



PolyForce630/24 CNC Trench

Worldpoly PolyForce630/24 CNC AllTerrain Fusion Machine. Australian Made.

Born from more than 50 years and three generations of experience with PE pipe and a 3 year dedicated research and development project with Bosch Rexroth, Worldpoly manufactures the PolyRover and PolyForce range in Australia to provide today's HDPE pipe fusion machine for welding according to both high and low pressure standards.

PolyForce630 CNC provides the highest quality and most consistent high and low pressure butt fusion possible. High pressure (SHP) SDR 11 HDPE butt welds consistently test between 101% and 107% of host pipe strength.

Under the correct site conditions, PolyForce630/24 CNC can reduce welding time by more than 50%.

Occupational Health and Safety friendly operation.

Two-handed controls with dead-man switches, keyed hydraulic safety lockout, 4 x Cat3 E-stops, restricted human entry to danger zones. Operator training provided with every machine, including registered licence.

Machine can be set to operate only when this licence number is entered.

3.5 second automatic changeover time for 630mm / 24" OD SDR 11, and impossible to crash pipe faces after heating - reduces or eliminates brittle failure through operator variables.

Automatic intuitive CNC or manual control. Highest possible level of HDPE pipe weld quality, and easier to use than a smartphone.

Automatic control of temperature, time and pressure through the use of Bosch Rexroth's almost indestructible mobile PLC – the same as is used in underground rock drills.

Fully automatic heating, changeover and cooling cycle following entry of welding standard, pipe diameter and wall thickness or SDR.

Automatic detection of pipe slippage.

Incorporated 5,000 weld data logging, optional remote Bluetooth, GPS & Satellite communication, and GPS.

Hydraulic open/close/locking clamps, heating plate and facing tool without operator contact.

Clamps, heating plate and facing tool cannot crash.

Butt welding between clamps 2 & 3 or 3 & 4 for fittings, fabrications etc..

Australian designed and manufactured, the toughest and arguably most easily operated HDPE pipe welding machine on the market.

PolyForce630/24 CNC reduces welding time and workload on remote sites, allowing superb quality control, and faster, more efficient butt fusion of PE and PP pipelines.

Practical design with the ability to butt weld HDPE pipe

at both high and low pressure.

Manual or CNC operation, hydraulically lifted facing tool and heating plate, hydraulic controls and pump all on-board the main frame.

Hydraulic open/close/locking of pipe clamps - with crash protection and without operator contact during operation. Easy pipeline, trench or workshop butt fusion machine, supplied complete and ready to weld from 315 to 630mm / 8" or 12" to 24" diameter pipes and fittings between clamps 3 & 4 for tight work, plus high quality and sturdy construction provides an excellent platform for pipeline welding.

Worldpoly PolyForce630/24 CNC is specifically designed for use in rugged and remote terrain, available in tracked, wheeled or basic options, easily operated CNC or manual control with operator safety well considered, and includes 5000 weld data logger.

Standard pricing includes all diameter clamps and stub device.

PolyForce630 CNC. Today's HDPE fusion welder to take your business to the next level.

TECHNICAL SPECIFICATIONS

PolyForce630/24 Trench - Australian Made

Genuine 5 year international warranty

Hydraulic in/out facing tool and heating plate with crash protection. No longer are these considered consumables

Hydraulic open/close/locking of main clamps without operator contact

Simple operation. Automatic or manual. Integral 5000+ weld data logger

Bosch Rexroth hydraulics for highest quality and local serviceability

Pipe clamps prevent slippage even under extreme conditions. Machine detection of pipe slippage in case of significantly undersized pipe.

External hydraulic pipe lifters front and rear

Self-contained welding unit easily moved for site and trench work

Built tough, locally serviceable, low-noise. Just what you've been looking for

Capacity 315 to 630mm OD. Two-piece clamp inserts for pipe and fittings diameters 630, 560, 500, 450, 400, 355, 315, 280, 250 & 225mm (or 24" to 8").

Hydraulics and controls - Bosch Rexroth, locally serviceable

Welded steel welding machine frame

Rated lifting points on welding machine and frame. Optional spreader bar

Maximum pump operating pressure - 200 bar / 20 MPa

Total cylinder section - 3660mm²

Weight - 1400 kg

Technical specifications subject to change without notice. Please check at time of order confirmation.