



INTERACTIVE *

* Interactive functions on the machine overview (page 8) and all chapter overview pages.

THE WELDING MACHINE
EXPERTS FOR PLASTIC PIPES

PASSIONATE

ABOUT INNOVATIONS

NEXT GENERATION
WELDING



STANDARD? OF COURSE.
SPECIALLY BUILT? YES!

INNOVATIVE & CUSTOMIZED

Innovative project solutions and customized machines – WIDOS is expert in developing welding machines for every task.

WIDOS machines are used worldwide in the field, for fab-shop and on-site

installations, or fitting fabrications to weld plastic pipes from OD 20 – 3500. Our customers value the quality and easy operation of our machines as well as the adaptation to meet specific requirements.



Whether filtration, automotive or maritime industries – WIDOS customized machines meet unique requirements beyond the piping industry.



FROM DITZINGEN TO ANYWHERE IN THE WORLD. WE REPRESENT **GLOBAL VALUES.**

Together with our worldwide partners, we strive for a common goal: excited customers. We value competent advice, innovative solutions, reliability, and sustainability.



COMPETENCE FROM THE BEGINNING

As the pioneer in the plastic welding industry, we advise with more than 50 years of experience in plastic welding technology.



RELIABILITY

Innovative and solidly built machines ensure reliable long-term use.



INNOVATIONS FOR THE FUTURE

Advanced techniques coupled with modern technology means machines built for today and tomorrow.



SUSTAINABILITY

WIDOS machines work efficiently over years. For more sustainability and protection of our resources.

KNOW-HOW, EXPERIENCE AND EXPERTISE. THE **PIONEER OF THE INDUSTRY**

ABOUT US

WIDOS Wilhelm Dommer Söhne GmbH is a leading manufacturer of plastic welding machines that is ISO 14001 certified with headquarters in Ditzingen, Germany. More than 100 employees in Ditzingen, Chemnitz, and Atlanta work together to promote welding technologies globally. Since the formation of the company in 1946, WIDOS has established its worldwide position in the plastic welding industry. With over 80 international partners, WIDOS machines are globally available.

WELDING MACHINE EXPERTS

The WIDOS product portfolio includes welding machines, saws, and accessories as well as specialty machines. Welding machines are used to weld plastic pipes from OD 20 – 3500 in the field and in workshops. Specialty machines allow welding plastics in a vast variety of industries.

SERVICE WORLDWIDE

We have been exceeding customer service expectations for over 50 years and excel in meeting international norms for service requirements, including the latest DVS standards. Our international customers benefit from more than 80 certified service partners worldwide. WIDOS supplies original spare parts for generations of machines.

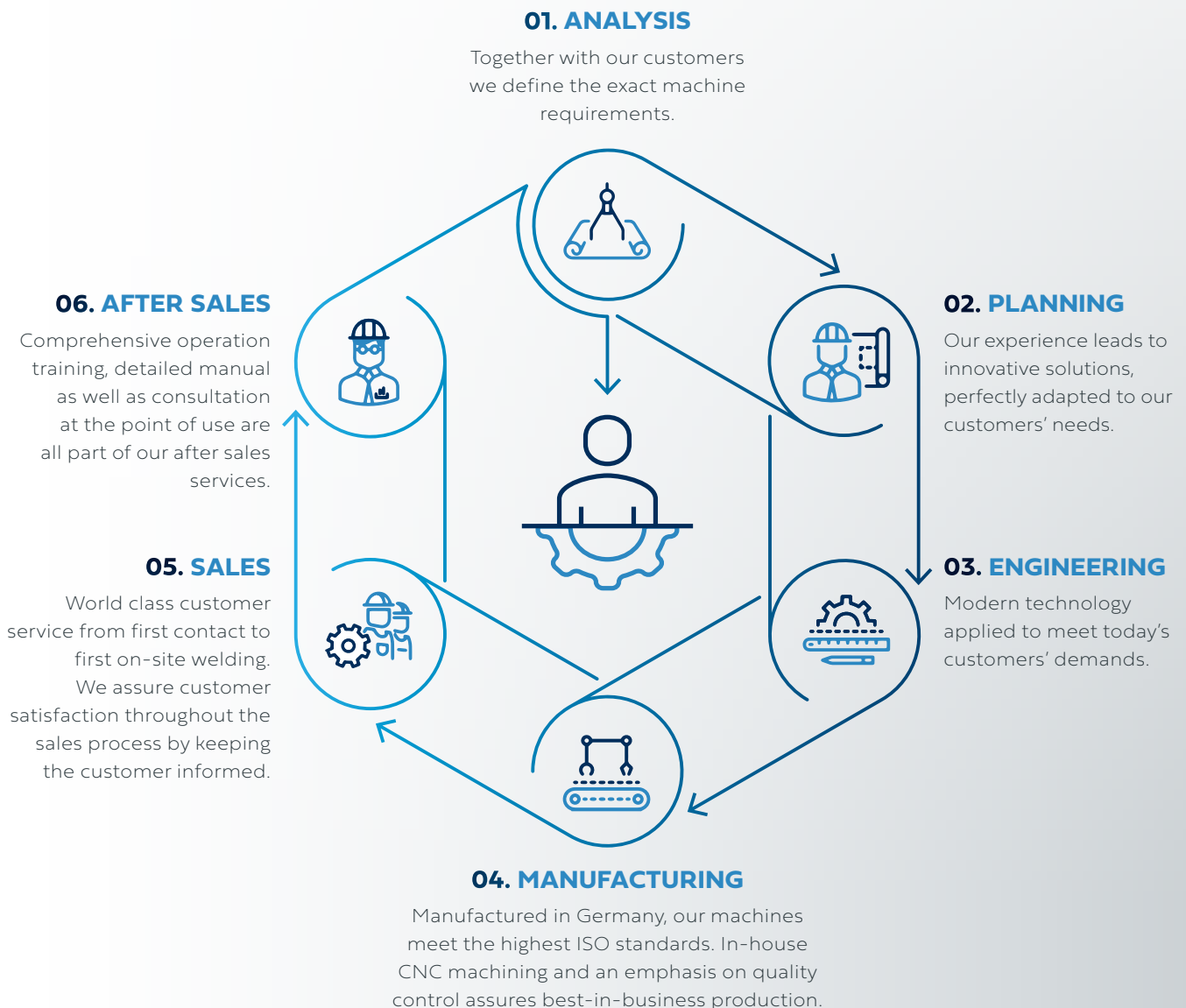


REPAIR & MAINTENANCE

We perform extensive repairs and maintenance on all of our welding machines. During the time of service, customers may continue work with rental machines.

WE DELIVER MORE THAN PRODUCTS. WE DELIVER **CUSTOMIZED INNOVATIONS.**

WIDOS provides customized solutions to weld plastics in a vast variety of industries: from piping and filtration to automotive and maritime industries. We support our customers with expertise and German engineering from the beginning.



QUALITY IN EVERY PART. DIGITAL. MODULAR. STRONG. MADE IN GERMANY.

DIGITAL CONNECTIVITY

WIDOS control units set the benchmark in digital operation, featuring Bluetooth connection, remote operation, and digital data reports.

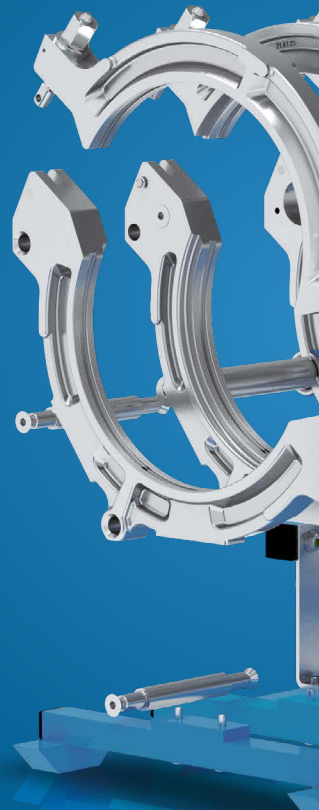
INDIVIDUALIZED SOLUTIONS

Individualized welding machines for special requirements. In every dimension.



EASY OPERATION

User-friendly operation assures successful welding. Every time.



LIGHTWEIGHT DESIGN

Light-weight and compact parts support welding in the tightest places and in elevated conditions.



SOLID MACHINES

WIDOS machines stand the test of time. Reliable and cost effective.

MODULAR COMPONENTS

Machine components can be used to operate various basic machines.



SERVICE WORLDWIDE

International partner network for excellent service across the world.

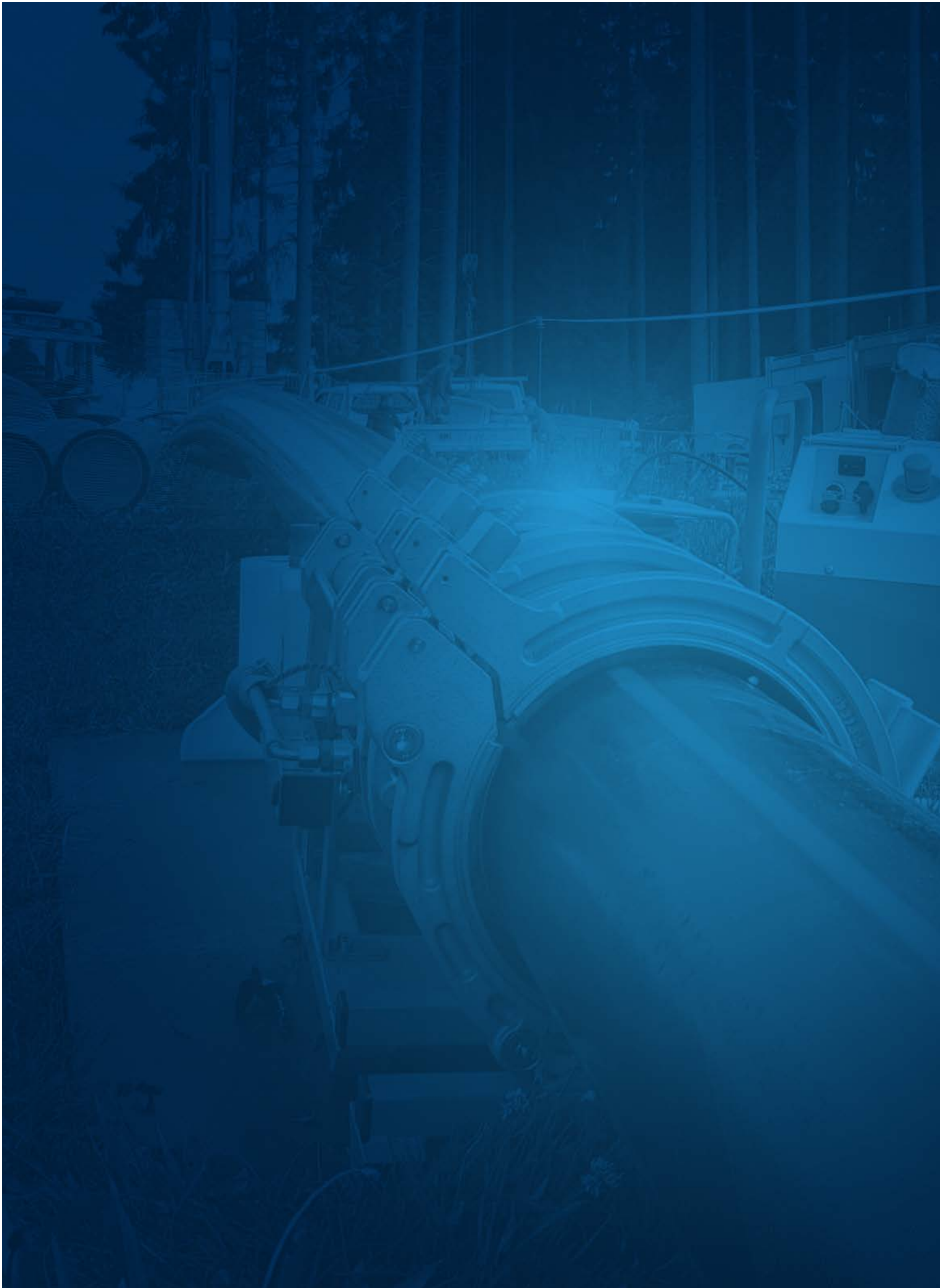


Linked table | Please click the machine name to get to the requested page.

MACHINE OVERVIEW · PIPE DIAMETER

		20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400		
		3/4"		1"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"									
FIELD MACHINES	ESI 3000	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	4400					+	+	+	+	+	+	+	+										
	4600						+	+	+	+	+	+	+	+	+	+	+						
	4900								+	+	+	+	+	+	+	+	+	+	+	+			
	4955									+	+	+	+	+	+	+	+	+	+	+	+	+	+
	5100															+	+	+	+	+	+	+	+
	5500															+	+	+	+	+	+	+	+
	6100																				+	+	+
	8000																						
	10000																						
	12000																						
	16000																						
	20000																						
	24000																						
	26000																						
	35000																						
FAB-SHOP AND ON-SITE INSTALLATIONS	Miniplast	+	+	+	+	+	+	+	+	+													
	Maxiplast						+	+	+	+	+	+	+	+									
	2500 - 160						+	+	+	+	+	+	+										
	2500 - 250						+	+	+	+	+	+	+	+	+	+	+	+					
	2500 - 315						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3511 35XX	+	+	+	+	+	+	+	+	+	+	+											
	JIG							+	+	+	+	+											
FITTING FABRICATION	4001 4002								+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	5000 WM															+	+	+	+	+	+	+	
	7000 WM															+	+	+	+	+	+	+	
	8000 WM																						+
	12000 WM																						
	16000 WM																						
	24000 WM																						
	Circular Saw 500															+	+	+	+	+	+	+	+
SAWS & ACCESSORIES	Motorized Manual Saw Type 1																						
	Motorized Manual Saw Type 35																						
	Sawing Machine RS 315						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	Sawing Machine RS 630								+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	Sawing Machine RS 800								+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	Sawing Machine RS 1000												+	+	+	+	+	+	+	+	+	+	
	Sawing Machine RS 1200												+	+	+	+	+	+	+	+	+	+	
	Sawing Machine RS 1600													+	+	+	+	+	+	+	+	+	
	Accessories																						

Welding range depends on the application.





