Power kW	Ø maxi disc mm	Noise level dB(A)	Oil Consumption l/min	Support mm	Flexible - Fitting	Weight Kg
5472755	7000	1,8	200	80,6	18	200 / M12	A250 OM/OF-1/2"BSP	8,3

Performances with a 140 bar operating pressure

UNDERWATER TOOLS

Hydraulic straight grinder

Ref	Speed rpm	Power kW	Collet	Noise level dB(A)	Oil Consumption l/min	Connection	Long mm	Weight Kg
5472760	11500	0,8	6mm	90,7	10-30	SAE No. 8 (3/4"x16UNF)	274,5	1,6
5472765	11500	0,8	1/4"	90,7	10-30	SAE No. 8 (3/4"x16UNF)	274,5	1,6
5472770	11500	0,8	8mm	90,7	10-30	SAE No. 8 (3/4"x16UNF)	274,5	1,6

Performances with a 140 bars operating pressure

Pneumatic models available, do not hesitate to consult us



Hydraulic angle grinder

Ref	Speed rpm	Power kW	Ø maxi disc mm	Noise level dB(A)	Oil Consumption l/min	Connection	Disks mm	Weight Kg
5472750	5500	1,8	125	80,6	20	M18x1.5	22,2 / M14	7,6

Performance 140 bar operating pressure



Pneumatic angle grinder

Ref	Speed rpm	Power kW	Ø maxi disc mm	Noise level dB(A)	Air consumption m3/min	Connection	Ø flexible mm	Weight Kg
5472705	11600	0,3	125	88,5	1,0	R1/4" male	10	2,5

Performances with a 140 bar operating pressure



Hydraulic vertical grinder

Ref	Speed rpm	Power kW	Ø maxi disc mm	Noise level dB(A)	Oil consumption l/min	Connection	Disks mm	Weight Kg
5472780	3600	3,5	230	98	20-45	3/4" - 16UNF	22,2 / 5/8-11UNC	5,8

Performances with a 140 bar operating pressure



Do not hesitate to consult us for all consumables and accessories

Propan heating

Propan torch, welding covers	14-01
Propan pipe heating.....	14-02



PROPAN TORCH, WELDING COVER

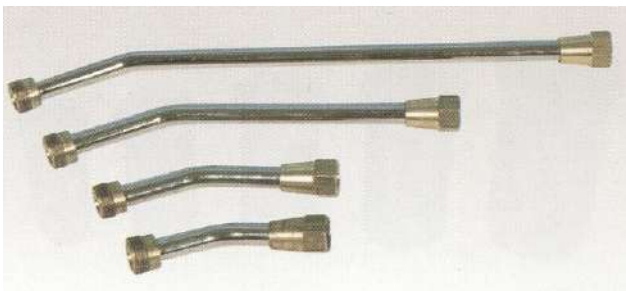
PROPAN TORCH

Propan nozzle :

30 mm/ 700 gr/h.
40 mm/ 1.9 kg/h.
50 mm/ 3.8 kg/h.
60 mm/ 9.7 kg/h.
80 mm/ 10.6 kg/h



Handle for propan torch.



Propan bend arm with different lengths :
60 mm, 100 mm, 200 mm, 350 mm, 600 mm,
750 mm, 1000 mm.

propan regulator 0-4 bar.
Capacity : 6kg/h.



propan regulator with or without
pressuregauge 0.6 bar.
Capacity : 11 kg/h



Spark lighter



1 layer with velcro



1 layer with ring



Insulator

WELDING COVER

The welding cover are designed for maintained the T° after preheating operation. The cover lenght is depending of the pipe Ø, and the width is usually 30 or 40 cm. We have the possibility to make it with 1 or 2 insulating layers. Fixing around pipe is done by rings or velcro band.

EXTERNAL PREHEATING PIPE

The external preheating pipe systems are designed for each application and \varnothing . It works with propan gas. This system is necessary for increase the T° before welding



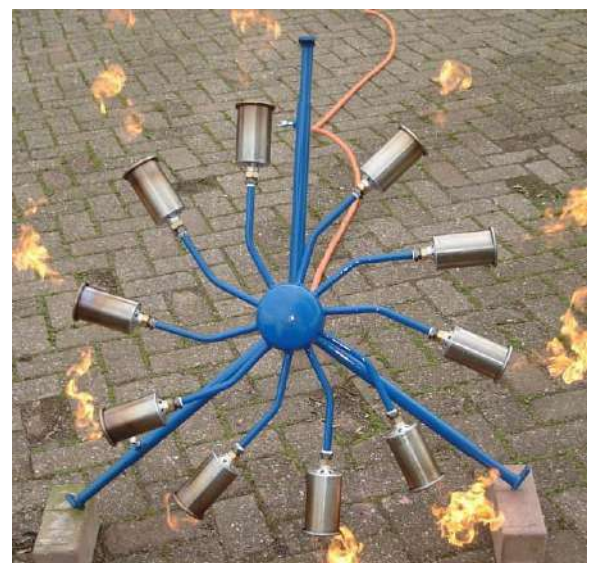
Étoile de préchauffage

46" internal preheating

INTERNAL PREHEATING PIPE

The internal preheating pipe systems are designed to cover several \varnothing . It works with propan gas. This system is necessary for increase the T° before welding.

38" internal preheating



**THE PHOTOS ABOVE ARE NON-CONTRACTUAL. FOR EXAMPLES ONLY
THE PROPOSED SOLUTIONS ARE ADAPTED ACCORDING TO YOUR SPECIFICATIONS.**

Safety equipment

Safety equipments.....	15-01
Leather equipment for welders	15-02
Welding tents	15-03



SAFETY EQUIPMENTS



Prota-shell with 51*108mm screen (fix or liftable)



Prota-shell baby 51*108mm



Leather mask



Helmet hoods with flame retardant (EN470-1). Available in leather.



