



# ***Bench Welding Mirror POLYS P-4***

Operating Instructions

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## 1. Introduction

Dear Customer,

The equipment you have just purchased has been manufactured by DYTRON EUROPE s.r.o. (hereinafter referred to as the "DYTRON"), a world-wide manufacturer of plastic welding equipment. We believe you will be satisfied with the quality and reliability of the product.

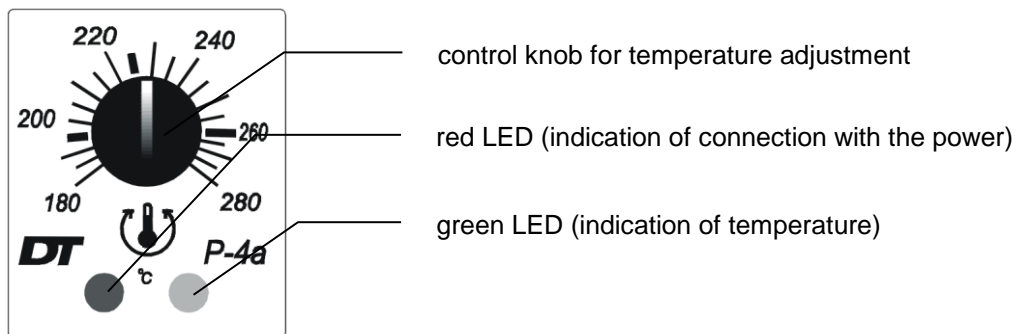
Before putting the equipment into operation for the first time, please read these Operating Instructions carefully. They provide you with important information on a safe and correct operation and maintenance of your bench welding mirror.

## 2. Temperature Control POLYS P-4

The welding mirrors are supplied in the version P-4a with electronic temperature control. Indicated values of temperature have an informative character only. It is necessary to check the adjusted temperature on functional surfaces of the heating plate by means of a suitable thermometer before welding (e.g. DT metr supplied by DYTRON).

### POLYS P-4a

The welding mirror P-4a enables continuous adjustment of working temperatures within the range of 180 - 280°C. Working temperatures are adjustable by means of a rotary control knob.



### Indications:

**Red LED** - indicates mains connection

**Green LED** - indicates temperature as follows:

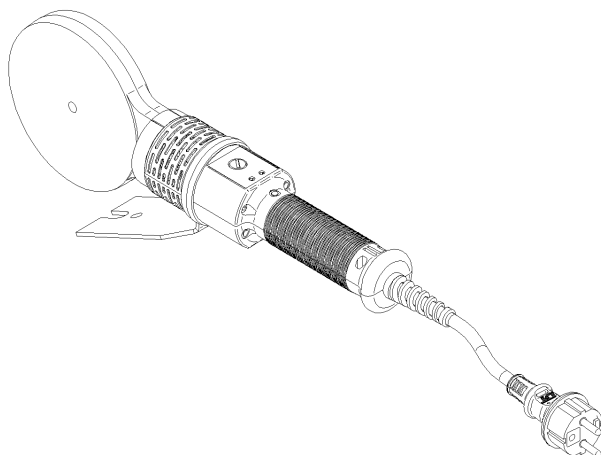
**Permanently lit** - the temperature of the mirror is lower than the preset temperature. Do not use the mirror before the green LED starts flashing

**Flashing** - the temperature of the welder is identical with the preset temperature; the welding mirror is ready for use