WELDING MACHINES FOR THE **FIELD**

The solidly built WIDOS machines for the field are robust, reliable and durable. The modular machine concept allows for flexible use to fit many field situations.



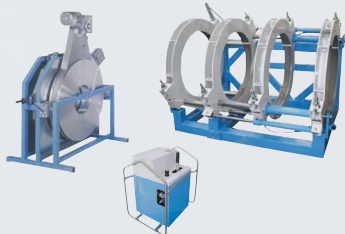
ESI 3000

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4400 – 6100

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8000 | 10000 | 12000

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16000 – 35000

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FIELD MACHINES

ESI 3000

ELECTROFUSION MACHINE



DESCRIPTION

The ESI 3000 is the electrofusion machine for electro sockets from OD 20 to 630*. Comfortable handle, steel cover and light weight make the welding machine a robust companion on all building sites. The compact ESI 3000 features extensive logging, easy handling, and digital control.

USE



DIAMETER **OD 20 – OD 630**

MATERIAL **Electro Sockets PE, PP**

MACHINE MODEL

The handle allows for winding the 4m-long machine cable with 4.0 mm adapter plugs. Different adapter plugs are available. A built-in temperature sensor measures the temperature near the socket for safe and DVS-compliant welding. The cable remains flexible and the display is easy to read even at low temperatures. The robust steel cover protects against damage. The compact ESI 3000 weighs just 16 kg, the transport and storage box weighs 5 kg.

All welds are logged. Welding parameters can be entered manually or via hand scanner. Protocols are available in CSV or PDF format through the USB port. The ESI 3000 can also be controlled through the ElectroFusion Studio (EFS) app. Bluetooth connection allows for operating the ESI 3000 via smart phone or tablet. Welding parameters, notes, GPS coordinates and pictures can be stored and managed in the ElectroFusion Control Center (EFCC).

➤ Adapter plugs are optionally available

* depending on the type of fitting

MACHINE COMPONENTS



ELECTROFUSION MACHINE

Art.No.

Electrofusion machine
incl. cable / scanner / scanner cover **HW3000**



WELDING CABLE WITH
SCANNER AND SCANNER COVER

Art.No.

Kabel / Scanner / Tasche **HW320120004**

TECHNICAL DATA

ESI 3000

Power (60% ON time)	2050W (55,9A)
Voltage – entry	230V
Voltage – exit	8 – 48V AC
Operating temperature	-10 °C +50 °C
Total weight	16 kg

OPTIONS

ADAPTER PLUGS



Adapter plugs

Art.No.

4,7 mm, bent **HW320300-004**

4,7 mm, straight **HW320300010**

4,0 mm, bent **HW320300011**

FIELD MACHINES

4400 | 4600 | 4900 | 4955
 5100 | 5500 | 6100
 MANUAL | SPA | WI-CNC



DESCRIPTION

WIDOS field machines are designed for pipeline construction and can be used in the field or for on-site installations. Four clamping rings ensure stable welding of long pipings. By detaching the fourth clamping ring, the machines are also suitable for welding jobs in narrow surroundings.

USE



DIAMETER OD 50 – OD 630

MATERIAL PE, PP, PVDF, other thermoplastics

MACHINE MODELS

The machine sets of the WIDOS 4400 – 6100 series consist of basic machine, hydraulic unit, planer, heating element, reception box and tool kit. Depending on the size of the machine, components can be used in different machine sets.

4400

+ OD 50 – 160

4600

+ OD 75 – 250

4900

+ OD 90 – 315

4955

+ OD 90 – 355

5100

+ OD 200 – 450

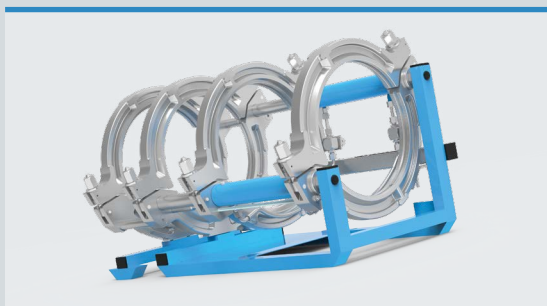
5500

+ OD 200 – 500

6100

+ OD 315 – 630

MACHINE COMPONENTS



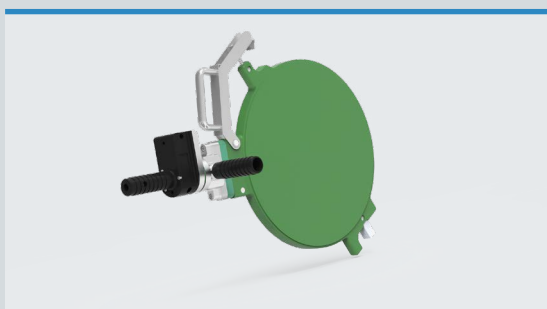
BASIC MACHINE

The basic machine consists of base frame, four clamping rings and two hydraulic cylinders. A steel sheet protects the welding spot from dust and dirt. The design of the basic clamping rings represents a flexible application system: the fourth ring is detachable for welding in narrow spaces. In addition, the basic clamping rings of manually operated basic machines can be fully detached from the base frame to facilitate welding in tight spaces and overhead.



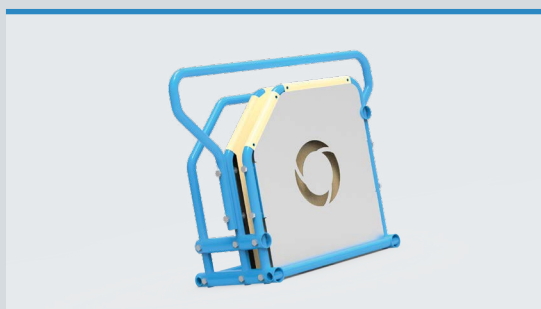
PLANER

The electric planer ensures proper chip removal to the outside. The planer includes a safety switch and lever for alignment in the basic machine.



HEATING ELEMENT

Electronic temperature regulation and digital display are part of the non-stick coated heating element.



RECEPTION BOX

The reception box is suitable for transport of planer and heating element and provides safe storage of the components.

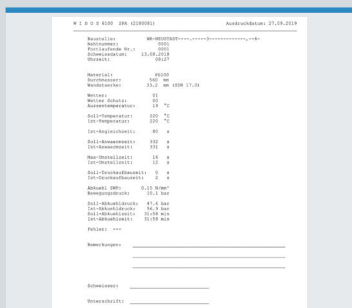
FIELD MACHINES

CONTROL TECHNOLOGIES



HYDRAULIC CONTROL UNIT MANUAL

The manual hydraulic control allows for movement of the basic clamping rings and exact control of the welding pressure. The control unit is equipped with a pressure-regulating valve, digital pressure gauge and pressure backup. The surrounding stainless-steel frame protects the hydraulic unit.



DATA LOGGER SPA

The data logger SPA is an extension of the manual hydraulic control unit. The SPA stores all relevant welding parameters, indicates nominal and actual values, and signals deviations.



HYDRAULIC CONTROL UNIT WI-CNC® 6.0

The WI-CNC® 6.0 control unit turns welding into a program-controlled process with advanced monitoring for more process reliability. The position-measuring system ensures standardized welding. Special features, such as digital connection with mobile devices, enables innovative supervision of the weld process, easy protocol management, and remote control of the basic machine. The control unit comes fully equipped with many user-friendly functions, such as color touch display, parameter overview or entry of traceability barcodes.

ARTICLE NUMBERS

4400	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	16SV44N1	16SV44S1	16SV44C1
Basic Machine	160100	160100	160100
Position-Measuring System	–	--	161190
Hydraulic Control Unit	1011230	1011230	106060021
SPA	–	9701230	–
Planer	1604220	1604220	1604220
Heating Element	H4400E	H4400S1	H4400PLC
Reception Box	EIN4400	EIN4400	EIN4400
Tool Kit	ZWR4400	ZWR4400	ZWR4400

ARTICLE NUMBERS

4600	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	09SV46N1	09SV46S1	09SV44C1
Basic Machine	091100	091100	091100
Position-Measuring System	–	–	091190
Hydraulic Control Unit	1010230	1010230	106060021
SPA	–	9701230	–
Planer	0914220	0914220	0914220
Heating Element	H4600E	H4600S1	H4600PLC
Reception Box	EIN4502	EIN4502	EIN4502
Tool Kit	ZWR4600	ZWR4600	ZWR4600

4900	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	21SV49N1	21SV49S1	21SV49C1
Basic Machine	216000	216000	216000
Position-Measuring System	–	–	2161090
Hydraulic Control Unit	1010230	1010230	106060021
SPA	–	9701230	–
Planer	2164230	2164230	2164230
Heating Element	H4900D	H4900S2	H4900PLC
Reception Box	EIN4900	EIN4900	EIN4900
Tool Kit	ZWR4900	ZWR4900	ZWR4900

4955	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	21SV4955N1	21SV4955S1	21SV4955C1
Basic Machine	2181B100	2181B100	2181B100
Position-Measuring System	–	–	2181B180
Hydraulic Control Unit	1010230	1010230	106060021
SPA	–	9701230	–
Planer	2184231	2184231	2184231
Heating Element	H4911E	H4911S1	H4911PLC
Reception Box	EIN4911	EIN4911	EIN4911
Tool Kit	ZWR4955	ZWR4955	ZWR4955

FIELD MACHINES

ARTICLE NUMBERS

5100	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	07SV51N1	07SV51S1	07SV51C1
Basic Machine	071100	071100	071100
Position-Measuring System	–	–	071190
Hydraulic Control Unit	1008230	1008230	106060021
SPA	–	9701230	–
Planer	0724230	0724230	0724230
Heating Element	H5100E	H5100S1	H5100PLC
Reception Box	EIN5100	EIN5100	EIN5100
Tool Kit	ZWR5100	ZWR5100	ZWR5100
5500	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	39SV55N1	39SV55S1	39SV55C1
Basic Machine	390100	390100	390100
Position-Measuring System	–	–	391190
Hydraulic Control Unit	1008230	1008230	10606002316
SPA	–	9701230	–
Planer	3914400	3914400	3914400
Heating Element	H5500E	H5500S1	H5500PLC
Reception Box	EIN5500	EIN5500	EIN5500
Tool Kit	ZWR5500	ZWR5500	ZWR5500
6100	manual	SPA	WI-CNC® 6.0
	Art.No.	Art.No.	Art.No.
Machine Set	08SV61N1	08SV61S1	08SV61C1
Basic Machine	081100	081100	081100
Position-Measuring System	–	–	081190
Hydraulic Control Unit	1008230	1008230	10606002316
SPA	–	9701230	–
Planer	0824400	0824400	0824400
Heating Element	H6100E	H6100S1	H6100PLC
Reception Box	EIN6100	EIN6100	EIN6100
Tool Kit	ZWR6100	ZWR6100	ZWR6100

↗ We modify your manual components for the use with SPA or WI-CNC® 6.0.
 For your contact to the WIDOS Team, please see rear side of the catalogue.

TECHNICAL DATA

4400	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,3 750 W	950 W	0,8 kW
Voltage	–	230 V	230 V	230 V
Total Weight	22,5 kg	24,0 44,5 kg	9,1 kg	3,6 kg

4600	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,3 750 W	1150 W	1,5 kW
Voltage	–	230 V	230 V	230 V
Total Weight	37,7 kg	24,0 44,5 kg	12,8 kg	6,0 kg

4900	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,3 1,5 kW	1150 W	2100 W
Voltage	–	230 V	230 V	230 V
Total Weight	52,0 kg	24,0 44,5 kg	17,5 kg	8,8 kg

4955	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,3 750 W	1750 W	3000 W
Voltage	–	230 V	230 V	230 V
Total Weight	60,0 kg	24,0 44,5 kg	25,5 kg	11,0 kg

5100	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,56 750 W	1750 W	3500 W
Voltage	–	230 V	230 V	230 V
Total Weight	98,5 kg	24,5 44,5 kg	36,2 kg	23,0 kg

5500	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,56 1500 W	1100 W	5800 W
Voltage	–	400 V	400 V	400 V
Total Weight	119,5 kg	24,5 56,2 kg	60,0 kg	28,0 kg

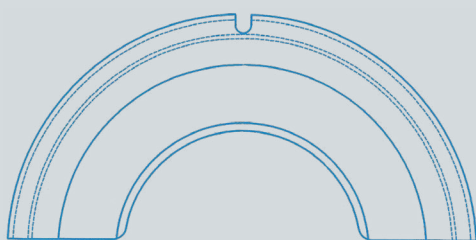
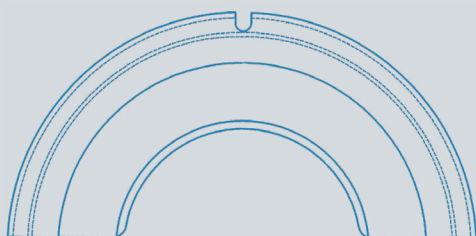
6100	Basic Machine	Hydraulic Unit manual WI-CNC	Planer	Heating Element
Power	–	0,56 1500 W	1100 W	5900 W
Voltage	–	400 V	400 V	400 V
Total Weight	210,0 kg	24,5 56,2 kg	103,0 kg	36,0 kg

➤ We offer different voltage options for our machines and components.

