

2024

CATALOGUE OF REPAIR CLAMPS
& WELDING MACHINES



WATER
MP&T
Management Projects & Technology

TRACON REPAIR CLAMPS

We have one of the widest model ranges that we adapt to the different markets, regulatory framework and requirements on the five continents. For us it is essential to have in-depth knowledge of the market in which our equipment is to operate, both for the prescribing agents, companies and regulatory frameworks in force in each country, as well as for the user and installer companies.

Wide model range: for standard repairs. Repair kits, for bypasses using threaded or clamped outlets, etc. where are some of the noteworthy features applied in all our products are: manufactured products using 100% AISI 304 or AISI 316 stainless steel. The standard dimensions range from DN15 to DN600, although we can also manufacture larger sizes. The standard NBR joint has grid structure to provide a firm seal. The nut and bolts are always coated with Teflon (PTFE) covered and protected with plastic caps.



SMARTGRIP THE FUTURE STANDARD!

An often heard problem with repair clamps is that it is not always easy to install them around a pipe. Everyone has been struggling with this issue for a long time and came up with numerous idea's, but always resulting in price increases and/or quality loss.

Now we can present you with our latest development, that will make installing the clamp not only a lot easier but will do so without any price increases or compromising on quality.

We like to call this solution **"the SmartGrip System"**

This system will be the new standard for the upcoming decade. Even imagine the advantage it will give you on your competitors.

Please check www.smartgrip.eu for more information or simply contact us.



Technical specification standard repair clamps -STA TS-



Used for emergency and permanent repair of breaks, pitting, cracks and holes in pipes. This type of repair clamp can be offered in many variations. Pending the pipe diameter and the tolerance these clamps are available in one, two or three sections.

SPECIFICATIONS:

Thread protection caps

Bolts

Lifterbar

Nuts

Washer

Body Shell

Armour plate

Gasket

Sidebar

Guide finger

Additional

- Plastic caps to protect the thread.
- Stainless steel AISI 304 (A2); Dimensions depend on diameter. M12, M14 or M16 (metric thread according DIN267). Thread is PTFE (Teflon™) coated to ensure free running.
- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
- Stainless steel AISI 304 (A2). Size M12, M14 or M16 according DIN934. Extra yellow passivated to optimize free running.
- Stainless steel AISI 304 (A2). Size M12, M14 or M16.
- Stainless steel AISI 304 (A2)
- Vulcanised into the gasket for all standard clamps Stainless steel AISI 304.
- NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM or Viton gaskets are optional.
- Stainless steel AISI 304
- Stainless steel AISI 304, Guide fingers keep the bolts in position.
- 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.

WORKING PRESSURE:

One section repairclamp	Two section repairclamp		Three section repairclamp			
	WATER	GAS	WATER	GAS		
20 - 95	20	5	88 - 282	16 4	270 - 460	10 3
106 - 219	16	4	295 - 510	10 3	475 - 630	6 2
237 - 350	10	3	520 - 625	6 -	702 - 780	4 -
			705 - 755	4 -	813 - 970	2

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 withhold 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 repairclamp:	Working pressure (bar)	
	WATER	GAS
20 - 95	20	5
106 - 219	16	4
237 - 350	10	3

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

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

Technical specification standard repair clamps – Other types -



Basic clamp



HEA. clamp



TC clamp

BASIC CLAMP:

The Basic (BAS.) repair clamp is a stripped down version of the Standard (STA) repair clamp. This means that only the necessary parts are on this clamp. All other parts and cost increasing actions are removed. There for this has a very competitive price level.

HEA. CLAMP:

If you come across a space problem while installing the clamp. the HEA. Clamp is the solution. Because of its removable closing mechanism you only need 10 mm of free space to install the clamp.

TC CLAMP:

This repair clamp is only partially covered with a NBR or EPDM gasket, suitable for repairing small holes in water pipelines. It is available in one section type and with a length of 100 or 150 mm.