**Off** - the temperature of the heating plate is too high. Wait till the moment the green LED starts flashing

### 3. Types of Welding Mirrors POLYS P-4a according to Power Input/Pipe Diameter

#### 3.1 Welding mirror POLYS P-4a 1200 W / d110 mm



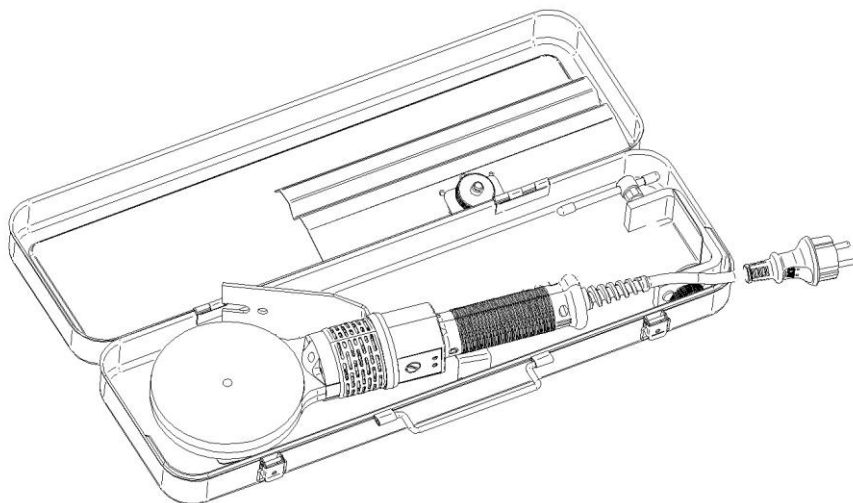
#### Specifications:

Welding type:	butt welding
Diameters:	up to 110 mm
Power input:	1200 W
Voltage:	230 V, 50 Hz
Temperature control:	electronic
Thermal stability:	± 3°C (after temperature stabilization – cca 20 min. after switch-on of the welder)
Weight:	
- single mirror:	2,1 kg
- set:	5,5 kg

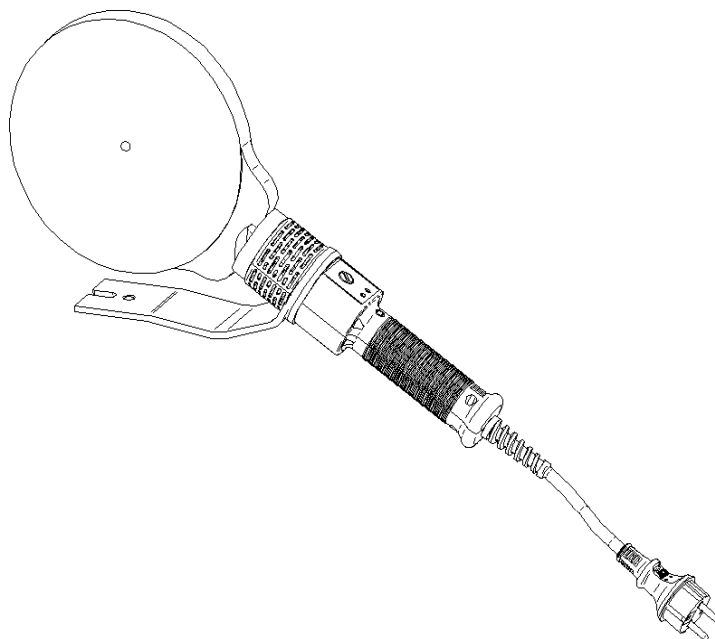
The welding mirror POLYS P-4a 1200 W / d110 mm can be supplied in 2 versions:

**Solo** (single welding mirror)

**Set LUX** (welding mirror, metal case, foot stand, clamp)



### 3.2 Welding mirror POLYS P-4a 800 W / d160 mm



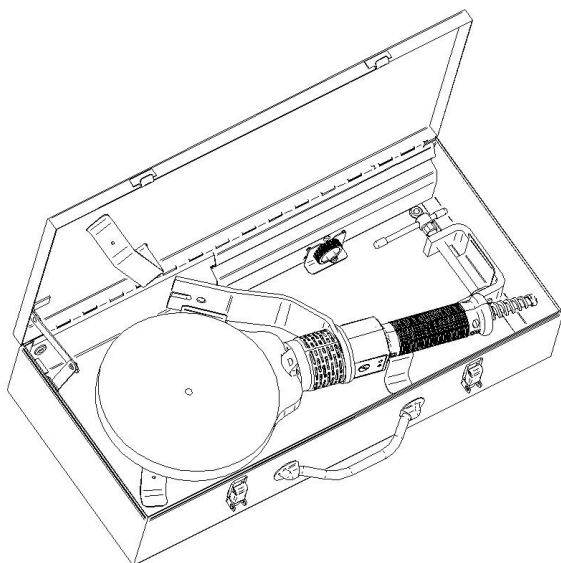
#### Specifications:

