



PLASTIC PIPE WELDING TECHNOLOGY

ROTHENBERGER CHINA

Reliability, Efficiency and Flexibility: Welcome to the World of ROTHENBERGER

Pipelines conveying energy and water are the world's lifelines. Just like the veins in the human body, they guarantee that warmth, fuels and lifebringing fluids reach their recipients – an important contribution to the overall quality of human life. For more than 70 years now, ROTHENBERGER has been supporting all those whose daily work helps not only to ensure that these lifelines reach more and more people, but also to maintain them in an excellent condition: by supplying innovative and reliable highest quality pipetools and machinery that can be found in the hands of excellent skilled craftsmen and on construction sites all around the globe.



Field connection welding machine (φ 40-3000 mm)

ROTHENBERGER Manual butt fusion welding machine

	R110M2 R160M2 R200M2 R200M4	07
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ROTHENBERGER Semi-auto butt fusion welding machine

	R160F R250F R315F R355F	08
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	R450F R500F R630F	09
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	R800F R1000F R1200F	10
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	R1600F R2000F	11
	R2500F、R3000F	Customization

ROTHENBERGER Intelligent CNC automatic butt fusion welding machine

	R160C R250C R315C R355C	12
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	R250CG R355CG	13
	R450CG-R1600CG	Customization

	R450C R630C R800C R1000C R1200C	15
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	R1600C R2000C R3000C	16
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ROTHENBERGER ASTM standard high pressure butt fusion welding machine

	R250FH R315FH	17
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	R450FH R630FH	18
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	Above 630 Semi-auto and CNC butt fusion welding machine	Customization
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ROTHENBERGER Crawler CNC welding machine

	R315CT R630CT R1200CT	19
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ROTHENBERGER Electrofusion welding machine

	R315E R315EI	20
	R630EI、R1000EI	Customization

ROTHENBERGER Drainage welding machine

	R160D R315D	21
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	R315-40D	22
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Traditional product line (φ 63-1200 mm)

Semi-auto butt fusion welding machine

	SHD160 SHD250 SHD315 SHD355	23
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	SHD160-II SHD250-II SHD315-II SHD355-II	23
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	SHD160-III SHD250-III SHD315-III SHD355-III	24
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	SHD450 SHD500 SHD630	25
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	SHD800 SHD1000 SHD1200	26
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Workshop fitting machine and Cutting equipment (φ 63-3000 mm)

ROTHENBERGER Workshop fitting machine

	R315W	29
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	R450W R630W R800W	30
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	R1000W R1200W R1600W R2000W	31
	R2500W、R3000W	Customization

ROTHENBERGER High pressure fitting machine

	R315WH R450WH R630WH R800WH R1000WH R1200WH	32
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ROTHENBERGER Multi angle band saw

	R315B R630B R800B R1000B	33
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	R1200B R1600B R2000B	34
	R2500B、R3000B	Customization

ROTHENBERGER Saddle radius band saw

	R315A R630A	35
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ROTHENBERGER Saddle fusion machine

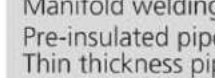
	R315S	35
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	R630S R1200S	36
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ROTHENBERGER Ball valve fitting welding machine

	Single/ Multi welding station	37
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Other equipment and tools

	Manifold welding machine Pre-insulated pipe welding machine Thin thickness pipe band saw	38
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	ROTHENBERGER Data logger R2000D	39
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Pipe tools

	Socket welder Manual welding extruder Pipe cutter Deburrer Saw Chamfering tool Bead Remover Peeling device for socket Clamping device for socket welding Squeezing device Support roller Welding support roller Rounding device	40
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Field connection welding machine



ROTHENBERGER Manual butt fusion welding machine

R110M2/R160M2/R200M2/R200M4



Application and Features

- ▶ Suitable for butt welding of plastic pipes and fittings made of PE, PP and PVDF material.
- ▶ Consists of basic frame, planing tool, heating plate, basket & optional parts.
- ▶ Removable PTFE coated heating plate.

Technical Parameters

Model	R110M2	R160M2	R200M2	R200M4
Pipe Size(mm)	40, 50,63,75,90,110	50,63,75,90,110,125,140,160	63,75,90,110,125,140,160,180,200	63,75,90,110,125,140,160,180,200
Heating Plate Max.Temp	270°C	270°C	270°C	270°C
Temp. Deviation in Surface (170~250°C)	±5°C	<±5°C	<±5°C	<±5°C
Working Voltage	220VAC 50Hz	220VAC、50Hz	220VAC、50Hz	220VAC、50Hz
Heating Plate Power	0.7KW	1KW	1.5KW	1.5KW
Planing Tool Power	0.7KW	0.7KW	0.7KW	0.7KW
Total Power	1.4KW	1.7KW	2.2KW	2.2KW
Weight	39KG	46KG	60KG	69KG
Packing	1 Plywood cases 0.24CBM	2 Plywood cases 0.31CBM	2 Plywood cases 0.44CBM	2 Plywood cases 0.9CBM

