


RS02

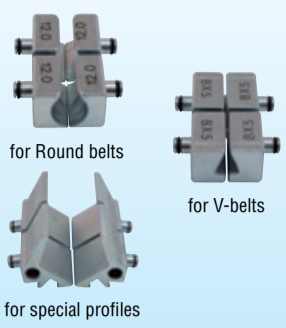
The RS02 Friction welding machine eliminates downtime with a perfect splice every time!

The RS02 Friction welding machine is the user-friendly solution for fast and perfect joining of Polyurethane profiles. Avoid belt failure and expensive break-down time with the unique RS02 Friction welder! Thanks to its exchangeable jaws the RS02 is suitable for splicing many different profiles made of Polyurethane.



Standard jaws

for welding machine RS 02

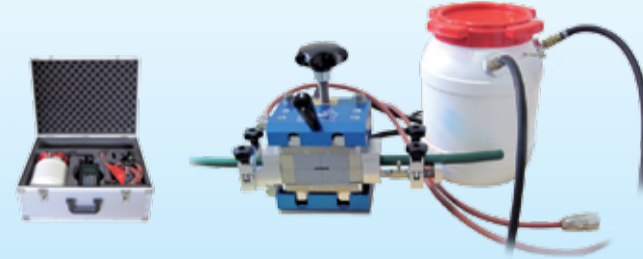


for Round belts
for V-belts
for special profiles

HP01


Hotpress-set with water cooling in a handy aluminium carrying box.

Available in a standard version or in the xpert version with data logging



Hotpress-set with air cooling in a handy aluminium carrying box.

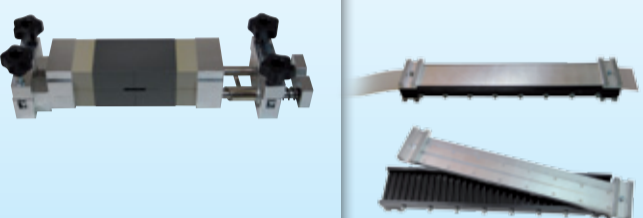
Available in a standard version or in the xpert version with data logging



Molds

Round- and V-belts (PU/TPE) Timing belts (PU)


For Standard and overlap welding Mold for HP01 Hotpress for timing belts up to 50mm width



Belt cutter

Belt cutter with replaceable profile adapters


For belt end preparation for reinforced round- and V-belts for overlap welding with the BEHAbelt HP01 hot press.



Set RH-2

Accessory for HP01


For crimping of belts with steel reinforcements



EERGO

Temperature controlled welding tool ergonomic & fast: for PU and TPE

Features at a glance:
• Heating-up time less than 2 minutes!
• Integrated safety stand
• Ergonomic design
• Innovative handling and display




NEW PATENT
Available from: 02/2013 pending

Multi TC

Welding tools for PU- and TPE-Profiles


The proven welding tool for PU and TPE profiles - with electronic temperature control for optimum results.



290°C Polyurethane
240°C Polyester

SG02/SG03

Welding tools for PU- and TPE-Profiles



SG02 for PU
SG03 for TPE

Customer in focus

„We put innovative ideas into practice.“

Company

Beha Innovation GmbH is a German company based in the heart of Europe. We extrude a complete line of the highest quality Polyurethane and Polyester profiles for transport and drive applications. With 40 years of experience with the market, we know our customer's needs. We provide quick and accurate service through our main factory in Glottertal Germany, our subsidiaries located in USA and Hong Kong, as well as our worldwide distribution network.



„Our people make the difference. The combination of motivated people at Beha and our distributor partners world wide, we provide the right product and services for our customers.“

Quality is our target

Our customer service people are linked closely with our customers in the market and work together with them to provide the fastest and most accurate handling of inquiries and orders. We employ a sophisticated logistic process that ensures highest quality of service – World Wide. All procedures and activities are conducted with the highest possible commitment to quality. We comply with the specification of the standard DIN EN ISO 9001.