Grinder helmet



Large grinder helmet



Many glasses: consult us



Aluminum protection for welding gloves



Welding gloves 3 or 5 fingers



Pipe handling gloves

Consult us for others models

LEATHER WELDERS CLOTHING



EN 470-1 certified welder's jacket in split leather with inside pocket. Sewn Kevlar thread. Insulated snap fasteners

Size M chest circumference	100 cm
L	112 cm
XL	124 cm
XXL	136 cm
XXXL	148 cm



Crust leather welding jacket

Leather welding jacket crust leather back fabric



flame-retardant cotton jacket with leather sleeve, available in flame-retardant cotton int



crust leather cuff



Crust leather welding apron



Fireproof hood with closure and velcro fastener for the mask



Crust leather electrode holder case



Crust leather pants



handle with elastic



Foldable leather welding mask

LEATHER WELDERS CLOTHING



- **Universal welding tent 2*2*2 m :**
 - o Easy installation
 - o 4m², height 2m
 - o Raining protection
- Total weight : 45kg

Welding tent model TRACK

- o System with wheels for pipe welding application
- o TRACK 24 for 6 to 24" pipes
- o TRACK 48 for 24 to 48" pipes



Yard umbrella: delivered on request with tripod legs and transport cover.

Dimension choice : 2*1.5m, 2.5*2m, 3*2m, 4*3m

Pigs, cleaning

Pipe cleaning guns	16-01
Poly Pigs	16-02 to 16-04
Flexi Pigs	16-05 to 16-06
Steel Pigs	16-07 to 16-08
Cups, discs and accessories	16-09 to 16-10



COBRA JETCLEANER



Cleaning gun for internal cleaning of pipes and hoses.
Ergonomically designed grip, weight = 0.3 kg.
Quick pig loading.
Working pressure: 6 to 7 bars.
Air hose connection: 1/4".
Pipes stopper and nozzles for hoses from 3/16" to 2"
For pipes from 6mm to 60mm external diameter

Use:
Insert a new cleaning plug into the loading position.
Press and release the lower trigger to move the plug to the firing position.
Press the gun to the hose or pipe to be cleaned.
Press the upper trigger to fire the gun.
Press the button to reset the gun.



CLASSIC JETCLEANER





« FLEXIBLE » EC TYPE JETCLEANER

Made of Polyurethane 060. they are used in tubes, pipes or exchangers.
They do not contain PVC, WFCL or silicone.
Maximum compression ratio: 50%.
Diameters from 4 to 180mm



« ABRASIVE » TYPE JETCLEANER

Made of high density Polyurethane with an abrasive tip. They are used in rusty tubes, dirty pipes or exchangers.
They do not contain PVC, WFCL or silicone.
Maximum compression ratio: 5%.
Diameters from 5 to 150mm



« GRINDING » TYPE JETCLEANER

Made of high-density Polyurethane and covered with an abrasive coating.
They are used to remove rust, scale, calamine.
Not suitable for tight bends, they are used in straight tubes or with bends with large bending radii.
They do not contain PVC, WFCL or silicone.
Maximum compression ratio: 5%.
Diameters from 5 to 150mm

POLY PIG STANDARDS

	<p><u>PU-LD-FP (Low Density Plain Foam Pig) : 25 kg/m3</u></p> <p>The soft foam pig is mostly used for frequent wiping or for air-drying after hydrostatic testing. It has excellent water absorption properties and is provided with a strong polyurethane back-seal in natural colour. It will go through diameter reductions up to 50%.</p>
	<p><u>PU-MD-PL (Medium Density Plain Foam Pig) : 85 kg/m3.</u></p> <p>It is mostly used for regular on-stream wiping, as well as de-watering of pipelines. It will go through diameter reductions up to 20%.</p> <p><u>PU-HD-PL (High Density Plain Foam Pig) :110 kg/m3.</u></p> <p>It is strong and mostly used for regular on-stream pigging, as well as cleaning and dewatering of pipelines. It will go through diameter reductions up to 15%</p> <p><u>Application:</u> filling, hydrostatic testing or routine pipe cleaning.</p>
	<p><u>PU-MD-CC (Medium Density Criss-Cross Foam Pig)/PU-HD-CC (High Density Criss-Cross Foam Pig): 85 or 110 kg/m3.</u></p> <p>It is provided with a criss-cross pattern of tough, low-wear polyurethane scraping bands. These bands generate effective pipe wall cleaning. Both the nose and the bottom are coated with elastomer -which makes the pig appropriate for heavy dust or debris removal</p> <p><u>Application:</u> long-distance pipelines, hydrostatic tests. Allows passing short-radius bends.</p>
	<p><u>PU-HD-LR (High Density Long-Run Foam Pig): 110 kg/m3.</u></p> <p>It is completely covered with low-wear polyurethane elastomer. It is used both for pipeline cleaning and for hydrostatic testing and provides optimal seal. It will go through diameter reductions up to 10%. *</p> <p><u>PU-MD-LR (Medium Density Long-Run Foam Pig): 85 kg/m3.</u></p> <p>Same as PU-HD-LR but for shorter runs.</p> <p><u>Application:</u> long-range pipe cleaning, hydrostatic testing and product separation.</p>
	<p><u>PU-HD-AC (High Density Abrasive Coated Foam Pig): 110 kg/m3.</u></p> <p>It is provided with helical bands of heavily impregnated carbo-rundum. These bands generate a severe scraping effect. It is most appropriate for removal of rust and all sorts of scale and debris.</p> <p><u>Application:</u> for the cleaning of rusty pipes or the removal of all types of deposits and debris.</p>

	<p>PU-HD-SW (High Density Wire Brush Foam Pig): 110 kg/m3</p> <p>It is provided with helical bands of flame hardened carbon steel brushes. The wire-brush is set with angle to increase cleaning effect. These brushes generate a pipe wall cleaning and scrap-ing effect and will remove scale, rust and sediments. It will go through diameter reductions up to 10%. It is also available with stainless steel or plastic brushes</p> <p><u>Application:</u> intensive pipe cleaning (sediments, rust deposits...)</p>
	<p>PU-HD-TW (High Density Total Wire Brush Foam Pig): 110 kg/m3</p> <p>It is completely coated with steel brushes –which makes it the most heavy duty cleaning pig available. It will go through 3D radius bends and diameter reductions up to 5%</p> <p><u>Application:</u> cleaning of rusted and algae-encrusted pipes.</p>

ON REQUEST



Double Nose Foam Pig

It has a conical nose on both sides for reverse flow operation.