For your contact to the WIDOS Team, please see rear side of the catalogue.

FIELD MACHINES

REDUCTION INSERTS



4400

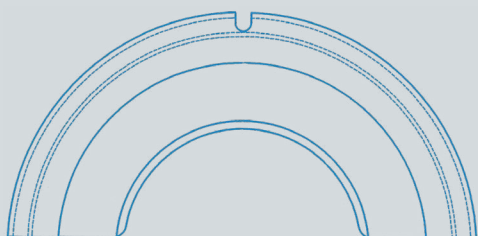
OD	Art.No.
50	16080508
63	16080638
75	16080758
90	16080908
110	16081108
125	16081258
140	16081408
OD set 50 – 140	16VS140
Special diameters *	
65,7 – 66,8	16080658
128 – 130,3	16081288

4600

OD	Art.No.
75	09080758
90	09080908
110	09081108
125	09081258
140	09081408
160	09081608
180	09081808
200	09082008
225	09082258
OD set 75 – 225	09VS225
Special diameters *	
77,8 – 78,3	09080778
93,0 – 93,6	09080938
113,5 – 114,2	09081138
128,8 – 129,5	09081288
144,1 – 145,0	09081448
164,8 – 165,6	09081648
185,4 – 187,0	09081858
205,4 – 207,0	09082058
230,4 – 232,0	09082308

* Special diameters for jacket pipes, etc.

REDUCTION INSERTS



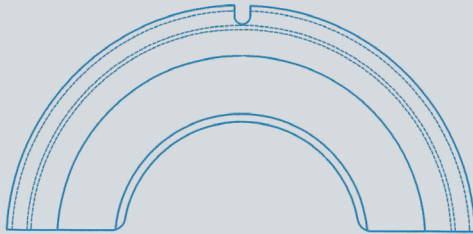
4900 | 4955

OD	Art.No.
90	38080908
110	38081108
125	38081258
140	38081408
160	38081608
180	38081808
200	38082008
225	38082258
250	38082508
280	38082808
4900: OD set 90 – 280	21VS280
Adaptor OD 315	2188B1003158
4955: OD set 90 – 315	4955VS315
Special diameters *	
93,0 – 93,6	38080938
113,5 – 114,2	38081138
128,8 – 129,5	38081298
144,1 – 145,0	38081448
164,8 – 165,6	38081648
185,4 – 187,0	38081858
205,4 – 207,0	38082058
230,4 – 232,0	38082308
255,4 – 257,0	38082558
285,0 – 287,0	38082858

* Special diameters for jacket pipes, etc.

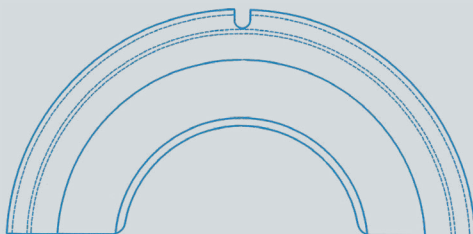
FIELD MACHINES

REDUCTION INSERTS



5100

OD	Art.No.
200	38082008
225	38082258
250	38082508
280	38082808
Adaptor OD 315	0711428
315	07083158
355	07083558
400	07084008
OD set 200 – 400	07VS400
Special diameters *	
205,4 – 207,0	38082058
230,4 – 232,0	38082308
255,4 – 257,0	38082558
285,0 – 287,0	38082858
320,4 – 322,0	07083208

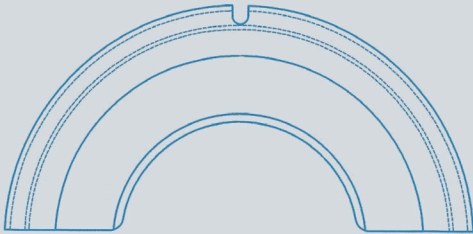


5500

OD	Art.No.
200	38082008
225	38082258
250	38082508
280	38082808
Adaptor OD 315	0711428
315	07083158
355	07083558
400	07084008
Adaptor OD 450	39084508
OD set 200 – 450	39VS450
Special diameters *	
205,4 – 207,0	38082058
230,4 – 232,0	38082308
255,4 – 257,0	38082558
285,0 – 287,0	38082858
320,4 – 322,0	07083208
365,2	07083658
Adaptor OD 456	3908456

* Special diameters for jacket pipes, etc.

REDUCTION INSERTS



* Special diameters for jacket pipes, etc.

↗ We offer a multitude of reduction inserts for special diameters, inch sizes or wide versions.
For your contact to the WIDOS Team, please see rear side of the catalogue.

6100

OD	Art.No.
315	08083158
355	08083558
400	08084008
450	08084508
500	08085008
560	08085608
OD set 315 – 560	08V5560
Special diameters*	
365,2	08083658
460	08084608

OPTIONS



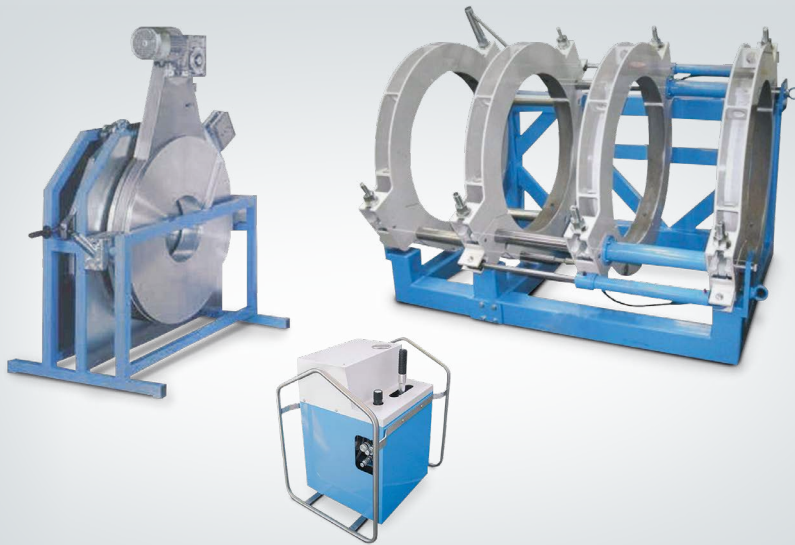
STUB END HOLDERS

	OD	Art.No.
4400	160	161129
4600	250	091129
4900	315	2169000
4955	355	2181228
5100	450	071900
5500	500	391900
6100	630	081900

FIELD MACHINES

8000 | 10000 | 12000

MANUAL | SPA



DESCRIPTION

WIDOS field machines are designed for pipeline construction and allow for welding of large pipes up to OD 1200 on the building site. Four clamping rings ensure stable welding of long pipings. By detaching the fourth clamping ring, the machines are also suitable for welding jobs in narrow surroundings.

USE



DIAMETER OD 450 – OD 1200

MATERIAL PE, PP, other thermoplastics

MACHINE MODELS

The machine sets of the WIDOS 4400 – 6100 series consist of basic machine, hydraulic unit, planer, heating element, reception box and tool kit. Depending on the size of the machine, components can be used in different machine sets.

8000

+ OD 450 – 800

10000

+ OD 500 – 1000

12000

+ OD 710 – 1200

MACHINE COMPONENTS



BASIC MACHINE

The basic machine consists of base frame, four clamping rings and two hydraulic cylinders. A steel sheet protects the welding spot from dust and dirt. The design of the basic clamping rings represents a flexible application system: the fourth ring is detachable for welding in narrow spaces. In addition, the basic clamping rings of manually operated basic machines can be fully detached from the base frame to facilitate welding in tight spaces and overhead.



PLANER

The electric planer ensures proper chip removal to the outside. The planer includes a safety switch and lever for alignment in the basic machine.



HEATING ELEMENT

Electronic temperature regulation and digital display are part of the non-stick coated heating element.



RECEPTION BOX

The reception box is suitable for transport of planer and heating element and provides safe storage of the components.

ARTICLE NUMBERS

8000	manual	SPA
	Art.No.	Art.No.
Machine Set	23SV80N1	23SV80S1
Basic Machine	2310200	2310200
Position-Measuring System	–	–
Hydraulic Control Unit	1060432	1060400SP
Planer	2304380	2304380
Heating Element	H8000E1	H8000S1
Reception Box	EIN8000	EIN8000
Tool Kit	ZWR8000	ZWR8000

10000	manual	SPA
	Art.No.	Art.No.
Machine Set	25SV10N1	on request
Basic Machine	2510100	2510100
Position-Measuring System	–	–
Hydraulic Control Unit	1060464	1060400SP
Planer	2504380	2504380
Heating Element	H10000E1	H10000S1
Reception Box	EIN10000	EIN10000
Tool Kit	ZWR10000	ZWR10000

12000	manual	SPA
	Art.No.	Art.No.
Machine Set	22SV12N1	on request
Basic Machine	2210100	2210100
Position-Measuring System	–	–
Hydraulic Control Unit	1060464	1060400SP
Planer	2204380	2204380
Heating Element	H12000E1	H12000S1
Reception Box	EIN12000	EIN12000
Tool Kit	ZWR12000	ZWR12000

↗ We modify your manual components for the use with SPA or WI-CNC® 6.0.
 For your contact to the WIDOS Team, please see rear side of the catalogue.

FIELD MACHINES

TECHNICAL DATA

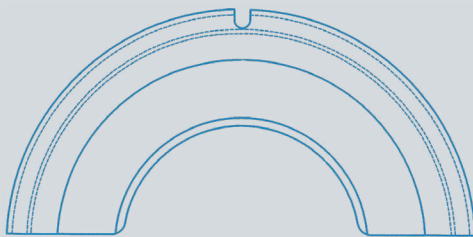
8000	Basic Machine	Hydraulic Unit	Planer	Heating Element
Power	-	31,0 kW	2,2 kW	15,0 kW
Voltage	-	400 V	400 V	400V
Total Weight	approx. 900 kg	approx. 90 kg	approx. 170,0 kg	approx. 95,0 kg

10000	Basic Machine	Hydraulic Unit	Planer	Heating Element
Power	-	31,0 kW	3,0 kW	23,0 kW
Voltage	-	400 V	400 V	400V
Total Weight	approx. 1000 kg	approx. 90 kg	approx. 300,0 kg	approx. 120,0 kg

12000	Basic Machine	Hydraulic Unit	Planer	Heating Element
Power	-	31,0 kW	3,0 kW	23,0 kW
Voltage	-	400 V	400 V	400V
Total Weight	approx. 1250 kg	approx. 90 kg	approx. 500,0 kg	approx. 170,0 kg

➤ We offer different voltage options for our machines and components, such as 110 V.
For your contact to the WIDOS Team, please see rear side of the catalogue.

REDUCTION INSERTS



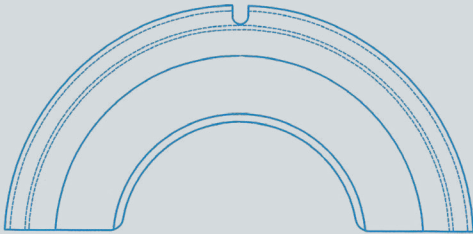
* Special diameters for jacket pipes, etc.

8000

OD	Art.No.
450	22180450
500	22180500
560	22180560
630	22180630
710	22180710
OD set 450 – 710	22VS710
Special diameters*	
585	22180585

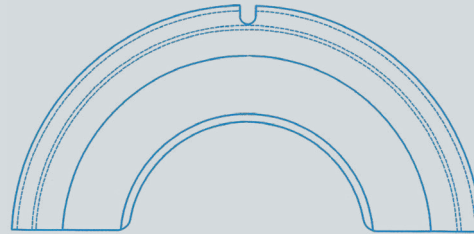
➤ We offer a multitude of reduction inserts for special diameters, inch sizes or wide versions.
For your contact to the WIDOS Team, please see rear side of the catalogue.

REDUCTION INSERTS



10000

OD	Art.No.
500	22180500
560	22180560
630	22180630
710	22180710
800	22180800
900	22180900
OD set 500 – 900	22VS900
Special diameters*	
585	22180585



12000

OD	Art.No.
710	22180710
800	22180800
900	22180900
1000	22181000
1100	22181100
OD set 710 – 1100	22VS1100

* Special diameters for jacket pipes, etc.

OPTIONS



HYDRAULIC UNIT OPEN



LIFTING DEVICE

Optional lifting device to easily lift pipes, planer and heating element.



STUB END HOLDERS

	8000 – 12000
Art.No.	1060400
Power	23,0 kW
Voltage	400V
Weight	approx. 51 kg

	Load capacity	Art.No.
8000	1,8t	230200
10000	1,8t	250200
12000	1,8t	220200

	OD	Art.No.
8000	800	234150
10000	1000	254150
12000	1200	2231150

FIELD MACHINES

16000 | 20000 | 24000
26000 | 35000

WELDING MACHINES FOR THE FIELD



DESCRIPTION

The machines WIDOS 16000 - 35000 are designed for pipeline construction and allow for welding of large pipes up to OD 3500.

- We are happy to assist you.
For your contact to the WIDOS Team, please see rear side of the catalogue.