This is of course also important for our development work so that we always can offer best products.

We focus on our customers

Our success is based on knowledge of the market and serving our customers with a broad line of profiles. Our strategy is to provide the best extrusion profiles in the market today and lead the industry in new innovative products in the future. Our in house tool shop allows us to react quickly to changing demands in the market. This strategy has resulted in a complete range of high quality products where we hold International trade mark rights and patents.



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PBEP0000087 · 04/13

FZ03

Guide clamp set

For overlap welding of round- and V-belts



Spare paddles

For Multi TC, SG02/03 or EERGO



RSH01/RSH02

Belt tensioner

For tensioning of round- and V-belts



Fitting connectors

For hollow round belts



∅ 4,8 - 15 mm

Carrying case

For welding set „M“

Universal carrying case for your welding tools



Carrying case

For welding set „XL“

Universal carrying case for your welding tools



Welding kit

For small profiles

Welding instrument in carrying case with welding tools of choice



FZ01

Guiding clamp

For round belts up to ∅ 10 mm and V-belts up to profile 10 x 6 (Z)



FZ02/3

Guiding clamp

For V-belts up to profile 30 x 20 (D) and round belts from ∅ 8 mm



AS02

Scissors with prism

For round belts (straight cut)



AS03

Scissors with stop

For 90° cut and angle cut



AS04

Scissors with stop

Scissors with movable angular stop



SE02

Edge cutter

Edge cutter with special blade to remove the welding blade



SZ01

Long nose pliers

For quick joining of hollow round belts with fasteners



TB02

Table fixture

For Guiding clamp FZ02/3



6001

Thermometer

Measurement range: -50° C...1350° C / -50° F...1999° F



Type 115/9035

Accessory for 6001

Fast response surface probe
Measurement range: -0 °C... 400 °C



6201

ThermStick 6201

Dig. Mini-Thermometer with needle probe
Measurement range: -50 °C... 250 °C



6202

ThermStick 6202

Dig. Mini-Thermometer with surface probe
Measurement range: -50 °C... 250 °C



PPuls Controller

for hotpresses and vulcanizers Functions of the PPuls Element Standard Version


Features at a glance:
• Easy handling and transportation through rugged industrial design and compact handheld size
• User friendly operation with self-explanatory menu system (no expertise required)
• Storage and change of welding recipes within seconds through integrated memory

- Fully automated vulcanizing & cooling cycle
- Real time data logging & diagnostics functions
- Fully automated welding process guarantees highest welding quality and leads to an increase of your productivity.

PPuls Element

Fully automated welding process guarantees highest welding quality and leads to an increase of your productivity (110V & 230V).


Available as Standard and XPert Version



PPuls Extended


Fully automated welding process guarantees highest welding quality and leads to an increase of your productivity (208V & 400V)

Available as Standard and XPert Version



PPuls Relaybox

Wherever operating voltages higher than 400 V are given, the PPuls Relaybox is a robust solution in combination with good weatherproof protection.



Model	Connection to the grid	Drawing socket	max. Current max.Performance	max. Power	Version	Comment
PPuls Element	Schuko 1PH		1 x 230V / 2 x 5A	2,3 KW @ 110V	Standard & Xpert	Small Presses
PPuls Element	NEMA L5-15 1PH		1 x 110V / 2 x 5A	1,1 KW @ 110V	Standard & Xpert	Small Presses
PPuls Extended	CEE 16A 3PH		3 x 400V / 2 x 9A	7,2 KW @ 400V	Standard & Xpert	lightweight and small for service use
PPuls Extended	CEE 32A 3PH		3 x 400V / 2 x 16A	8,8 KW @ 400V	Standard & Xpert	lightweight and small for service use
PPuls Extended	NEMA L6-30 1PH		1 x 208V / 2 x 15A	6,3 KW @ 208V	Standard & Xpert	lightweight and small for service use
PPuls Extended	NEMA L15-30 3PH		3 x 208V / 2 x 15A	6,3 KW @ 208V	Standard & Xpert	lightweight and small for service use
PPuls Relaybox	CEE (16A, 32A), NEMA (L6-30, L15-30, L16-30), other types upon request	depends on version	3 x 690V / 2 x 15A	20,7 KW @ 690V	Xpert	flexible for medium to large presses, robust design


Especially developed for you!

