

PT - HP SERIES

STRONGER

STIFFER

FASTER



PT SERIES

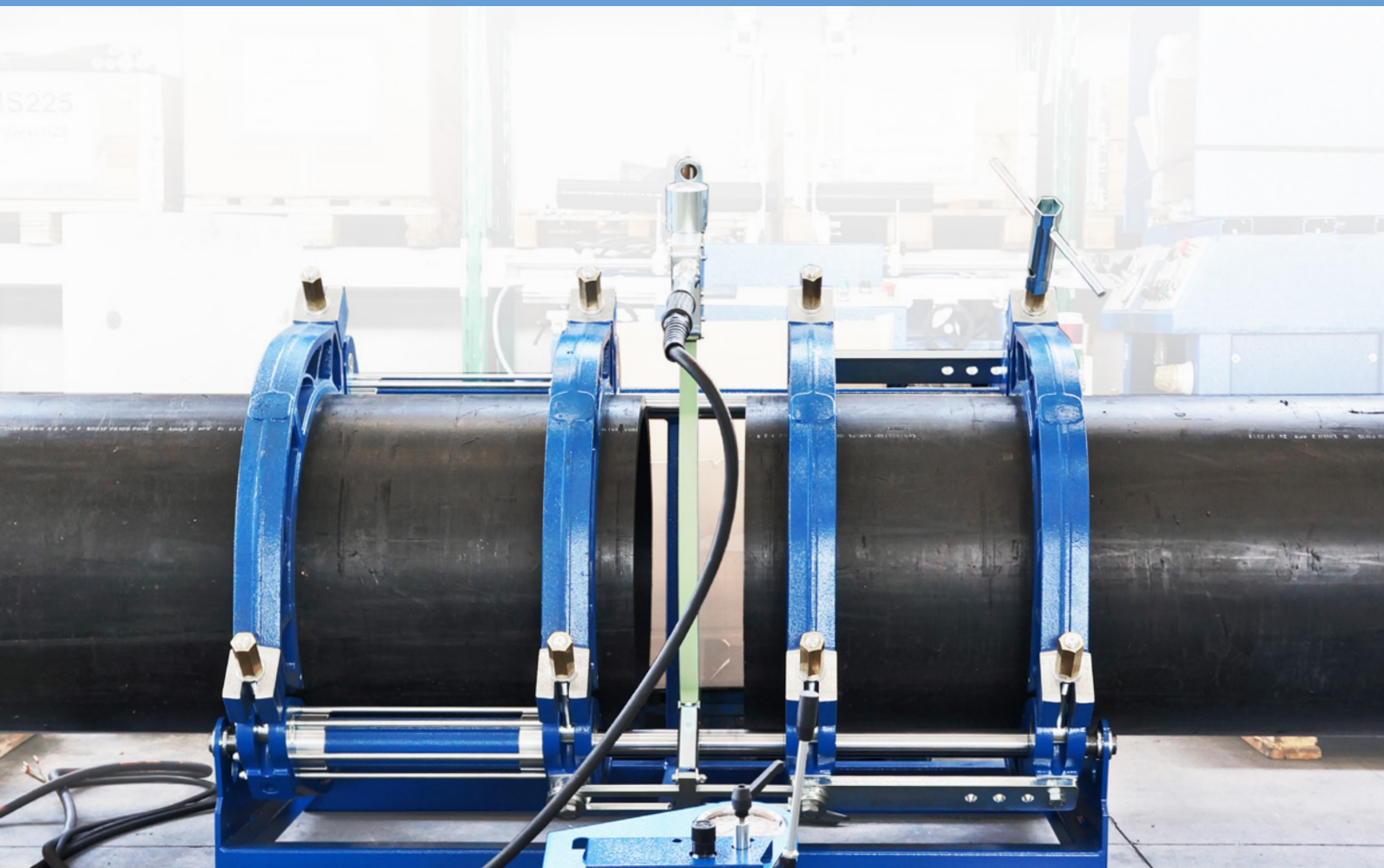
PT are hydraulic operated butt welding machines suitable for PE, PP and other thermoplastics pipes and fittings.

The self-aligning frame and compact dimensions make the machines highly suited for working in road constructions, ditches, aqueducts, gasducts, sewers and irrigation systems.

