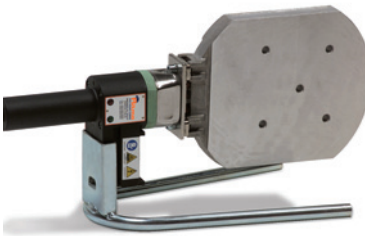




R 25



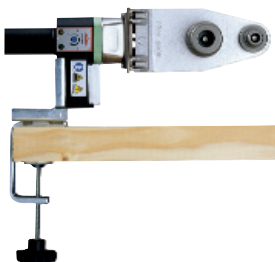
R 63



R 125 Q



Fork support



Bench vice

MANUAL EQUIPMENT

Manual socket welders for welding pipes and fittings, in compliance with the standards in force. They feature an Aluminium heating plate and a practical, heat insulated plastic handle. Available with a fixed mechanical thermostat (TF) and with an adjustable electronic thermoregulator (TE), with different working shapes and ranges according to requirements.

SUPPLIED WITH

All models come with:

- **Socket welder;**
- **Fork support;**
- **Bench vice** (except for R 25);
- **Allen wrench;**
- **Pin for the sockets and spigots.**

ON REQUEST (ACCESSORIES)

- **Bench vice** (for R 25);
- **Footboard;**
- **Carrying case in electro-painted steel;**
- **Sockets and spigots (male/female)** (see page 74);
- **Gloves** (for protection).

TECHNICAL FEATURES

Power supply(*)	230 V-Single phase-50/60 Hz
Working temperature	TF: 260°C (PP,PP-R) TE: 180 ÷ 290°C (^)
Room temperature range	-5 ÷ +40°C
Time to reach welding temperature	TF: ~ 15 min. TE: ~ 10 min.
(^*) Materials	PE, PP, PP-R, PB, PVDF

Model	Max diameter (O.D.)	Absorbed power	Dimensions (W x D x H)	Weight
R 25	25 mm	500 W	115 x 50 x 320 mm	1,45 Kg
R 63	63 mm	800 W	175 x 50 x 360 mm	1,80 Kg
R 125 Q	125 mm	1400 W	175 x 50 x 395 mm	3,15 Kg

Fork support

Dimensions (W x D x H)	Weight
225 x 195 x 90 mm	0,40 Kg

Steel case

Model	Dimensions (W x D x H)	Weight
R 25	495 x 265 x 130 mm	3,55 Kg
R 63	450 x 345 x 130 mm	4,40 Kg
R 125 Q	610 x 460 x 160 mm	7,50 Kg

Bench vice

Dimensions (W x D x H)	Weight
75 x 65 x 225 mm	0,75 Kg

Footboard

Dimensions (W x D x H)	Weight
410 x 205 x 92 mm	1,5 Kg

Male/female sockets and spigots (See page 75)

Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	Ø 90
0,08	0,12	0,15	0,22	0,32	0,45	0,60	0,77	1,20
							Ø 110	Ø 125
							1,82	2,13
Total weight: 7,86 Kg								

(*) The 110 V – single-phase - 50/60 Hz version available for the following models: R63 TF/TE (800 W) and R125Q TF/TE (1400 W).



Wrench pin



Steel case



Sockets & spigots



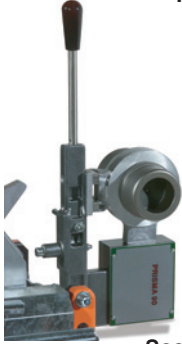
Footboard



Gloves (for protection)



PRISMA 90



Socket welder



Thermoregulator box



Self-centering clamp for fittings



Pipes clamp



Selector



Fittings support

PRISMA 90

This workshop/construction site welding machine is suitable for the socket fusion of pipes and fittings up to an O.D. of 90 mm, in accordance with the standards in force.

The **PRISMA 90** is composed of a machine body featuring a *selector* for the welding depths of the different diameters, an *adjustable clamp* for locking the pipes, a *self-centring clamp* for locking the fittings (different brands), a *self-centering socket welder* with electronic temperature control, a *device* for the *maximum heating depth*, *three machine supporting legs*, a *tripod* to support the pipe, a *set of sockets and spigots for socket fusion* from Ø 20 to Ø 90 mm with *steel case*, and a *set of centering sockets and spigots* in Aluminium, useful for realigning the pipe locking clamp with respect to the self-centring one, when necessary.