USE



DIAMETER OD 1000 – OD 3500

MATERIAL PE, PP, other thermoplastics

MACHINE MODELS

16000

20000

24000

26000

35000

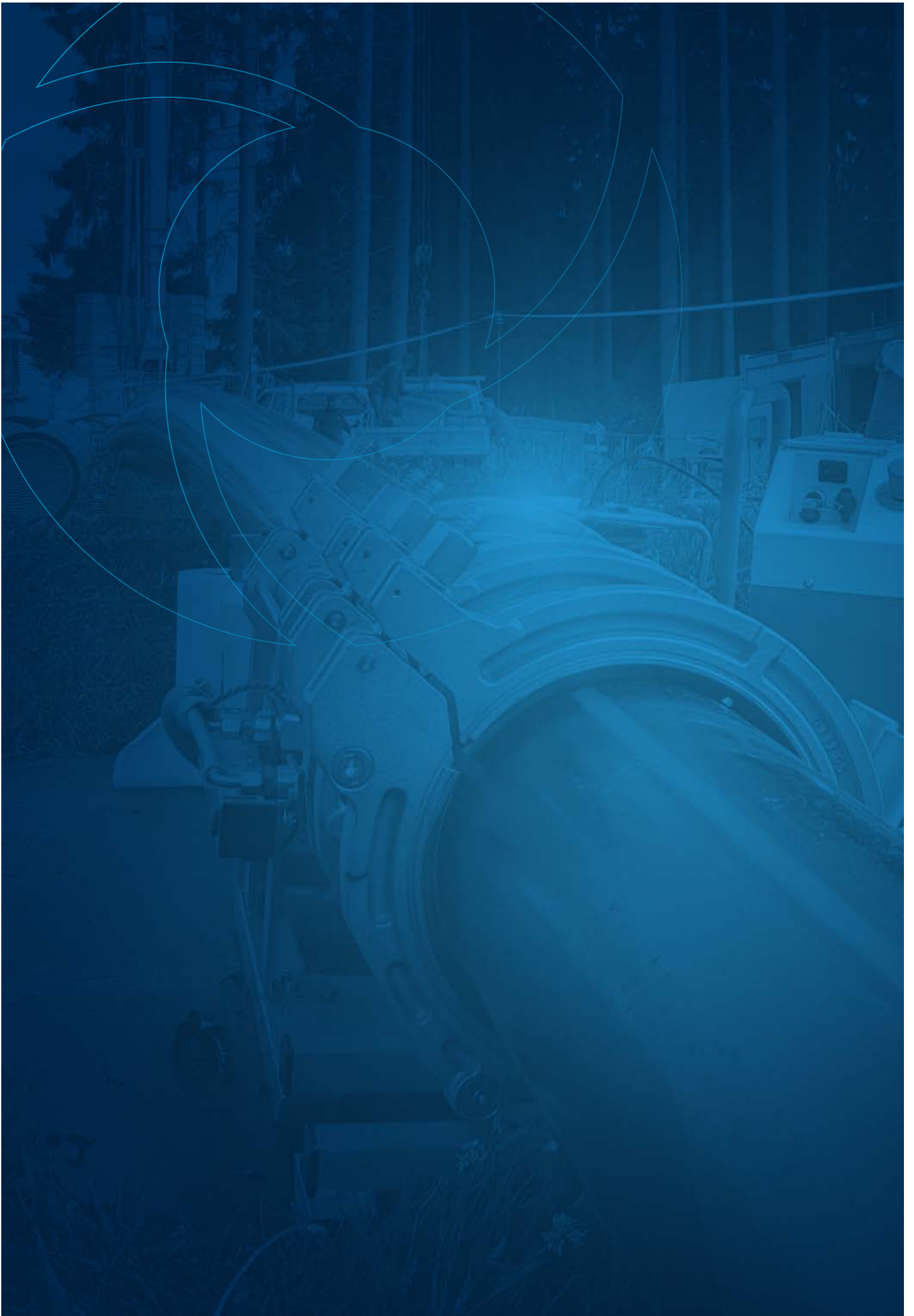
+ OD 1000 – 1600

+ OD 1200 – 2000

+ OD 1600 – 2400

+ OD 2000 – 2600

+ OD 2500 – 3500



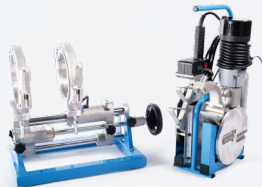




WELDING MACHINES FOR

FAB-SHOP AND ON-SITE INSTALLATIONS

The WIDOS machines for shop pre-fabrication and on-site installations are versatile machines that can be used across a variety of applications. The easily transported machines are great for plumbing or mechanical work, for both shop fabrications and on-site work.



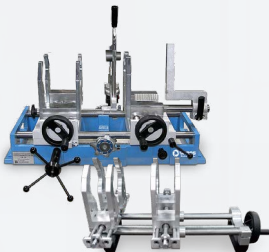
MINIPLAST | MAXIPLAST

<u>Machine models</u>	pg. 34
<u>Machine components – Miniplast</u>	pg. 35
<u>Machine components – Maxiplast</u>	pg. 36
<u>Article numbers</u>	pg. 37
<u>Technical data</u>	pg. 37
<u>Reduction inserts</u>	pg. 38
<u>Options</u>	pg. 39



2500 OD 160 | 250 | 315

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<u>Machine components</u>	pg. 41
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<u>Reduction inserts</u>	pg. 43
<u>Options</u>	pg. 44



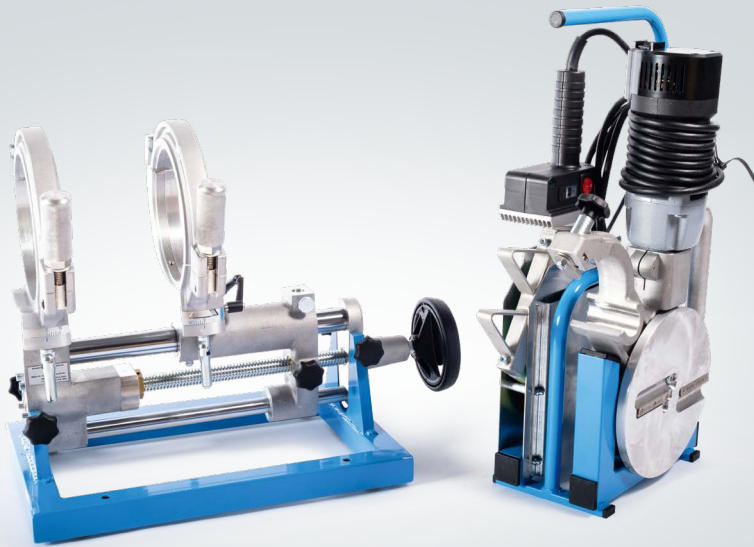
35XX | 3511 | JIG

<u>Machine models</u>	pg. 46
<u>Machine components 35XX 3511</u>	pg. 47
<u>Article numbers</u>	pg. 48
<u>Technical data</u>	pg. 49
<u>Prismatic clamping tools</u>	pg. 49
<u>Heating spigots and sockets</u>	pg. 50
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MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

MINIPLAST | T-PIECE MAXIPLAST

WELDING MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS



DESCRIPTION

The WIDOS Miniplast and Maxiplast series are mobile butt-welding machines for use in the fab-shop and on-site installations. The Miniplast T-piece model allows for welding of 90° elbows, in addition to straight pipes. The versatile machines also provide the optimal basis for welding jobs meeting specific customer needs.

USE



DIAMETER **MINIPLAST** OD 20 – OD 110
MAXIPLAST OD 50 – OD 160

MATERIAL PE, PP, PVDF, other thermoplastics

MACHINE MODELS

The Miniplast and Maxiplast machines are equipped with electronic heating elements. The planer for the Miniplast models is operated manually, an electric planer is optionally available. The planer for the Maxiplast operates electrically. The scope of delivery also includes a table fixture to facilitate working on the workbench as well as a tool kit. Different model variations are available:

MINIPLAST

⊕ OD 20 – 110

MINIPLAST T-PIECE

⊕ OD 20 – 110
(Elbows > 90°)

MAXIPLAST

⊕ OD 50 – 160

MACHINE COMPONENTS – MINIPLAST



BASIC MACHINE

The basic machine consists of two wide basic clamping tools OD 110. For fabricating segmented bends, the basic clamping tools can be swivelled by 15° on each side. The Miniplast T-piece model is also suitable for the fabrication of T-pieces 90°.



TABLE FIXTURE

The table fixture is a holding device for stationary use and allows fixing the machine onto the work-bench.



HEATING ELEMENT

The heating element is non-stick coated and includes electronic temperature regulation and control lamps.



PLANER

A mechanical planer with ratchet drive or an electrical planer are available. The cutting blades are wear-proof and can be reversed for extended use.

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

MACHINE COMPONENTS – MAXIPLAST



BASIC CLAMPING TOOLS

The basic machine consists of two wide basic clamping tools OD 160. For fabricating segmented bends, the basic clamping tools can be swivelled by 15° on each side.

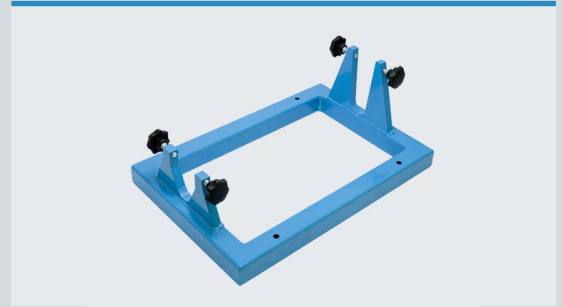


TABLE FIXTURE

The table fixture is a holding device for stationary use and allows fixing the machine onto the work-bench.



PLANER

Electric planer with wear-proof and reusable cutting blades.



HEATING ELEMENT

The heating is of high-quality non-stick coating and includes electronic temperature regulation.

ARTICLE NUMBERS

	Miniplast	Miniplast T	Maxiplast
	Art.No.	Art.No.	Art.No.
Machine Set, mechanical	45SVMINI	45SVMITI	–
Machine Set, electric	45SVMINE1	45SVMITE1	45SVMAX
Basic Machine	450100	451100	454100
Table Fixture	450101	451101	454101
Planer, mechanical	4504220	4514220	–
Planer, electric	4504230	4524230	4544230
Heating Element	HMINIE	HMINIET	HMAXI
Tool Kit	ZWRMINI	ZWRMINI	ZWRMAX

➤ We offer different voltage options for our machines and components, such as 110 V.
 For your contact to the WIDOS Team, please see rear side of the catalogue.

TECHNICAL DATA

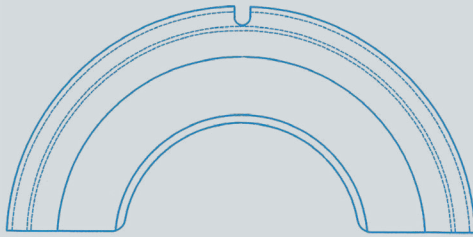
Miniplast Miniplast T-piece	Basic Machine	Planer, mechanical	Planer, electric	Heating Element
Power	–	–	550 W	500 W
Voltage	–	–	230 V	230 V
Total Weight	6,3 kg	2,1 kg	5,7 kg	2,5 kg

Maxiplast	Basic Machine	Planer	Heating Element
Power	–	950 W	800 W
Voltage	–	230 V	230 V
Total Weight	13,3 kg	9,1 kg	3,9 kg

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

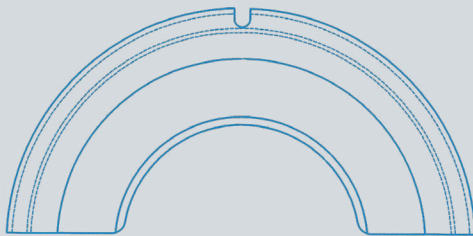
REDUCTION INSERTS, SMALL VERSION

MINIPLAST | T-PIECE



OD	Art.No.
20	20080208
25	20080258
32	20080328
40	20080408
50	20080508
56	20080568
63	20080638
75	20080758
90	20080908

MAXIPLAST including Pipe Supports



OD	Art.No.
50	16080504 *
56	16080564 *
63	16080634 *
75	16080754 *
90	16080904 *
110	16081104 *
125	16081254 *
140	16081404 *
Single Pipe Supports	
160	4506160
168	4506168

➤ We offer a multitude of reduction inserts for special diameters, inch sizes or wide versions. For your contact to the WIDOS Team, please see rear side of the catalogue.

OPTIONS



FITTING CLAMPING TOOLS

Small fitting clamping tools for injected fittings with short clamping surface.

	OD	Art.No.	
		left	right
Miniplast	110	452711L	452712R
Maxiplast	160	4547160L	4547160R



STUB END HOLDERS

	OD	Art.No.
Miniplast	110	451710
Maxiplast	160	161129

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

2500

 OD 160 | 250 | 315


DESCRIPTION

The WIDOS 2500 machine series are versatile butt-welding machines for use in the workshop and on-site. The machines are especially suited for shop pre-fabrications and on-site use from OD 50 – 315. In addition, they are an optimal basis for customized fabrications.

➤ Available options allow for welding of pipes from OD 20.

USE



DIAMETER OD 50 – OD 315, optional OD 20

MATERIAL PE, PP, PVDF, other thermoplastics

MACHINE MODELS

The WIDOS 2500 machines are equipped with electric planer and heating element. The transport box provides safe storage and serves as machine base. The machines of the 2500 series are available in three different models including tool kit:

2500 – 160

- ⊕ OD 50 – 160
- ⊕ Optional OD 20

2500 – 250

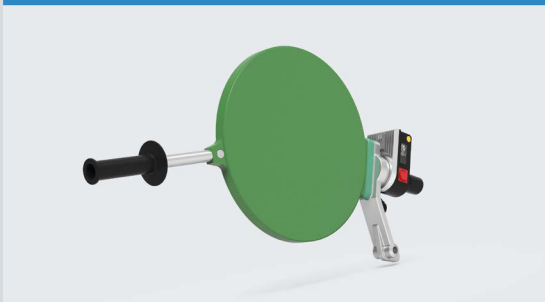
- ⊕ OD 50 – 250
- ⊕ Optional OD 20

2500 – 315

- ⊕ OD 50 – 315
- ⊕ Optional OD 20

➤ Please visit www.widos.de for the maximum weldable SDR levels for each machine model.

