# Combirex™ PRO

## CNC Shape Cutting Machine



The Combirex™ PRO automated cutting system offers large gantry design and performance in a compact package. The rugged gantry features all-steel construction with machined mating surfaces for stiffness and accuracy. Heavy duty H-beams support robust crane rails to provide a sturdy, durable foundation, and easy installation on any concrete floor. Featuring a dual linear rail Y-axis beam and high-speed digital AC drives, this machine delivers the cutting performance you would expect from much more expensive gantries.

### Plasma Cutting

The Combirex PRO can be equipped with air plasma systems up 120 A or ESAB's iSeries high precision plasma systems, which allow the machine to cut and mark with the same plasma torch. iSeries systems available on the Combirex PRO in 130 to 600 A configurations.

### Plasma Beveling

The Combirex PRO can be equipped with the optional DMX Automated Plasma Beveller. This compact plasma bevel system uses compound motion and ESAB's SmartBevel Technology to deliver high productivity with reliable beveling.

### Oxy-Fuel Torch Stations

The Combirex PRO can be equipped with up to 4 gas torch cutting stations, utilizing either the CoolJet PRO or SmartJet oxy-fuel torches. An electronic proportional valve gas control fully automates the high/low preheat pressures, cutting oxygen pressure, and pierce ramp control through the built-in process database.

### Plate marking

With the Combirex PRO, plate marking can be accomplished by the iSeries plasma system or by an optional air scribe marker, allowing accurate marking and cutting on the same parts.

### Combirex PRO Features:

- Built with sturdy components typically reserved for larger machines, Combirex delivers exceptional durability
- Precision-machined steel box beam with dual linear rails provides a solid, accurate platform for the cutting tools
- Featuring oversized drives and a stiff gantry design, Combirex excels at high precision plasma and small hole cutting
- Combirex makes it easy to produce high-quality parts thanks to high speeds, excellent accuracy and smooth motion
- An innovative safety package is fully compliant with the EC Machinery Directive, giving best-in-class personnel safety

Visit **esab.com** for more information.

# Combirex™ PRO

| Specifications | | | | | |
|---|---|---|---|---|---|
| **Combirex PRO** | **2500** | **3000** | **3500** | **4000** | **4500** |
| Recommended Max. Plate Width | 1.5 m (5 ft) | 2 m (6 ft) | 2.4 m (8 ft) | 3 m (10 ft) | 3 m (10 ft) |
| Max Cross Cut with 1 Tool | 2000 mm | 2500 mm | 3000 mm | 3500 mm | 4000 mm |
| Max Cross Cut with 2 Tools | 2000 mm | 2500 mm | 3000 mm | 3500 mm | 4000 mm |
| Max Cross Cut with 3 Tools | 1880 mm | 2380 mm | 2880 mm | 3380 mm | 3880 mm |
| Max Cross Cut with 4 Tools | 1680 mm | 2180 mm | 2680 mm | 3180 mm | 3680 mm |
| Common Cut Width with DMX | - | 2134 mm | 2634 mm | 3134 mm | 3634 mm |
| Common Cut Width with DMX + 1 Oxy | - | - | 2250 mm | 2750 mm | 3250 mm |
| Common Cut Width DMX + 2 Oxy | - | - | 2050 mm | 2550 mm | 3050 mm |
| Common Cut Width DMX + 3 Oxy | - | - | 1850 mm | 2350 mm | 2850 mm |
| Rail Gauge | 2500 mm | 3000 mm | 3500 mm | 4000 mm | 4500 mm |
| Internal Clearance | 2200 | 2700 | 3200 | 3700 | 4200 |
| Maximum Table Outside Width | 2134 | 2634 | 3134 | 3634 | 4134 |
| Machine Width | 3590 | 4090 | 4590 | 5090 | 5590 |
| Machine Height | 2193 mm (86 in.) | | | | |
| Work Table Height | 700 mm (27.5 in.) | | | | |
| Parking Area | 1500 mm (59 in.) | | | | |
| Speed Range | 50 – 35560 mm/min Rail Axis (2 – 1400 ipm)<br>50 – 24000 mm/min Cross Axis (2 – 945 ipm) | | | | |
| Power Requirement | 230/460/575 VAC, 50/60 Hz, 1-Ph, 30 Amps<br>(Special input voltages are available upon request) | | | | |

| Rail System Specification | | |
|---|---|---|
| Track Height | 500 mm (19.6 in.) | |
| **Rail Length** | **Travel Length** | **H-Beam Length** |
| 5 m (16.4 ft) | 3570 mm | 5235 mm |
| 6 m ( 19.7 ft) | 4570 mm | 6235 mm |
| 8 m (26.2 ft) | 6569 mm | 8236 mm |
| 9 m (29.5 ft) | 7569 mm | 9233 mm |
| 10 m (32.8 ft) | 8569 mm | 10236 mm |
| 12 m (39.3 ft) | 10554 mm | 12230 mm |
| 15 m (49.2 ft) | 13569 mm | 15236 mm |
| 20 m (65.6 ft) | 18569 mm | 20236 mm |

| Tool Specifications | |
|---|---|
| Cutting Processes | Plasma, Oxy-Fuel |
| Plasma System Options | Up to 600 Amps |
| Plasma Cutting Thickness | max. 75 mm (2.9 in.), depending on plasma unit |
| Maximum Plasma Station | 1 |
| Oxy-Fuel Cutting Thickness | max. 200 mm (7.9 in.) edge start |
| Maximum Pierce Thickness | 150 mm (5.9 in) with one oxy-fuel torch |
| Maximum Oxy-Fuel Stations | 4 |
| Maximum Marking Tools | 1 Air-Scribe Unit |
| Maximum Total Stations | 4 |
| Maximum Tool Configurations | 1 plasma and 3 oxy-fuel, or 4 oxy-fuel, or 1 plasma, 1 marker, and 2 oxy-fuel |

Specifications are subject to change without notice. Please contact ESAB Cutting Systems for the most current specifications, numerical control, and available equipment.

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