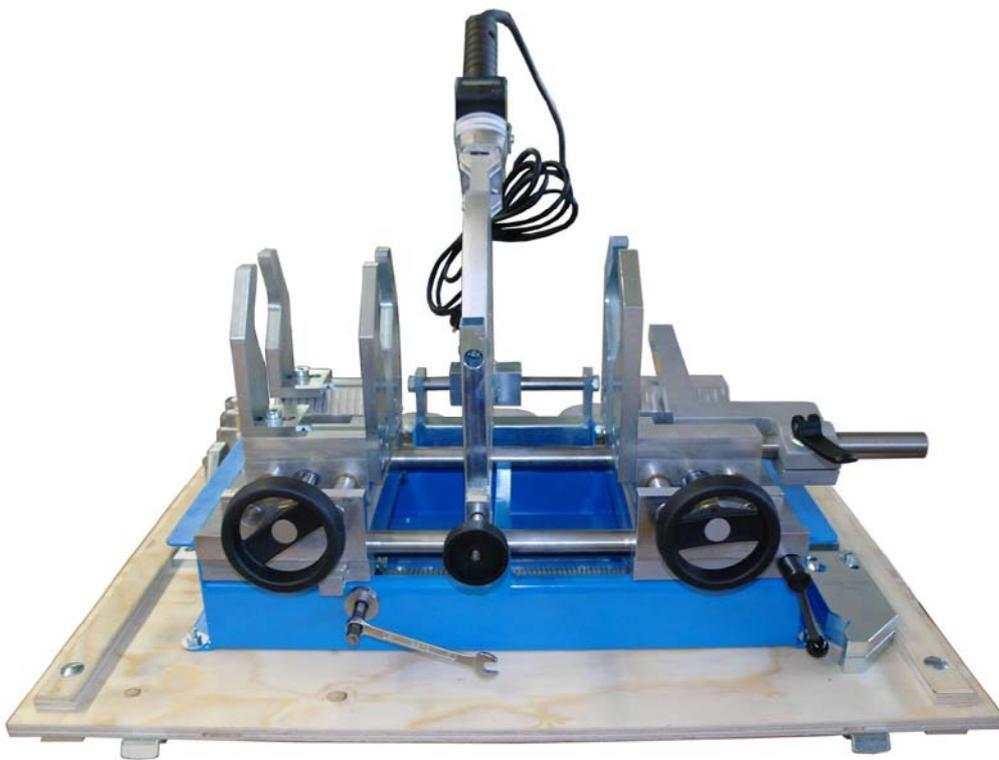


Working instructions Translation

Heating element socket welding machine

WIDOS 35XX



Keep for further use!

Model:	Heating element socket welding machine
Type:	WIDOS 35XX
Serial number / year of construction:	see type label

Customer entries

Inventory No.:	
Location:	

Order of spare parts and sales service:

Address of manufacturer

WIDOS
Wilhelm Dommer Söhne GmbH
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Purpose of the document

These working instructions give you information about all important questions which refer to the construction and the safe working of your machine.

Just as we are, you are obliged to engage in these working instructions, as well.

Not only to run your machine economically but also to avoid damages and injuries.

Should questions arise, contact our advisers in the factory or in our subsidiary companies.

We will help you with pleasure.

According to our interest in making our products and working instructions continuously better, we kindly ask you to inform us about problems and defects which occur in exercise.

Thank you.

Structure of the working instructions

The working instructions are arranged in chapters, which belong to the different using phases of the machine.

Therefore the searched information can be found easily.



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Wilhelm Dommer Söhne GmbH

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Any changes prior to technical innovations.

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1. Description of product

This chapter gives important basic information about the product and its prescribed use.

All technical details of the machine are put together as a general arrangement.

1.1. Usage and purpose-oriented use

The WIDOS 35XX is exclusively designed for the heating element socket welding of pipes and fittings out of PE, PP and PVDF with an outside diameter range from 20 mm to 125 mm (optional to 150 mm).

At heating element socket welding, pipe and fitting are welded overlapping.

The heated tool is adjusted to the size of the fitting in a way that a joining pressure is built up at joining.

Heating element socket joints up to 50 mm pipe diameter can be performed manually.

For diameters as from 63 mm, the use of a welding device is necessary due to the high joining pressure.

The motion for socket welding is controlled by means of a combination spanner or turnstile (optional) and a toothed rack.

All use of this machine going beyond is not purpose oriented.

The machine is only to be used in a technically perfect condition, as well as purpose oriented, safety- and danger-conscious in compliance with the working instructions and the relevant safety regulations (especially the regulations for the prevention of accidents).

The described plastic welding machine may only be operated, maintained and repaired by persons trained and informed about the dangers.

The manufacturer is not responsible for any damages caused by inexpert handling or operation.

For personal injuries, material and immaterial damages resulting herefrom, only the user is responsible!

Prescribed use also means:

- following all indications in these working instructions and
- performing the inspection and maintenance works.

1.2. Safety measures

In case of wrong use, wrong operation or wrong maintenance, the machine itself or products standing nearby can be damaged or destroyed.

