



FX

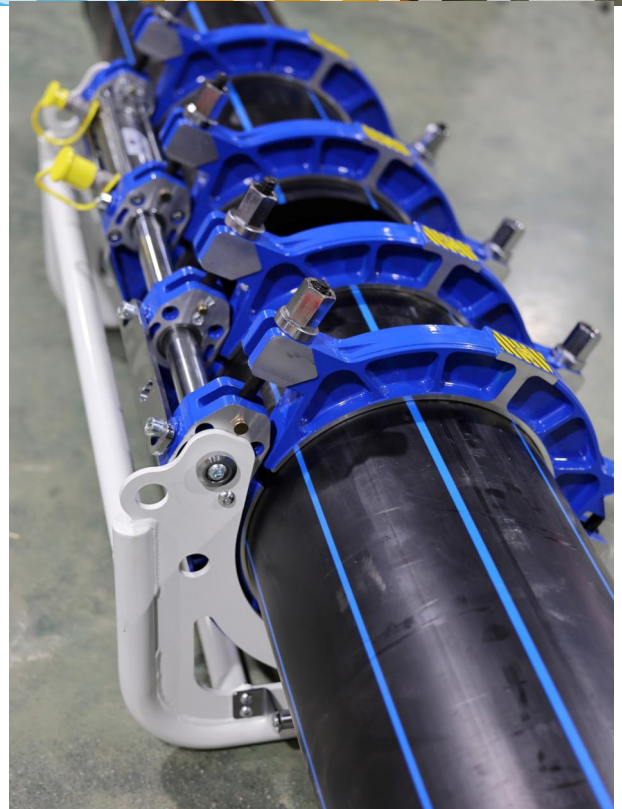
FOR PROFESSIONALS

Smart Pressure

The FX series hydraulic unit features an advanced hydraulic design, with a refined appearance and efficient, user-friendly operation.

The unique 'Release' button instantly reduces the pressure to the pipe milling level, enabling quick pressure relief for efficient pipe ends milling.

Featuring forward movement at 1X speed and reverse at 1.3X speed. Improves efficiency and reduces switching time.



Robust Frame

The frame is fully welded from high-strength steel, ensuring excellent durability and resistance to deformation, even under harsh working conditions.

Flexibility & Reliability

The clamp inserts are designed to cover a wide range of pipe sizes, significantly reducing the need for multiple insert combinations.

For example, a large span from 90mm to 315mm requires only three sets of inserts, greatly improving work efficiency.

Meanwhile, the inserts feature a high-strength structure, pressure-cast for durability, making them suitable for heavy-duty applications.

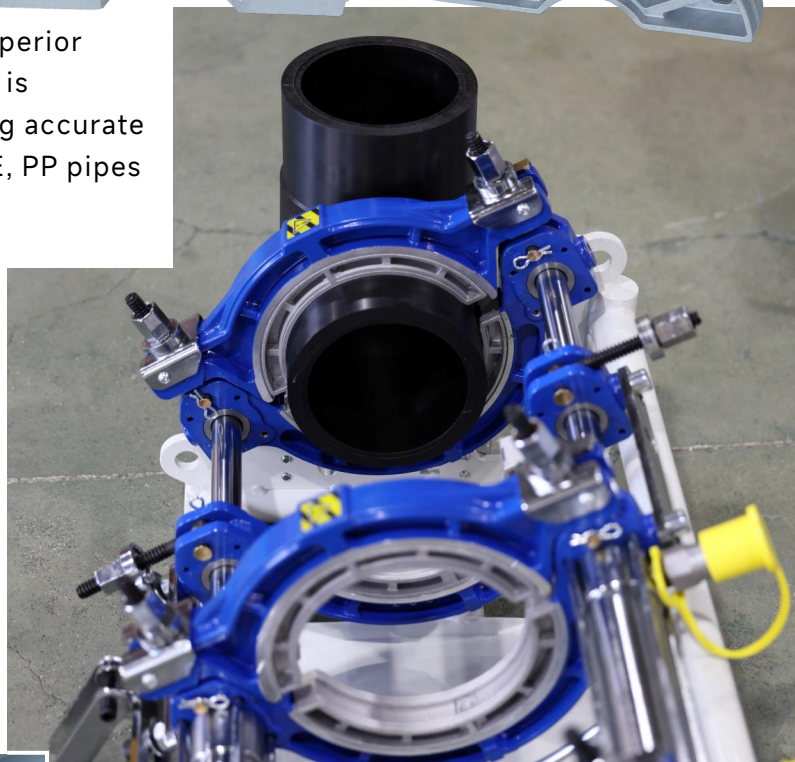


Single Size Clamp Inserts

Welping's single-size clamp inserts are precisely engineered and manufactured from high-quality aluminum die-casting, offering superior strength and dimensional stability. Each insert is designed for a specific pipe diameter, ensuring accurate centering and firm clamping during various PE, PP pipes butt fusion welding.