Welding type:	butt welding
Diameters:	up to 160 mm
Power input:	800 W
Voltage:	230 V, 50 Hz
Temperature control:	electronic
Thermal stability:	$\pm 3^{\circ}\text{C}$ (after temperature stabilization – cca 20 min. after switch-on of the welder)
Weight:	
- single mirror:	3 kg
- set:	8 kg

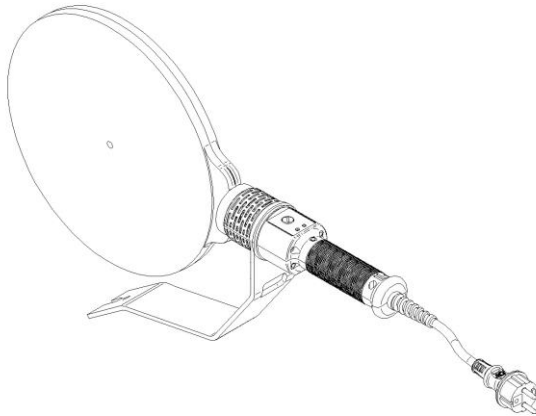
The welding mirror POLYS P-4a 800 W / d160 mm can be supplied in 2 versions:

**Solo** (single welding mirror)

**Set LUX** (welding mirror, metal case, foot stand, clamp)



### 3.3 Welding mirror POLYS P-4a 1500 W / d250 mm



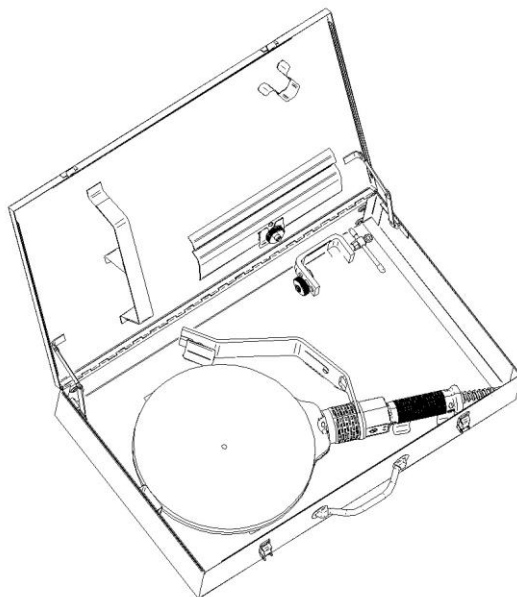
#### Specifications:

Welding type:	butt welding
Diameters:	up to 250 mm
Power input:	1500 W
Voltage:	230 V, 50 Hz
Temperature control:	electronic
Thermal stability:	$\pm 3^{\circ}\text{C}$ (after temperature stabilization – cca 20 min. after switch-on of the welder)
Weight:	
- single mirror:	6 kg
- set:	13 kg