MACHINE COMPONENTS



HEATING ELEMENT

The heating element is non-stick coated and includes electronic temperature regulation and control lamps. The attachment to the basic machine makes it easy to swing the heating element in and out.



PLANER

Electric planer with mechanical locking device. The cutting blades are wear-proof and can be reused.



BASIC CLAMPING TOOLS

The basic clamping tools are divided into two parts, rotatable by 15° on each side, and allow for fabricating segmented bends.



PRISMATIC PIPE SUPPORTS

Adjustable tool to hold the welding pieces after clamping.

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

ARTICLE NUMBERS

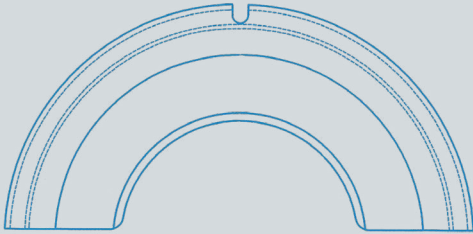
Machine Set	2500 – 160	2500 – 250	2500 – 315
	Art.No. 38SV11N1	Art.No. 38SV21N1	Art.No. 38SV01N1
Basic Machine	3811230	3821230	3801220
Basic Clamping Tool	S0127160	380732KP	S38315KP
Planer	38142301	38242301	3804220
Heating Element	H0900E	H0250E	H2500E
Prismatic Pipe Supports (50 – 160)	3817160	3817160	3817160
Prismatic Pipe Supports (180 – 315)	–	3807315	3807315
Tool Kit	ZWR2500160	ZWR2500250	ZWR2500315

TECHNICAL DATA

2500 – 160	Heating Element	Planer
Power	0,8 kW	0,95 kW
Voltage	230 V	230 V
Total Weight	107 kg	
2500 – 250	Heating Element	Planer
Power	1,5 kW	1,05 kW
Voltage	230 V	230 V
Total Weight	142 kg	
2500 – 315	Heating Element	Planer
Power	2,1 kW	1,05 kW
Voltage	230 V	230 V
Total Weight	174 kg	

➤ We offer different voltage options for our machines and components.
For your contact to the WIDOS Team, please see rear side of the catalogue.

REDUCTION INSERTS



	2500 – 160	2500 – 250	2500 – 315
OD	Art.No.	Art.No.	Art.No.
20	0128020	0908020	3808020
25	0128025	0908025	3808025
32	0128032	0908032	3808032
40	0128040	0908040	3808040
50	0128050	0908050	3808050
63	0128063	0908063	3808063
75	0128075	0908075	3808075
90	0128090	0908090	3808090
110	0128110	0908110	3808110
125	0128112	0908125	3808125
140	0128140	0908140	3808140
160	–	0908160	3808160
180	–	0908180	3808180
200	–	0908200	3808200
225	–	0908225	3808225
250	–	–	3808250
280	–	–	3808280



INDIVIDUALIZATION

We offer a multitude of reduction inserts for special diameters, jacket pipes, inch sizes or wide versions.

For your contact to the WIDOS Team, please see rear side of the catalogue.

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

OPTIONS

COMPONENTS FOR WELDING FROM OD 20



PIPE BRACKETS

2500 - 160	2500 - 250	2500 - 315
Art.No.	Art.No.	Art.No.
3807372KP	380734KP	3806315KP



PIPE SUPPORTS

	2500 - 160	2500 - 250	2500 - 315
OD	Art.No.	Art.No.	Art.No.
20	0127020	3806020	-
25	0127025	3806025	-
32	0127032	3806032	0206032
40	0127040	3806040	0206040



REDUCTION INSERTS

	2500-160	2500-250	2500-315
OD	Art.No.	Art.No.	Art.No.
20	0128020	0908020	3808020
25	0128025	0908025	3808025
32	0128032	0908032	3808032
40	0128040	0908040	3808040

➤ We offer additional clamping tools for the 2500 – 315 model to fabricate T-45°, T-60°, T-90°, cross, and reduced fittings. For your contact to the WIDOS Team, please see rear side of the catalogue.



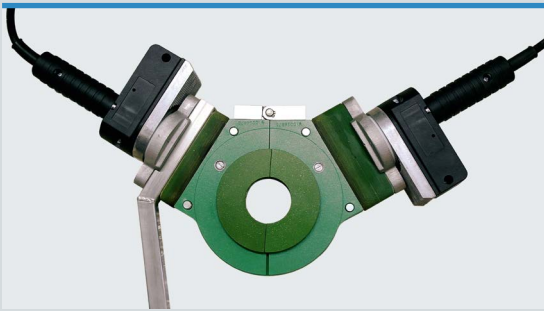
INDIVIDUALIZATION

We offer a large selection of special clamping tools for all 2500 machine models.

➤ We will be happy to assist you. Please see rear side of the catalogue for your contact to the WIDOS Team.

ADDITIONAL OPTIONS

WIDOS OFFERS NUMEROUS ADDITIONAL COMPONENTS, FOR EXAMPLE:



SPLIT HEATING ELEMENTS
for fitting fabrication of jacket pipes.

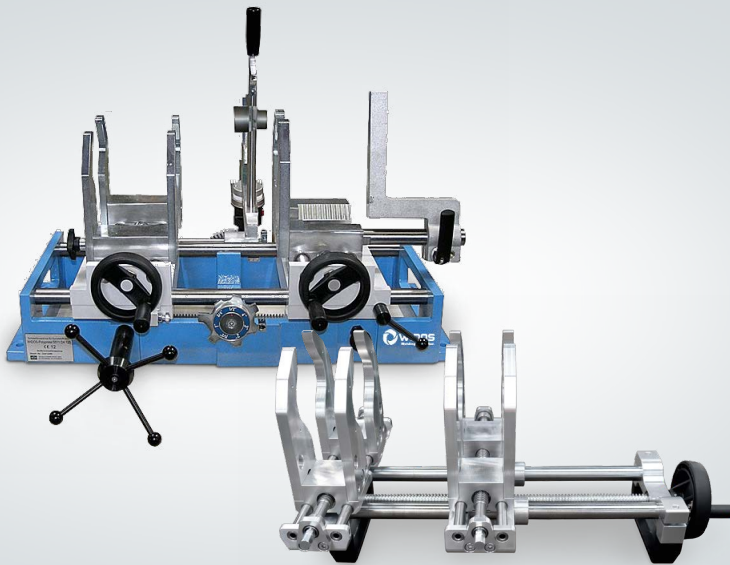
IR HEATING ELEMENTS

➤ We will be happy to assist you.
Please see rear side of the catalogue for your
contact to the WIDOS Team.

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

35XX | 3511 | JIG

SOCKET WELDING MACHINES



DESCRIPTION

The machines of this series are used for pre-fabrications in the workshop or on-site installations and suited for socket welding of pipes and fittings.

USE



DIAMETER OD 20 – 125

MATERIAL PE, PP, PVDF, other thermoplastics

MACHINE MODELS

The 35XX and 3511 machines are mounted on a solid frame. The carriages are counter-rotating and operated by handwheel. The clamping prisms are available in two sizes and allow for clamping of all pipes from OD 20 to OD 125.

The JIG welding device was developed especially for installation work. It is designed for the socket welding of pipes and fittings from OD 63 to 125. A hexagonal connection for use of a cordless screw-driver enables movement of the device. Alternatively, it is possible to operate the JIG device by handwheel.

35XX

3511

JIG

⊕ OD 20 – 125

⊕ OD 20 – 125

⊕ OD 63 – 125

MACHINE COMPONENTS 35XX | 3511



SOCKET HEATING ELEMENT

The swiveling heating element is equipped with electronic temperature regulation and on/off-switch.

The WIDOS 35XX heating element also includes a digital temperature display. Heating elements are available in 230 V and 110 V versions.



PRISMATIC CLAMPING TOOLS

for different dimensions.



ADJUSTMENT WHEEL 3511

Wheel for adjusting the depth stop according to the pipe diameter. The wheel includes a reference position for inserting the pipe pieces.

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

ARTICLE NUMBERS

	Art.No.
35XX	3752230
Basic Machine incl. Prismatic Clamping Tools	–
Heating Element	H35XXE
Tool Kit	ZWR35XX

	Art.No.
3511	3570350
Basic Machine incl. Prismatic Clamping Tools	3751000
Heating Element	H3511E
Tool Kit	ZWR3500
Adjustment Wheel *	
DVS type A	3751280
DVS type B	3751250

*We offer adjustment wheels for different welding standards.

[For your contact to the WIDOS Team, please see rear side of the catalogue.](#)

	Art.No.
JIG	3757200KP
Basic Machine incl. Prismatic Clamping Tools	3757200
Accessory Kit incl. Stop Plate for Prismatic Clamping Tool Angle Bracket for Fitting	3757101

TECHNICAL DATA

		35XX	3511	JIG
Power	Heating Element	1,8 kW	1,0 kW	–
Voltage	Heating Element	230 V	230 V	–
Total Weight		44,0 kg	44,0 kg	9,9 kg

PRISMATIC CLAMPING TOOLS



Pipe

Fitting

35XX

OD	Pipe	Fitting
20 – 50	3757216KP	3757119
	3757215KP	
	3757015	
	3757016	
50 – 125	3757214KP	3757117
	3757213KP	
	3757013	
	3757014	

3511

OD	Pipe	Fitting
20 – 50	3757115s	3757119
50 – 125	3757113S	3757117

MACHINES FOR FAB-SHOP AND ON-SITE INSTALLATIONS

HEATING SPIGOTS AND SOCKETS



DVS TYPE A NON-STICK COATED

OD	Art.No.	OD	Art.No.
20	HD020PS	63	HD063PS
25	HD025PS	75	HD075PS
32	HD032PS	90	HD090PS
40	HD040PS	110	HD110PS
50	HD050PS	125	HD125PS

DVS TYPE B NON-STICK COATED

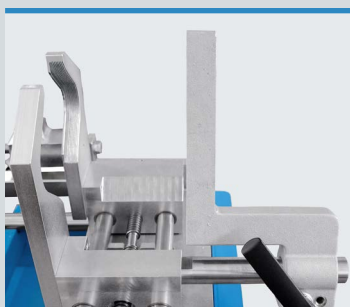
OD	Art.No.	OD	Art.No.
16	HD016SC	63	HD063SC
20	HD020SC	75	HD075SC
25	HD025SC	90	HD090SC
32	HD032SC	110	HD110SC
40	HD040SC	125	HD125SC
50	HD050SC		

OPTIONS



35XX

	Art.No.
Handwheel	3751160
Transport and Installation Case	TK35XX



3511

	Art.No.
Angle Bracket	3751004
Transport and Installation Case	TK3500

JIG

	Art.No.
Handwheel	3757102
Base Frame	6181C550





WELDING MACHINES FOR

FITTING FABRICATION

The solid WIDOS workshop machines are reliable and allow for multiple styles of fitting fabrications. Additionally, WIDOS offers customized solutions and adapts workshop machines to meet specific customer needs.



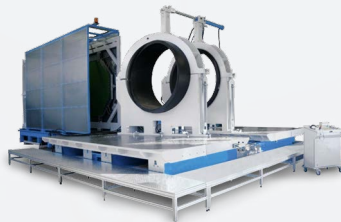
4001 | 4002

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<u>Article numbers</u>	pg. 57
<u>Technical data</u>	pg. 57
<u>Reduction inserts</u>	pg. 58
<u>Pipe supports</u>	pg. 59
<u>Special clamping tools</u>	pg. 60
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5000 WM – 12000 WM

<u>Machine models</u>	pg. 64
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16000 WM – 24000 WM

<u>Machine models</u>	pg. 71
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FITTING FABRICATION

4001 | 4002

MANUAL | SPA | WI-SPS



DESCRIPTION

The WIDOS 4001 and 4002 machine series are solid and reliable welding machines for pipes and fittings in the dimensions OD 90 to OD 315 and all SDR levels. The WIDOS 4002 S WI-SPS allows welding of PVC and C-PVC materials.

- The optionally available conversion kits extends the dimensional range to OD 450.

USE



DIAMETER OD 90 – OD 315, optional OD 450

MATERIAL PE, PP, PVDF, other thermoplastics
PVC and C-PVC (4002 S WI-SPS)

MACHINE MODELS

The machines are based on a self-supporting frame with precise linear guidings. The compact design allows for stationary and mobile use of the machine. Welding forces, guideways and speeds are manually regulated by a control lever, which includes separate pressure settings and a high-performance hydraulic system. A servo motor electrically moves the WIDOS 4002 S WI-SPS.

4001

- ⊕ OD 90 – 315
- ⊕ Optional OD 400

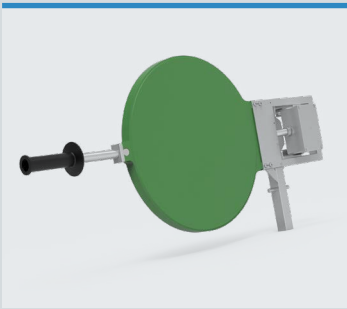
4002

- ⊕ OD 90 – 315
- ⊕ Optional OD 450

4002 S WI-SPS

- ⊕ OD 90 – 315

MACHINE COMPONENTS



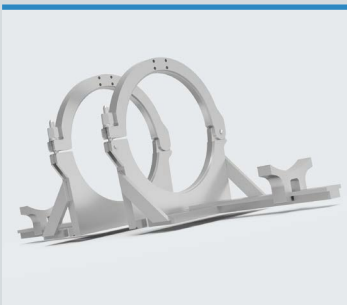
HEATING ELEMENT

The electronic heating element is non-stick coated and can be moved easily.