The range of trench butt-welding is from 40 mm diameter up to over three meters diameter.

Many accessories are available in order to make the welding operations easier and safer, welding certification is possible by a data logger machine.

Manufactured and tested in compliance with current regulations and standards (UNI ISO 12176-1, ASTM standard, DVS and CE safety regulations).



PT - HP SERIES. WHAT'S NEW

The PT models have been adapted to meet the force requirements of high-pressure welding regulations.

Modifications of varying degrees of substance have been made, particularly to the basic machine and hydraulic unit.

The PT 500 model, for example, has been completely redesigned, with new (wider) clamps and tie rods, as well as a new, stronger facing tool.

On the other hand, the base body of the PT 250 has undergone only minor modifications.

STRONGER

To withstand the forces required by high pressure standards such as ISO 21307-SHP and ASTM F2620.

STIFFER

It's not just a matter of increasing the pressure. The machines must withstand forces three to five times greater, without bending or breaking.

Our machines have been tested according to the most stringent criteria and at the maximum of the declared range.



Advanced engineering and scrupulous choice of the materials make our machines the best choice in terms of performance, reliability and durability.



FASTER

High Pressure welding standards allow to reduce cooling time by almost 50%, compared to classic standards like DVS.

This means much higher productivity!

WHY PT - HP SERIES

High-pressure standards

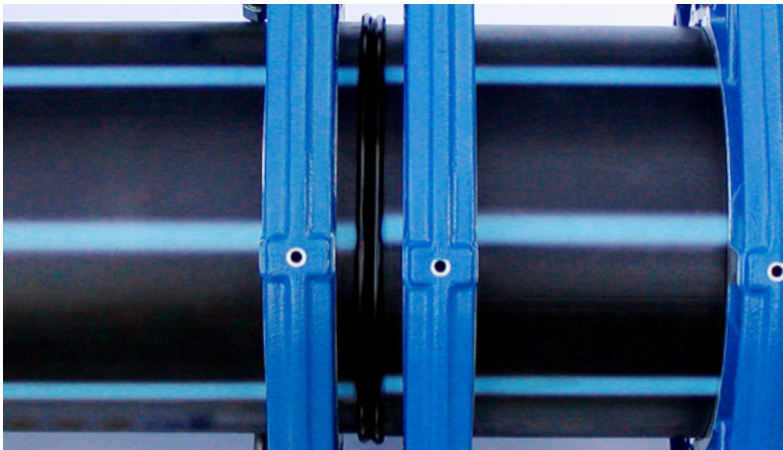
The United States bases its guidelines on a single high-pressure philosophy (SHP – Single High Pressure). The ASTM F2620 standard differs from other welding standards in its jointing pressure and in the cooling time under pressure, which is almost half the cooling time required by other standards.

This trend is also gaining ground in Central America, Australia and slowly in Europe as well. To meet this standard, welding machines must be high-quality, robust, and capable of maintaining stable welding parameters throughout the entire cycle.

T2 WELDING offers the PT-HP (high pressure) Series, which adheres to rigorous production standards.

The PT-HP series guarantees welding machine efficiency throughout the entire welding cycle (heater plate temperature, bead-up pressure,

fusion pressure, and cooling protocol) according to strict standards within clearly specified tolerances and ensuring the mechanical integrity and long-term reliability of PE joints in water, gas, etc. pipelines, while preserving the material, and regulatory National and International nuances like the American ASTM F2620 or the international UNI ISO 12176-1.



STANDARD RANGE PT - HP SERIES:

Model	Range mm	Range IPS
PT 250	Ø 63-250	Ø 2" - 8"
PT 315	Ø 90-315	Ø 3" - 10"
PT 355	Ø 90-355	Ø 3" - 14"
PT 500	Ø 200-500	Ø 8" - 20"
PT 630	Ø 315-630	Ø 14" - 24"

PT 250 HP

TECHNICAL DATA - STANDARD VERSION

Welding Range	Ø 63-250 mm Ø 2" - 8" IPS
Operating pressure	3* - 250 bar *(recommended value)
Standard Voltage	110/230 V 50/60 Hz
Cylinders'total section	5.89 cm ²