The company HDT-Electronic, member of the Beha-Group, offers controllers for vulcanizers as customized version.

If other technical requirements have to be observed or additional functions shall be given – please contact us!

We would be glad to advise you!

Before After



Express-Service

Express-Service endless belts

We are able to tailor round- and V-belts of different lengths and diameters - within a few days and in high quality. We offer both, standard butt splice and strong overlap splice. Feel free to contact us.

We always need the production length Lf in mm/inch on your enquiry or order.



State of the art tool making shop

We offer special profile extrusions quickly and efficiently, due to our in-house state of the art tool making shop. According to your specification, our engineers develop the tooling to make YOUR profile that fits your application to 100%. Our standard programme already includes many special profiles. More special profiles are available on request. Feel free to contact us!



Coatings and refinement for belts

We carry on a wide range of coated products. Enclosed you find a selection of the most common coatings. Other coatings and top covers are available on request.

Application areas



- Transport system with drive via vertical shaft
- Painting lines for sheet metal parts
- Sorting machine
- Tray transport in canteen
- Bowling pinsetter alley
- Tile glazing machine
- Lock out in logistic center
- Curve system for transportation of boxes
- Canning transport system
- Conveying machine with lock out

Complete overview of weldable belts of Polyurethane and Polyester

Fmax/belt: All tables show max. load/belt based on coefficient of friction of = 0,5 (typical case)
Fmax/belt Standard: Non reinforced and reinforced material with butt splice
Fmax/belt overlap: Reinforced material will provide an increase in max. loading capacity as shown in tables (assumed overlap length 60mm)

Round belts for the food industry

Product	PU 75 A 80 A	PU 80 A 84 A	PU 80 A 84 A	PU 80 A SAFE 84 A	PU 85 A 88 A	PU 75 D hollow 80 A	PU 85 D hollow 88 A	PU 85 A 88 A											
Shore A - D	80 A	84 A	84 A	84 A	88 A	80 A	88 A	88 A											
Color	sky blue	ultramarine blue	ultramarine blue	capri blue	sapphire blue	sky blue	sapphire blue	sapphire blue											
FDA/EC	yes, smooth	yes, smooth	yes, roughened	yes, smooth, metal detectable	yes, smooth	yes, smooth	yes, smooth	yes, smooth											
CoF (Steel) - μ	approx. 0.70	approx. 0.65	approx. 0.50	approx. 0.65	approx. 0.60	approx. 0.70	approx. 0.60	approx. 0.60											
Pretension	6-8%	6-8%	6-8%	6-8%	6-8%	6-8%	6-8%	0.5-2%											
Diameter \varnothing	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	
mm	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	
2	10	0,8	15	0,8	15	0,8	15	1,2											
3	20	1,8	25	2,2	25	2,2	25	2,4											
3,2																			
4	30	3	30	3,6	30	3,6	35	3,6	35	4,2									
4,8	35	4,4	40	5	40	5	40	5	45	6,2	30	3,6							
5	40	4,8	45	5,6	45	5,6	45	5,6	50	6,6									
6	50	6,8	55	8	55	8	55	8	60	9,6									
6,3	55	7,2	60	8,6	60	8,6	60	8,6	65	10,6	45	6,2	55	8,5	65	10,6	31,8		
7	60	9,2	65	10,8	65	10,8	65	10,8	70	13									
8	65	12	75	14	75	14	80	17	85	20									
9,5	75	17	90	19,8	90	19,8	90	19,8	95	24,2	65	14,4	75	18	95	24,2	72,6		
10	80	18,8	95	22	95	22	100	26,6											
12	90	27,2	110	31,6	110	31,6	110	31,6	120	38,4									
12,5	100	29,6	115	34,4	115	34,4	125	41,8	85	24,4	100	33	125	41,8	125,4				
14,3																			
15	120	42,4	140	49,6	140	49,6	150	60,2	100	37,4	120	50	150	60,2	180,6				