PLANER

A high torque planer in lightweight aluminium construction with solid chain drive and reversible cutting blades. The planer can easily be placed in-between the welding pieces and precisely locks into position.

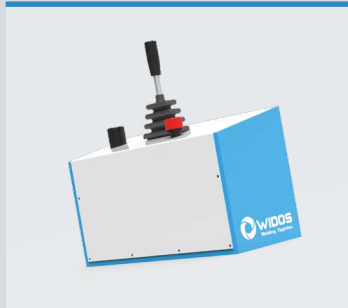


BASIC CLAMPING TOOLS

The solid clamping tools swivel up to 15° on both sides for fabricating segmented bends. To compensate for offset, one side can slide axially.

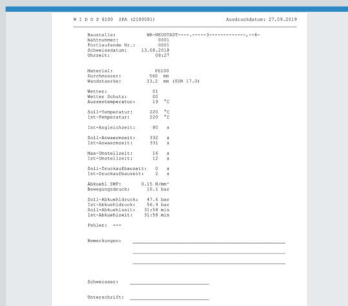
FITTING FABRICATION

CONTROL TECHNOLOGIES



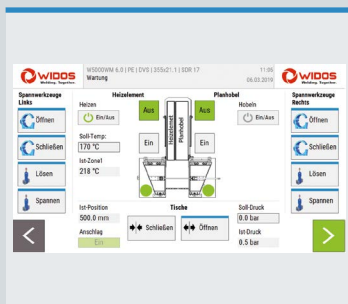
HYDRAULIC CONTROL UNIT MANUAL (only 4001 | 4002)

The manual hydraulic control allows for movement of the basic clamping rings and exact control of the welding pressure. Welding forces, guideways and speeds are manually regulated by a control lever, which includes separate pressure settings and a high-performance hydraulic system.



DATA LOGGER SPA

The data logger SPA is an extension of the manual hydraulic control unit. The SPA stores all relevant welding parameters, indicates nominal and actual values, and signals deviations.



CONTROL UNIT WI-SPS 6.0 (only 4002 S WI-SPS)

The WI-SPS 6.0 control unit turns welding into a program-controlled process with advanced monitoring for more process reliability. The position-measuring system ensures standardized welding. Special features, such as digital connection with mobile devices, enables innovative supervision of the weld process, easy protocol management, and remote control of the basic machine. The control unit comes fully equipped with many user-friendly functions, such as color touch display, parameter overview or entry of traceability barcodes.

ARTICLE NUMBERS

	4001	4002	4002 S WI-SPS
Standard Version	Art.No.	Art.No.	Art.No.
Basic Machine incl. Planer	0241230	0231220	1730230
Base Frame Steel Pipe	024101	024101	–
Heating Element	H4002E	H4002E	H4002C1
Protective Frame	–	–	172536
Control Unit WI-SPS 6.0	–	–	on request
Tool Kit	ZWR4001	ZWR4002	ZWR4002

TECHNICAL DATA

4001 manual	Heating Element	Planer	Hydraulic Pump
Power	3,6 kW	1,05 kW	0,3 kW
Voltage	230 V	230 V	230 V
Total Weight	269,0 kg		

4002 manual	Heating Element	Planer	Hydraulic Pump
Power	3,6 kW	1,15 kW	0,3 kW
Voltage	230 V	230 V	230 V
Total Weight	293,0 kg		

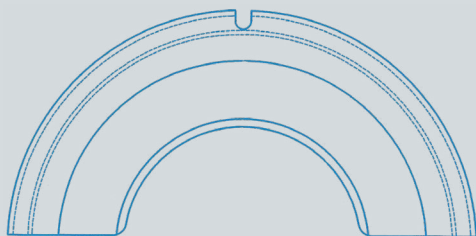
4002 S WI-SPS	Heating Element	Planer	Servo Drive
Power	3,5 kW	0,37 kW	2,9 kW
Voltage	230 V	400 V	400 V
Total Weight	325,0 kg		

4002 with Conversion Kit	Heating Element	Planer	Hydraulic Pump
Power	5,4 kW	1,4 kW	0,3 kW
Voltage	400 V	230 V	230 V
Total Weight	355,0 kg		

↗ We offer different voltage options for our 4001 | 4002 machines and components.
For your contact to the WIDOS Team, please see rear side of the catalogue.

FITTING FABRICATION

REDUCTION INSERTS SMALL VERSION



OD	Art.No.
90	0208090
110	0208110
125	0208125
140	0208140
160	0208160
180	0208180
200	0208200
225	0208225
250	0208250
280	0208280
315*	0208315
Adaptor OD 315	070725
355	0708355
400	0708400

➤ We offer a multitude of reduction inserts for special diameters, inch sizes or wide versions. For your contact to the WIDOS Team, please see rear side of the catalogue.

PIPE SUPPORTS SMALL VERSION



OD	Art.No.
90	0206090
110	0206110
125	0206125
140	0206140
160	0206160
180	0206180
200	0206200
225	0206225
250	0206250
280	0206280
315	0406315
355	0406355
400	0406400

PIPE BRACKETS

OD	Art.No.
315	023711
450	040711

FITTING FABRICATION

SPECIAL CLAMPING TOOLS
FOR FITTING FABRICATION

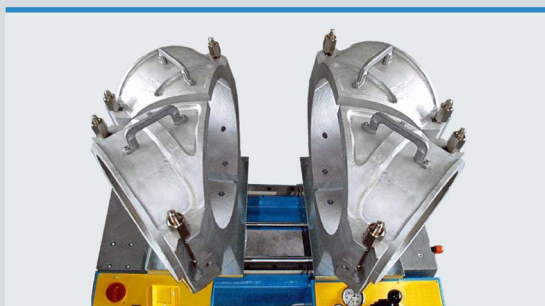
T-PIECE 90°

Art.No.

T-Piece 90°[0237T250SET](#)

T-PIECE 45°/60°

Art.No.

T-Piece 45°/60°[0237Y250SET](#)

CROSS PIECE

Art.No.

Cross Piece
(addition to T-Piece 90°)[0237K250SET](#)

REDUCTION INSERTS FOR SPECIAL CLAMPING TOOLS

REDUCTION INSERTS T-90°

OD	Art.No.	OD	Art.No.
90	0238T090KP	180	0238T180KP
110	0238T110KP	200	0238T200KP
125	0238T125KP	225	0238T225KP
140	0238T140KP		
160	0238T160KP		

REDUCTION INSERTS T-45°/60°

OD	Art.No.	OD	Art.No.
90	0238Y090KP	180	0238Y180KP
110	0238Y110KP	200	0238Y200KP
125	0238Y125KP	225	0238Y225KP
140	0238Y140KP		
160	0238Y160KP		

REDUCTION INSERTS CROSS PIECE (addition to T-90°)

OD	Art.No.	OD	Art.No.
90	0238K090KP	180	0238K180KP
110	0238K110KP	200	0238K200KP
125	0238K125KP	225	0238K225KP
140	0238K140KP		
160	0238K160KP		

FITTING FABRICATION

OPTIONS

4001 | 4002 CONVERSION KITS

The conversion kits extend the dimensional range of the machines to OD 450.



	4001	4002
Conversion Kit	Art.No.	Art.No.
Basic Machine without Planer	02410230	02310220
Base Frame	024101	incl.
Conversion Kit	S04450KP	S04450KP
Planer	0434220	0434220
Heating Element	H4002U	H4002U

OPTIONS



ADDITIONAL WORKING CYLINDER



ANGLE BRACKET
for short pipe ends and fittings.



DEVICE FOR ONE-SIDED PLANING



SPLIT HEATING ELEMENTS

	Art.No.
Additional Working Cylinder	043713
Angle Bracket	023712KP
Device for One-Sided Planing	023427KP
Split Heating Elements	on request
Stub End Holder	2161028

FITTING FABRICATION

5000 WM | 7000 WM 8000 WM | 12000 WM T

MANUAL | SPA | SPS



DESCRIPTION

The WIDOS workshop machines for pipes up to OD 1200 ensure the easy fabrication of high-quality fittings. The basic machines are an excellent basis for customized solutions. Special clamping tools allow for welding of special components such as corrugated pipes, insulating pipes and non-standard pipes.

USE



DIAMETER OD 160 – 1200

MATERIAL PE, PP, other thermoplastics

MACHINE MODELS

The machines of the WIDOS 5000 WM – 12000 WM series are equipped with planer and heating element. Various fittings, such as elbows, T-90°, T-45°, T-60° and cross pieces can be fabricated in various diameters.

	5000 WM	7000 WM	8000 WM	12000 WM T
Elbows 0 – 90°	+ OD 160 – 500	+ OD 200 – 630 (optional OD 800)	+ OD 400 – 800 (optional OD 1200)	+ OD 630 – 1200
T-Piece 90°	+ OD 160 – 500	+ OD 315 – 630	+ OD 400 – 800	+ OD 630 – 1200
T-Piece 45°/60°	+ OD 160 – 500	+ OD 315 – 630	+ OD 400 – 800	+ OD 630 – 1200
Cross Piece	+ OD 160 – 500	+ OD 315 – 630	+ OD 400 – 800	+ OD 630 – 1200

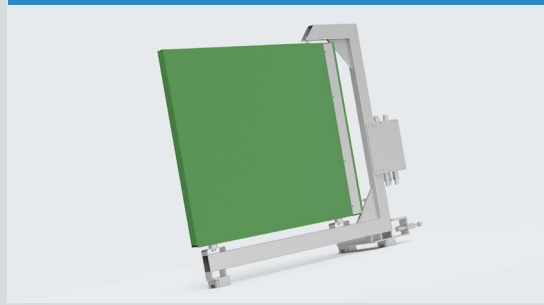
MACHINE COMPONENTS



BASIC MACHINE

The basic machine consists of two flexible machine tables floating on linear guidings and hydraulically operated. A pneumatic drive moves the heating element and planer in-between the clamping tools and backwards. All machines come equipped with a cross adjustment for horizontal offset compensation. The low construction height facilitates loading and unloading of the welding pieces.

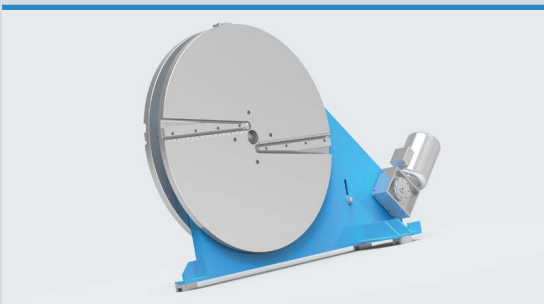
- A height adjustment for vertical offset compensation is optionally available.
- Depending on the model, the machine can be equipped with servo drive.



HEATING ELEMENT

The heating element features a high-quality non-stick coating and digital temperature control. Different heating zones ensure optimal heat distribution. Depending on the model, the heating zones can be regulated individually. The heating element is driven in-between the machine tables on linear guidings in electric or pneumatic mode, depending on the model.

- Optionally, the heating element can be covered with a PTFE plastic film.



PLANER

The planer is firmly fixed to the basic machine and features two lines of cutting blades on each side, equipped with hardened blades. A high torque motor moves the planer. Depending on the model, the planer is driven in-between the machine tables on linear guidings in electric or pneumatic mode.



CLAMPING TOOLS

The clamping tools have a wide supporting surface and are absolutely torsion-free. Mounted on a pivot point, the clamping tools can be exactly positioned and swiveled continuously. Opening and closing of the clamping tools is done manually or hydraulically, depending on the model size. Welding pieces are manually clamped. The reduction inserts are screwed directly into the basic clamping tool.

- Optionally, welding pieces can be clamped hydraulically.

ARTICLE NUMBERS

	5000 WM	7000 WM	8000 WM	12000 WM T
Basic Machine	Art.No.	Art.No.	Art.No.	Art.No.
Manual incl. Planer	3570350	1470700	1470G700	1480380T
Heating Element Manual	H3575320	H1475720	H1475G700	HW12002ET
SPA incl. Planer	3570350SP	1470700SP	1470G700SP	1480380TSP
Heating Element SPA	H3575320S1	H1475720S1	H1475G700SP	HW12002TS1
WI-SPS incl. Planer	on request	on request	on request	on request
Heating Element WI-SPS	on request	on request	on request	on request

TECHNICAL DATA

5000 WM	Hydraulic Unit	Planer	Heating Element
Power SPS	1,8 1,5 kW	1,5 kW	8,0 kW
Voltage	400 V	400 V	400 V
Total Weight	approx. 900 kg (depending on equipment)		

7000 WM	Hydraulic Unit	Planer	Heating Element
Power	3,0 kW	2,2 kW	21,6 kW
Voltage	400 V	400 V	400 V
Total Weight	approx. 3.200 kg (depending on equipment)		

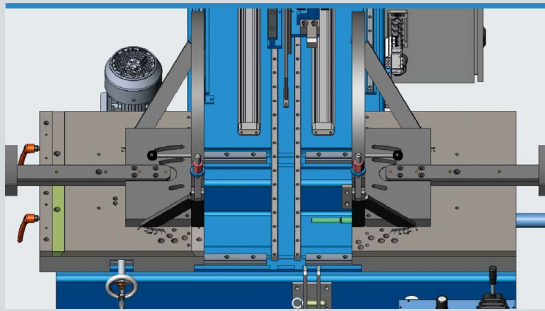
8000 WM	Hydraulic Unit	Planer	Heating Element
Power SPS	3,6 kW	2,5 2,2 kW	34,4 kW
Voltage	400 V	400 V	400 V
Total Weight	approx. 5.000 kg (depending on equipment)		

12000 WM T	Hydraulic Unit	Planer	Heating Element
Power	3,0 kW	4,0 kW	39,9 kW
Voltage	400 V	400 V	400 V
Total Weight	approx. 7.000 kg (depending on equipment)		

FITTING FABRICATION

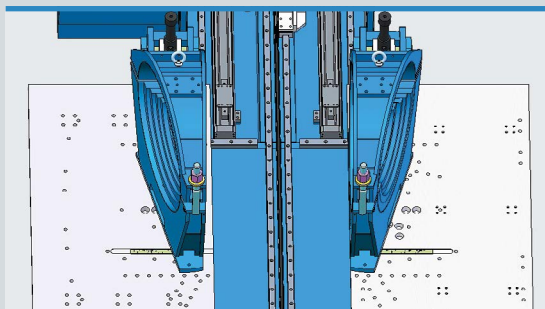
BASIC CLAMPING TOOLS

Basic clamping tools are available in narrow, 15° or 22.5° versions. The 15° and 22.5° basic clamping tools also allow for welding of straight pipe pieces by interchanging the clamping tools from the right-hand and left-hand side.