ROTHENBERGER Semi-auto butt fusion welding machine

R160F/R250F/R315F/R355F



Application and Features

- ▶ Rothenberger patent for hydraulic station, safe, reliable and more powerful.
- ▶ Rothenberger design patent for frame, ergonomic, robust and reliable.
- ▶ Powerpac power control unit provides safety and stability.
- ▶ Precise temperature control and small deviation on the heating plate surface to apply high welding standard.
- ▶ Precise, reliable and powerful planing tools to ensure high welding quality.
- ▶ Single inserts as the option to ensure higher connection alignment.

Technical Parameters

Model	R160F	R250F	R315F	R355F
Pipe Size(mm)	40,50,63,75,90,110,125,140,160	63,75,90,110,125,140,160,180,200,225,250	90,110,125,140,160,180,200,225,250,280,315	90,110,125,140,160,180,200,225,250,280,315,355
Heating Plate Max.Temp	270°C	270°C	270°C	270°C
Temp.Deviation in Surface (170~250°C)	±5°C	±5°C	±5°C	±5°C
Pressure Adjustable Ranges	0-6.3Mpa	0-6.3Mpa	0-6.3Mpa	0-6.3Mpa
Working Voltage	220V AC、50Hz	220V AC、50Hz	220V AC、50Hz	220V AC、50Hz
Heating Plate Power	1KW	2KW	3KW	4KW
Planing Tool Power	0.7KW	1.1KW	1.1KW	1.1KW
Hydraulic Unit Power	0.75KW	0.75KW	0.75KW	0.75KW
Total Power	2.45KW	3.85KW	4.85KW	5.85KW

ROTHENBERGER Semi-auto butt fusion welding machine
R450F/R500F/R630F



Technical Parameters

Model	R450F	R500F	R630F
Pipe Size(mm)	200.220.225.250.280.315.355.400.450	200.225.250.280.315.355.400.450.500	315.355.400.450.500.560.630
Heating Plate Max.Temp	270°C	270°C	270°C
Temp.Deviation in Surface	<±7°C	<±7°C	<±7°C
Pressure Adjustable Ranges	0-8Mpa	0-8Mpa	0-8Mpa
Working Voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz
Heating Plate Power	5.38KW	6.5KW	9.35KW
Planing Tool Power	1.5KW	1.5KW	1.5KW
Hydraulic Unit Power	1.5KW	1.5KW	1.5KW
Crane Power	0.25T/0.56kw	0.25T/0.56kw	0.25T/0.56kw
Total Power	8.38KW	9.5KW	12.35KW
Weight	560KG	700KG	780KG
Packing			
Cases	4 Plywood cases	4 Plywood cases	4 Plywood cases
Volume	3.16CBM	4.43 CBM	4.43 CBM

ROTHENBERGER Semi-auto butt fusion welding machine
R800F/R1000F/R1200F



Technical Parameters

Model	R800F	R1000F	R1200F
Pipe Size(mm)	450.500.560.630.710.800	630.710.800.900.1000	630.710.800.900.1000.1100.1200
Heating Plate Max.Temp	270°C	270°C	270°C
Temp.Deviation in Surface	±7°C	±7°C	±7°C
Pressure Adjustable Ranges	0-16Mpa	0-16Mpa	0-16Mpa
Working Voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz
Heating Plate Power	12.5KW	17.5KW	21.5KW
Planing Tool Power	2.2KW	3KW	4KW
Hydraulic Unit Power	3KW	3KW	3KW
Crane Power	0.5T/1.1kw	0.5T/1.1kw	1T/1.5kw
Total Power	18.2KW	24KW	29.5KW
Weight	1360KG	2600KG	2740KG
Packing			
Cases	5 Plywood cases	5 Plywood cases	5 Plywood cases
Volume	8.39 CBM	15.0CBM	19.54 CBM

ROTHENBERGER Semi-auto butt fusion welding machine
R1600F/ R2000F
R2500F/R3000F(Customization)



ROTHENBERGER Intelligent CNC automatic butt fusion welding machine
R160C/R250C/R315C/R355C



Technical Parameters

Model	R1600F	R2000F
Pipe Size(mm)	1000,1100 ,1200,1400 ,1600	1200,1400,1600,1800,2000
Heating Plate Max.Temp	270°C	270°C
Temp.Deviation in Surface	≤±10°C	≤±10°C
Pressure Adjustable Ranges	0-25Mpa	0-16Mpa
Working Voltage	380V AC 3P+N+PE 50Hz	380V AC 3P+N+PE 50Hz
Heating Plate Power	42KW	80KW
Planing Tool Power	7.5KW	7.5KW
Hydraulic Unit Power	7.5KW	7.5KW
Total Power	57KW	95KW
Weight	5200KG	20570KG