SPECIFICATIONS:

Bolts

- Stainless steel AISI 304 (A2); Dimensions depend on diameter. M12, M14 or M16 (metric thread according DIN267).

Lifterbar

- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.

Nuts

- Stainless steel AISI 304 (A2). Size M12, M14 or M16 according DIN934. Extra yellow passivated to optimize free running.

Body Shell

- Stainless steel AISI 304 (A2)

Armour plate

- Vulcanised into the gasket for all standard clamps Stainless steel AISI 304. not available on TC

Gasket

- NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM gasket is optional.

Sidebar

- Stainless steel AISI 304

Guide finger

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

Additional

- Further to the above mentioned technical specifications; products are also available in AISI 316/316L quality. Not available on BASIC
- After welding all stainless steel parts are passivated to obtain a high corrosion resistance.
- Basis clamps are without labelling and not packed in a cardboard box.

Technical specification standard repair clamps

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 withhold 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	-

Technical specification stainless steel service connection



Suitable for making service connections, fixing valves and fittings. It is possible to supply an extensive range of outlets, for instance, BSP, BSO and BSD outlets. Available in one, two and three sections.

Available outlets: BSP: 1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2" - 2 1/2" - 3" - 4"
 BSO: 2 1/2" - 3"
 BSD: 2"int. / 2 1/2" ext.
 Polsafe: 1 1/2" - 2"

SPECIFICATIONS:

- Thread protection caps** - Plastic caps to protect the thread.
- Bolts** - Stainless steel AISI 304 (A2); Dimensions depend on diameter. M12, M14 or M16 (metric thread according DIN267). Thread is PTFE (Teflon[®]) coated to prevent galling.
- Lifterbar** - Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.
- Nuts** - Stainless steel AISI 304 (A2). Size M12, M14 or M16 according DIN934. Extra yellow passivated to optimize free running.
- Body Shell** - Stainless steel AISI 304 (A2).
- Armour plate** - Vulcanised into the gasket for all standard clamps. Stainless steel AISI 304.
- Gasket** - NBR gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM gasket is optional.
- Sidebar** - Stainless steel AISI 304.
- Guide finger** - Stainless steel AISI 304, Guide fingers keep the bolts in position.
- Outlets** - BSP, BPD, BSO and Polsafe.
- 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.

Minimal dimentions with outlets:

Outlet	Single band	Length	Double Band	Length
1/2"	40 - 44	150	88-110	200
3/4"	48 - 52	150	88-110	200
1"	57 - 64	150	88-110	200
1 1/4"	67 - 74	150	88-110	200
1 1/2"	70 - 77	200	88-110	200
2"	87 - 95	200	88-110	200
2 1/2"	-	-	108-128	200
3"	-	-	130-150	300
4"	-	-	159-170	400

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 withhold depends on a number of variables, for instance; diameter in combination with the used material and type of leakage**. In general, we can say 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	-

Technical specification stainless tapping saddle



Suitable for making service connections on different pipe types. The tapping saddles are available with following threaded outlets: 1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2" - 3". all other outlets upon request.

SPECIFICATIONS:

Thread protection

- Plastic caps to protect the thread.

Bolts

- Stainless steel AISI 304 (A2); Dimensions depend on diameter. M16 (metric thread according DIN267). Thread is PTFE (Teflon™) coated to prevent galling.

Lifterbar

- Stainless steel AISI 304 (A2). L shaped. Lips hold bolts in position while tightening.

Nuts

- Stainless steel AISI 304 (A2). Size M16 according DIN934. Extra yellow passivated to optimize free running.

Body Shell

- Stainless steel AISI 304 (A2).

Gasket

- NBR or EPDM gasket, proper for both gas and water purposes. It has a waffle structure and tapered ends. The strap is equipped with a smooth rubber layer in order to avoid direct contact with the pipe material.

Sidebar

- Stainless steel AISI 304.

Guide finger

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

Outlets

- BSP, BPD, BSO and Polsafe.