Persons being in the endangered area may be injured.

Therefore these working instructions have to be thoroughly read and the corresponding safety advices must be necessarily adhered to.

1.3. Conformity

The machine corresponds in its construction to the valid recommendations of the European Community as well as to the European standard specifications.

The development, manufacturing and mounting of the machine were made very carefully.

1.4. Designation of the product

The product is designated by a type label at basic machine and heating element.

The labels contain the type of the machine, the serial number and the year of construction.

1.4.1. Technical data

1.4.1.1. WIDOS 35XX General data

Material:	PP, PE, PVDF, PB
Pipe diameter range:	OD = 20 - 125 mm (optional to 150 mm)
Transport box (l x w x h):	850 x 670 x 680 mm
Total weight (net):	49 kg
Protection:	16 A
Emissions:	- When using the named pipe materials and when welding below 260 °C or 500 °F no toxic damp arises.
Ambient conditions:	<ul style="list-style-type: none"> - Keep the workshop clean (especially the welding area must be clean) - If secured by an appropriate measurement that allowed conditions for welding are indicated, it is possible to work in any outside temperature condition as far as the welder is not constrained in its manual skill- Avoid humidity, if necessary put up a tent - Avoid strong sun beams - If it is windy shut the pipe endings

1.4.1.2. Heating element

Power:	1800 Watt	1800 Watt
Voltage:	230 V (± 10%)	110 V (± 10%)
Current:	7,83 A (± 10%)	16,36 A (± 10%)
Wire cross section:	1,5 mm ²	1,5 mm ²
Frequency:	50 Hz	60 Hz
Weight:	approx. 3,5 kg	approx. 3,5 kg
Attached elements:	<ul style="list-style-type: none"> - electronic temperature control - control lamp - connecting cable with plug 	

1.5. Equipment and accessories

The following accessories are included in the initial scope of delivery:

<i>Pieces</i>	<i>Denomination</i>
1 each	Allan key size 4 / 5 / 6 / 7 mm
1	Combination spanner size 10 (for opening and closing the slide)
1 set	Gripping tools for pipes OD 20 – 50 mm
1 set	Gripping tools for pipes OD 50 – 125 mm
1 set	Gripping tools for fitting OD 29 – 68 mm
1 set	Gripping tools for fitting OD 75 – 167 mm

The following **optional** accessories are available on request:

<i>Pieces</i>	<i>Denomination</i>
1	Turnstile, attachable (for opening and closing the slide)
1	Open-ended wrench size 22; 24 (adjusting nut and counter nut)
1 set	Gripping tools for fitting OD 29 – 68 mm NIBCO
1 set	Gripping tools for pipes OD 50 – 150 mm
1 set	Spigot and socket OD 20 – 125 mm complete DVS type B
1 set	Spigot and socket OD 20 – 125 mm complete DVS type A
1 set	Spigot and socket OD 20 – 125 mm complete ASTM (mm)
1 set	Spigot and socket OD 20 – 125 mm complete ASTM (inch)
1	Pipe chamferer for 15°-chamfering the pipe end
1 set	Gripping tools for pipes OD 63 – 167 mm

2. Safety rules

A basic premise for working safely and without disturbances is the knowledge of the basic safety signs and safety rules.

- These working instructions provide you with the most important information to run the machine safely.
- The safety information must be followed by all persons who work at the machine.

2.1. Explanation of the different symbols

The working instructions contain the following signs for certain situations:



This symbol means a possibly danger for the life and the health of persons.
The disrespect of these indications may have heavy consequences for the health.



This symbol means a possible dangerous situation.

- The disrespect of these indications may cause slight injuries or damages on goods.



This symbol means a possible dangerous situation due to hot surfaces.

- The disrespect of these indications may conduct to heavy burns, respectively to self-ignition or even fire.



This symbol means a possible dangerous situation by moving parts of the machine

- The disrespect of these indications may cause heavy crushing of parts of the body resp. damages of parts of the machine.



This symbol gives important indications for the proper use of the machine.

- The disrespect of these indications may conduct to malfunctions and damages on the machine or on goods in the surrounding.



Under this symbol you get user tips and particularly useful information.

- It is a help for using all the functions on your machine in an optimal way and helps you to make the job easier.

The regulations for the prevention of accidents are valid (UVV).

2.2. Obligations of the owner

The owner is obliged only to let persons work at the machine who

- know about basic safety and accident prevention rules and are instructed in the handling of the machine, as well as who
- have read and understood the safety chapter of this manual and certify this by their signature.

The safety-conscious working of the staff has to be checked in regular intervals.

2.3. Obligations of the worker

All persons who are to work at the machine are obliged before working:

- to follow the basic safety and accident protection rules.
- to have read and understood the safety chapter and the warnings in this manual and to confirm by their signature that they have well understood them.
- to inform themselves about the functions of the machine before using it.

2.4. Measure of organization

- All equipment required for personal safety is to be provided by the owner.
- All available safety equipment is to be inspected regularly.