Double Disc Foam Pig

Both sides are concave for hydrostatic tests, for instance.

Food Pig :

it is composed of a one-piece moulding and can be supplied with or without signal magnet. In order to avoid bacterial contamination, it is completely seamless.

As standard, it is delivered in special grade polyurethane or silicone and is FDA approved. Alternative materials are available on request.

The Food Pig will give excellent seal in all pipeline configurations and will go through 1.5D radius bends without effort

ND	Ø (mm)	Lengt (mm)	Weight (kg)
1½"	36	59	0,06
2"	51	76	0,14
2½"	62	90	0,23
2½" sch10	68	100	0,26
3"	74	110	0,32
3" sch10	84	110	0,37
4"	101	147	0,78
5"	126	151	1,07



WEIGHT & DIMENSIONS

Type	FP		PP		CC		LR		SA		SW		TW	
Ø	Ø x L (mm)	kg	Ø x L (mm)	kg	Ø x L (mm)	kg	Ø x L (mm)	kg	Ø x L (mm)	kg	Ø x L (mm)	kg	Ø x L (mm)	kg
2"	75x150	0,02	60x155	0,04	60x155	0,13	60x155	0,05	62x155	0,14	60x155	0,22	60x155	0,38
2½"	90x200	0,03	75x155	0,06	75x155	0,17	75x155	0,08	77x155	0,19	75x155	0,28	75x155	0,48
3"	100x220	0,04	85x155	0,08	85x155	0,22	85x155	0,1	87x155	0,24	85x155	0,35	85x155	0,57
4"	130x250	0,08	110x195	0,16	110x195	0,34	110x195	0,2	112x195	0,40	110x195	0,58	110x195	0,9
5"	150x275	0,12	125x220	0,23	125x220	0,46	135x220	0,3	127x220	0,54	125x220	0,77	125x220	1,2
6"	190x300	0,21	168x266	0,5	168x266	0,8	168x266	0,7	170x266	1	168x266	1,3	168x266	2
7"	200x320	0,25	177x280	0,59	177x280	1,0	177x280	0,8	179x280	1,16	177x280	1,5	177x280	2,4
8"	230x360	0,37	215x330	1	215x330	1,5	215x330	1,4	217x330	1,9	215x330	2,4	215x330	3,6
10"	290x430	0,71	270x415	2	270x415	2,8	270x415	2,75	272x415	3,5	270x415	4,4	270x415	6,3
12"	350x450	1,1	321x510	3,5	321x510	4,7	321x510	4,8	323x510	5,9	321x510	7,2	321x510	10
14"	400x600	1,9	348x530	4,3	348x530	5,8	348x530	5,8	350x530	7,3	348x530	8,8	348x530	11,9
16"	450x700	2,8	410x595	6,7	410x595	9,6	410x595	9	412x595	12	410x595	14	410x595	18
18"	520x750	4,0	455x660	9,2	463x660	11,6	463x660	12,5	459x660	14,8	463x660	17	463x660	22
20"	570x800	5,0	505x760	13	513x760	16	513x760	17,5	509x760	20,5	513x760	23	513x760	30
22"	620x850	6,5	555x810	16,7	563x810	20	563x810	23	559x810	26	563x810	30	563x810	37
24"	670x900	8	605x880	21,5	613x880	26	613x880	29	609x880	33	613x880	37	613x880	46
26"	730x1100	12	665x990	29,3	673x990	34	673x990	40	669x990	44	673x990	50	673x990	61
28"	770x1100	13	710x945	32	718x945	38	718x945	43	714x945	49	718x945	55	718x945	66
30"	820x1150	15	760x1130	44	768x1130	52	768x1130	59	764x1130	67	768x1130	75	768x1130	89
32"	880x1250	19	810x1170	52	818x1170	60	818x1170	70	814x1170	78	818x1170	86	818x1170	100
34"	930x1300	22	855x1340	66	863x1340	74	863x1340	89	859x1340	98	863x1340	105	863x1340	125
36"	980x1350	26	910x1370	76	918x1370	85	918x1370	103	914x1370	112	918x1370	120	918x1370	140
38"	1030x1400	19	960x1370	85	968x1370	94	968x1370	114	964x1370	123	968x1370	130	968x1370	155
40"	1080x1540	35	1010x1470	100	1018x1470	113	1018x1470	136	1014x1470	148	1018x1470	160	1018x1470	185
42"	1120x1680	41	1060x1580	120	1068x1580	131	1068x1580	160	1064x1580	173	1068x1580	185	1068x1580	215
44"	1190x1680	47	1120x1640	138	1128x1640	151	1128x1640	185	1124x1640	200	1128x1640	215	1128x1640	245
46"	1240x1680	51	1160x1720	155	1168x1720	170	1168x1720	210	1164x1720	224	1168x1720	240	1168x1720	275
48"	1300x1800	60	1220x1760	175	1228x1760	191	1228x1760	236	1224x1760	253	1228x1760	270	1228x1760	305
56"	1500x2240	99	1420x2100	285	1430x2100	304	1430x2100	382	1424x2100	404	1430x2100	425	1430x2100	480
64"	1700x2520	145	1620x2600	460	1630x2600	485	1630x2600	615	1624x2600	645	1630x2600	680	1630x2600	750

Standard dimensions. Standard deviation + / - 2%.

Special dimensions available on request.