Additional

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

Standard Sizes:

DN 80	88 - 110	DN 200	190 - 218
DN 100	108 - 134	DN 225	216 - 238
DN 125	114 - 139	DN 250	230 - 260
DN 150	138 - 160	DN 275	265 - 285
DN 175	159 - 180		

other sizes available upon request

Technical specification stainless tapping saddle

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 withhold depends on a number of variables, for instance: diameter in combination with the used material and type of leakage**. In general, we can say following:

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

Two section repair clamp:	Working pressure (bar)	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)	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.

Technical specification under pressure tapping sleeve



SPECIFICATIONS:

Because of its light-weight and easy installation the tapping sleeve is extremely useful to make flange connections on pipelines, even under pressure. The Tapping sleeves have a standard working range of 20 mm and are available from range 88 - 110 mm. up to 768 - 798 mm. Standard length available are 300, 400, 500, 600, 800 and 1000 mm. The used flanges are all according DIN2576.

Bolts

- Stainless steel AISI 304 (A2); M16 (metric thread according DIN267). Thread is PTFE (Teflon[®]) coated to prevent galling. Standard Bolts point upwards. It is also possible to point them downwards.

Lifterbar Nuts

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

Body Shell Armour plate Gasket

- Stainless steel AISI 304 (A2). With a reinforced upper section.
- Stainless steel AISI 304, vulcanised into the gasket.
- Full circle NBR gasket with special designed sealing ring, proper for both gas and water purposes. It has a waffle structure and tapered ends. EPDM or Viton gaskets are optional.

Sidebar Guide finger Welded collar

- Stainless steel AISI 304.
- Stainless steel AISI 304, Guide fingers keep the bolts in position.
- Stainless steel AISI 304, TIG welded on the **in-** and **outside** to form permanent fusion with the body shell and flange. total height of the collar is app.120mm up to flange DN 150 and for flange DN 200 up to DN 300, depending on pipe diameter.

Flange outlet Additional

- Stainless steel AISI 304, flanges according to DIN2576. varying from DN 50 up to DN300.
- 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.

WORKING PRESSURE:

	WATER	GAS
88 - 210	16	4
216 - 410	10	3
420 - 798	6	2

The working pressure a Tapping Sleeve can withhold depends on a number of variables, for instance; diameter in combination with the used material and type of flange, etc. that is why the pressures given here are guidelines.

Technical specification under pressure tapping sleeve

FLANGE SIZE IN COMBINATION WITH STARTING RANGES AND LENGTH:

flange	min. Length	starting range	flange drilling
DN 50	300	88 - 110	PN 10 / 16
DN 65	300	88 - 110	PN 10 / 16
DN 80	400	88 - 110* / 108 - 128	PN 10 / 16
DN 100	400	108 - 128* / 133 - 153	PN 10 / 16
DN 125	400	133 - 155	PN 10 / 16
DN 150	400	159 - 180* / 169 - 189	PN 10 / 16
DN 200	500	210 - 230* / 240 - 260	PN 10 / 16
DN 250	600	315 - 335	PN 10
DN 300	on request		

* including a distance used for each section.

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°



Technical specification stainless steel PE inserts



SPECIFICATIONS:

This product is used to provide inside support for PE and PVC pipe material when couplings are used. The construction gives a circumferential inside support to the pipe ends. The inserts are always custom made to give the best support.

Material

- Stainless steel AISI 304

Available diameters

- Inserts for following PE pipe diameters are available:
50 · 63 · 73 · 90 · 110 · 125 · 140 · 160 · 180 · 200 · 225 · 250 · 280 · 315 and 355 mm.