2.5. Information about safety precautions

- The working instructions have to be permanently kept at the place of use of the machine.
- They are to be at the operator's disposal at any time and without much effort.
- In addition to the manual, the common valid and the local accident protection rules and regulations for the environmental protection must be available and followed.
- All safety and danger indications on the machine have to be in a clear readable condition.
- Every time the machine changes hands or is being rent to third persons, the working instructions are to be sent along with and their importance is to be emphasized.

2.6. Instructions for the staff

- Only skilled and trained persons are allowed to work at the machine.
- It must be clearly defined who is responsible for transport, mounting and dismounting, and starting the operation.
- A person who is being trained may only work at the machine under supervision of an experienced person.

2.7. Dangers while handling the machine

The machine **WIDOS 35XX** is constructed according to the latest technical standard and the acknowledged technical safety rules.

However, dangers for the operator or other persons standing nearby may occur. Also material damages are possible.

The machine may only be used

- according to the purpose-oriented use
- in safety technical impeccable status

Disturbances which may affect the safety of the machine must be cleared immediately.

2.8. Maintenance, inspection and repair



All maintenance and repair work have to be basically performed with the machine in off position.



During this the machine has to be secured against unintentional switching on.

Prescribed maintenance and inspection work should be performed in time. The DVS gives the advice of inspection work after 1 year.

For machines with a especially high usage percentage the testing cycle should be shortened.

The work should be performed at the WIDOS GmbH company or by an authorized partner.

2.9. Dangers caused by electric energy



Only skilled persons are allowed to work at electrical appliances!

- The electrical equipment of the machine has to be checked regularly. Loose connections and damaged cables have to be replaced immediately.
- If works at alive parts are necessary, a second person has to assist who can disconnect the machine from the mains if necessary.
- The heating element has to be protected from rain and dropping water (if need be use a welding tent).
- According to VDE 0100, the use on construction sites is only allowed with a power distributor with a FI-safety switch.

2.10. Special dangers

2.10.1. Danger of stumbling over electric cables

- Make sure that no person must step over the wires.
- Make sure that the cables lie in such a way that the danger is maintained at a minimum.

2.10.2. Danger of burning at heating element and welding area



You can burn yourself, inflammable materials can be ignited!

The heating element reaches temperatures of more than **260° C / 500° F!**

Do not touch the surface of the heating element.

- Do not leave the surfaces of the heating element unattended.
- Take enough safety distance to materials which may be ignited.
- Do wear safety gloves.
- Only swivel the heating element at the handle.
- When cleaning the hot heating element with detergents (e.g. with PE – cleaning agent) there is the danger of inflammation. For this reason, please take care that the inflammation point is above the actual temperature of the heating element. Do not bring any fire sources (e.g. cigarettes) close thereto.

2.10.3. Danger of squeezing by clamping tool and guideways



There is the danger of serious injuries. On the one hand between the clamping tools and on the other hand between the ends of the guideways and the machine slide.

- Do not grip between the workpieces.
- Do not touch the guideways.

2.11. Structural modifications on the machine

- Without permission of the manufacturer, no modifications, extensions or reconstructions may be performed on the machine. Any non-compliance makes expiring the guarantee and liability demands (chapter 2.5.).
- Machine parts that are not in perfect condition are to be replaced immediately.
- Only use original **WIDOS** spare and wear parts.
- In case of purchase orders, please always note the machine and version number!

2.12. Warranty and liability

Fundamentally, our "General sales and delivery conditions" are in force. They are at the buyer's disposal latest when signing the contract.

Guarantee and liability demands referring to damages of persons or things are excluded if they are caused by one or several of the following reasons:

- Not using the machine according to the prescriptions.
- Unprofessional transport, building-up, starting, operating and maintenance of the machine.
- Running the machine with defective or not properly mounted safety equipment.
- Ignoring the information given in these working instructions.
- Structural modifications on the machine without permission.
- Unsatisfactory maintenance of parts of the machine which are worn out.
- Unprofessionally performed repairs.
- In case of catastrophes and acts of god.

3. Functional description

Basically, the international and national standard specifications are to be fulfilled.

First of all, the two workpieces to be welded are put into the clamping device, the fitting is clamped at the stop of the clamping device.

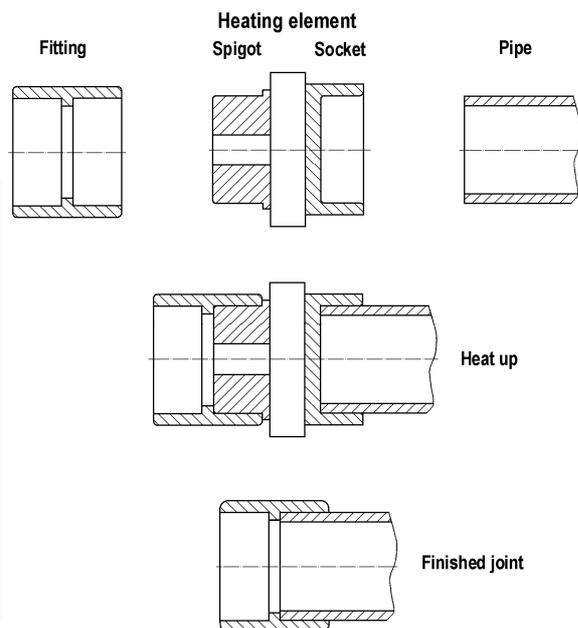
Then the zero offset is effected and the pipe can be clamped in such a way that both workpieces can be heated up to welding temperature at the same time (heat-up time) with the help of a socket or spigot-shaped heating element.