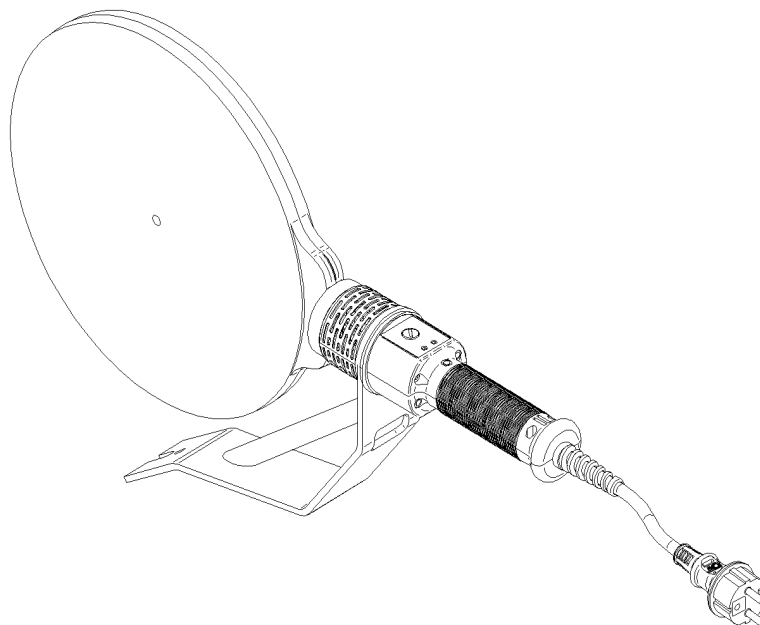
The welding mirror POLYS P-4a 1500 W / d250 mm can be supplied in 2 versions:

**Solo** (single welding mirror)

**Set LUX** (welding mirror, metal case, foot stand, clamp)



### 3.4 Welding mirrors POLYS P-4a 2300 W / d315 mm



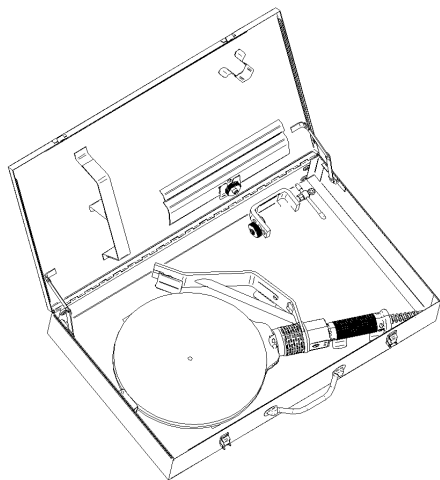
#### Specifications:

Welding type:	butt welding
Diameters:	up to 315 mm
Power input:	2300 W
Voltage:	230 V, 50 Hz
Temperature control:	electronic
Thermal stability:	$\pm 3^{\circ}\text{C}$ (after temperature stabilization – cca 20 min. after switch-on of the welder)
Weight:	
- single mirror:	8,4 kg
- set:	17 kg

The welding mirror POLYS P-4a 2300 W / d315 mm can be supplied in 2 versions:

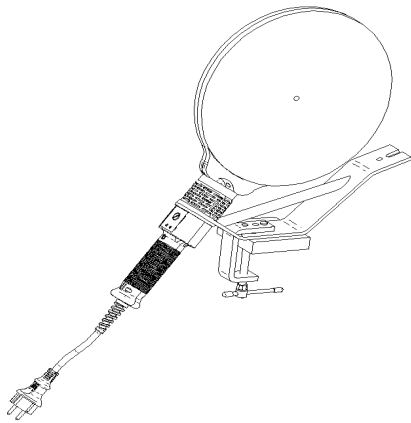
**Solo** (single welding mirror)