Available SDR measurements

- The above mentioned diameters can be combined with following SDR measurements according to DIN8074, to get the right insert to fit the pipe:
SDR 7,5 · 9 · 11 · 13,6 · 16,6 · 17 · 17,6 · 21 · 26 · 33 · 34 · 41 and SDR 50

Length

- Available in lengths:
 - Diameter 50 - 63 - 75 100 mm.
 - Diameter 90 - 110 - 125 120 mm.
 - Diameter 140 - 160 - 180 140 mm.
 - Diameter 200 - 225 - 250 - 280 - 315 - 355 160 mm.

Additional

- Only available in quantities of 25 units per position.

Technical specification stainless steel restrain clamps



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 (Teflon™) 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 Grip

- Stainless steel AISI 304 (A2).
- 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.

NEW

Technical specification emergency repair boxes -S-



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

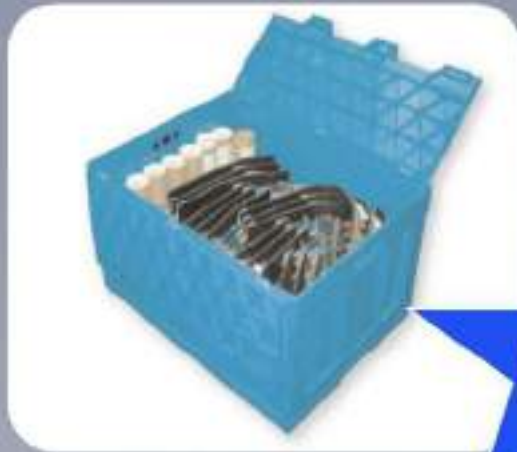
- < 22 kg

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	-	-	-	

Technical specification emergency repair boxes – L -



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 (Teflon™) 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	2xI
118-128	8	I
118-138	2+2	2xI
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

Technical specification emergency repair boxes – XL -



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	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 (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:** 400 mm.

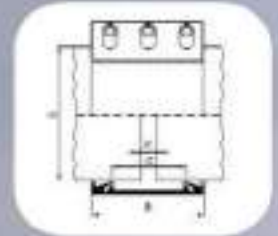
RANGE SECTIONS

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

Technical specification stainless high pressure repair clamps



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).

Body	- Stainless steel grade AISI 304 (316L available upon request)
Locking system	- Steel dacromat (other materials available upon request)
Gasket	- NBR or EPDM
Sizes	- All other sizes upon request
Standard width	- 210 mm
Additional	- After welding all stainless steel parts are passivated to obtain a high corrosion resistance.

WORKING PRESSURE:

	WATER
< DN 900 max.	25
< DN1500 max.	16
< DN2000 max.	10
< DN4000 max.	4

Technical specification drilling machines



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.

Technical specification drilling machines



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.





HDPE WELDING MACHINES

We have professional welding equipment and power generators, parts and accessories. In the product range you will find HDPE, weld, and electro welding machines with diameters from 25mm to 1200mm.

Our service center is equipped to repair and inspect our welding equipment, mechanical and electronic.

Annual inspection and inspection can be carried out within 5 days (normally).



BEAT TRv2 – GL178106



Solid electrofusion computer with traceability. Comes with steel transport case.

Thanks to the scanner and the simple operation, the ideal solution for your welding work up to dia. 400mm.

Manufactured in a solid metal housing and equipped with USB.

- * **Range:** Ø 16 mm – Ø 400 mm
- * **Power mains :** Nominal 230 V
- * **Consumption :** 3000 W max.
- * **Barcode:** Scanner
- * **Certification :** Synergrid
- * **Weight:** 21 kg
- * **Powergenerator:** Min. 4.5 kVA
- * **Accessories:** adapters 4 + 4,7mm
- * **Optional:** Scanner + GPS

BEAT HFv2 – GL178107



This "HEAVY DUTY" electrofusion computer welds upto 1200mm diameters.

Its solid steel housing and internal cooling makes it the ideal partner for the construction site.

Equipped with traceability and readability via USB. Welding current 110 Amps. Extra-large display LCD with backlight.

Supplied in wooden transport case.