Application and Features

- ▶ Pre-installed welding standard such as CTSG, ISO, DVS, GIS, etc.
- ▶ Real-time data printing, recording function and USB port available.
- ▶ Standard with single inserts to improve the accuracy of pipeline alignment.
- ▶ BDS/GPS Positioning and remote data transmission function available.
- ▶ Part of SMART GAS . CLOUD WELDING system, easy extension.

Technical Parameters

Model	R160C	R250C	R315C	R355C
Pipe Size(mm)	90,125,110,160	90,110,160,200,250	110,160,200,250,315	160,200,250,315 ,355
Heating Plate Max.Temp	270°C	270°C	270°C	270°C
Temp.Deviation in Surface (170~250°C)	≤±5°C	≤±5°C	≤±5°C	≤±5°C
Pressure Adjustable Ranges	0.4-6Mpa	0.4-6Mpa	0.4-6Mpa	0.4-6Mpa
Working Voltage	220VAC 50Hz	220VAC 50Hz	220VAC 50Hz	220VAC 50Hz
Heating Plate Power	1KW	2KW	3KW	4KW
Planing Tool Power	0.7KW	1.1KW	1.1KW	1.1KW
Hydraulic Unit Power	0.75KW	0.75KW	0.75KW	0.75KW
Total Power	2.45KW	3.85KW	4.85KW	5.85KW

ROTHENBERGER Intelligent CNC automatic butt fusion welding machine R250CG/R355CG
Above 355 (Customization)



ROTHENBERGER Intelligent CNC automatic butt fusion welding machine R250CG/R355CG



Application and Features

- ▶ Portable vehicle solution, complete package for field installation. Multi drawers to store all inserts, cables, different hand tools.
- ▶ Welding can be conducted on the vehicle, heating plate and trimmer are mechanically operated, very ergonomic for operators.
- ▶ The frame, heating plate and trimmer also can be separated from the vehicle to adapt to different applications.
- ▶ Pre-installed welding standard such as CTSG, ISO, DVS, GIS, etc.
- ▶ Part of MES management system, easy extension.
- ▶ Electric fusion and hand tools as option.

Technical Parameters

Model	R250CG	R355CG
Pipe Size(mm)	90-250	90-355
Heating Plate Max.Temp	270°C	270°C
Temp.Deviation in Surface (170~250°C)	±5°C	±5°C
Pressure Adjustable Ranges	0.4-6Mpa	0.4-6Mpa
Working Voltage	220VAC 50Hz	220VAC 50Hz
Heating Plate Power	2KW	4KW
Planing Tool Power	1.1KW	1.1KW
Hydraulic Unit Power	0.75KW	0.75KW
Total Power	3.85KW	5.85KW

ROTHENBERGER Intelligent CNC automatic butt fusion welding machine
R450C/R630C/R800C/R1000C/R1200C



Application and Features

- ▶ Equipped with PLC and touch screen control system.
- ▶ Pre-installed welding standard such as CTSG, ISO, DVS, GIS, etc.
- ▶ Real-time data printing, recording function and USB port available.
- ▶ BDS/GPS Positioning and remote data transmission function.
- ▶ Hydraulic operated trimmer and heating plate as option.

Technical Parameters

Model	R450C	R630C	R800C	R1000C	R1200C
Pipe Size(mm)	200,225,250,280, 315,355,400,450	315,355,400,450, 500,560,630	450,500,560,630, 710,800	630,710,800, 900,1000	630,710,800,900, 1000,1100,1200
Ambient Temp.	-5°C~45°C	-5°C~45°C	-5°C~45°C	-5°C~45°C	-5°C~45°C
Heating Plate Max. Temp	270°C	270°C	270°C	270°C	270°C
Temp.Deviation in Surface(170~250°C)	±7°C	±7°C	±7°C	±7°C	±7°C
Pressure Adjustable Ranges	0.4-8MPa	0.4-8MPa	0.4-12MPa	0.4-12MPa	0.4-16MPa
Working Voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz
Heating Plate Power	5.38KW	9.35	12.5KW	17.5KW	21.5KW
Planing Tool Power	1.5KW	1.5KW	2.2KW	3KW	4KW
Hydraulic Unit Power	2.2KW	2.2KW	4KW	4KW	5KW
Total Power	9.08KW	13.05KW	18.7KW	24.5KW	30.5KW