The welding machine is available in two versions, depending on the type of sockets & spigots supplied:

- **PRISMA 90 type A** (with “A” type sockets & spigots, and a specific selector for the welding depth);
- **PRISMA 90 type B** (with “B” type sockets & spigots, and a specific selector for the welding depth).

The choice of the socket & spigot is closely linked to the brand of pipes and fittings being used. However, it is possible to transform the welding machine into the other version (A or B) at any time, by simply substituting the selector and type of sockets and spigots.

SUPPLIED WITH

- **Machine body** complete with an **electronic socket welder**, **fittings support** and a **“V” shaped pipe support**;
- **Machine support** (composed of 3 legs);
- **Steel case** complete with **sockets & spigots** from Ø 20 to Ø 90 mm, **centering devices** from Ø 20 to Ø 90 mm, **clamp adapters** from Ø 20 to Ø 75 mm, and **tool kit**;
- **Pipe support tripod.**

ON REQUEST (ACCESSORIES)

- **Transport wooden case**;
- **Gloves** (for protection);
- **Timer.**

TECHNICAL FEATURES

Working range	20 ÷ 90 mm	
Power supply	110 V	230 V
	Single phase - 50/60 Hz	
Total absorbed power	1000 W	1000 W
Working temperature	180 ÷ 280°C (A)	
Room temperature range	-5 ÷ +40°C	
Time to reach welding temperature	~ 10 min.	
(A) Materials	PE, PP, PP-R, PB, PVDF	

DIMENSIONS (W x D x H)	
Machine being transported	590 x 470 x 370 mm
Machine being used (with supporting legs)	590 x 595 x 630 mm (990 x 630 x 1260 mm)
Steel case	490 x 250 x 125 mm
Pipe supporting tripod	410 x 350 x 880 mm
Transport wooden case	760 x 665 x 490 mm

WEIGHT	
Steel case	4,00 Kg
Pipe supporting tripod	2,38 Kg
Machine without accessories	40,50 Kg
TOTAL (Prisma 90 only)	54,00 Kg
Transport wooden case	22,00 Kg

Weight (Kg) clamps adapters (for fixing the pipe) (2 pcs./Ø)							
Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	
0,22	0,21	0,20	0,18	0,16	0,12	0,08	
Total weight: 1,17 Kg							

Sockets & spigots (See page 74)							
Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	Ø 90
0,12	0,15	0,22	0,32	0,45	0,60	0,77	1,20
Total weight: 3,83 Kg							

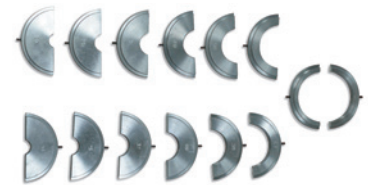
Centering sockets & spigots (1 pc./Ø)							
Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	Ø 90
0,02	0,03	0,04	0,05	0,08	0,05	0,08	0,20
Total weight: 0,55 Kg							



"V" shaped pipe support



Steel case



Clamp adapters



Centering devices



3-leg pipe support



Transport wooden case





PRISMA 125



Machine body



Socket welder



Thermoregulator box



Self-centering clamps



Selector

PRISMA 125

This workshop/construction site welding machine is suitable for the socket fusion of pipes and fittings up to an O.D. of 125 mm, in accordance with the standards in force.

The **PRISMA 125** is composed of a machine body featuring a *selector* for the welding depths of the different diameters, *four self-centering clamps* for locking the pipes and the fittings (different brands), a *self-centring socket welder* with electronic temperature control, a *device* for the *maximum heating depth*, a *sliding trolley*, a *tripod* to support the pipe, a set of *sockets* and *spigots* for *socket fusion* from Ø25 to Ø125 mm with *steel case*.

The welding machine is available in two versions, depending on the type of sockets & spigots supplied:

- **PRISMA 125 type A** (with "A" type sockets and spigots, and a specific selector for the welding depth);
- **PRISMA 125 type B** (with "B" type sockets and spigots, and a specific selector for the welding depth).

The choice of the socket & spigot is closely linked to the brand of pipes and fittings being used. However, it is possible to transform the welding machine into the other version (A or B) at any time, by simply substituting the selector and type of sockets and spigots.

SUPPLIED WITH

- **Machine body** complete with an **electronic socket welder**;
- **Steel case** complete with **sockets and spigots** from Ø 25 to Ø 125 mm and **tool kit**;
- **Pipe support tripod**;
- **Sliding trolley**.