- * **Range :** Ø 16 mm – Ø 1200 mm
- * **Power mains :** Nominal 230 V
- * **Consumption:** 5000 W max.
- * **Barcode:** scanner
- * **Certification:** Synergrid
- * **Weight :** 22 kg
- * **Powergenerator:** 6 kVA
- * **Accessories:** adapters 4 + 4,7mm
- * **Optional :** Scanner



BEAT MV2 – GL178109

Electrofusion computer with scanner. Manufactured in a solid steel housing. Manual entry of welding date and setting.

- * **Range:** Ø 16 mm – Ø 400 mm
- * **Power mains :** Nominal 230 V (185 V-245 V)
- * **Consumption:** 3000 W max.
- * **Weight :** 21 kg
- * **Dimensions:** 430 mm x 280 mm x 180 mm
- * **Powergenerator:** Min. 4.5 kVA
- * **Accessoires:** adaptors 4 en 4.7 mm



BEAT MV2 + scanner – GL178108



The electro welding computer BEAT MV2 was specially designed for the installer, for the electro welding of PE fittings for pipe with range up to 400mm and for HDPE. The BEAT MV receives the relevant data by manual input of voltage and time, or using barcode scanner.

- * **Range:** Ø 16 mm – Ø 400 mm
- * **Power mains :** Nominaal 230 V
- * **Consumption:** 3000 W max.
- * **Weight:** 21 kg
- * **Dimensions:** 430 mm x 280 mm x 180 mm
- * **Powergenerator:** Min. 4.5 kVA
- * **Accessoires:** Scanner / Wireless scanner

LITTLE BEAT – GL578002



*Super handy little electrofusion computer.
Fully integrated in steel case. Suitable for welding fittings up to diameters 110 mm and some brands up to 160 mm.*

*Perfect solution for the installer.
Welding data can be entered manually and via scanner.*

- * **Range:** 8-42 V (dia 110)
- * **Power mains :** Nominal 230 V (± 10 %)
- * **Consumption:** 1800 W
(resistance < 0.85 Ω)
- * **Weight:** 13 kg
- * **Dimensions:** 390 mm x 240 mm x 160 mm
- * **Powergenerator:** 3 kVA
- * **Accessoiries:** adaptors 4 en 4.7 mm
- * **Opties:** Scanner

LITTLE BEAT PLUS - GL578050



*Super handy little electrofusion computer.
Fully integrated in steel case. Suitable for welding fittings up to diameters 110 mm and some brands up to 160 mm.*

***With registration** of welding data.
Welding data can be entered manually and via scanner.*

- * **Range:** 8-42 V (dia 110)
- * **Power mains :** Nominal 230 V (± 10 %)
- * **Consumption:** 1800 W
(resistance < 0.85 Ω)
- * **Weight :** 13 kg
- * **Dimensions:** 390 mm x 240 mm x 160 mm
- * **Powergenerator:** 3 kVA
- * **Accessoiries:** adaptors 4 en 4.7 mm
- * **Optional:** Scanner

POLYCONTROL/TWIN 90 – 200

The Polycontrol 90-200 is a combination welding machine in which the user can electroweld up to dia. 315mm and can also butt weld up to a diameter of 200mm. Equipped with traceability and made of stainless materials. Ideal for use on site. Due to its OPEN DRIVER SYSTEM it is always possible to add new types of pipe and diameters



- * **Range:** E/F 25-315 mm, buttwelder 90-200 mm
- * **Power mains:** Nominal 230 V
- * **Consumption:** 5300 W max.
- * **Barcode:** Scanner
- * **Certification:** Synergrid
- * **Weight:** Basic frame 33 kg, Polycontrol 30 kg, Heater 14 kg, Trimmer 23 kg
- * **Powergenerator:** Min. 6 kVA
- * **Optional:** switchbox, custom clamps, scanner