ROTHENBERGER Intelligent CNC automatic butt fusion welding machine
R1600C/R2000C/R3000C



Technical Parameters

Model	R1600C	R2000C
Pipe Size(mm)	1000,1100 ,1200,1400 ,1600	1200,1400,1600,1800,2000
Heating Plate Max.Temp	270°C	270°C
Temp.Deviation in Surface(170~250°C)	±10°C	±10°C
Pressure Adjustable Ranges	0-16Mpa	0-16Mpa
Working Voltage	380V AC 3P+N+PE 50Hz	380V AC 3P+N+PE 50Hz
Heating Plate Power	42.24KW	80KW
Planing Tool Power	7.5KW	7.5KW
Hydraulic Unit Power	7.5KW	7.5KW
Total Power	57.24KW	95KW
Weight	9000KG	20570KG

ROTHENBERGER ASTM standard high pressure butt fusion welding machine

R250FH/R315FH



Application and Features

- ▶ Suitable to weld SDR7 HDPE pipes under ASTM, ISO high-pressure welding standards.
- ▶ Strong trimmer unit, with hydraulic motor driving system.
- ▶ Robust frame and clamps.
- ▶ Crane are available for big machine to lift trimmer and heating plate.
- ▶ Transportation cart available upon customer demand.
- ▶ CNC system available to customer request.

Technical Parameters

Model	R250FH	R315FH
Pipe Size(mm)	63.75.90.110.125.140.160.180.200.225.250	90.110.125.140.160.180.200.225.250
Pipe Size(inch)	2". 3". 4". 5". 6". 8"	3". 4". 5". 6". 8". 10".12"
Heating Plate Max.Temp	270°C	270°C
Temp.Deviation in Surface (170~250°C)	±7°C	±7°C
Pressure Adjustable Ranges	0-14Mpa	0-14Mpa
Working Voltage	380V±10% 50/60Hz 3P	380V±10% 50/60Hz 3P
Heating Plate Power	2KW	3KW
Hydraulic Unit Power	2.2KW	2.2KW
Total Power	4.2KW	5.2KW
Weight (kg)	N.W 230; G.W 310	N.W 299; G.W 392

ROTHENBERGER ASTM standard high pressure butt fusion welding machine

R450FH/R630FH



Crane(optional)

Stub end device for short flange (optional)

Technical Parameters

Model	R450FH	R630FH
Pipe Size(mm)	200.225.250.280.315.355.400.450	315.355.400.450.500.630
Pipe Size(inch)	8". 10".12".14".16".18"	12".14".16".18".20".22".24"
Heating Plate Max.Temp	270°C	270°C
Temp.Deviation in Surface (170~250°C)	±7°C	±7°C
Pressure Adjustable Ranges	0-16 Mpa	0-16 Mpa
Working Voltage	380V±10% 50/60Hz 3P	380V±10% 50/60Hz 3P
Heating Plate Power	5.38KW	9.35KW
Hydraulic Unit Power	5.5KW	5.5KW
Crane Power	0.8KW	0.8KW
Total Power	10.88KW	14.85KW
Weight (kg)	N.W 803; G.W 987	N.W 1260; G.W 1500

ROTHENBERGER Semi-auto butt fusion welding machine
R315CT/R630CT/R1200CT



Application and Features

- ▶ With its own generator and intelligent automatic welding machine, it realizes the flexibility and integration of field operation.
- ▶ Pre-set welding standard, such as DVS, ISO, GIS, TSG, etc. Also can use user-defined function to set your own standard to meet your demand.
- ▶ The machine is equipped with GPS/BDS positioning system and data transition modular.
- ▶ Part of ROTHENBERGER Smart Gas · Cloud Welding, the customer can use the software of ROTHENBERGER welding information management system RO-WIS to manage their project welding quality.

Technical Parameters

Model	R315CT	R630CT	R1200CT
Pipe Size(mm)	110,160,200,250,315	315,355,400,450,500,560,630	630,710,800,900,1000,1100,1200
Heating Plate Max.Temp	270°C	270°C	270°C
Temp.Deviation in Surface (170-250°C)	≤±5°C	≤±7°C	≤±7°C
Pressure Adjustable Ranges	0.4-6Mpa	0.4-8MPa	0.4-16MPa
Working Voltage	220VAC 50Hz	380VAC 50Hz	380VAC 50Hz
Heating Plate Power	3KW	9.35	21.5KW
Planing Tool Power	1.1KW	1.5KW	4KW
Hydraulic Unit Power	0.75KW	2.2KW	5KW
Generator Power	5KW	18KW	50KW
Track Operating Voltage	48V	48V	48V

ROTHENBERGER Electrofusion welding machine
R315E/R315EI
R630EI/R1000EI (Customization)