After swinging out the heating element (change-over time), the workpieces are joined (cooling time).

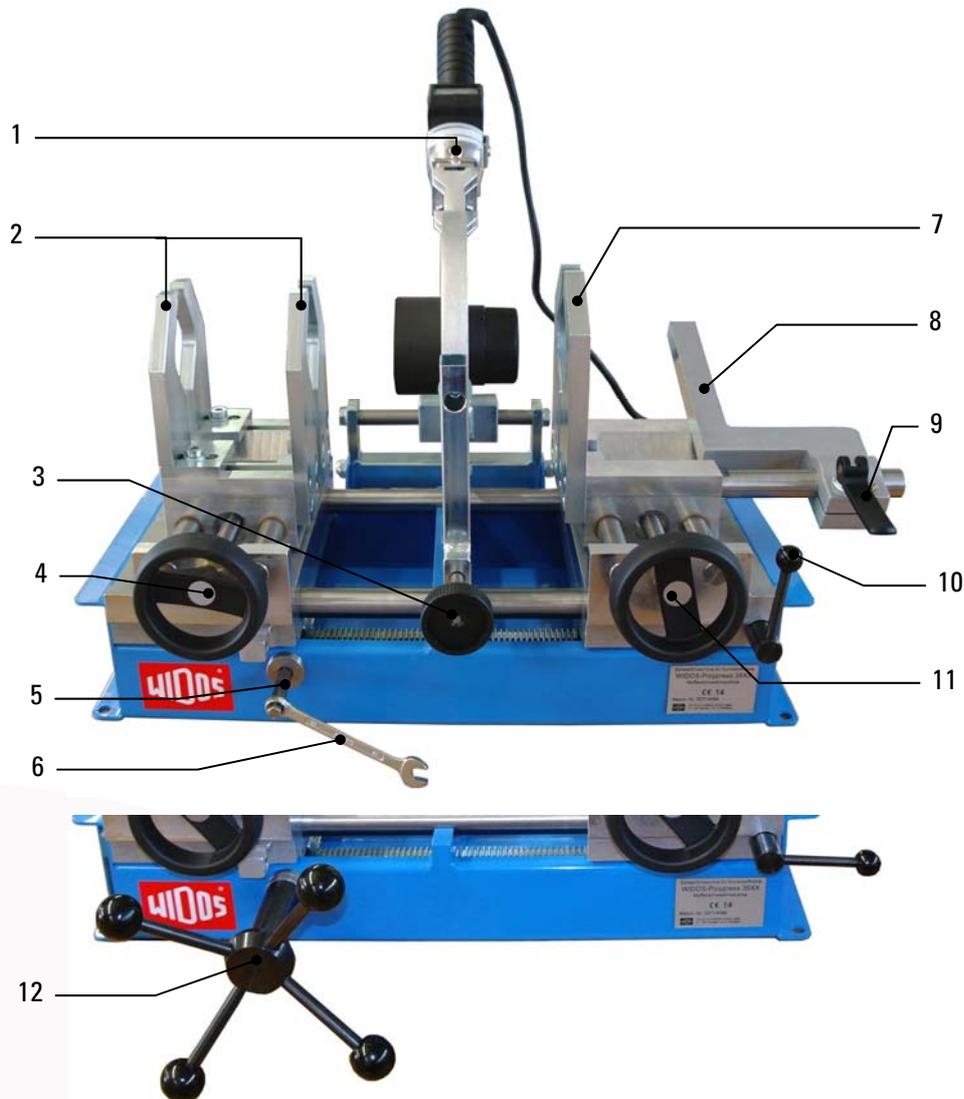
The pipe end, heating element and fitting socket are to match each other in size in such a way that a joining pressure will build up during joining.

After expiration of the cooling time, the welded joint can be unclamped, the welding process is finished.