CHANGES COMPARED TO STANDARD PTs

- New hydraulic unit up to 250 Bar / 3625 PSI

WELDING RANGE ACCORDING TO ISO 21307 (SHP) and ASTM F2620

Ø	SDR 41	SDR 33	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
63			✓	✓	✓	✓	✓
75			✓	✓	✓	✓	✓
160	✓	✓	✓	✓	✓	✓	✓
180	✓	✓	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓	✓	✓
225	✓	✓	✓	✓	✓	✓	✓
250	✓	✓	✓	✓	✓	✓	✓

PT 315 HP

TECHNICAL DATA - STANDARD VERSION

Welding Range	Ø 90 -315 mm Ø 3" - 10" IPS
Operating pressure	3* - 250 bar *(recommended value)
Standard Voltage	110/230 V 50/60 Hz
Cylinders'total section	12.56 cm ²



CHANGES COMPARED TO STANDARD PTs

- Increased cylinders' section
- Reinforced tie rods and clamps spacers
- New hydraulic unit up to 250 Bar / 3625 PSI

WELDING RANGE ACCORDING TO ISO 21307 (SHP) and ASTM F2620

Ø	SDR 41	SDR 33	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
90			✓	✓	✓	✓	✓
200			✓	✓	✓	✓	✓
225	✓	✓	✓	✓	✓	✓	✓
250	✓	✓	✓	✓	✓	✓	✓
280	✓	✓	✓	✓	✓	✓	✓
315	✓	✓	✓	✓	✓	✓	✓

PT 355 HP

TECHNICAL DATA - STANDARD VERSION

Welding Range	Ø 90 - 355 mm Ø 3" - 14" IPS
Operating pressure	4* - 250 bar *(recommended value)
Standard Voltage	110/230 V 50/60 Hz
Cylinders'total section	12.56 cm ²



CHANGES COMPARED TO STANDARD PTs

- Increased cylinders' section
- Reinforced tie rods and clamps spacers
- New cylinder with increased section
- New hydraulic unit up to 250 Bar / 3625 PSI

WELDING RANGE ACCORDING TO ISO 21307 (SHP) and ASTM F2620

Ø	SDR 41	SDR 33	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
90		✓	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓	✓	✓
225	✓	✓	✓	✓	✓	✓	✓
250	✓	✓	✓	✓	✓	✓	✓
280	✓	✓	✓	✓	✓	✓	✓
315	✓	✓	✓	✓	✓	✓	✓
355	✓	✓	✓	✓	✓	✓	✓

PT 500 HP

TECHNICAL DATA - STANDARD VERSION

Welding Range	Ø 200 - 500 mm Ø 8" - 20" IPS
Operating pressure	4* - 250 bar *(recommended value)
Standard Voltage	230/400 V 50/60 Hz
Cylinders'total section	31.44 cm ²



CHANGES COMPARED TO STANDARD PTs

- PT 500 MY2023 or later is necessary
- Reinforced tie rods and clamps spacers
- New cylinder with increased section
- New hydraulic unit up to 250 Bar / 3625 PSI

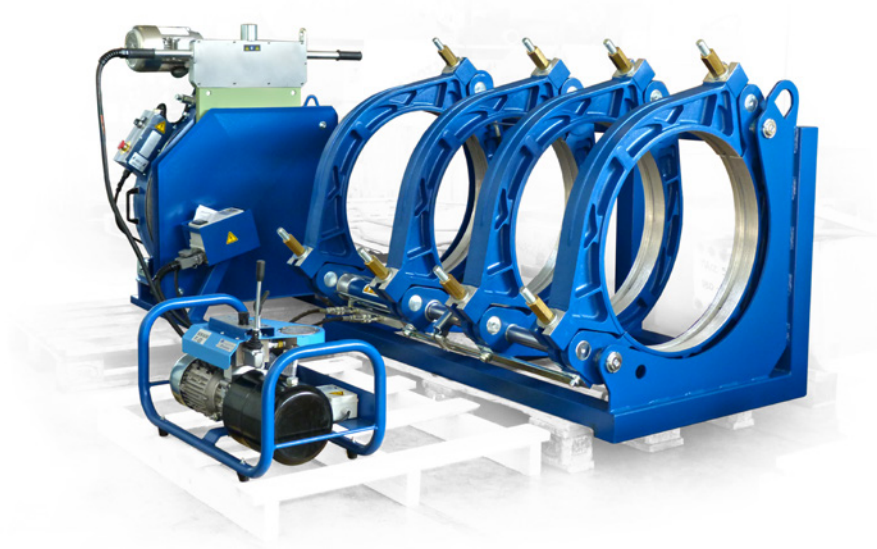
WELDING RANGE ACCORDING TO ISO 21307 (SHP) and ASTM F2620

