

SPECIFICATIONS:

This stainless steel restrain clamp is used for prevent a pipe connection to disconnect. Available in all different diameters upon request.

Thread protection Bolts

- Plastic caps to protect the thread.
- Stainless steel AISI 304 (A2); M16 (metric thread according DIN267). Thread is PTFE (Telfon™) coated to prevent galling.

Lifterbar Nuts

- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
- Stainless steel AISI 304 (A2). Size M16 according DIN934. Extra yellow passivated to optimize free running.

Body Shell

- Stainless steel AISI 304 (A2).

Grip

- The inside of the Body shell is covered with a special heavy duty grip product.

Sidebar

- Stainless steel AISI 304.

Guide finger

- Stainless steel AISI 304, Guide fingers keep the bolts in position.

Additional

- After welding all stainless steel parts are passivated to obtain a high corrosion resistance.



An other solution in the same field is this custom made single part restrain clamp that is used for fixing all different brand of flange adaptors. All sizes are available upon request.



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DESCRIPTION:

This Easy to handle repair kit consists of 9 repair clamps. With this small box you can make repairs on any size of pipe varying between OD. 60 and OD. 170mm.

WORKING PRESSURE:

Pipe OD	working pressure (bar)	
	WATER	GAS
60 - 95	20	5
106 - 170	16	4

SPECIFICATIONS:

Bolts	- Stainless steel AISI 304 (A2); M14 (metric thread according DIN267). Thread is PTFE (Teflon™) coated to prevent galling.
Armour plate	- Stainless steel AISI 304, vulcanised into the gasket.
Gasket	- NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends.
Clamp width	- 200 mm.
Total weight box	- < 22 kg
Box dimensions	- 600 x 400 x 230 mm

Section	DN	Inch	Cast-Iron	Iron	Iron ISO-norm	PVC	Asbestos cement pipes, DIN 19800				
							PN 2,5	PN 6	PN 10	PN 12,5	PN 16
10	50	2	66	60,3	-	63	-	-	-	-	-
11	60	-	77	70	-	-	-	-	-	-	-
11	65	2 1/2	-	76,1	-	75	-	-	-	-	-
12	65	2 1/2	82	-	-	-	-	-	83	85	-
12	70	-	87	-	-	-	-	-	-	-	-
13	80	3	98	88,9	-	90	-	-	98	-	-
14	80	3	-	-	-	-	-	-	100	104	-
14	90	-	108	101,6	-	-	-	-	-	-	-
15	100	4	118	108	114,3	110	-	-	-	-	-
16	100	4	-	-	-	-	-	118	120	124	130
17	125	-	144	133	139,7	140	-	-	-	-	-
18	125	-	-	-	-	-	-	-	-	-	159
18	150	6	170	159	168,3	160	168	-	-	-	-

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DESCRIPTION:

This repair kit consists of **20** pieces of repair clamps and a number of spanner plates. With this stock, you can make multiple repairs on any size of pipe from **48 -359mm.** in diameter. The principle of this stock is that with two clamps from one size, you can make one clamp of the double size and so on. **Length is 300 mm.**

In this way, a clamp can be used alone, or hooked up to another clamp as a "double band" clamp, or even as a "triple band".

WORKING PRESSURE:

Due to the use of different number of sections and pipe diameters, the working pressure varies. the table below can therefore only be used as a guideline.

Pipe OD	working pressure (bar)	
	WATER	Working pressure (bar) GAS
48 - 95	16	5
88 - 282	16	4
282 - 359	10	3

SPECIFICATIONS:

- Bolts:** Stainless steel AISI 304 (A2); M14 (metric thread according DIN267). Thread is PTFE (Telfon™) coated to prevent galling. Stainless steel AISI 304, to be positioned afterwards.
- Armour plate:** 304, to be positioned afterwards.
- Gasket:** NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends.
- Clamp width:** 300 mm.

RANGE	SECTIONS	SPANNER-PLATE
48-52	1	D
54-58	2	D
60-67	3	E
70-77	4	E
83-89	5	G
89-98	6	G
102-112	7	I
106-126	1+1	2xH
112-132	2+1	2xl
118-128	8	I
118-138	2+2	2xl
124-144	3+2	2xJ
130-150	3+3	2xJ
140-160	4+3	2xJ
150-170	4+4	2xJ
163-183	5+4	2xK
164-194	1+1+1	3xK
170-200	2+1+1	3xK
176-196	5+5	2xK
176-206	2+2+1	3xK
182-202	6+5	2xK
182-212	2+2+2	3xK
188-208	6+6	2xK
188-218	3+2+2	3xK
194-224	3+3+2	3xK
195-215	7+5	2xK
200-230	3+3+3	3xK
201-221	7+6	2xK
210-240	4+3+3	3xK
217-237	8+6	2xL
220-250	4+4+3	3xL
230-250	8+7	2xL
230-260	4+4+4	3xL
243-273	5+4+4	3xL
256-286	5+5+4	3xL
269-299	5+5+5	3xL
275-305	6+5+5	3xL
281-311	6+6+5	3xL
287-317	6+6+6	3xL
288-318	7+5+5	3xL
294-324	7+6+5	3xL
300-330	7+6+6	3xL
316-346	8+6+6	3xL
329-359	8+7+6	3xL

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SPECIFICATIONS:

This repair kit consists of **5** pieces of repair clamps. With this stock, you can make multiple repairs on any size of pipe from **213 - 669** mm. in diameter. The principle of this stock is that by connecting the different sections with each other you can reach different diameters. Length of the sections is 400 mm.