Principle of heating element socket welding

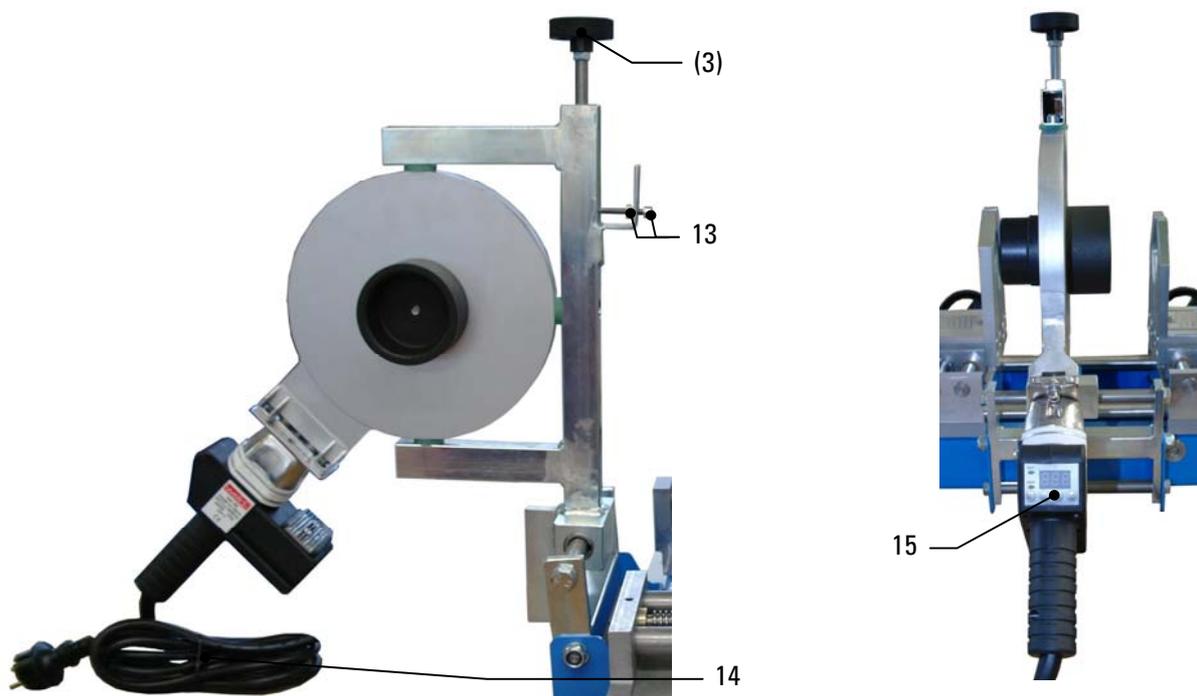


4. Operating and indicating elements



No.	Denomination / Function
1	Heating element with spigot on left side and socket on right side
2	Clamping tool left for pipe
3	Knurled screw at handle bar, for swinging the heating element in/out for fixing the heating element axially
4	Handle for opening / closing pipe clamping tool left side,
5	Axis with hexagon for opening / closing the slides
6	Combination spanner for moving the slides,
7	Clamping tool for fitting right side
8	Universal support for fittings
9	Clamping lever for universal support
10	Tension lever; for fixing the slides in position
11	Handle for opening / closing fitting clamping tool right side
12	Cross handle (optional) for slides; both slides open / close

4.1. Elements on the heating element



<i>No.</i>	<i>Denomination / Function</i>
13	Pan-head screw with counter nut for horizontal alignment of the heating element
14	Connecting cable with plug
15	Control panel with buttons and control lamps, for setting temperature (chapter: 5.1.2)

4.1.1. Horizontal adjustment

The heating element is factory-set and aligned horizontally.

- You can slightly shift the center if necessary; release the counternut, then slightly turn the pan-head screw in / out until you have reached the desired center height.
- Fix this position with the counternut.

5. Starting and operating

The indications of this chapter are supposed to instruct you in the operation of the machine and to lead you during the skilled starting of the machine. This includes:

- the safe operation of the machine
- using all possibilities
- economic operation of the machine

5.1. Starting



The machine may only be operated by initiated and authorized persons.

For the qualification, a plastic welding exam can be taken according to DVS and DVGW.

In danger situations for person and the machine, the mains plug has to be unplugged immediately.

At the end of the work and during breaks, the machine has to be switched off. Also take care that no unauthorized person has access to the machine.

Protect the machine from wetness and humidity!

According to VDE 0100, operation on building sites is only allowed with a current distributor with FI-security protective switch.



The socket and spigot surfaces are to be clean and, above all, free from grease. Therefore they are to be cleaned with **non-fraying** paper and detergent (e.g. PE – cleaning agent or WIDOS pipe cleansing cloths) before every welding or if they are dirty.

The nonstick coating of the socket and spigot must remain undamaged in the working area.

- Take into account the surrounding conditions:
 - The welding may not be performed under direct sun rays influence.
 - Use a welding umbrella if necessary.
- If the surrounding temperature is under 5°C / 41°F, measures have to be taken:
 - Use a welding tent or preheat the pipe ends if necessary.

In addition, take measures against rain, wind and dust.

- Take measures against rain, wind and dust.

5.1.1. Assembly of the machine

- Detach the clamping handles of the transport case and lift off the case in an upward direction.
- Turn the case upside down with the open space on top and put it on the floor.
- Put the case floor together with the machine onto the open case.
- Refit the screwed-off heating element handle.
- Connect the heating element to the local power supply (230 V / 16 A / 50 Hz) / (110V / 15 A / 60 Hz).
- Assemble the machine in a way that no unauthorized person may touch the swiveled out heating element, otherwise install a barrier on site.

The machine can be operated now.