Round belts Standard programme

Product	PU 75 A 80 A	PU 75 A PLUS 80 A	PU 80 A 84 A	PU 80 A 84 A	PU 85 A 88 A	PU 85 A 88 A	PU 85 A PLUS 88 A	PU 90 A 92 A	TPE 40 D 40 D	TPE 55 D 55 D										
Shore A - D	80 A	80 A	84 A	84 A	88 A	88 A	88 A	92 A	40 D	55 D										
Color	red	orange	transparent	orange	green	emerald green	blue	white	beige	beige										
FDA/EC	no, smooth	no, smooth (mat)	yes, smooth	yes, smooth	no, smooth/roughened	no, smooth, artistic	no, roughened	no, smooth	yes, smooth	yes, smooth										
CoF (Steel) - μ	approx. 0.70	approx. 0.65	approx. 0.65	approx. 0.65	approx. 0.60/0.45	approx. 0.60	approx. 0.45	approx. 0.50	approx. 0.50	approx. 0.35										
Pretension	6-8%	4-6%	6-8%	6-8%	6-8%	6-8%	4-6%	4-6%	2-4%	2-4%										
Diameter \varnothing	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt		
mm	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN	mm	daN		
2	10	0,8	10	1,0	15	1,0	15	1,2	15	1,2	15	1,4	20	1,6	20	2,2	30	3,0		
3	20	1,8	20	2,0	25	2,0	25	2,6	25	2,6	25	3,2	30	3,6	30	4,8	35	7,0		
3,2																				
4	30	3,2	30	3,8	30	3,8	30	3,8	35	4,6	35	4,6	35	4,6	40	6,2	40	8,8	50	12,4
4,8	35	4,6	35	5,4	40	5,4	40	5,4	45	6,6	45	6,6	45	6,6	50	9,0	50	12,6	60	18,0
5	40	5,0	40	5,8	45	5,8	45	5,8	50	7,0	50	7,0	50	7,0	55	9,8	55	13,6	65	19,6
6	50	7,2	50	8,4	55	8,4	55	8,4	60	10,2	60	10,2	60	12,4	65	14,0	65	19,8	75	28,0
6,3	55	8,2	55	9,4	60	9,4	60	9,4	65	11,2	65	11,2	65	13,6	70	15,4	70	21,8	80	31,0
7	60	10,0	60	11,6	65	11,6	65	11,6	70	13,8	70	13,8	70	17,0	75	19,2	75	26,8	90	38,0
8	65	13,2	65	15,0	75	15,0	75	15,0	80	18,0	80	18,0	80	22,0	85	25,0	85	35,0	100	50,0
9,5	75	18,4	75	21,2	90	21,2	90	21,2	95	25,4	95	25,4	95	31,2	100	35,0	95	49,8	120	70,0
10	80	20,0	80	23,6	95	23,6	95	23,6	100	28,0	100	28,0	100	34,6	105	39,2	105	54,8	125	78,6
12	90	30,0	110	34,0	110	34,0	110	34,0	115	40,0	115	40,0	115	40,0	120	56,0	120	79,0	150	113,2
12,5	100	32,0	115	36,8	115	36,8	120	44,0	120	44,0	120	44,0	120	44,0	125	61,0	125	86,0	160	122,0
14,3																				
15,9																				
18																				
19																				
20																				