CONDITIONS OF USE

Type	Application	Speed (m/s)	Distance maxi*	Bending radius mini
FP	Drying	1 - 4	45 km	1,5 D
PP	Wiping-filling	1 - 4	90 km	1,5 D
CC	Cleaning and filling	1 - 4	90 km	1,5 D
LR	Cleaning - test	1 - 4	90 km	1,5 D
SA	Cleaning	1 - 4	90 km	1,5 D
SW	Difficult cleaning	2 - 5	90 km	1,5 D
TW	Difficult cleaning	2 - 5	90 km	1,5 D

* The range strongly depends on circumstances, such as: pipeline condition (new/old; coated/uncoated), service (dry/wet), temperature, chemicals (water, crude, gas), pressure, diameter, etc...

No-contractual data.



The pig is completely made up of polyurethane. It is composed of a flexible body shaft and cups or discs held in place by polyurethane spacers. It is a real multi-purpose pig as all parts are fully exchangeable and can easily be replaced.

The same pig can be converted from a cleaning pig to a bidirectional pig for hydrostatic tests quickly and without effort.

Flexi Pigs are available from 2" to 24".

Caution: The pressure difference between the front pressure of the scraper and the rear pressure must not exceed 5 bar.



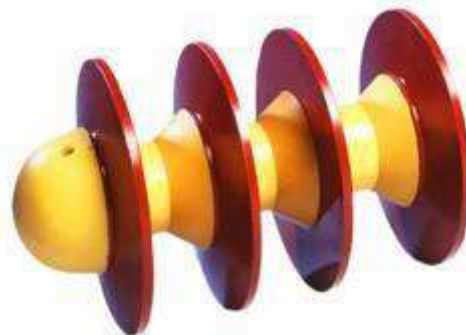
Flexible Batching Pig with 2, 3 or 4 cups



Flexible **cleaning** pig with steel, stainless/carbon steel or plastic brushes (2 or 3 brushes and cups).



Flexible gauging pig with an aluminum or steel gauging plate and 2 or 3 cups.

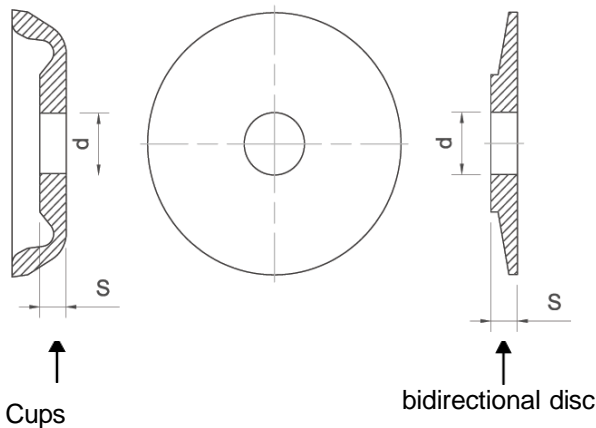


Flexible **bidirectional** pig with 2, 3 or 4 polyurethane discs. It's efficient in both ways. Option: a gauging plate or brushes can be provided.

FLEXI PIGS

ND	Total (mm)	Flexible batching pigs		Flexible Bidirectional pigs		Flexible cleaning Pigs		Flexible Gauging Pigs	
		3 cups weight (kg)	4 cups weight (kg)	2 disques poids (kg)	4 discs weight (kg)	2 brushes weight (kg)	4 brushes weight (kg)	2 cups weight (kg)	4 cups weight (kg)
2"	130	0,35	0,40	0,35	0,45	0,60	0,91	0,40	0,45
3"	185	0,55	0,60	0,50	0,65	0,90	1,50	0,60	0,65
4"	210	0,80	1,00	0,70	0,90	1,10	5,50	0,80	1,00
6"	325	3,00	3,40	2,90	3,20	4,00	9,50	3,00	3,40
8"	395	5,00	6,00	4,60	5,20	7,00	15,00	5,00	6,00
10"	490	9,20	11,00	8,50	9,40	11,00	21,00	9,00	11,00
12"	555	12,80	15,40	11,00	11,90	15,00	31,50	12,00	15,00
14"	620	19,80	23,00	17,10	19,20	24,00	39,00	18,00	23,00
16"	690	25,60	31,50	23,60	27,10	29,00	39,00	25,00	31,00
18"	810	41,00	48,00	36,50	39,00	-	-	40,00	47,00
20"	870	48,00	58,00	43,30	46,30	-	-	45,00	55,00
22"	920	58,00	60,00	51,00	54,00	-	-	55,00	60,00
24"	1035	70,00	85,00	58,00	65,00	-	-	65,00	80,00

STANDARD BIDIRECTIONAL DISCS STANDARD CUPS FOR STANDARD AND FLEXIBLE PIGS FROM 2" TO 16" STANDARD



standard polyurethane cups				
ND	Ø outside (mm)	Thicknes s (mm)	Ø bore hole (mm)	Weight (kg)
2"	57	8	14	0,02
3"	84	10	20	0,04
4"	110	12	27	0,1
5"	125	12	27	0,3
6"	165	20	49	0,7
8"	214	22	49	1,4
10"	267	25	61	2,3
12"	318	28	61	3,2
14"	351	31	77	5
16"	405	35	77	6,5

Standard bidirectional disc					
ND	Ø disc (mm)	Ø bore hole (mm) - d	Thickness (mm)	End thickness (mm) - s	Weight (kg)
2"	59	14	8	2	0,02
3"	88,5	20	10	2,5	0,04
4"	108	27	12	3,5	0,07
5"	126,5	27	12	3,5	0,09
6"	166	49	20	6	0,25
8"	210	49	22	7	0,52
10"	263	61	25	8	0,95
12"	315	61	28,5	9	1,37
16"	407	76,5	35	12,5	3,66

These discs and cups can be provided with flexible or standard pigs without flange system from 2" to 16". They are only bored in the middle

STEEL BODY PIGS

Standard Pigs are available up to 4" in single bolt. Then from 6" to 16" and from 18" to 56" -models with flanges. They are equipped with a steel body. They are composed with a steel body that can be supplied with cups, discs, brushes, gauging plates, magnets or any other accessories required



6" à 16"

The Standard **Batching** Pig is used to **separate** substances and to drive out the possible impurities. The polyurethane cups guarantee a maximum sealing.