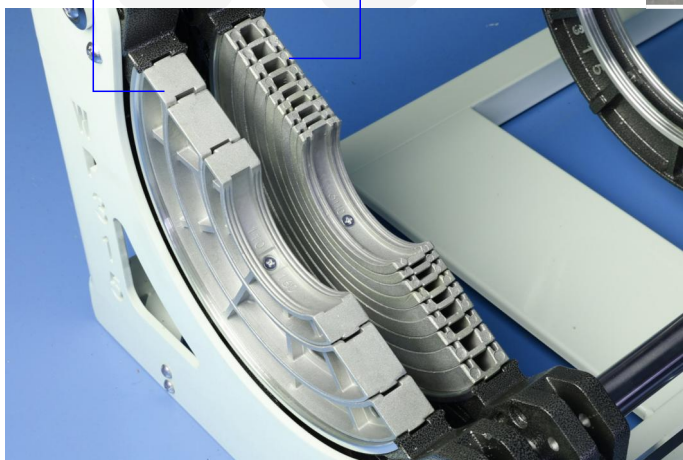
Quick installation: Single-piece structure ensures easy handling and reliable alignment, greatly reducing the stacking quantity of the clamp inserts.

Compatible with FX Series, A Pro Series, A Series, and C Series fusion machines, 160mm, 200mm, 250mm and 315mm



Single-size type

Normal type



Available with

90-315mm	3-layer insert combination
63-250mm	3-layer insert combination
63-200mm	2-layer insert combination
50-160mm	Single-size insert
40-160mm	2-layer insert combination

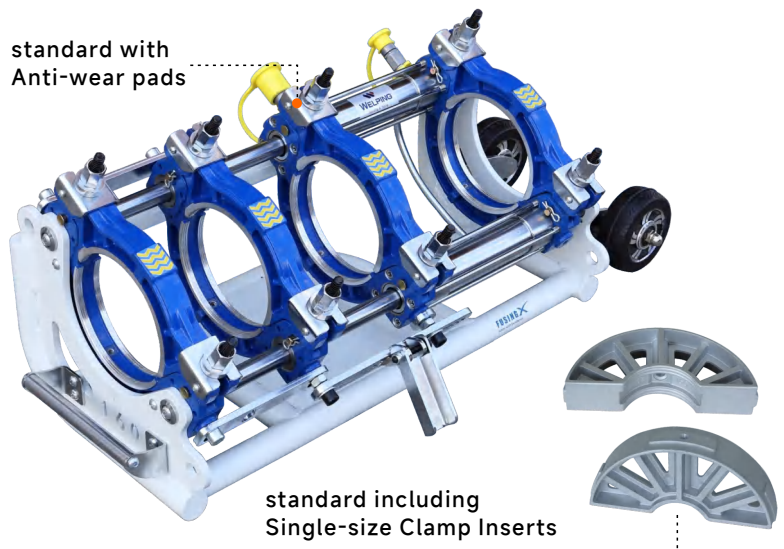
*Support customization of specific sizes



Intelligent Hydraulic Control System
Precise & Smooth Operation
One-Touch Pressure Adjustment

Model	FX160
Welding range (mm)	40-160
Standard inserts (mm)	40-50-63-75-90-110 -125-140-160(M)
Power supply	220V/50Hz, 1PH
Total power	3.65 KW
Heating plate	1.5 KW
Facer	1.4 KW
Hydraulic station	0.75 KW
Pressure adjusting range	0-8 MPa
Max Temperature	270°C
Temperature Deviation	±5°C
Piston Area	15.32 CM ²

standard with
Anti-wear pads



standard including
Single-size Clamp Inserts

FX160

Engineered for high-demand construction projects, the FX Series butt fusion machines provide professional-grade performance and reliability.