ON REQUEST (ACCESSORIES)

- **Transport wooden case**;
- **Gloves** (for protection);
- **Timer**.

TECHNICAL FEATURES

Working range	25 ÷ 125 mm	
Power supply	110V	230 V
	Single phase - 50/60 Hz	
Total absorbed power	1400 W	1400 W
Working temperature	180 ÷ 280°C (A)	
Room temperature range	-5 ÷ +40°C	
Time to reach welding temperature	~ 10 min.	
(A) Materials	PE, PP, PP-R, PB, PVDF	

DIMENSIONS (W x D x H)	
Machine being transported	1460 x 700 x 1080 mm
Machine working (with sliding trolley)	1080 x 840 x 580 mm (1500 x 840 x 1260 mm)
Steel case	490 x 260 x 125 mm
Pipe supporting tripod	410 x 350 x 880 mm
Sliding trolley	1400 x 675 x 700 mm
Transport wooden case	1500 x 800 x 1300 mm

WEIGHT	
Steel case	4,00 Kg
Pipe supporting tripod	2,38 Kg
Machine without accessories	68,76 Kg
Sliding trolley	17,00 Kg
TOTAL (Prisma 125 only)	100,00 Kg
Transport wooden case	53,00 Kg

Sockets & spigots (See page 75)									
Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	Ø 90	Ø 110	Ø 125
0,12	0,15	0,22	0,32	0,45	0,60	0,77	1,20	1,82	2,13
Total weight: 7,86 Kg									



Sliding trolley



Steel case



Pipe support tripod





Sockets & spigots



Type stamp



Hole repairing sockets & spigots



Hole repairing sockets & spigots
(\varnothing 7÷13) + repair taps

SOCKETS & SPIGOTS

These accessories are necessary for the socket fusion of pipes and fittings.

The sockets & spigots are made with a special Aluminium alloy coated with a non-stick material (PTFE).

They were designed in accordance to the German standards (DVS 2208), for which there are two versions, "A" and "B" (*), different in size and welding coupling depths. The socket & spigot correspond to the "female" part (in which the pipe is inserted) and the "male" part (to be inserted in the fitting). They are available from \varnothing 16 mm (type "B" only) to \varnothing 125 mm. The DVS 2208 standard establishes that:

- the "A" type sockets and spigots have been designed for pipes that require no working in the welded area; there's a greater interference during pipe and fitting coupling;
- the "B" type sockets and spigots require external machining of the pipe (scraping/calibrating) prior to coupling.

(*): the choice is always linked to the brand of pipes and fittings being used.

RITMO also produces special sockets and spigots that are useful for the on-site repairs of pipes that have been accidentally perforated.

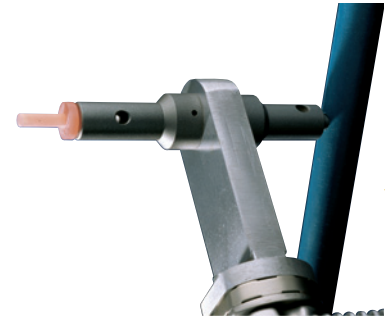
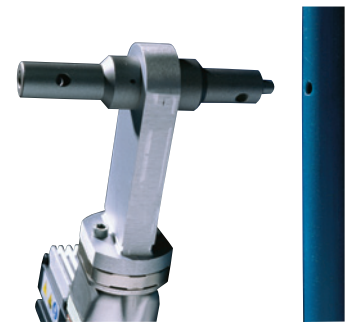
They are called **hole repairing sockets**, available in three different types:

- \varnothing 7 mm hole repairing socket for \varnothing 7 mm holes;
- \varnothing 11 mm hole repairing socket for \varnothing 11 mm holes;
- \varnothing 7 – 13 mm conical hole repairing socket for \varnothing 7-13 mm holes: thanks to its particular saddle shape, this tool provides an extremely reliable repair because it welds not only over the surface of the hole but also penetrates through the pipe wall. The system is completed by **special repair taps** (conical closing PP taps) available on request.

TECHNICAL FEATURES

Dimensions (mm) and Weight (Kg)										
Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 75	Ø 90	Ø 110	Ø 125
0,06	0,12	0,15	0,22	0,32	0,45	0,60	0,77	1,20	1,82	2,13
Total weight: 7,86 Kg										

Ø 7 mm hole repairing socket 0,07 Kg	Ø 11 mm hole repairing socket 0,09 Kg	Ø 7÷13 mm hole repairing socket 0,15 Kg
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Hole repairing sequence