18" à 56"



The Standard **Gauging** Pig is equipped with a gauging plate to locate the bumps and defects of the internal surface of the pipe.



The Standard **Cleaning** Pig is equipped with wire brushes to remove dirt and rust. Small sizes (from 2" to 16") are equipped with a circular metal brush. Bigger sizes are equipped with brushes assembled on springs.



The Standard Bidirectional Pig is equipped with discs out of polyurethane and of bumper at its ends. It is efficient in both directions. The discs guarantee a sealing and an optimal flexibility. This pig can be equipped with brushes and still preserves its capacities

CAUTION: the pressure difference between the front and the back of the pig should not exceed 5 bars

WEIGHT & DIMENSIONS

Steel body pigs with cups				
ND	Lenght (mm)	4 cups	2 cups 2 brushes	2 cups 1 gauge plate
Weight (kg)				
6"	290	3,2	4	3
8"	340	5,1	6,3	4
10"	415	9,3	9,8	7,3
12"	470	12,8	14	9,4
14"	535	19,6	20	14,6
16"	585	25	25	19
18"	600	58	57	40
20"	650	82	79	54
22"	700	101	93	66
24"	760	115	104	78
26"	815	136	124	95
28"	870	156	139	111
30"	930	184	161	132
32"	960	203	181	149
34"	1020	246	257	227
36"	1085	278	285	258
38"	1120	309	312	289
40"	1170	349	349	329
42"	1220	369	377	351
44"	1270	416	421	400
46"	1340	451	452	436
48"	1400	492	488	477
56"	1630	695	673	676

Bidirectional steel body pigs			
ND	Lenght (mm)	4 discs	4 discs 2 brushes
Weight (kg)			
6"	295	3,1	3,9
8"	349	4,3	5,5
10"	430	7,7	8,2
12"	495	9,3	12
14"	547	15,8	17,5
16"	600	20,6	22
18"	608	60	62
20"	658	90	88
22"	716	114	105
24"	766	127	117
26"	824	151	141
28"	874	171	157
30"	942	209	186
32"	992	225	206
34"	1050	280	271
36"	1100	313	299
38"	1154	352	331
40"	1204	393	398
42"	1262	430	407
44"	1312	482	455
46"	1370	527	491
48"	1420	561	521
56"	1640	761	701

CONDITIONS OF USE

Type	Application	Speed (m/s)	Range maxi*	Mini. Bend Radius
Cup	Watering-Dewatering	1 to 5	240 km	3D from 2" to 8" and 1,5D from 10"
Cup and Brush	Cleaning	2 to 7	240 km	3D from 2" to 8" and 1,5D from 10"
Cup and Gauging Plate	Gauging	2 to 5	240 km	3D from 2" to 8" and 1,5D from 10"
Bidirectionnal Disc	Test	1 to 5	240 km	3D from 2" to 8" and 1,5D from 10"
Bidirectionnal Disc and Brush	Cleaning	2 to 7	240 km	3D from 2" to 8" and 1,5D from 10"
Disc and Gauging Plate	Gauging	2 à 5	240 km	3D from 2" to 8" and 1,5D from 10"

* The range strongly depends on circumstances, such as: pipeline condition (new/old; coated/uncoated), service (dry/wet), temperature, chemicals (water, crude, gas), pressure, diameter, etc...

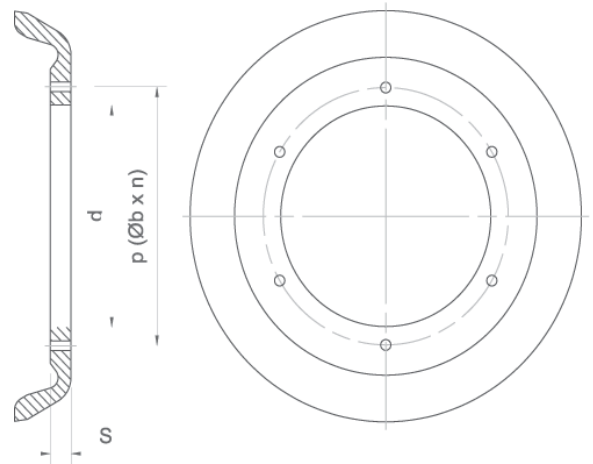
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CUPS FOR STEEL BODY PIG FROM 16"

Standard Polyuréthane cup				
ND	Ø Outside (mm)	Thickness (mm)	Bore hole (mm)	Ø Bore hole and quantity
16"	405	35	170	6 x M12
18"	456	35	180	6 x M12
20"	507	35	180	6 x M12
22"	557	35	230	6 x M16
24"	608	37	275	6 x M16
26"	662	38	330	8 x M16
28"	705	40	362	8 x M16
30"	760	40	412	8 x M16
32"	712	40	465	8 x M16
34"	760	40	515	10 x M16
36"	910	40	562	10 x M16
38"	960	40	615	10 x M16
40"	1016	40	665	12 x M16
42"	1064	40	715	12 x M16
44"	1130	40	768	14 x M16
46"	1170	40	820	14 x M16
48"	1230	40	870	16 x M16
56"	1425	60	1000	16 x M16

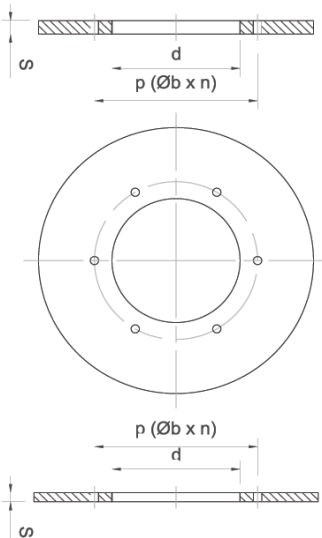
Standard cups are made of dark red polyurethane. Their hardness is 80 shore and their elasticity is 38 MN/m².

These cups are to be assembled with standard pigs with flanges from 16" to 56"



Bidirectional discs are made of dark red polyurethane. Guiding discs hardness is 85 shore and their elasticity is 40 MN/ m² –70 shore and 35 MN/ m² for waterproof discs.