5.1.2. How to adjust the heating element temperature

Once you have connected the heating element with the power supply, it is heated up to the adjusted temperature.

Press "SET"; the adjusted temperature is displayed while the last digit is flickering (0-digit).

Press \wedge or \vee to readjust the last digit.

If you want to readjust the middle digit (00-digit), press \ll and the second digit is flickering.

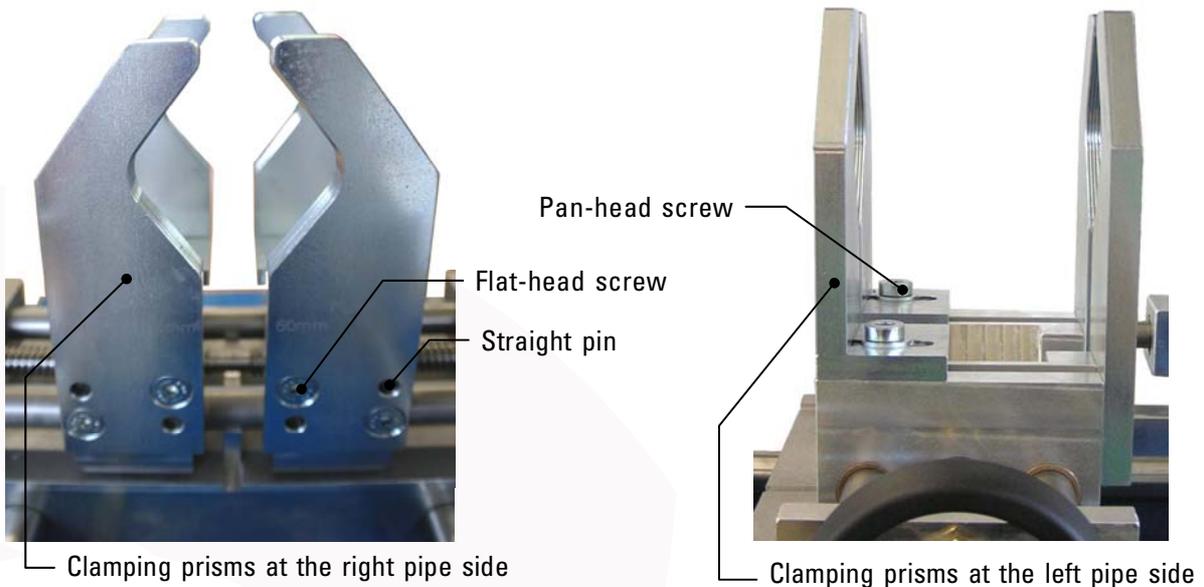
Press \wedge or \vee to readjust the middle digit.

The temperature range is factory-set, maximum 279 °C / 534 °F up to minimum 200 °C / 392 °F.

Having completed the temperature adjustment, please press "SET" again for accepting the adjusted temperature.

5.2. Clamping tool left for pipe

There are two sizes of the pipe clamping tool OD 20 - OD 50 mm and OD 50 - OD 125 mm (optional 150 mm). Depending on the pipe size you must change the clamping prisms.

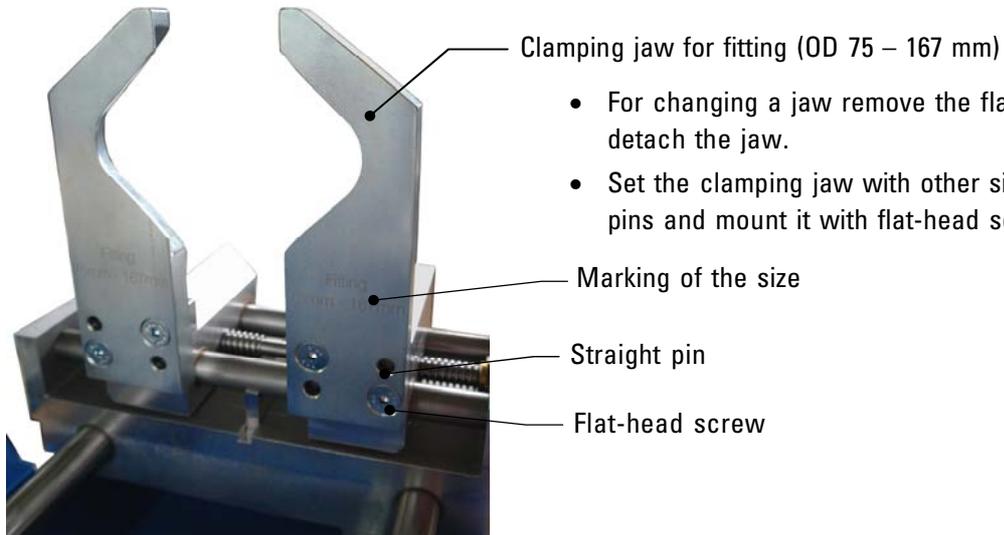


How to change internal clamping claws:

- Remove the flat-head screws and detach the clamping jaws.
- Set the clamping jaw with another size on the straight pins and mount it with the flat-head screw.
- For changing the left clamping prisms, release the pan-head screws and pull the clamping prisms including groove nuts off the slide.
- Shift the new left clamping prisms into the grooves and fix the left clamping prisms with the pan-head screws.