With its advanced design and intelligent hydraulic system, it is particularly suitable for HDPE, PP, and PVDF pipes, ensuring strong and consistent joints in critical applications

Convenient
wheels



New Design
Enhanced Structure for Heavy-Duty Use

Easy-Grip Handle



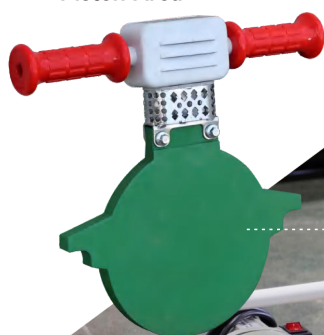
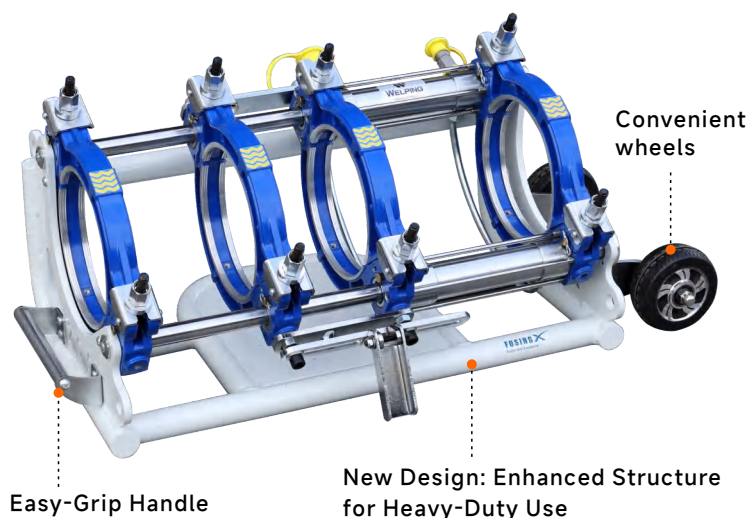
Min. temperature deviation
Thickened heating plate
Premium PTFE coating



Butt Fusion Machine

Premium line for professionals

Model	FX 200
Welding range (mm)	63-200
Standard inserts (mm)	63-75-90-110-125-140 -160-180-200(M)
Power supply	220V/50Hz, 1PH
Total power	3.95 KW
Heating plate	1.8 KW
Facer	1.4 KW
Hydraulic station	0.75 KW
Pressure adjusting range	0-8 MPa
Max Temperature	270°C
Temperature Deviation	±5°C
Piston Area	15.32 CM ²



Min. temperature deviation
Thickened heating plate
Premium PTFE coating

FX200

standard with
Anti-wear pads

Engineered for high-demand construction projects, the FX Series butt fusion machines provide professional-grade performance and reliability

Intelligent Pressure Control HPU
Precise & Smooth Operation
One-Touch Pressure Adjustment

standard including
Single-size Clamp Inserts

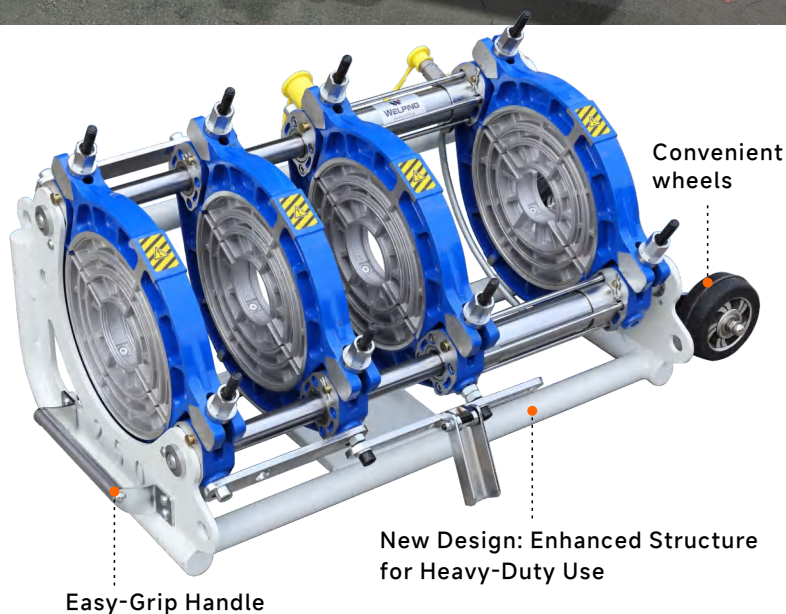




Butt Fusion Machine

Premium line for professionals

Model	FX250
Welding range (mm)	63-250
Standard inserts (mm)	63-75-90-110-125-140 -160-180-200-225-250(M)
Power supply	220V/50Hz, 1PH
Total power	5.05 KW
Heating plate	2.3 KW
Facer	2.0 KW
Hydraulic station	0.75 KW
Pressure adjusting range	0-8 MPa
Max Temperature	270°C
Temperature Deviation	±5°C
Piston Area	11 CM ²