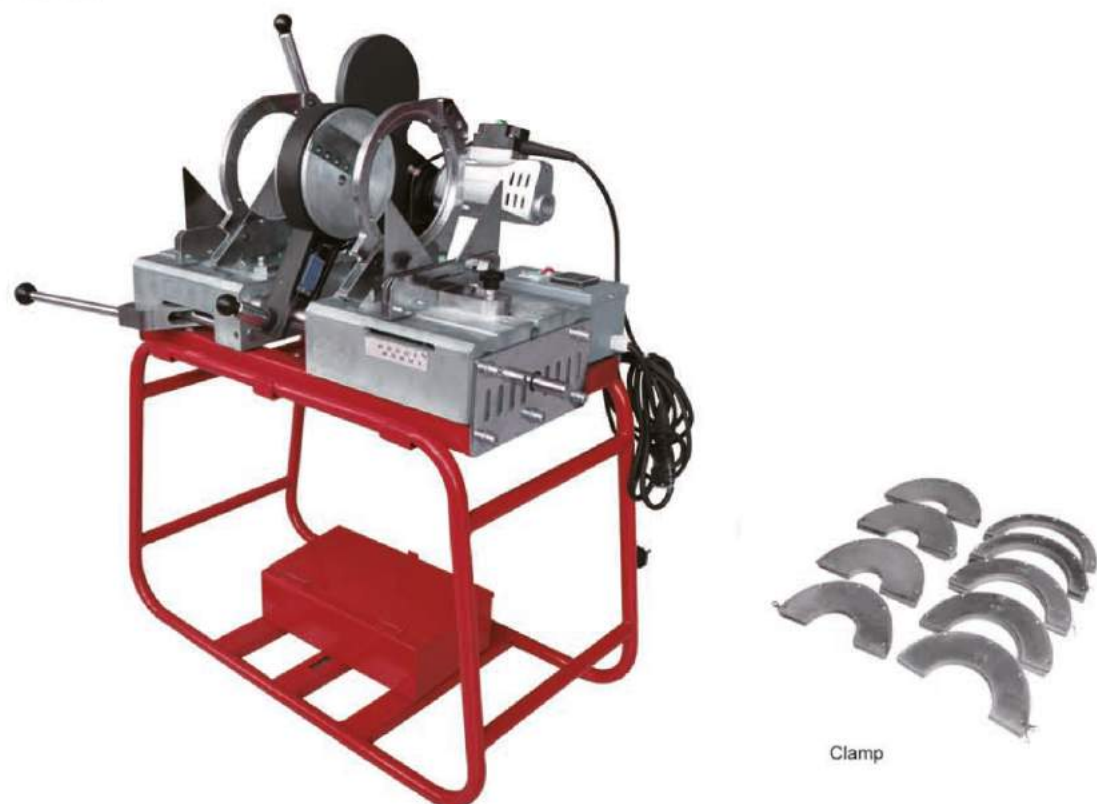
Application and Features

- ▶ High-level MCU is used as control core , with abundant parameter setting, measuring and perfect protective function.
- ▶ Wide power supply and voltage input, suitable for field electrical network level.
- ▶ High precision control of electrical stability and time, insuring welding quality.
- ▶ Swift output response time when power supply breaks,high stability.
- ▶ Multi-program suitable for welding requirement of various fittings.
- ▶ Flexible welding parameter input mode; manual input through keyboard or bar code scanning input.
- ▶ SMART GAS · CLOUD WELDING is available.

Technical Parameters

Model	R315E	R315EI
Welding specification (reference)	Dn20-315mm	Dn20-315mm
Input voltage	2φ AC220V±20%	2φ AC220V±20%
Input frequency	40-65Hz	40-65Hz
Rated current / Rated voltage	60A / 70V	60A / 70V
Rated power	3.5KW	3.5KW
Control mode	Constant volt / Constant current	Constant volt / Constant current
Time control precision	≤±0.01%	≤±0.01%
Temperature measuring precision	≤1%	≤1%
Weight	30Kg	15Kg
Packing size	396*203*335mm	396*203*335mm

ROTHENBERGER Drainage welding machine R160D/R315D



Application and Features

- ▶ Suitable for butt welding of plastic pipes and fittings made of PE, PP, and PVDF material.
- ▶ Removable PTFE coated heating plate with high accurate temperature control system.
- ▶ Mechanical lock to maintain welding pressure.