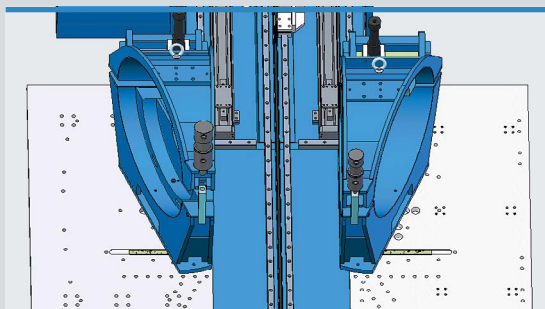
BASIC CLAMPING TOOL NARROW

	OD	Art.No.
5000 WM	500	S35500KP
7000 WM	630	S14630
	800 (optional)	S14800



BASIC CLAMPING TOOL 15°

	OD	Art.No.
5000 WM	500	3557500KP
7000 WM	630	1477560
	800 (optional)	1477580
8000 WM	1200	on request
12000 WM T	1200	on request



BASIC CLAMPING TOOL 22,5°

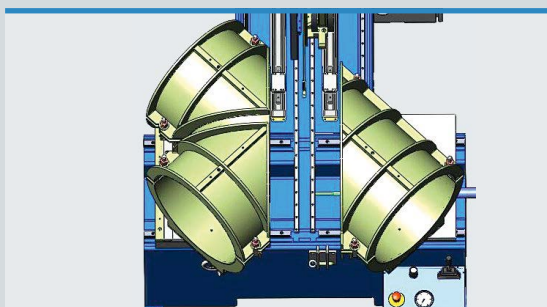
	OD	Art.No.
5000 WM	500	3557501KP
7000 WM	630	1477570
	800 (optional)	1477590
8000 WM	1200	on request
12000 WM T	1200	on request

REDUCTION INSERTS

We offer reduction inserts for all clamping tools.
For your contact to the WIDOS Team, please see rear side of the catalogue.

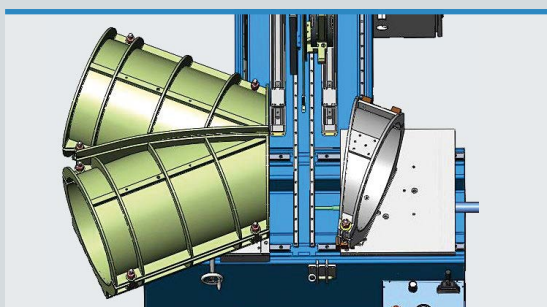
CLAMPING TOOLS FOR FITTING FABRICATION

The clamping tools are extremely stable. Screwable centring bolts and a built-in angle scale allow for quick and easy setting of all angles from 0° to 22.5°.



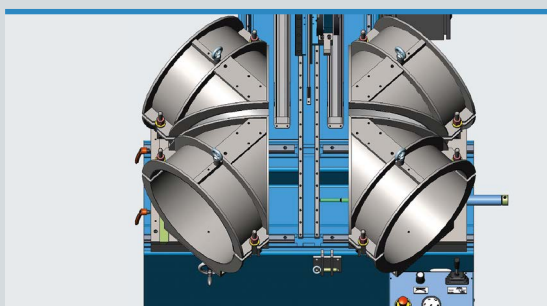
T-PIECE 90°

	OD	Art.No.
5000 WM	500	3578T500SET
7000 WM	630	1478T630SET
8000 WM	800	on request
12000 WM T	1200	on request



T-PIECE 45°/60°

	OD	Art.No.
5000 WM	500	3577Y500SET
7000 WM	630	1477Y630SET
8000 WM	800	on request
12000 WM T	1200	on request



CROSS PIECE

(addition to T-90°)

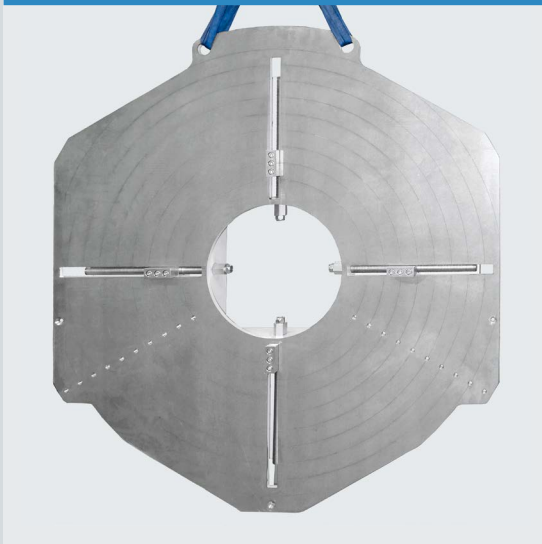
	OD	Art.No.
5000 WM	500	3577K500SET
7000 WM	630	1478K630SET
8000 WM	800	on request

WIDOS offers a wide variety of clamping tools for fabrication of diverse angles and fittings in all dimensions. Clamping tools can also be adapted individually to meet special requirements. The vast variety of clamping tools available exceeds the options stated above. We specialize in customized solutions. Contact us for your individual welding needs.

For your contact to the WIDOS Team, please see rear side of the catalogue.

FITTING FABRICATION

OPTIONS



STUB END HOLDERS SPINDLE VERSION

	OD	Art.No.
5000 WM	500	391900
7000 WM	630 800 (optional)	081900 on request
8000 WM	1200	2231150
12000 WM T	1200	2231150



DEVICE FOR ONE-SIDED PLANING

	Art.No.
5000 WM	3574329
7000 WM	1474719
8000 WM	1474G719
12000 WM T	1484650

ADDITIONAL OPTIONS

WIDOS offers a wide range of additional options:

- ⊕ Hydraulic cylinders for clamping of welding pieces
- ⊕ Hydraulic cylinders for opening and closing of clamping tools
- ⊕ Reduction inserts for pre-insulating pipes
- ⊕ Special heating elements

WIDOS specializes in customized solutions. Contact us for your individual welding needs.

For your contact to the WIDOS Team, please see rear side of the catalogue.

FITTING FABRICATION

16000 WM | 20000 WM 24000 WM

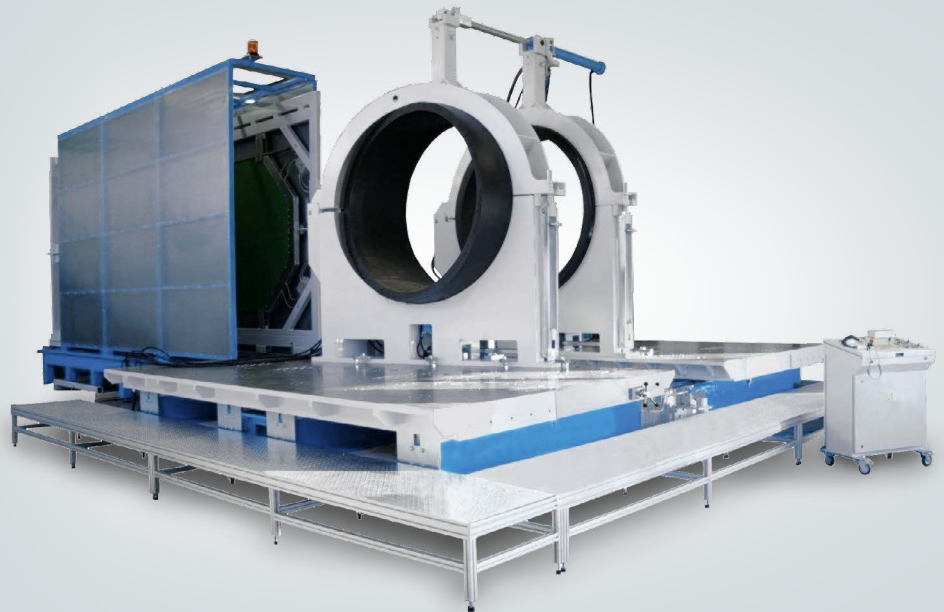
WELDING MACHINES FOR FITTING FABRICATION

DESCRIPTION

The WIDOS machines 16000 WM to 24000 WM ensure the convenient fabrication of high-quality fittings for pipes up to OD 2400. The basic machines are an excellent basis for individualized solutions. Special clamping tools allow for welding of special components such as corrugated pipes, insulating pipes and non-standard pipes.

➤ WIDOS specializes in large dimensions and customized solutions. Contact us for your individual welding needs.

For your contact to the WIDOS Team, please see rear side of the catalogue.



USE



DIAMETER OD 800 – OD 2400

MATERIAL PE, PP, other thermoplastics

MACHINE MODELS

16000 WM

⊕ OD 800 – 1600

20000 WM

⊕ OD 1000 – 2000

24000 WM

⊕ OD 1600 – 2400





SAWS & ACCESSORIES

The laser-guided sawing machines are perfect for the precise cutting of plastic pipes. WIDOS advanced cutting technology means time and cost savings with precise ends after cutting. The wide range of tools and accessories allows for optimal treatment of pipes before and after the weld.



Saws

<u>Circular Saw 500</u>	pg. 74
<u>Motorized Manual Saw Type 1 + Type 35</u>	pg. 74
<u>Sawing Machine RS 315 – RS 1600</u>	pg. 77



Original Accessories

<u>Bead Removers, Cutters, Roller Stands</u>	pg. 80
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SAWS

CIRCULAR SAW 500 MOTORIZED MANUAL SAW

TYPE 1 + TYPE 35



Circular Saw 500

Motorized Manual Saw

DESCRIPTION

The WIDOS Circular Saw 500 and Motorized Manual Saws are easily transported and suitable for mobile use. The Circular Saw 500 allows for rectangular cuts of plastic pipes from OD 180 to OD 500. The Motorized Manual Saws with chain guide allow for rectangular cuts of plastic pipes from OD 500 to OD 3500.

USE



MACHINE MODELS

The WIDOS Motorized Manual Saw Type 1 is suitable for cutting pipes with wall thicknesses up to 60 mm, the Motorized Manual Saw Type 35 is suitable for cutting pipes with wall thicknesses up to 110 mm.

CIRCULAR SAW
500

+ OD 180 – 500

MOTORIZED MANUAL SAW
TYPE 1 TYPE 35

+ OD 500 – 3500

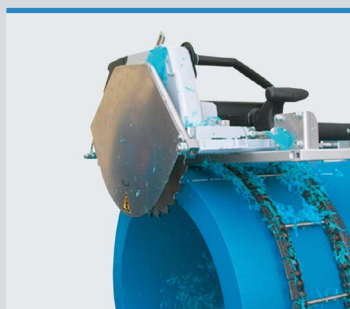
+ OD 500 – 3500

MACHINE COMPONENTS



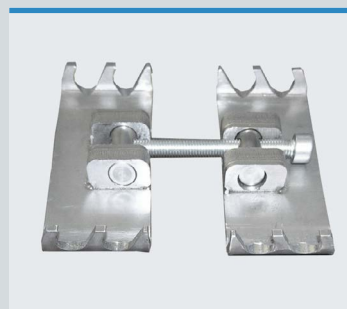
CIRCULAR SAW 500

The Circular Saw 500 consists of saw and transport case.



MOTORISED MANUAL SAW TYPE 1 | TYPE 35

The Motorized Manual Saws consist of saw and tension chain. The tension chain is placed around the pipe and fixed with the chain tightener. Moving the saw around the pipe enables a fast and neat cut. The chain tightener is suitable for all diameters.



ARTICLE NUMBERS

	Circular Saw 500 Art.No.	Motorized Manual Saw Type 1 Art.No.	Motorized Manual Saw Type 35 Art.No.
Saw with Sawblade	513030	541050	5414200
Chain Tightener	–	540115	540115
Tension Chain OD 500	–	K510500	K510500
Tension Chain OD 560	–	K510560	K510560
Tension Chain OD 630	–	K510630	K510630
Tension Chain OD 710	–	K510710	K510710
Tension Chain OD 800	–	K510800	K510800
Tension Chain OD 900	–	K510900	K510900
Tension Chain OD 1000	–	K5101000	K5101000
Tension Chain OD 1100	–	K5101100	K5101100
Tension Chain OD 1200	–	K5101200	K5101200
Tension Chain OD 1400	–	K5101400	K5101400
Tension Chain OD 1600	–	K5101600	K5101600
Sawblade	541036	541036	AM54003

➤ We offer tension chains in further dimensions up to OD 3500.