**Set LUX** (welding mirror, metal case, foot stand, clamp)



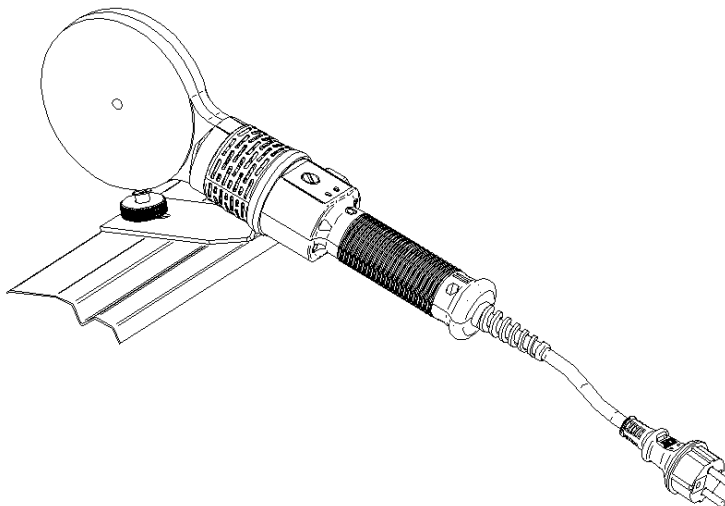
## 4. Accessories

### 4.1 Clamp



The clamp facilitates to attach the welding mirror to a workbench. It is included in sets as standard accessories of mirrors. We recommend to keep the clamp thread clean and lubricated. Clamps are designed for all welding mirrors and welders of POLYS P-4 and P-1 series.

### 4.2 Foot stand



Foot stand serves to hold the welding mirror easily with foot when working in field. Workers thus can work easier with both their hands free. We recommend it for all welding mirrors as well as POLYS P-4 and P-1 welders.



## 5. Security Instructions

All products manufactured by DYTRON EUROPE s.r.o. are safe and meet the requirements of the European directives 2014/35/EU and 2014/30/EU. A Certificate of Conformity has been issued for the welding mirrors.

Despite the above, we recommend you to follow the below mentioned safety instructions:

- Use the welding mirrors to weld plastic pipes only, in the environment free from aggressive gases, combustibles and explosives.
- Welding mirrors may not:
  - get into contact with water
  - be used in damp environment
  - be used in works not designed to
  - be suspended on the power cord
  - be left switched-on unattended.
- Protect your mirror from shocks that could result in controller damage, or damage to the device as a whole.
- The equipment may be only operated by a person properly trained by welding instructor.
- Put aside your mirror into a fixed clamp or lay it with its stand upon a flat incombustible pad.
- If the mirror is put aside with its heating element still hot, it should not touch other materials.
- The heating element must not touch the power cord.
- Do not insert any objects into the openings of perforated cover.
- Store hot mirror in the welding set case or on an incombustible pad after use.
- When you have finished your work, switch off the welding mirror by pulling the power cord from mains socket.
- Do not disassemble the device.
- In case the power supply cord of this appliance is damaged, it should be replaced by the manufacturer or an authorised service engineer or other adequately qualified person in order to avoid the occurrence of an accident.
- For safety reasons, use power sockets with properly grounded pins only. The socket should be protected with a ground fault interrupter.
- An isolation transformer must be used for protection when working in outdoor environment.
- Avoid using damaged or unprofessionally repaired extension cables or cables of unknown origin.
- Make sure the power supply cords and sockets are in a good order.

## 6. Safety Inspections

Initial inspections of products are performed by the manufacturer. The users are advised to follow the safety inspection scheme as per the table below:

Group	Frequency of use of the welding mirror	Inspection frequency
A	up to 100 working hours/year	every 6 months
B	100 - 250 working hours/year	every 3 months
C	frequent use – more than 250 hours/year	every 2 months

Functioning of the welding mirror temperature control should be verified at least once a year.

**Attention!** *If an extension cord is used to connect the welding mirror to the mains it is necessary to make inspection of such a cord together with the mirror.*

## 7. Maintenance

Working surfaces of the welding mirror should be kept clean. Wooden spatula or a dry rag of non-synthetic material can be used for cleaning. Never use metal objects for cleaning to avoid damage to the anti-adhesive surface.

Keep the welding mirror clean, particularly the contact areas of the heating plate. The welding mirror does not require any special maintenance.

Any repairs of the welding mirrors can be performed by service stations authorised by DYTRON only!

## **8. Warranty Conditions**

See the enclosed Warranty Card.

## **9. List of Authorised Service Shops**

***For the Czech Republic:***

**DYTRON EUROPE s.r.o.**

Toužimská 943/24a  
197 00 Praha 9 - Kbely

Tel.: +420 266 190 031

***For other countries:***

Please contact DYTRON EUROPE s.r.o. for an information on authorized service centers.