These discs are to be assembled with standard pigs with flanges from 16" to 56".



ND	Standard bidirectional polyuréthane disc		Bore hole (mm)	Ø Bore hole and quantity		
	Guiding disc	Waterproof disc				
	Ø outside (mm)	Thickness (mm)	Ø outside (mm)	Thickness (mm)		
16"	390	25	406	15	170	6 x M12
18"	441	30	457	20	180	6 x M12
20"	492	30	508	20	180	6 x M12
22"	540	30	560	20	230	6 x M16
24"	590	30	610	20	275	6 x M16
26"	640	40	660	25	330	8 x M16
28"	690	40	711	25	362	8 x M16
30"	740	40	765	25	412	8 x M16
32"	790	40	812	25	465	8 x M16
34"	840	40	864	25	515	10 x M16
36"	890	45	915	30	562	10 x M16
38"	940	45	965	30	615	10 x M16
40"	995	45	1020	30	665	12 x M16
42"	1040	45	1070	30	715	12 x M16
44"	1095	45	1120	30	768	14 x M16
46"	1140	45	1170	30	820	14 x M16
48"	1195	50	1220	35	870	16 x M16

ACCESSORIES



Circular or spring-loaded carbon steel, stainless steel, or plastic brushes.



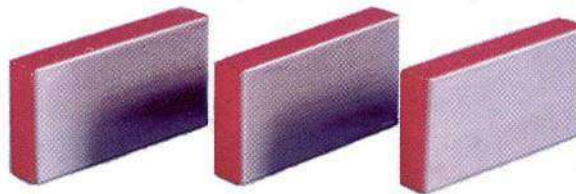
Calibration plate in aluminum, mild steel or stainless steel.



Stop plug



Lots of cups and discs



Cleaning magnets for steel depots



Intensive cleaning disc

PIG LOCATION EQUIPMENT

Transmitter specifications:

The transmitter is mounted on the pig. Low frequency electromagnetic signals allow pig location with an accuracy of 0.5 m. Its operating time is up to 500 hours (2000 on request). It can operate in oil, gas and water. It is waterproof and designed for 100 bars operations or more.

Transmitter reference	Ø pipes	Autonomy	Weight
4283500	3"-6"	80 hours	1 kg
4283510	8"-18"	175 hours	2,5 kg
4283520	20"-64"	250 hours	14 kg



Receiver specifications :

Programmable for several transmitters. Sound and visual signals on LCD screen. T° of use between -15°C and +70°C. Designed in a shock-proof case which protects against moisture. Weight 4.8 kg or 8kg with carrying box. Reference: 4283490

PIPELINES SPHERES



Spheres are in neoprene, nitrile or polyurethane, which covers applications both in chemicals and operating temperature. Solid spheres are available from 1.5" to 4", and inflatable spheres from 4" to 42". They go through short bends, tees and full-opening conduit valves. Accessories: filling pumps, sizing adapters and sizing rings.

Repair

Norma pipes connectors	17-01
Plidco Split+Sleeve	17-02
Plidco divers	17-03



NORMA PIPES CONNECTORS

FOR JOINING AND REPAIR



Now, to connect together metal and/or plastic pipes with or without tensile stress, we put at your disposal the NORMA range of pipes connectors.



To install NORMACONNECT® REP E (jØ max. 170) apply it to the damaged pipe with the pipe clamp and observe the installation instructions

Insert the 2 centering pins of the collet into the holes provided for this purpose on the connectors. Close the chuck

The fitting is positioned so that the fixing bolts can be easily inserted.

When installing NORMACONNECT® REP E (from 180), apply it to the damaged pipe with the clamping strap, observing the installation instructions

Insert the guide shoe of the tensioning belt into the hole (bolt side) and then the traction hook into the opposite hole. Operate the lever. The connector is positioned so that the fastening bolts can be inserted easily.

NORMACONNECT® GRIP E

materials:

Ø ext. (mm)	Range Ø (mm)	ND		Pressure (bar)	
		mm	Inch	PN	WP
26.9	26.4 - 27.5	20	3/4"	16	70
33.7	33.0 - 34.3	25	1"	16	60
42.4	41.7 - 43.0	32	1" 1/4	16	50
48.3	47.6 - 50,5	40	1" 1/2	16	50
60.3	59.5 - 61.0	50	2"	16	40
76.1	75.2 - 77.0	65	2" 1/2	16	35
88.9	87,0 - 89,9	80	3"	16	35
114.3	113.0-115.5	100	4"	16	35
139.7	138.1-141.6	125	5"	16	32
168.3	166.5-170.1	150	6"	16	32
219.1	216 - 221	200	8"	10	20
273.0	270 - 275	250	10"	5,5	13
323.9	320 - 327	300	12"	3	9,5
355.6	352 - 359	350	14"	2,5	8,5
406.4	402 - 410	400	16"	2,5	7
457.2	454 - 459	450	18"	2,5	6
508.0	505 - 510	500	20"	2	4

3 available

W2
(galvanized nuts and bolts and 304 stainless steel structure)

W4
(all stainless steel 304)

W5
(all stainless steel 316)

2 gaskets
availables :
EPDM or
NITRILE

NORMACONNECT® REP E

Ø ext. (mm)	Range Ø (mm)	ND		Pressure (bar)	
		mm	Inch	PN	WP
42.4	41.7 - 43.0	32	1" 1/4	16	50
48.3	47.6 - 50,5	40	1" 1/2	16	50
60.3	59.5 - 61.0	50	2"	16	40
88.9	87,0 - 89,9	80	3"	16	35
114.3	113.0-115.5	100	4"	16	35
139.7	138.1-141.6	125	5"	16	32
168.3	166.5-170.1	150	6"	16	32
219.1	216 - 221	200	8"	13,5	23
273.0	270 - 275	250	10"	12	20
323.9	320 - 327	300	12"	9	17,5
355.6	352 - 359	350	14"	9	15
406.4	402 - 410	400	16"	7,5	14
457.2	454 - 459	450	18"	5,5	12
508.0	505 - 510	500	20"	5,5	11
609.6	606 - 613	600	24"	4,5	9
711.2	707 - 715	700	28"	4	7