Engineered for high-demand construction projects, the FX Series butt fusion machines provide professional-grade performance and reliability

FX250



standard with
Anti-wear pads

Intelligent Pressure Control HPU
Precise & Smooth Operation
One-Touch Pressure Adjustment

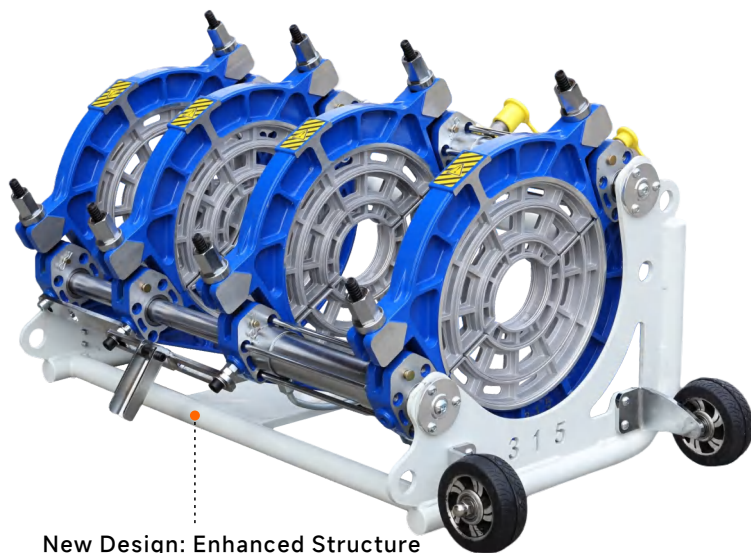
standard including
Single-size Clamp Inserts

Min. temperature deviation
Thickened heating plate
Premium PTFE coating

Butt Fusion Machine

Premium line for professionals

Model	FX 315
Welding range (mm)	90-315
Standard inserts (mm)	90-110-125-140-160-180 -200-225-250-280-315(M)
Power supply	220V/50Hz, 1PH
Total power	5.85 KW
Heating plate	3.1 KW
Facer	2.0 KW
Hydraulic station	0.75 KW
Pressure adjusting range	0-8MPa
Max Temperature	270°C
Temperature Deviation	±5°C
Piston Area	20.02 CM ²



New Design: Enhanced Structure for Heavy-Duty Use

Engineered for high-demand construction projects, the FX Series butt fusion machines provide professional-grade performance and reliability

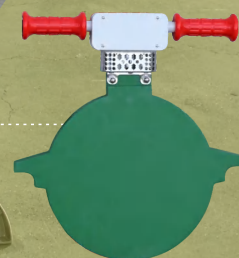
FX315



Intelligent Pressure Control HPU
Precise & Smooth Operation
One-Touch Pressure Adjustment

standard with
Anti-wear pads

standard including
Single-size Clamp Inserts



Min. temperature deviation
Thickened heating plate
Premium PTFE coating

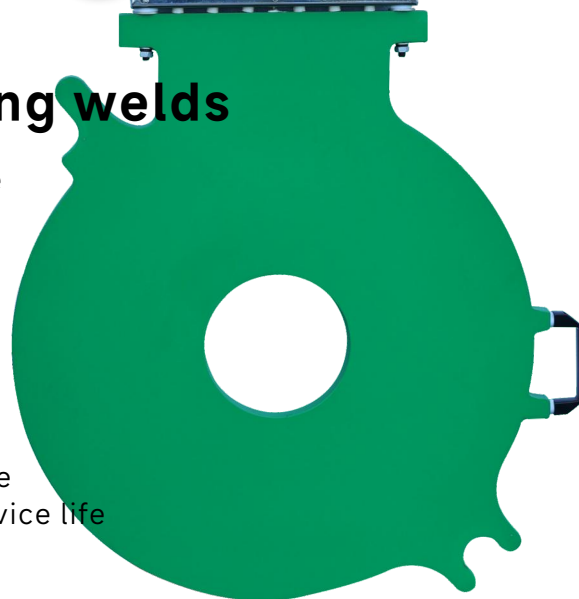
FX Heating plate

Excellent heating for demanding welds

Designed for professional-grade butt fusion welding, the FusingX premium heating plate features:

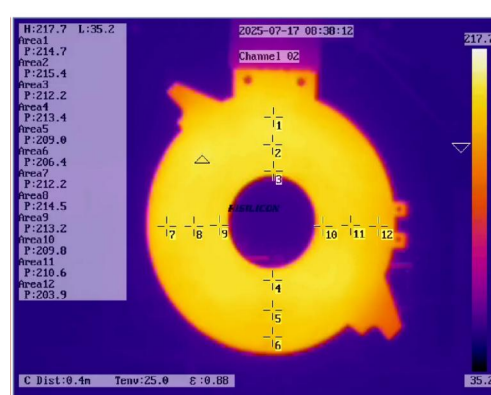
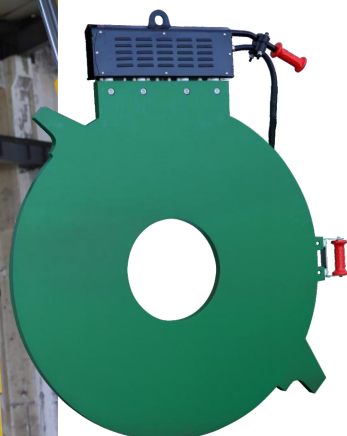
Thicker cast aluminum body with optimized internal heating elements ensures rapid warm-up and uniform heat distribution. Effectively controls temperature deviation to ensure uniform heating, laying the foundation for high-quality fusion joints.

Coated with Daikin PEFT non-stick finish to resist residue and oxidation, making cleaning easier and extending service life



Choice for professionals

Standard for FX series fusion machines
Optional for A pro and A series fusion machines
Size available with 160mm up to 2250mm,
supports customization



FX FOR PROFESSIONALS

Model	FX 355	FX 400	FX 450	FX 500
Welding range (mm)	90-355	180-400	180-450	180-450
Standard inserts (mm)	90-110-125-140-160-180-200 -225-250-280-315-355(M)	180-200-225-250-280 -315-355-400(M)	180-200-225-250-280 -315-355-400-450(M)	180-200-225-250-280 -315-355-400-450-500(M)
Power supply	220V/50Hz, 1PH	380V/50Hz, 3PH	380V/50Hz, 3PH	380V/50Hz, 3PH
Total power	6.35 KW	8.7 KW	8.7 KW	9.1 KW
Heating plate	3.6 KW	6.5 KW	6.5 KW	6.5 KW
Facer	2.0 KW	1.1 KW	1.1 KW	1.5 KW
Hydraulic station	0.75 KW	1.1 KW	1.1 KW	1.1 KW
Pressure adjusting range	0-8 MPa	0-10 MPa	0-10 MPa	0-10 MPa
Max Temperature	270°C	270°C	270°C	270°C
Temperature Deviation	±5°C	±7°C	±7°C	±7°C
Piston Area	20.02 CM ²	22.38 CM ²	22.38 CM ²	22.38 CM ²

Model	FX 630	FX 800	FX 1000	FX 1200
Welding range (mm)	315-630	450-800	630-1000	630-1200
Standard inserts (mm)	315-355-400-450-500 -560-630(M)	450-500-560-630 -710-800(M)	630-710-800 -900-1000(M)	630-710-800-900 -1000-1100-1200(M)
Power supply	380V/50Hz, 3PH	380V/50Hz, 3PH	380V/50Hz, 3PH	380V/50Hz, 3PH
Total power	10.1 KW	16.2 KW	24.5 KW	30.5 KW
Heating plate	7.5 KW	12.5 KW	17.5 KW	22.5 KW
Facer	1.5 KW	2.2 KW	3 KW	4 KW
Hydraulic station	1.1 KW	1.5 KW	4 KW	4 KW
Pressure adjusting range	0-10 MPa	0-10 MPa	0-12 MPa	0-12 MPa
Max Temperature	270°C	270°C	270°C	270°C
Temperature Deviation	±7°C	±7°C	±7°C	±7°C
Piston Area	27.1 CM ²	31.8 CM ²	36.52 CM ²	45.94 CM ²