EXTENDING RANGES:

It is possible to extend the repair range up till a diameter of 1.086mm for this you need 2 pieces of every section. Because we took this into account, there is sufficient room in the box to store these sections as well.

WORKING PRESSURE:

Due to the use of different number of sections and pipe diameters, the working pressure varies. the table below can therefore only be used as a guideline.

Pipe OD	working pressure (bar)	
	WATER	Working pressure (bar) GAS
88 - 282	16	4
282 - 460	10	3
460 - 630	6	2
630 - 813	4	1
813 - 1086	2	0.5

SPECIFICATIONS:

- Bolts:** Stainless steel AISI 304 (A2); M16(metric thread according DIN267).
Thread is PTFE (Telfon™) coated to prevent galling.
- Armour plate:** Stainless steel AISI 304, vulcanised into the gasket.
- Gasket:** NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends.
- Clamp width:** 400 mm.

RANGE SECTIONS

213-233	A + B
233-253	A + C
253-273	B + C
264-284	A + D
284-304	B + D
294-314	A + E
304-324	C + D
314-334	B + E
335-355	C + E
354-384	A + B + C
386-416	A + B + D
406-436	A + C + D
416-446	A + B + E
426-456	B + C + D
436-466	A + C + E
456-486	B + C + E
467-497	A + D + E
487-517	B + D + E
508-538	C + D + E
527-567	A + B + C + D
558-598	A + B + C + E
589-629	A + B + D + E
609-649	A + C + D + E
629-669	B + C + D + E

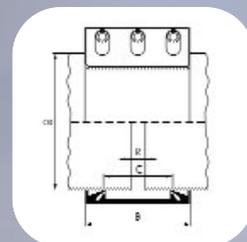
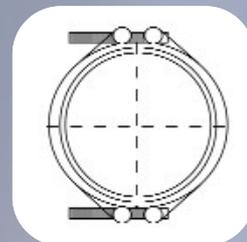
EXTENDING RANGES:

RANGE	SECTIONS
694- 744	E + E + B + A + A
728- 778	E + E + C + B + A
796- 846	E + E + D + C + B
816- 866	E + E + D + C + C
894- 954	E + E + D + C + B + A
928- 988	E + E + D + D + B + A
982-1042	E + E + D + D + C + C
1026-1086	E + E + D + C + C + B + A

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SPECIFICATIONS:

This repair clamp is suitable for repairing large sized pipes (up to DN 4000) or for high pressure repairs (up to PN25). It can also be used as coupling between pipes of the same size (maximum open space 15mm).

- Bolts:**
 - Stainless steel AISI 304 (A2); M16 metric socket head screws (smooth). PTFE coated.
- Body Shell:**
 - Stainless steel AISI 304 (A2).
- Additional:**
 - After welding all stainless steel parts are passivated to obtain a high corrosion resistance.
 - Further to the above mentioned technical specifications; products are also available in AISI 316/316L quality.
- Gaskets**
 - EPDM or NBR
- Ranges:**
 - DN 50 until DN 4000.
- Standard length:**
 - 210 mm.
- Working pressure:**

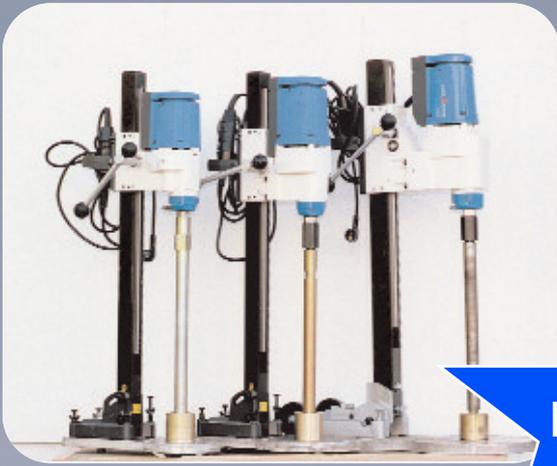
< DN 900	max. PN25
< DN 1500	max. PN16
< DN 2000	max. PN10
< DN 3000	max. PN4

DN 50 - DN 4000

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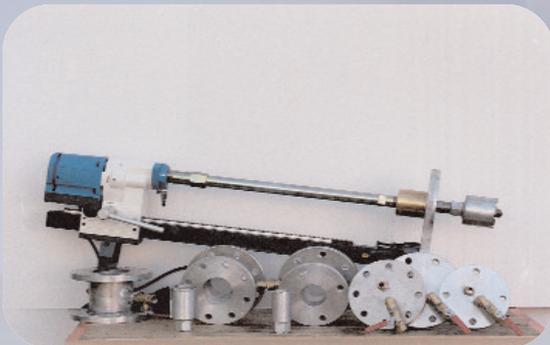
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SPECIFICATIONS:

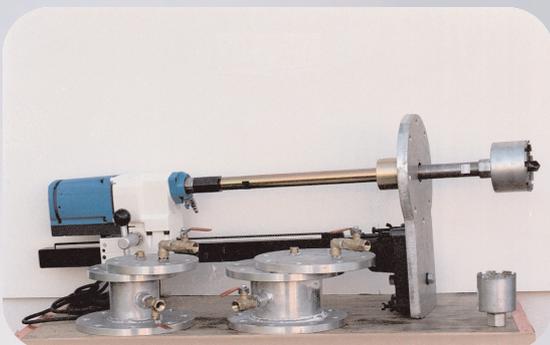
These drilling Machines are designed for under pressure drilling with a maximum working pressure of 16 bar. Suitable for drilling ND 65 to ND 200. Available in 3 different sizes. DN65 - 100; DN 100 - 150; DN 150 - 200.

Drilling machines are suitable for Plastic, AC, Cast Iron and Ductile Iron.



Type: 106510

- Nominal branch drill size** - DN65 to DN100 incl. centre-bit
- Power supply** - TS 162
- Weight basic Machine** - 27,0 kg
- Voltage** - 1 phase current, 230 V/50 Hz, 1500 W
- Speed** - 700 - 1400 rev/min.
- Including** - 1 unit base plate (aluminium).
- 2 units Part flanged DN 65 -100 and DN100-100 (aluminium).
- 2 units blind flanges DN 65 and DN 100 (aluminium).
- 2 pcs cutters for Plastic pipe Ø80 and Ø100
- 2 pcs cutters for cast iron pipe Ø80 and Ø100.

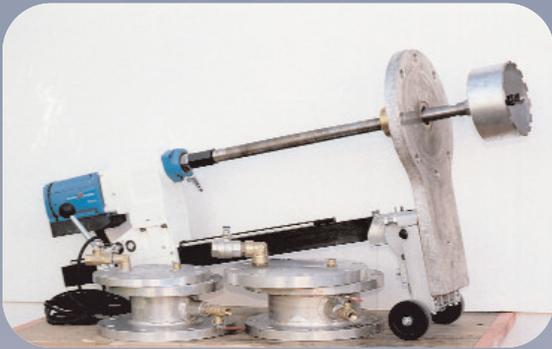


Type: 101015

- Nominal branch drill size** - DN100 to DN150 incl. centre-bit
- Power supply** - TS 252
- Weight basic Machine** - 33,0 kg
- Voltage** - 1 phase current, 230 V/50 Hz, 1900 W
- Speed** - 450 - 900 rev/min.
- Including** - 1 unit base plate (aluminium).
- 2 units Part flanged DN 100 -150 and DN150-150 (aluminium).
- 2 units blind flanges DN 100 and DN 150 (aluminium).
- 2 pcs cutters for Plastic pipe Ø100 and Ø150
- 2 pcs cutters for cast iron pipe Ø100 and Ø150.

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Type: 101520

- Nominal branch drill size** - DN150 to DN200 incl. centre-bit
- Power supply** - TS 402
- Weight basic Machine** - 45,0 kg
- Voltage** - 1 phase current, 230 V/50 Hz, 2800 W
- Speed** - 300 - 700 rev/min.
- Including**
 - 1 unit base plate (aluminium).
 - 2 units Part flanged DN 150-200 and DN200-200 (aluminium).
 - 2 units blind flanges DN 150 and DN 200 (aluminium).
 - 2 pcs cutters for Plastic pipe Ø150 and Ø200
 - 2 pcs cutters for cast iron pipe Ø150 and Ø200.



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RUBBER GASKETS AVAILABLE

Rubber:	NBR	EPDM	VITON
Application:	Gas, Water, Oil and Several chemicals	Hot Water / Steam and several chemicals	Very Hot water, almost all chemicals.
Temperature:	-40° +130°	-40° +130°	-25° +220°



PRESSURE RATING:

The working pressure a repair clamp can withstand depends on a number of variables, for instance; diameter in combination with the used material and type of leakage**. In general, we can say the following:

One section repair clamp:	Working pressure (bar)	
	WATER	GAS
20 - 95	20	5
106 - 219	16	4
237 - 350	10	3

Two section repair clamp:	Working pressure (bar)	
	WATER	GAS
88 - 282	16	4
295 - 510	10	3
520 - 625	6	-
705 - 755	4	-
805 - 835	2	-

Three section repair clamp:	Working pressure (bar)	
	WATER	GAS
270 - 460	10	3
475 - 630	6	2
702 - 780	4	-
813 - 970	2	-

** Because of these variables, Tracon International has developed a testing procedure. All mentioned working pressures on all our documents are only valid in optimum circumstances and based on document 2009.04.24.PRES-N002. please contact us for a copy of this document.

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