5.3. Clamping tool for fitting

There are different sizes of fitting clamping tools: OD 29 – OD 68 mm, OD 75 – OD 167 mm. The clamping jaws of the fitting clamping tool sitting on straight pins and are mounted with flat-head screws.



- For changing a jaw remove the flat-head screw and detach the jaw.
- Set the clamping jaw with other size on the straight pins and mount it with flat-head screw.

5.3.1. How to mount heating spigot and heating socket

- Mount the heating socket and spigot in adequate size onto the heating element. Mount the heating socket onto the pipe side and the heating spigot to the fitting side.

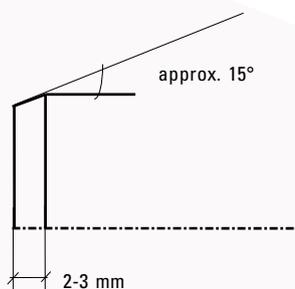


5.4. Welding process

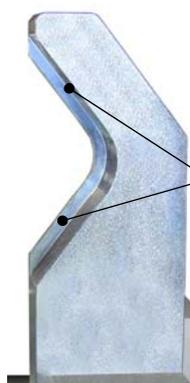
The respectively valid welding prescriptions (ISO / CEN / DVS...) are to be basically followed.

- Do wear safety gloves as protection against burning!
- A stop-watch is to be available in order to be able to register the actual times for heating up and cooling.
- A welding table is to be available from which you can read the parameters that are prescribed by the welding regulations for the pipe dimension to be welded.
- Mount the prism clamping tools for the pipe with a corresponding diameter range on the left side (chapter: 5.2).
- Mount the prism clamping tool for the fitting with a corresponding diameter range on the right side (chapter: 5.3). For clamping the fitting, fitting stops are provided.
- The heating element socket / spigot are to be clean and, above all, free from grease. Therefore they are to be cleaned with non-fraying paper and detergent (e.g. spirit) before every welding or if they are dirty.
- The anti-stick coating of the heating element must remain undamaged in the working area.
- In addition, the workpieces (fitting and pipe) to be welded must be clean. If need be, clean them with detergent and non-fraying paper.

The pipe end is to be chamfered to appr. 15°.

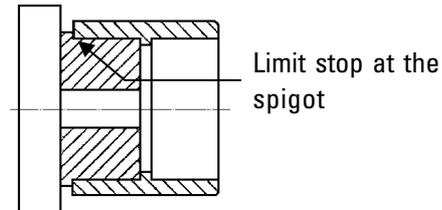


- Measure the insertion depth of the heating socket and mark it on the pipe.
- Switch on the heating element and adjust the necessary welding temperature at the handle (chapter: 5.1.2). If the control lamp "RDY" illuminates, the nominal temperature has been reached and is maintained by means of a defined pulse-pause ratio.



- Insert the fitting in the right-hand clamping tool onto the limit stop.
- Clamp the fitting by handle (no. 11).
- Support the fitting with support if necessary (no: 8).

- Swing the heating element into the machine.
- Check the axial mobility of the heating element when the heating element is fixed, then release the knurled screw (no. 3).
- Drive the slides together; the pipe to the front surface of the heating socket and the fitting to the front surface of the heating spigot.
- Fix the heating element in this position axially with the knurled screw (no. 3).
- Slowly drive the slides together with minor force; the fitting to the limit stop of the heating spigot resp. the pipe to the limit stop of the heating socket.
- Fix this position with tension lever (no. 10).
- Press the stop watch for the heating time.
- After expiration of the heating time starts the change over time. For this loosen tension lever (no. 10), open the machine quickly, swivel out the heating element and drive the slides together immediately shock-free and with minor force until the dial rests against the stop bolt.
- Secure the position by tension lever (10) and press the stop-watch.
- Press the stop watch for the cool down time.
- After expiration of the cooling time open the clamping tools with hand wheels (no. 4 and 11).
- Remove the welded part.
- Release the tension lever and open the machine.



The welding process is completed.

6. Welding log and tables

Standard values for heating element socket welding of pipeline components at an ambient temperature of 20° C (68° F) and at a moderate air flow.

Welding temperature for all procedures: 250° C - 270° C / 482° F – 518° F.