Technical Parameters

Model	R160D	R315D
Pipe Size(mm)	50,63,75,90,110,125,140,160	110,160,180,200,225,250,280,315
Application	Pipe with pipe of fittings,fitting with fittings	Pipe with pipe of fittings,fitting with fittings
Heating Plate Max. Temp	260°C	260°C
Temp.Deviation in Surface(170~250°C)	<±5°C	<±5°C
Working Voltage	220V、50Hz	220V/240V、50Hz
Planing Tool Power	0.7KW	1.1KW
Heating Plate power	1KW	2.2KW
Total Power	1.7KW	3.3KW
Weight	54KG	183KG

ROTHENBERGER Drainage welding machine R315-40D



Technical Parameters (40-160 Fusion Welding machine)

Pipe Size(mm)	40,50,63,75,90,110,125,140,160
Applicable Material	PE,PP,PB,PVDF
Max.Power	1800W
Heating Plate Power	1000W
Planing Tool Power	800W
Basic Frame Size	920×510×850mm
Weight	100KG
Temp.Deviation in Surface(170~250°C)	180—280°C

Technical Parameters (200-315 Fusion Welding machine)

Pipe Size(mm)	200,250,315
Applicable Material	PE,PP,PB,PVDF
Max.Power	3000W
Heating Plate Power	2200W
Planing Tool Power	800W
Basic Frame Size	920×510×850mm
Weight	90KG
Temp.Deviation in Surface(170~250°C)	180—280°C

Traditional product line

Semi-auto butt fusion welding machine
SHD160/SHD250/SHD315/SHD355



Semi-auto butt fusion welding machine
SHD160-II/SHD250-II/SHD315-II/SHD355-II



Integrated data logger
Hydraulic unit (Optional)

Semi-auto butt fusion welding machine
SHD160-III/SHD250-III/SHD315-III/SHD355-III



Hydraulic unit A (Optional)

Hydraulic unit B (Optional)

Hydraulic unit C (Optional)

Technical Parameters

Model	SHD160	SHD250	SHD315	SHD355
Pipe Size(mm)	63,75,90,110,125	63,75,90,110,125,140	90,110,125,140,160,180	90,110,125,140,160,180
Heating Plate Max. Temp	140,160	160,180,200,225,250	200,225,250,280,315	200,225,250,280,315,355
Temp.Deviation in Surface (170~250°C)	270°C ≤±5°C	270°C ≤±5°C	270°C ≤±5°C	270°C ≤±5°C
Pressure Adjustable Ranges	0-7Mpa	0-7Mpa	0-7Mpa	0-7Mpa
Working Voltage	220V AC、50Hz	220V AC、50Hz	220V AC、50Hz	220V AC、50Hz
Heating Plate Power	1KW	2KW	3KW	4KW
Planing Tool Power	0.7KW	1.1KW	1.1KW	1.1KW
Hydraulic Unit Power	0.75KW	0.75KW	0.75KW	0.75KW
Total Power	2.45KW	3.85KW	4.85KW	5.85KW

Semi-auto butt fusion welding machine
SHD450/SHD500/SHD630



Crane (optional)

Stub end device for short fange (Optional)

Technical Parameters

Model	SHD450	SHD500	SHD630
Pipe Size(mm)	200.225.250.280.315.355.400.450	200.225.250.280.315.355.400.450.500	315.355.400.450.500.560.630
Heating Plate Max.Temp	270°C	270°C	270°C
Temp.Deviation in Surface (170~250°C)	<±7°C	<±7°C	<±7°C
Pressure Adjustable Ranges	0-8Mpa	0-8Mpa	0-8Mpa
Working Voltage	380VAC、3P+N+PE、50Hz	380VAC、3P+N+PE、50Hz	380VAC、3P+N+PE、50Hz
Heating Plate Power	5.38KW	6.5KW	9.35KW
Planing Tool Power	1.5KW	1.5KW	1.5KW
Hydraulic Unit Power	1.5KW	1.5KW	1.5KW
Crane Power	0.25T/0.56KW	0.25T/0.56KW	0.25T/0.56KW
Total Power	8.38KW	9.5KW	12.35KW
Weight	560Kg	700KG	780KG
Packing	Cases 4 Plywood Cases Volume 3.16CBM	4 Plywood Cases 4.43CBM	4 Plywood Cases 4.43CBM

Semi-auto butt fusion welding machine
SHD800/SHD1000/SHD1200



Stub end Device for Short Fange (Optional)

Technical Parameters

Model	SHD800	SHD1000	SHD1200
Pipe Size(mm)	450.500.560.630.710.800	630.710.800.900.1000	630.710.800.900.1000.1100.1200
Heating Plate Max.Temp	270°C	270°C	270°C
Temp.Deviation in Surface (170~250°C)	±7°C	±7°C	±7°C
Pressure Adjustable Ranges	0-16Mpa	0-16Mpa	0-16Mpa
Working Voltage	380VAC、3P+N+PE、50Hz	380VAC、3P+N+PE、50Hz	380VAC、3P+N+PE、50Hz
Heating Plate Power	12.5KW	17.5KW	21.5KW
Planing Tool Power	2.2KW	3KW	4KW
Hydraulic Unit Power	3KW	3KW	3KW
Crane Power	0.5T/0.9KW	0.5T/0.9kw	1T/1.5KW
Total Power	18.2KW	24KW	29.5KW
Weight	1360Kg	2600Kg	2740Kg
Packing	Cases 5 Plywood Cases Volume 8.39 CBM	5 Plywood Cases 15.0 CBM	5 Plywood Cases 19.54 CBM