PERMANENT OR TEMPORARY PIPE REPAIR

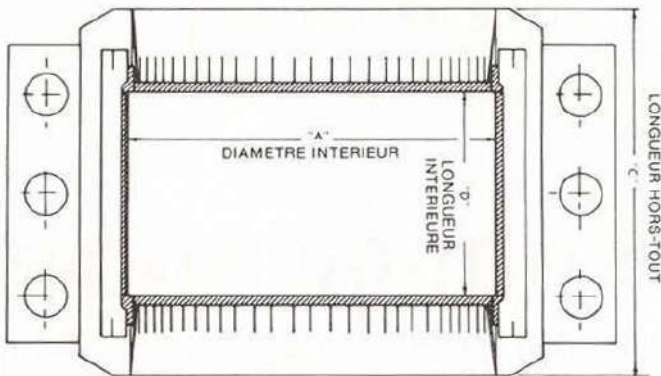
PLIDCO SPLIT+SLEEVE repair sleeves are commonly used for permanent repairs of Onshore and Offshore steel pipelines. They are used on low and high pressure steel pipes carrying oil, gas, steam, chemicals (to be specified) or water. Their unique design allows them to be installed on pressurized pipelines. (Also specify the service T° and max T°).

The internal jaws prevent movement of the sleeve during installation. After tightening the nuts, the sleeve can be welded to the pipe for permanent installation.

PLIDCO couplings can also be used for connecting pipe ends in a special version.

Standard operating pressure: 68.95 bar. The couplings have been tested to 1.5 times their working pressure and are available from 1½" to 48". Higher working pressure and length couplings are available upon request.

Standard gasket in BUNA N. Optional: Operating pressure 1500 PSI - 105 Bars.



SLIT+SLEEVE Specifications, Standard Length Operating Pressure 1000 PSI (68.95 Bar)				
Pipe size in "	Ø ins. "A"	length between gaskets « D »	Length overall "C"	Approx weight (kg)
1-½	3"-1/8	5"-1/2	9"	11,7
2	3"-1/8	5"-3/4	9"	10,4
2-½	3"3/8	5"-1/4	8½"	15,3
3	4	5"-1/4	8½"	15,3
4	5	5"-1/4	8½"	18,9
5	6"-1/16	5"-1/4	8½"	38,3
6	7"-1/8	5"-1/4	9"	27,9
7	7"-1/2	5"-1/4	10"	54,0
8	9"-1/8	5"-1/4	10"	56,3
10	11"-1/4	5"-1/2	10½"	66,2
12	13"-1/4	5"-1/2	10½"	103,5
14	14"-1/2	8"	14"	173,3
16	16"-1/2	8"	14"	189,0
18	18"-1/2	8"	14"	249,8
20	20"-1/2	8"	14"	261,0
22	22"-1/2	8"	14"	285,8
24	24"-1/2	8"	14"	306,0
26	26"-1/2	8"	14"	389,3
28	28"-1/2	8"	14"	418,5
30	30"-1/2	8"	14"	445,5
32	32"-1/2	8"	14"	461,3
34	34"-1/2	8"	14"	540,0
36	36"-1/2	8"	14¼"	603,0
38	38"-1/2	8"	14¼"	632,3
40	40"-1/2	8"	14¼"	650,3
42	42"-1/2	8"	14¼"	819,0
48	48"-1/2	8"	14¼"	999,0

REPAIR AND CONNECTION SOLUTIONS FOR SHAPED PARTS AND PIPE ACCESSORIES.



Flange repair ring: they are fits over leaking flange, stud/nuts down to create a seal around the circumference. Range : 1½" to 12" 150lb ANSI through 600lb ANSI.



