

POLYGON™

MITER & BUTT FUSION FOR 2" - 6" (63MM - 180MM)
POLYETHYLENE PIPE & SOCKET FUSION CAPABILITY FOR
2" - 4" (63MM - 125MM) PIPE & FITTINGS



MADE FOR

UNDERGROUND
CONSTRUCTION



The Polygon allows installers the flexibility to complete butt and miter fusions from zero- to 45-degree angles for 2" to 6" (63mm to 180mm) polyethylene pipe. It has the additional capability to perform socket fusions for 2" to 4" (63mm to 125mm) polyethylene pipe and fittings.

This three-in-one machine is the ideal prefabrication tool. With the ability to perform miter fusions in the field, time and costs can be saved on purchasing and waiting on molded or fabricated fittings to be made.

The Polygon's quick-clamping jaws pivot in either direction making the machine faster and easier to set up. The rotating jaws lock in exact angles from zero- to 45-degrees for butt or miter fusions, and the outer jaws are easily removable for fusion in tighter work spaces. A quick open/close, non-back-drivable wheel drive provides smooth jaw movement. The jaws can also be swapped with an optional Spider™ 125 Series 2 Jaw Adapter Kit for socket fusion.

With a manually-powered fusion carriage and a battery-operated drill to power the facer, the only power required is for the 1,600-watt heater. This helps minimize the amount of extra power equipment needed onsite and simplifies the working space. A sturdy travel case provides easy transport of the entire machine and accessories.

The Polygon is McElroy's first manually-operated butt fusion machine with DataLogger® capability which allows the capture of joint information to ensure that proper fusion procedures have been followed prior to installation. Joint records from the DataLogger can be securely stored and analyzed online in the Vault™. This allows quick and easy sorting, tagging and sharing of joint records by machine, joint, operator, device or job.

STANDARD FEATURES

- ✓ Produces miter, butt and socket fusion joints
- ✓ Pivoting jaws for faster, easier fusion setup
- ✓ Easily removable outer jaws for tighter work spaces
- ✓ Quick open/close, non-back-drivable wheel drive for smooth jaw movement
- ✓ Side-positioned wheel drive for easier movement of the carriage
- ✓ Power required only for the heater; battery-operated drill powers the facer
- ✓ Manually-operated machine with DataLogger® capability
- ✓ Easy-to-view pressure gauge



DataLogger
COMPATIBLE

SPECIFICATIONS

MODELS

A729803	High Force, 120V
A729804	High Force, 240V

WEIGHTS

Machine	50.7 lbs. (23 Kg)
Polygon Heater	16.3 lbs. (7.4 Kg)
16-125mm Heater	5.5 lbs. (2.5 Kg)
Facer	17.5 lbs. (7.9 Kg)

HYDRAULICS

System Pressure	1,500 PSI (103.4 BAR)
Fusion Pressure	1,500 PSI (103.4 BAR)

POWER

16-125mm Heater	100-120V, 1,600 Watts, 50 / 60 Hz, 1 Ph
Polygon Heater	100-120V, 1,600 Watts
Polygon Heater	220-240V, 1,600 Watts
120V Facer	100-120V, 20V Battery
240V Facer	220-240V, 18V Battery
Polygon Heater Plug type	CEE 7/7 (DIN 49441)
16-125mm Heater Plug type	NEMA 5-15P

MACHINE DIMENSIONS

Machine Length	25.2" (641.3mm)
Machine Width	15" (381mm)
Machine Height	17" (431.8mm)

INCLUDES

Includes Polygon™ fusion machine, 8" handle, 6" IPS inserts, heater, facer with drill motor, spare battery and charger, heater/facer stand and shipping case. [Spider™ Jaw Adapter Kit](#) sold separately.