POLYCONTROL

GL178603



BASIC FRAME

GL578405



- CLAMPS DIA 90 MM
- CLAMPS DIA 110 MM
- CLAMPS DIA 125 MM
- CLAMPS DIA 160 MM
- CLAMPS DIA 180 MM
- CLAMPS DIA 200 MM

- GL578725
- GL578461
- GL578462
- GL578463
- GL578437
- GL578465



HEATING PLATE with SUPPORT

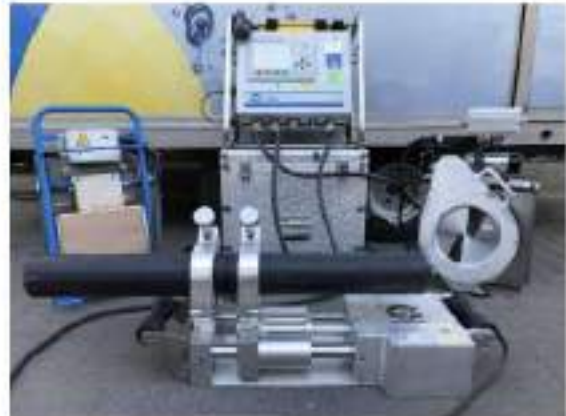
GL578415

SMARTBOX / DYNAMIC 90 - 200

This butt weld computer is specially designed for butt welds up to dia. 200mm. Equipped with traceability and made of stainless materials. Ideal for use on site. Due to its OPEN DRIVER SYTEM it is always possible to add new pipe types and diameters.



- * **Range:** 90-200 mm
- * **Power mains:** Nominal 230 V
- * **Consumption:** 3500 W max.
- * **Barcode:** Scanner
- * **Certification:** Synergrid
- * **Weight:** Basic frame 33 kg, Polycontrol 30 kg, Heater 14 kg, Trimmer 23 kg
- * **Powergenerator:** Min. 6 kVA
- * **Optional:** switchbox, custom camps, scanner



SMARTBOX

GL178606



BASIC FRAME

GL578405



- CLAMPS DIA 90 MM
- CLAMPS DIA 110 MM
- CLAMPS DIA 125 MM
- CLAMPS DIA 160 MM
- CLAMPS DIA 180 MM
- CLAMPS DIA 200 MM

- GL578725
- GL578451
- GL578462
- GL578463
- GL578437
- GL578465



HEATING PLATE with SUPPORT

GL578415



TRIMMER with SUPPORT

GL578410

ODS TRACK AUTOMATIC till 630mm



This ODS machine is the most compact butt welding equipment on the market for butt welding up to and including 630 mm.

These machines are also equipped with the traceability system. Can be controlled by both Smartbox and Polycontrol.



COMPLETE MACHINE DATA FOR BUTT FUSION

MODEL	T-160	T-250	R-315	R-400	R-500	630
Voltage (Vac)	230 (Mono-phasic)				400V	400V
Machine total power (kW)	2.25	3.66	3.7	4.7**	5.45**	8.45**
Generator advisable minimum power (VA)	3000	4500	6000	7000	7500	8500
Net weight w/o pipe adapters (kg)*	75	95	190	177.6	211	407
Net weight w. pipe adapters (kg)*	87	119	250	212.6	414	691

* without Fusion box

** to avoid that the high consumption of the heating plate and the trimmer goes through the fusion box, these two models are provided with a Connection Box that is used to supply a direct voltage of 230Vac to both components. For further information refer to the *User Manual*.



MANUALLY OPERATED BUTTWELDER



TRACK RANGE v2 upto 1200mm

TRACK 160	40 - 160 mm
TRACK 250	63 - 250 mm
TRACK 315	90 - 315 mm
TRACK 400	110 - 400 mm
TRACK 500	200 - 500 mm
TRACK 630	315 - 630 mm
TRACK 800	500 - 800 mm
TRACK 1000	450 - 1000 mm
TRACK 1200	630 - 1200 mm



BENCHWELDER 40-160 (AC577100) / 160-250 (AC577101)

Standard equipment includes: Basic machine with pressure system, electric planer with clamping system and safety sensor, steel transport/table case, removable welding mirror, set of inserts of dia. 40mm to dia. 160 mm, set of reduction shells dia. 40-50-63-75-90-110-125-160 mm, dia.55 and 140 mm are also available to order.