Hollow round belts

Product	PU hollow 75 D 80 A	PU hollow 85 A 88 A	PU hollow 90 A 92 A			
Shore A - D	80 A	88 A	92 A			
Color	red	yellow/green	white			
FDA/EC	no, smooth	no, smooth/roughened	no, smooth			
CoF (Steel) - μ	approx. 0.70	approx. 0.60/0.45	approx. 0.50			
Pretension	6-8%	6-8%	4-6%			
Diameter \varnothing	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt
mm	mm	daN	mm	daN	mm	daN
4,8	30	3,8	35	5,2	45	7,2
6,3	45	6,8	55	9,2	60	13,0
8	55	11,0	65	15,0	75	20,0
9,5	65	15,6	75	20,0	85	30,0
12,5	85	26,6	100	36,0	115	50,0
15	100	40,4	120	56,0	140	76,0

Twisted round belts

Product	PU 70 A 76 A	PU 75 A PLUS 80 A		
Shore A - D	76 A	80 A		
Color	sky blue	orange		
FDA/EC	yes, smooth	no, smooth/roughened		
CoF (Steel) - μ	approx. 0.70	approx. 0.70		
Pretension	8-10%	6-8%		
Diameter \varnothing	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt
mm	mm	daN	mm	daN
5,0	40	3,5	40	6,0

Available standard lengths of 250 - 710 mm

Special profiles for the food industry

Quality PU - TPE	T-Profile PU 75 A 80 A	T-Profile PU 80 A 84 A	T-Profile PU 80 A 84 A	3L T-Top PU 80 A 84 A	3L T-Top PU 80 A 84 A	T-Profile PU 85 A 88 A	T-Profile PU 85 A 88 A	
Shore A - D	80 A	84 A	84 A	84 A	84 A	88 A	88 A	
Color	sky blue	ultramarine blue	ultramarine blue	orange	orange	sapphire blue	white	
FDA/EC	yes, smooth	yes, smooth	yes, smooth	yes, smooth	yes, smooth	yes, smooth/grooved	yes, smooth	
CoF (Steel) - μ	approx. 0.70	approx. 0.65	approx. 0.65	approx. 0.65	approx. 0.65	approx. 0.60	approx. 0.60	
Pretension	6-8%	6-8%	6-8%	6-8%	6-8%	4-6%	4-6%	
W x H	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt	Pulley \varnothing	Fmax/belt
mm	mm	daN	mm	daN	mm	daN	mm	daN
8 x 5 / 8 x 6,5	40	6,0						
10 x 4,5			50	7,2				
14,3 x 6,3					85	16,2		
14,3 x 7,5								
15 x 5					50	11,2		
20 x 8							100	28,2
25 x 5								

Round belts reinforced

Product	PU 80 A 84 A	PU 85 A 88 A	PU 85 A 88 A	PU 85 A 88 A	PU 90 A 92 A	TPE 55 D 55 D		
Shore A - D	84 A	88 A	88 A	88 A	92 A	55 D		
Color	orange	ultramarine blue	white	black/sky blue	white	beige		
FDA/EC	yes, smooth	no, smooth/roughened	no, roughened	no, smooth	no, smooth	yes, smooth		
CoF (Steel) - μ	approx. 0.65	approx. 0.60/0.45	approx. 0.45	approx. 0.60	approx. 0.50	approx. 0.35		
Pretension	6-8%	0.5-2%	0.5-2%	0.5-2%	0.5-2%	0.5-2%		
Diameter \varnothing	Pulley \varnothing	Fmax/belt	Fmax/belt (Standard)	Fmax/belt (Standard)	Fmax/belt (Standard)	Fmax/belt (Standard)		
mm	mm	daN	daN	daN	daN	daN		
2								
3								
3,2								
4								
4,8								
5								
6	55	8,4	25,2		60	10,2	30,6	
6,3	60	9,4	28,2		65	11,2	33,6	
7	65	11,6	33,9		70	13,8	41,4	
8	75	15,0	45,0	90	26,0	80	18,0	54,0
9,5	90	21,2	63,6	100	37,0	95	25,4	76,2