Workshop fitting machine and Cutting equipment



ROTHENBERGER Workshop fitting machine

R315W



Application and Features

- ▶ PLC and touch screen automatic control system.
- ▶ Integrated data logger, to collect and store the actual welding parameters up to 2000 joints. The welding records can be printed out and transferred by USB sticks.
- ▶ By using a proportional solenoid valve, pressure transmitter and PLC combination to achieve closed-loop pressure control, automatic pressure regulating.
- ▶ Automatic pressure compensation function.
- ▶ In order to ensure the welding quality, our welding machine uses the welding synchronization system, so that the purpose of heating and welding two surfaces at the same time is achieved.

Production Type



Technical Parameters

Model	R315W	
Pipe Sizes (mm)	90,110,125,140,160,180,200,225,250,280,315	
Application	0~90°Elbow, tee, cross, 45° and 60° wyes (optional parts should be used)	
Heating Plate Max. Temp.	270°C	
Temp. deviation in surface(170~250°C)	±7°C	
Pressure adjustable ranges	6MPa	
Working Voltage	380V,50Hz	
Heating Plate Power	5KW	
Planing tool power	1.5 KW	
Hydraulic unit power	0.75 KW	
Total Power	7.25 KW	
Weight	884KG (exclude optional parts)	
Packing	Cases	4 Plywood Cases
	Volume	3.1 CBM

ROTHENBERGER Workshop fitting machine

R450W/R630W/R800W



Production Type



Technical Parameters

Model	R450W	R630W	R800W
Pipe Sizes (mm)	200,225,250,280,315,355,400,450	315,355,400,450,500,560,630	450,500,560,630,710,800
Application	0~90°elbow, tee, cross, 45° and 60° wyes(optional parts should be used)	0~90°elbow, tee, cross, 45°and 60° wyes(optional parts should be used)	0~90° Elbow,tee,cross,45°,60° Wyes(optional parts should be used)
Heating Plate Max.Temp	270°C	270°C	270°C
Temp. deviation in surface(170~250°C)	±7°C	±7°C	±7°C
Pressure Adjustable Rnges	0~14MPa	0~14MPa	0~14MPa
Working Voltage	380V,50Hz	380V,50Hz	380V 50Hz
Heating Plate Power	12.2KW	22.25KW	39.23KW
Planing tool power	2.2 KW	3KW	4KW
Hydraulic unit power	3.0 KW	4.0 KW	4KW
Total Power	17.4KW	29.25KW	47.23KW
Weight	2850KG	3510KG	4900KG
Packing	Cases	4 Plywood Cases	11 Plywood Cases
	Volume	14.66 CBM	22.7 CBM

ROTHENBERGER Workshop fitting machine
R1000W/R1200W/R1600W/R2000W
R2500W/3000W (Customization)



Production Type



Technical Parameters

Model	R1000W	R1200W	R1600W	R2000W
Pipe sizes (mm)	630,710,800,900,1000	630,710,800,900,1000,1200	1000,1100,1200,1400,1600	1200,1400,1600,1800,2000
Working ranges Elbow	0~90° Elbow,tee,cross,45°,60° Wyes(optional parts should be used)	0~90° Elbow,tee,cross,45°,60° Wyes(optional parts should be used)	0~90° Elbow,tee,cross,45°,60° Wyes(optional parts should be used)	0~90° Elbow,tee,cross,45°,60° Wyes(optional parts should be used)
Heating Plate Max. Temp.	270°C	270°C	270°C	270°C
Temp. deviation in surface (170~250°C)	±10°C	±10°C	±10°C	±10°C
Pressure adjustable ranges	0~14MPa	0~15MPa	0~15MPa	0~16MPa
Working Voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC、3P+N+PE、50Hz
Heating plate power	47.2kw	61.39kw	100kw	225kw
Planing tool power	4kw	7.5kw	15kw	7.5kw
Hydraulic unit power	4kw	7.5kw	21kw	27.7kw
Total power	55.2kw	76.39kw	138kw	260.2kw

ROTHENBERGER High pressure fitting machine
R315WH/R450WH/R630WH
R800WH/R1000WH/R1200WH