- RANGE : dia. 40 mm till dia. 160 mm / (Type 250 mm also available)
- Materials to be weld : HDPE , PP other thermoplastics
- Weight base machine : 54.5 kg (incl. all accessoires: 90kg)
- Dimensions : 550x800x660 mm
- Moving cycle distance : 130 mm
- Maximum power : 1.46kW – 230 Volt – 50/60 Hz

BENCHWELDER ZHSN-400 / GL578910

Standard equipment includes: Basic machine with CNC printing system, electric planer with clamping system and safety sensor, welding mirror, set of inserts of dia. 90mm to dia. 400 mm, set of reduction shells for producing T-pieces and bends up to 90° are also available to order.



- Range : dia. 90 mm till dia. 400 mm
- Materials to be welded : HDPE , PP other thermoplastics
- Power : 400V 3fase



POLY SOCKET WELDER – GL578920

The Poly Socket welding machine is equipped with a sliding base with self-centring clamps for any pipe or fitting. The heating element is easily removable for manual use to perform welding. Welding is done in a semi-automatic way thanks to the built-in suspension system. The machine is supplied in a steel transport case that can also be used as a table in front of the machine. Standard equipment includes: machine, detachable welding mirror, steel transport case, pipe support tripod, set of heating heads for welding mirror of dia. 50mm to dia.110mm.



- Range : dia. 32 mm till dia. 125 mm
- Materials to be weld : HDPE , PP other thermoplastics
- Weight basic machine : 49,5 kg (incl. all accessoires 80 kg)
- Dimensions : 520x720x360 mm Transport case : 600x800x850 mm
- Maximum power : 1,4kW / 230 Volt / 50-60 Hz

ALEXANDER I – NE400005010

Avoid high repair costs on your welding equipment caused by external power supply. Generator developed in consultation with the welding machine manufacturer. With air-cooled Honda engine!



- * **Generator kVA max:** 6
- * **Generator kVA cont.:** 5.4
- * **Amps. Cont.:** 23A at 1 ~ 230V
- * **Dimensions L x B x H:** 83 x 51 x 56
- * **Weight:** 75 kg
- * **Engine:** Honda GX390
- * **Alternator:** Syncro

AGGREGATE

kVA max: 7
 kVA cont: 6
 Ampere (continu): 26A at 230V
 Dimensions: 83x51x56 cm (l x b x h)
 Dry weight: 85 kg

ENGINE

Type: Honda GX390
 Horsepower: 11
 Consumption: 8.2 kW (3000 tpm),
 1-cylinder, fuel, aircooled
 CC: 389 cm³
 Fuel consumption @75%: 2.7 liter/h
 Fuel tank: 25 liter
 Autonomy @75% last: 9.25 hour
 Soundlevel: 76dB(A) @ 7m

ALTERNATOR

Type: Syncro EK2LAT - brushless
 Power supply: 1-230V
 Frequency: 50 Hz
 Protection rate: IP23

VERSION:

- ✓ Time – relais protection : Power supply activated after approx 1 min when alternator is stable and engine is hot
- ✓ Volt measurement indicator
- ✓ Differential protection
- ✓ Earth leak protection pin
- ✓ 2 plugs 230V

EP 7000 – NE400005005

EPOWER standard generator with HONDA aircooled engine, 3000 tpm, 50Hz, singlephase

- * **Generator kVA max:** 7
- * **Generator kVA cont.:** 6
- * **Amps. Cont.:** 26A at 1 ~ 230V
- * **Dimensions L x B x H:** 83 x 51 x 56
- * **Weight:** 80 kg
- * **Engine:** Honda GX390
- * **Alternator:** Syncro