6.1. Table for PP

Pipe outside diameter [mm]	Heat-up		Change-over (max. time) [s]	Cool down	
	SDR 11, SDR7,4 SDR6 [s]	SDR 17,6 SDR17 [s]		clamped [s]	total [min]
16	5	*)	4	6	2
20	5	*)	4	6	2
25	7	*)	4	10	2
32	8	*)	6	10	4
40	12	*)	6	20	4
50	18	*)	6	20	4
63	24	10	8	30	6
75	30	15	8	30	6
90	40	22	8	40	6
110	50	30	10	50	8
125	60	35	10	60	8

6.2. Table for PVDF

Pipe outside diameter [mm]	Min. pipe wall thickness - [mm]	Heat-up [s]	Change-over (max. time) [s]	Cool down	
				clamped [s]	total [min]
16	1,5	4	4	6	2
20	1,9	6	4	6	2
25	1,9	8	4	6	2
32	2,4	10	4	12	4
40	2,4	12	4	12	4
50	3	18	4	12	4
63	3	20	6	18	6
75	3	22	6	18	6
90	3	25	6	18	6
110	3	30	6	24	8
125**)	4	35	6	24	8

6.3. Table for PEHD

Pipe outside diameter [mm]	Heat-up		Change-over (max. time) [s]	Cool down	
	SDR 11, SDR7,4 SDR6 [s]	SDR 17,6 SDR17 [s]		[mm]	SDR 11, SDR7,4 SDR6 [s]
16	5	*)	4	6	2
20	5	*)	4	6	2
25	7	*)	4	10	2
32	8	*)	6	10	4
40	12	*)	6	20	4
50	18	*)	6	20	4
63	24	*)	8	30	6
75	30	18	8	30	6
90	40	26	8	40	6
110	50	36	10	50	8
125	60	46	10	60	8

6.4. Table for PB (Polybutene)

Pipe outside diameter [mm]	Min. pipe wall thickness [mm]	Insertion depth [mm]	Heat-up [s]	Holding (under pressure) [s]	Cool down [min]
20**)	2,0	15	6	15	2
25**)	2,3	18	6	15	2
32**)	3,0	20	10	20	4
40**)	3,7	22	14	20	4
50**)	4,6	25	18	30	4
63**)	5,8	28	22	30	6
75**)	6,8	31	26	60	6
90**)	8,2	36	30	75	6
110**)	10,0	42	35	90	6
125**)	11,4	46	40	104	7

*) Due to wall thickness which is too small, this welding method is not recommended.

***) These fields contain merely interpolated values which are not verified by a valid standard and for which the WIDOS GmbH does not assume any warranty.

Apart from that, the standard values for welding of the plastic pipe or fitting manufacturer are valid.

7. Maintenance / Storage / Transport

Goal of the chapter is:

- Keeping the nominal state and the operation capacity of the machine.
- Efficient planning of the maintenance works and the maintenance tools.
- Increasing the efficiency by avoiding non planned outage.

7.1. Maintenance

- Replace defective parts immediately, be especially careful with electric parts - dirt and wetness are good current conductors.
- Use **original** WIDOS spare parts only.



Prescribed maintenance and inspection works have to be carried out in time.

According to DVS, inspection works are recommended after 1 year.

At machines which are used more than average, the inspection cycle should be shortened.

The works have to be performed at the WIDOS company or at an authorized partner.

7.2. Storage

- Keep the guide rods, toothed rods, toothed wheel and trapezoid spindle free from dirt and covered with a thin oil film.
- Cover the machine during non-use.
- Store dry.

7.3. Transport

The machine is transported in a transport box.

- Take care that the cable of the heating element is not squeezed.
- Protect the machine from heavy vibrations and shocks.
- Make sure that the box cover is correctly locked.
- Handle the machine carefully.

7.4. Cleaning of the machine

The used materials and tissues have to be handled and disposed of properly, particularly

- when cleaning with solvents
- when lubricating with oil and grease

7.5. Disposal



At the end of the life time, the machine has to be disposed of properly, non-polluting and in accordance with the national laws of waste disposal.

8. Spare parts list



You can access our website and select our spare parts lists via the qr code shown here. Select "35XX".

9. Declaration of conformity

Issuing the declaration of conformity with regard to complying with the basic requirements and assembling the technical documentation is in the sole responsibility of:	
Manufacturer / Installation company:	WIDOS Wilhelm Dommer Söhne GmbH
Address:	WIDOS GmbH Einsteinstr. 5 D-71254 Ditzingen

Subject of the present declaration is the following device:	
<i>Product name:</i>	Heating element socket welding machine
<i>Model name:</i>	WIDOS 35XX
<i>Machine number:</i>	
<i>Year of construction:</i>	

For the stated device we herewith declare that it complies with the basic requirements stipulated in the following designated harmonizing regulations:
in the sense of the EC guideline EC-Machinery Directive 2006/42/EC

Statement of the relevant harmonizing standards referred to, or indication of the specifications that the conformity is declared for:	
Standard	Title
DIN EN ISO 12100	Safety of machines, basic concepts, general layout guidelines
DIN EN 60204.1	Electric equipment of industrial machines
DIN EN 60555, DIN EN 50082, DIN EN 55014	Electro-magnetic resistance

Entitled to compile the technical documentation:	
Name:	WIDOS Wilhelm Dommer Söhne GmbH
Address:	Einsteinstr. 5 D-71254 Ditzingen

Signed on behalf of the company:	
Name, first name:	Dommer, Martin
Function:	Technical director

Heimerdingen, 08.07.2019

Place / Date



Legally binding signature

This declaration is to certify the compliance with the mentioned harmonizing regulations, however does not include any assurance of properties.