Production Type



Technical Parameters

Model	R1200WH
Applicable materials	PE、PP、HDPE
Welding range (inch)	28",30",32",34",36",42",48"
Max thickness of welding wall	48"-SDR7
Welding type	0~90°
Cover type of elbow jig	Hydraulic pressure cover and hydraulic pressure
Angle adjustment range of elbow jig	0°~22.5°
Ambient temp	-5~45°C
Working Voltage	380VAC 3P+N+PE 50Hz
Total current	150A
Total power	89.2KW
Among them: heating plate	61KW
Planing Tool	7.5KW
Main hydraulic Unit	11KW
Clamp hydraulic Unit	2.2KW
Tighten hydraulic Unit	7.5KW
Ground insulation resistance	>1MΩ
Max working pressure	25 MPa
Hydraulic oil	40~50 (viscosity mm2/s, 40°C)
Heating Plate Max.Temp	270°C
Temp.Deviation in Surface	±7°C

Application and features

- ▶ Pre-installed ASTM and ISO high pressure welding standard.
- ▶ Strong structure to apply high pressure.
- ▶ PLC and touch screen automatic control system.
- ▶ Integrated data logger, to collect and store the actual welding parameters up to 2000 joints. The welding records can be printed out and transferred by USB sticks.

ROTHENBERGER Multi angle band saw
R315B/R630B/R800B/R1000B



ROTHENBERGER Multi angle band saw
R1200B/R1600B/R2000B
R2500B/R3000B (Customization)



Application and Features

- ▶ Applied to solid pipes or structured wall pipes made of thermoplastic such as PE and PP, and also other pipe and fittings made of non-metal materials.
- ▶ Suitable for cutting pipes according to specified angle and dimension while making an elbow, tee or cross, which lowest the material waste and improve the welding efficiency.
- ▶ Cutting angle 0~67.5° accurate angle location.
- ▶ Self inspection and stop of the machine in case of saw blade breaks enables to guarantee operator's safety.

Technical Parameters

Model	R315B	R630B	R800B	R1000B
Working ranges	≤315mm	≤630mm	≤800mm	≤1000mm
Cutting angle	0-67.5°	0-67.5°	0-67.5°	0-67.5°
Cutting angle error	≤1°	≤1°	≤1°	≤1°
Line speed	0- 250m/min	0- 250m/min	0- 250m/min	0- 250m/min
Feed speed	Adjustable	Adjustable	Adjustable	Adjustable
Working voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz
Total power	2.25KW	3.7KW	3.7KW	3.7KW
Total weight	884KG	1900KG	2300KG	4000KG

Technical Parameters

Model	R1200B	R1600B	R2000B
Working ranges	≤1200mm	≤1600mm	1200≤dn≤2000mm
Cutting angle	0-67.5°	0-67.5°	0-67.5°
Cutting angle error	≤1°	≤1°	≤1°
Line speed	0- 250m/min	0- 250m/min	0- 165m/min
Feed speed	Adjustable	Adjustable	Adjustable
Working voltage	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz	380VAC 3P+N+PE 50Hz
Total Power	10.2KW	10.2KW	6.95KW
Total Weight	7000KG	8000KG	15700KG

ROTHENBERGER Ball valve fitting welding machine
Single / Multi welding station



Other equipment and tools



Manifold welding machine

Application and Features

- ▶ To weld two banches to main body of plastic ball valves.
- ▶ The operator will verify the allignment of the parts after planing. Then only press button to complete the welding processes automatically. It is simple and high efficient.
- ▶ Pre-set welding standard, such as DVS, ISO, GIS, TSG, etc. Also can use user-defined function to set your own standard to meet your demand. With user friendly interface, the operator can complete the welding process easily following the guidance of pre-set welding standard.



Pre-insulated pipe welding machine
Thin thickness pipe band saw

Other equipment and tools

ROTHENBERGER Data logger R2000D



Pipe cutter



Deburrer



Socket welder



SHS32/20



SHS63/20



SHS110/75



SHS160

Pipe cutter



Manual welding extruder



Hot air welding



Reciprocating saw



Band saw



Pipe cutter



SC6/64



SC50/127
2'-5"



SC200/110

Chamfering tool



Outside bead remover



Inside bead remover



Peeling device for socket



Bead width gauge



Clamping device for socket welding



Squeezing device



Welding support roller



Rounding device



ROTHENBERGER Worldwide

- | | |
|----------------|----------------|
| Australia | Italy |
| Austria | Middle East |
| Belgium | Netherlands |
| Brazil | Poland |
| Bulgaria | Romania |
| China | Russia |
| Czech Republic | South Africa |
| Denmark | Spain |
| France | Sweden |
| Germany | Switzerland |
| Greece | Turkey |
| Hungary | United Kingdom |
| India | USA |