Smith and clamp: needle repair collar



Split + Repair Ell: repair sleeve for elbow



Flange: temporary or permanent connection sleeve



Weld ends: temporary or permanent connection sleeve



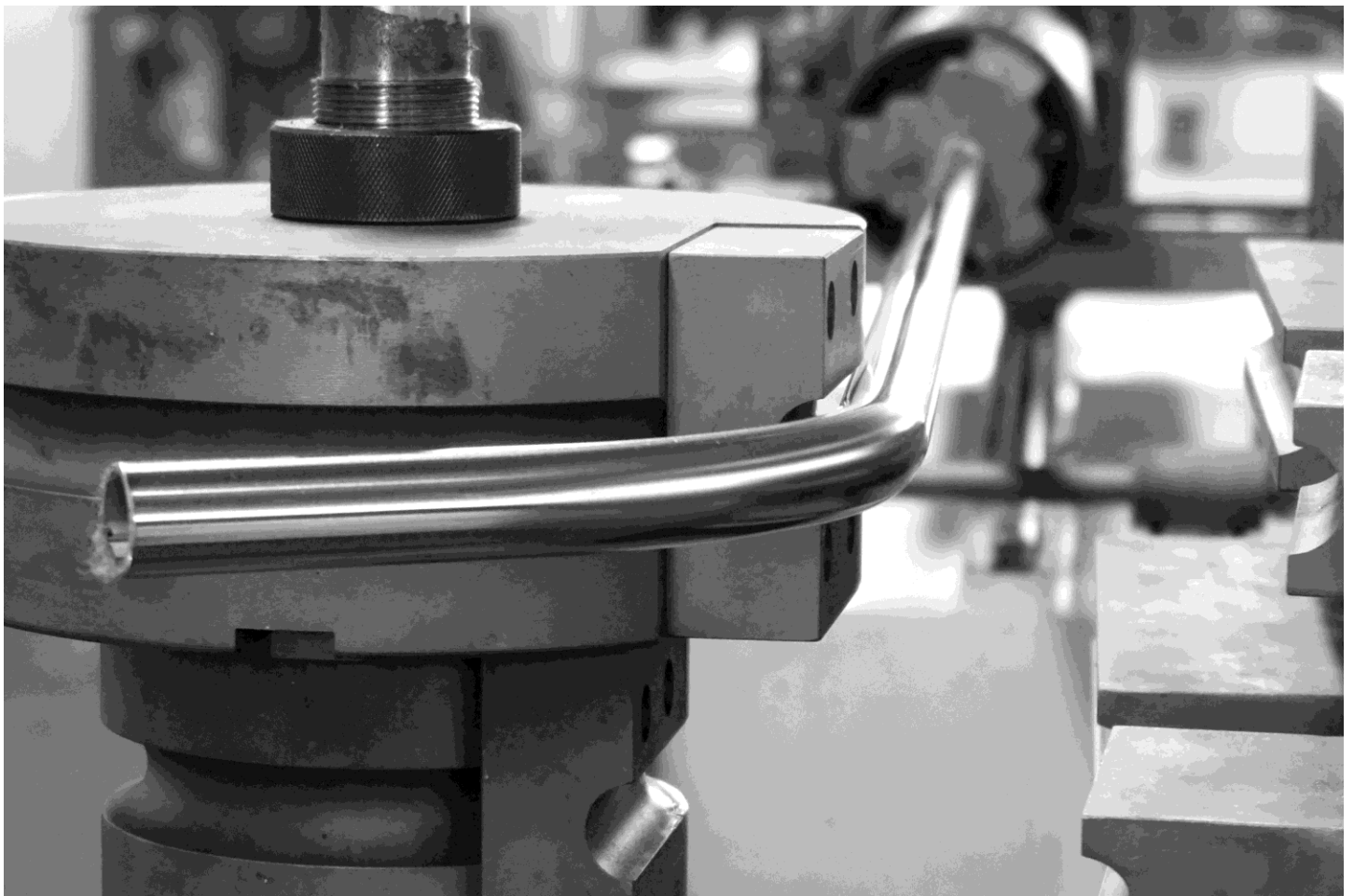
Sleeves and connecting elements or special repairs on request



Hot tapping saddle: T-connection sleeve.

Piping

TUBE EXPANDERS	18-01
Bending machines	18-02
PIPE and TUBE Fittings	18-03



MECHANICAL CRIMPING OF THE PIPES OR EXPANSION OF THE PIPES

Expanders are used to assemble boiler exchanger tubes to the plates.

The principle consists in realizing a fast connection between tubes and tube plate by deforming the tube at its end with the help of an expander.

Application: heat exchanger in thermal and nuclear power plants, refineries, petrochemical plants, ...

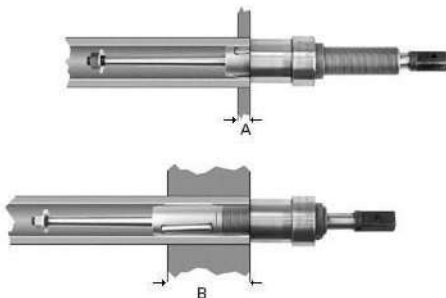
CH 8012



TTR 800



CH 800



For any request, please let us know the exact inner \varnothing of the tube as well as the desired engagement length.

Many models of pneumatic expanders are available. They are equipped with a torque adjustment for precise expansion.

Automatic stop of the expansion according to the applied settings.

Aluminum structure for increased user comfort.

PNEUMATIC EXPANDER



HYDRAULIC PIPE EXTRACTOR

Hydraulic extractor for 5/8" exchanger tube to 1 1/4".

2 models 7T (9kg) or 11T (13kg) at 700 bars



BENDING MACHINES

Electrical or pneumatic hand bending machine for pipes from 3/8" to '8" .



LOKRING FITTING, FOR PIPE AND TURBING APPLICATIONS

The Lokring system allows the assembly and maintenance of seamless piping assemblies from DN8 to DN80, thanks to a standard range of carbon steel, stainless steel and copper-nickel alloy fittings.

Designed to withstand pressures from 270 to 521 bars from -29 to 343°C for carbon steel fittings, and from 115 to 344 bars from -50 to 425°C for stainless steel fittings. The Lokring range of fittings has been tested and qualified to the following standards: **ANSI/ASME B31-1 B31-3 B31-5.**

Lokring is used on various fluid and gas processes in the chemical, petrochemical, pharmaceutical, automotive, marine and paper industries.

Available standard in reducer configurations, T, 45° elbows, 90° elbows, and ANSI flange, for sizes DN8 to DN80, Schedule 10 to 80.



DN Pipe	SS40 Series 316L Fittings	MAS-3000 Series Carbon Steel Fittings	Tools Kit
8	SS40-xxx-P04	MAS-3000-xxx-P04	ITK20
10	SS40-xxx-P06	MAS-3000-xxx-P06	ITK20
15	SS40-xxx-P08	MAS-3000-xxx-P08	MTK45
20	SS40-xxx-P12	MAS-3000-xxx-P12	MTK45
25	SS40-xxx-P16	MAS-3000-xxx-P16	MTK45
32	SS40-xxx-P20	MAS-3000-xxx-P20	MTK60
40	SS40-xxx-P24	MAS-3000-xxx-P24	MTK60
50	SS40-xxx-P32	MAS-3000-xxx-P32	MTK60
80	SS40-xxx-P48	MAS-3000-xxx-P48	MTK60

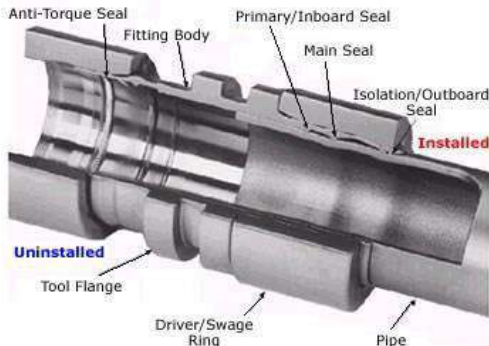
Installation and tracing.



Tightening the fitting.



Connected piping.



Please contact us for detailed technical documentation