Ø	SDR 41	SDR 33	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
200	✓	✓	✓	✓	✓	✓	✓
280	✓	✓	✓	✓	✓	✓	✓
315	✓	✓	✓	✓	✓	✓	✓
355	✓	✓	✓	✓	✓	✓	✓
400	✓	✓	✓	✓	✓	✓	✓
450	✓	✓	✓	✓	✓	✓	✓
500	✓	✓	✓	✓	✓	✓	✓

PT 630 HP

TECHNICAL DATA - STANDARD VERSION

Welding Range	Ø 315 - 630 mm Ø 14" - 24" IPS
Operating pressure	4* - 250 bar *(recommended value)
Standard Voltage	230/400 V 50/60 Hz
Cylinders'total section	49.08 cm ²



CHANGES COMPARED TO STANDARD PTs

- PT 630 MY2016 or later is necessary
- Reinforced tie rods and clamps spacers
- New cylinder with increased section
- New hydraulic unit up to 250 Bar / 3625 PSI

WELDING RANGE ACCORDING TO ISO 21307 (SHP) and ASTM F2620

Ø	SDR 41	SDR 33	SDR 13.6	SDR 11	SDR 9	SDR 7.4	SDR 6
315		✓	✓	✓	✓	✓	✓
355	✓	✓	✓	✓	✓	✓	✓
400	✓	✓	✓	✓	✓	✓	✓
450	✓	✓	✓	✓	✓	✓	✓
500	✓	✓	✓	✓	✓	✓	✓
560	✓	✓	✓	✓	✓	✓	✓
630	✓	✓	✓	✓	✓	✓	✓

PT - HP SERIES - OPTIONALS

LDU3

TECHNICAL DATA

kg	5.1
cm	34x29x18h
Electrical power	Rechargeable battery



A small box with a wi-fi transmitter that, connected to your butt welder, communicates via app to your Android smartphone or tablet, LDU³ is the new T2's data logger.

The app is simple and intuitive, the operator only needs to:

- enter the data of the tube to be welded and choose the welding standard;
- perform the welding with the parameters automatically calculated by the app; CHEESE! The report is ready!

On the tablet, the graph of welding at each stage can be viewed in real time. The report, exported to PDF, including the graph, can be enriched with photos of the operator and the welding.

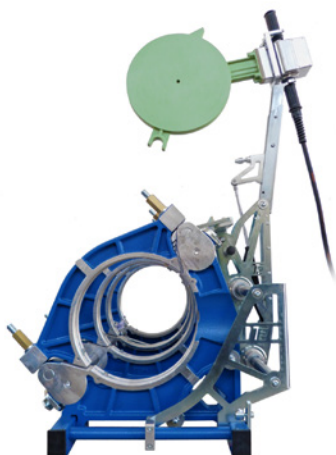
LDU3 is compatible with pre-existing PT models, dating up to the year 2006.

MDD

PT Automatic Mirror lifting Device, the best solution in order to minimize the change over time during the welding cycle.

After the heating phase, when the clamps are open, the heating mirror automatically lifts up, allowing one only operator to easily accomplish the whole welding.

The device can be assembled on existing PT series machines from PT 250 to PT 500. No modifications are required.



RPS

Simple and practical roller stands for precise pointing and support, they allow to reduce the friction and do easily move the pipe, during the welding phases.

All pipes up to 630 mm diameter can be supported.



CONTACT



T2 WELDING SRL
via Bacchiglione, 22/1
35030 Cervarese Santa Croce (PD) ITALY



+39 049 9915677



info@t2welding.com

FOLLOW US





T2 WELDING SRL
via Bacchiglione, 22/1
35030 Cervarese Santa Croce (PD) ITALY
+39 049 9915677
info@t2welding.com