For your contact to the WIDOS Team, please see rear side of the catalogue.

SAWS

TECHNICAL DATA

	Circular Saw 500	Motorized Manual Saw Type 1	Motorized Manual Saw Type 35
Power	2,2 kW	2,2 kW	2,3 kW
Voltage	230 V	230 V	230 V
Cutting depth	60 mm	60 mm	up to 110 mm
Total Weight	23,0 kg	14,5 kg	28,0 kg

We offer different voltage options for our machines and components.
For your contact to the WIDOS Team, please see rear side of the catalogue.

OPTIONS



PIPE STAND

Art.No

Pipe Stand up to OD 500

513701



TENSION BELT

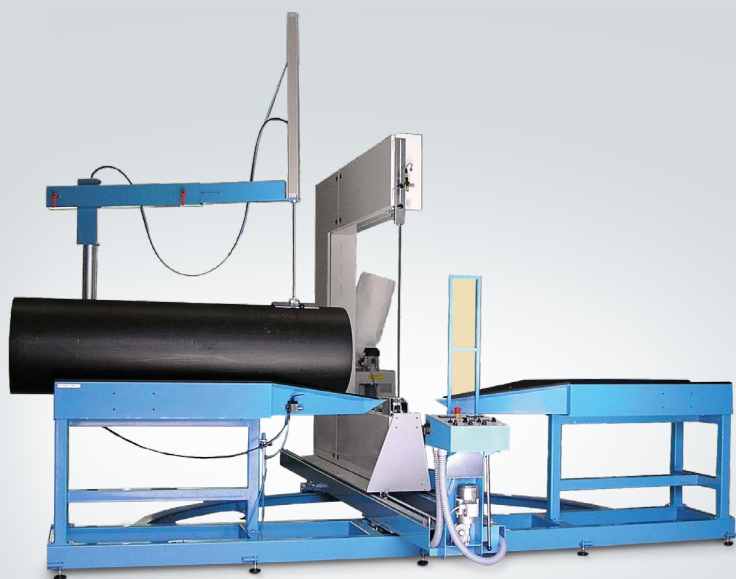
Art.No

Tension Belt up to OD 500

513702

SAWING MACHINE

RS 315 – RS 1600



DESCRIPTION

The WIDOS RS Sawing Machines RS were developed for exact cutting of plastic pipes and fittings from OD 50 to OD 1600. The saw arm is built on a rotating device and can be swiveled continuously from -45° to $+67.5^{\circ}$.

USE



ARTICLE NUMBERS

	RS 315	RS 630	RS 800	RS 1000	RS 1200	RS 1600
	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.
Sawing Machine	54400315	54400630	54400800	54401000	54401200	54401600
max. OD	315	630	800	1000	1200	1600

SAWS

TECHNICAL DATA

	RS 315	RS 630	RS 800	RS 1000	RS 1200	RS 1600
Voltage	400 V	400 V	400 V	400 V	400 V	400 V
Power	0,37 kW	1,5 kW	1,5 kW	2,7 kW	2,7 kW	2,7 kW
Total Weight	0,4 t	2,2 t	2,4 t	2,8 t	2,8 t	3,7 t

OPTIONS



SAW BANDS

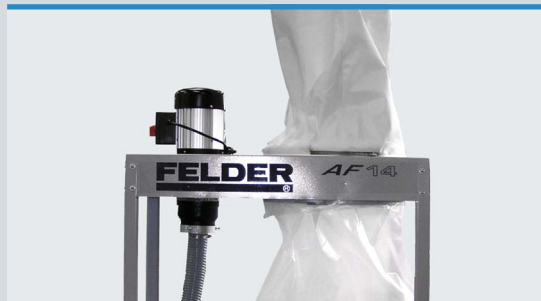
Sawing Machine		RS 315	RS 630	RS 800	RS 1000	RS 1200	RS 1600
Type		Art.No.	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.
4Z/Z	13x0,65 mm	540315	540630	540800	541000	541200	541600
6-10-ZPZ	13x0,65 mm	5403152	-	-	-	-	-
4 K SW 1,8	20x0,9 mm	-	5406301	5408001	5410001	5412001	-
4-6 ZpZ	20x0,9 mm	-	5406302	5408002	5410002	5412002	5416003
3K, SW 1,8	20x0,9 mm	-	-	-	-	-	5416001
3K	27x0,9 mm	-	-	-	-	-	5416002

OPTIONS



LINE LASER

	Art.No.
RS 315	993152
RS 630 – RS 1600	544001



VACUUM DEVICE

	Art.No.
RS 315	5431105
RS 630 – RS 1600	5440105



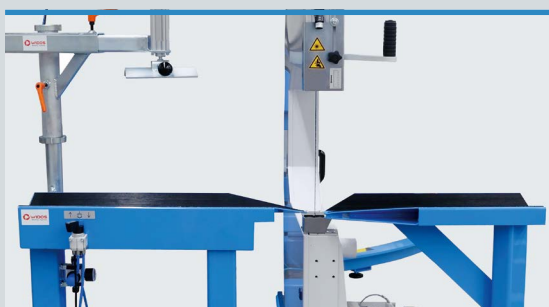
PNEUMATIC PIPE CLAMPING

	Art.No.
RS 315	5430204
RS 630	5440404
RS 800	5440304
RS 1000	5440204
RS 1200	5440104
RS 1600	5440604



CIRCULAR CUTTING DEVICE

We offer circular cutting devices in various sizes.
For your contact to the WIDOS Team, please see rear side of the catalogue.



PIPE SUPPORT RIGHT-HAND SIDE

	Art.No.
RS 315	5431220

WIDOS ORIGINAL ACCESSORIES

ACCESSORIES

OUTSIDE BEAD REMOVERS
OD 20 – 90

OD	Art.No.
20	5650020
25	5650025
32	5650032
40	5650040
50	5650050
63	5650063
75	5650075
90	5650090
Spare Blade	MES285



Size	Spare Blade
80	MES029
160	MES052
300	MES052
500	MES060

OUTSIDE BEAD REMOVERS

The lightweight WIDOS Outside Bead Removers allow for safe and easy removal of the outer welding bead. The tools can be used for pipes OD 20 to OD 1200.

OUTSIDE BEAD REMOVERS
OD 110 – 1200

Size	OD	Art.No.	Spare Blade
1	110 - 160	5650160	MES029
2	140 - 250	5650250	MES039
3	180 - 315	5650315	MES039
4	280 - 450	5650450	MES052
6	450 - 630	5650630	MES060
8	630 - 1000	56501000	MES071
9	900 - 1200	56501200	-
Storage Case (Size 1 – 4)		TK56160	

INSIDE BEAD REMOVERS

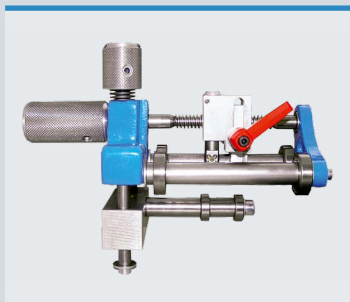
The WIDOS Inside Bead Removers allow for removal of the inner welding bead and can be used for pipes ID 90 to ID 500. The tool set consists of cutting head with cutting depth limitation, spacers, guiding rods up to 12 m insertion depth, and transport case.

The guiding rods can be assembled in various lengths. An extension package with guiding rods for pipe lengths up to 20 m is optionally available.

Size	ID	Art.No.
80	-	-
160	90 – 160	560040
300	160 – 300	561040
500	300 – 500	564040

Extension package: guiding rods up to 20 m

160	90 – 160	5600401
300	160 – 300	5610401
500	300 – 500	564001



PIPE PEELING TOOL

The WIDOS Pipe Peeling Tool was developed for ideal preparation of pipe ends for electro socket welding on site. The peeling blades feature two peeling surfaces, which can be reversed for extended use. The scope of delivery includes an aluminium case for safe storage.

Size	OD	Art.No.
1	32 – 125	5200110
2	110 – 500	5200500
Spare Blade		MES5X5



PIPE CUTTERS

Size	OD	Art.No.	Spare Cutting Wheel
1	6 – 67	W550100	W550101
2	50 – 140	W550110	W550121
3	90 – 170	W550120	W550121



PIPE CHAMFERING TOOL

Size	OD	Art.No.
1	32 – 75	W510200
2	32 – 250	W510300
3	250 – 500	W510500
Spare Blade		MES040



PIPE SCISSORS

Size	OD	Art.No.
1	0 – 26	W550026
2	0 – 42	W550042
3	0 – 63	W550063



DEBURRER WITH SPECIAL BLADE

	Art.No.
Deburrer with special blade	W550190
Spare Blade	W550191

WIDOS ORIGINAL ACCESSORIES



MANUAL SCRAPER

	Art.No.
Manual Scraper	W-ZK



HIGH-LIGHTER, SILVER

	Art.No.
High-lighter, silver	W-MARKER



HOLDING DEVICES

Size	OD	Art.No.
1	20 – 40	411001
2	50 – 90	411002
3	110 – 180	411003



ROLLER STAND
Mini | Maxi



ROLLER STAND
height adjustable



ROLLER STAND
Type 1 | Type 2

	max. OD	max. load	Art.No.
Roller Stand Mini	315	500 kg	320500
Roller Stand Maxi	630	750 kg	320750
Roller Stand, height adjustable	315	500 kg	320500KP
Roller Stand Type 1	630	1.000 kg	321000
Roller Stand Type 2	1200	2.000 kg	322000



PIPE-CLEANING CLOTHS

	Art.No.
Pipe-cleaning cloths	W-RRT



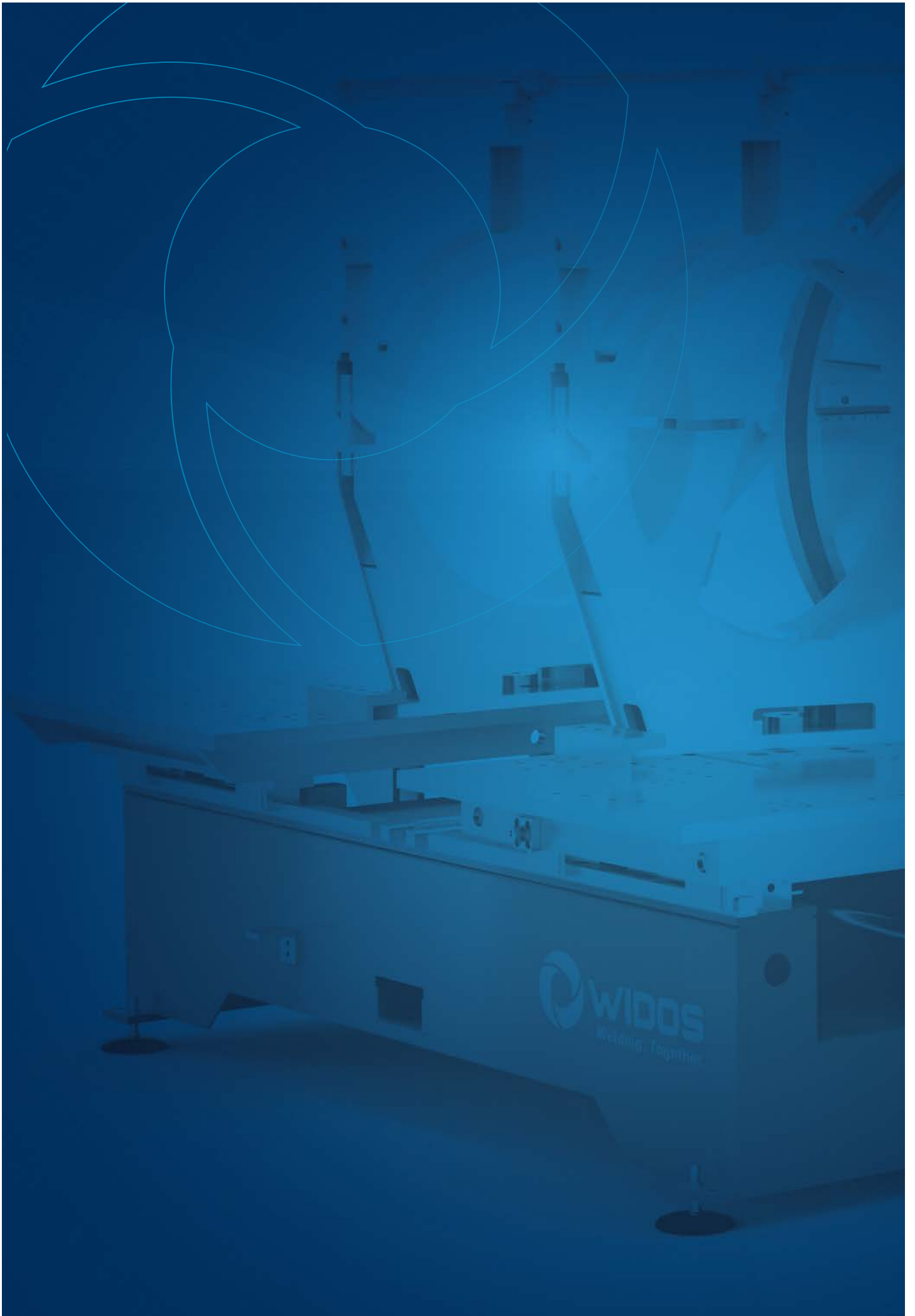
TIMER

	Art.No.
Timer	TMZ1000



TEMPERATURE
MEASURING DEVICE

	Art.No.
Temperature measuring device	TM1100



YOU WANT TO LEARN MORE ABOUT WIDOS WELDING MACHINES?

We will be happy to assist you.
On the phone, through our websites, or in person.

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