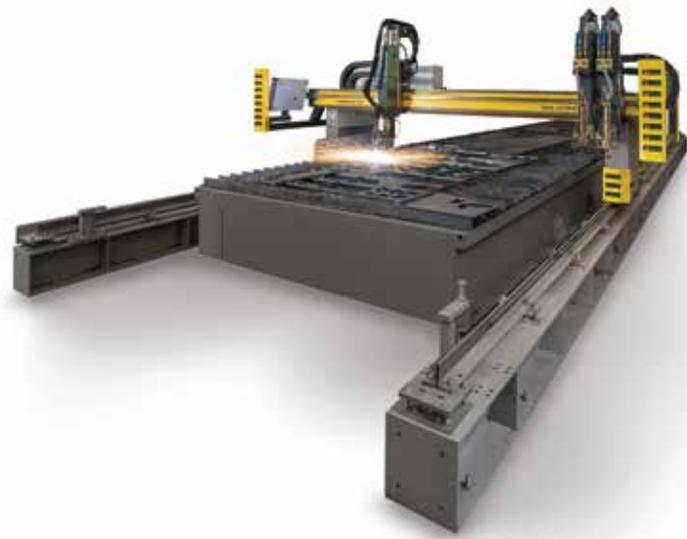


# Combirex™ DX

## CNC Gantry Cutting Machine



*Combirex DX CNC Gantry Cutting Machine*

The Combirex™ DX 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 weldments support triple machined T-rails to provide a sturdy, stable foundation. Featuring a precision linear rail Y-axis guiding system, precision three-axis rack-and-pinion drives, digital AC drives and AC brushless motors, this machine delivers the cutting performance you would expect from higher-priced gantries.

- Built with sturdy components typically reserved for larger machines, Combirex delivers exceptional durability
- Featuring oversized drives, linear rails, and a stiff gantry design, Combirex excels at precision plasma and small hole cutting
- Combirex makes it easy to produce high-quality parts thanks to high speeds, excellent accuracy and smooth motion
- The machine is equipped with an innovative safety package that provides full compliance with EC Machinery Directive

### Plasma Stations

Combirex DX can be equipped with air plasma systems up to 120 amps or ESAB's iSeries Plasma System, which allows the machine to cut and mark with the same plasma torch. The iSeries system is available on the Combirex DX in 100, 200, 300 or 400 Amp configurations.

### Plasma Beveling

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

### Oxy-Fuel Torch Stations

Combirex DX may be equipped with up to 4 oxy-fuel cutting stations. The stations feature heavy-duty motorized lifters with capacitive height control and pilot flame torch ignitors. An electronic proportional valve gas control sets high/low preheat pressures, cutting oxygen pressure, and pierce ramp automatically through the built-in process database.

### Plate Marking

With the Combirex DX, 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.

Visit [esab.com](http://esab.com) for more information.

# Combirex™ DX

Specifications				
Combirex DX Gantry	2500	3000	3500	4000
Recommended Max. Plate Width	5 ft. (1.5 m)	6 ft. (2 m)	8 ft. (2.4 m)	10 ft. (3 m)
Max. Cross Travel with 1 Tool	79 in. (2000 mm)	98 in. (2500 mm)	118 in. (3000 mm)	138 in. (3500 mm)
Max. Cross Travel with 2 Tools	79 in. (2000 mm)	98 in. (2500 mm)	118 in. (3000 mm)	138 in. (3500 mm)
Max. Cross Travel with 3 Tools	71 in. (1800 mm)	90.5 in. (2300 mm)	110 in. (2800 mm)	130 in. (3300 mm)
Max. Cross Travel with 4 Tools	63 in. (1600 mm)	83 in. (2100 mm)	102 in. (2600 mm)	122 in. (3100 mm)
Max. Cross Travel with DMX	-	84 in. (2130 mm)	103.5 in. (2630 mm)	123 in. (3130 mm)
Max. Cross Travel with DMX + 1 Oxy	-	-	95 in. (2420 mm)	115 in. (2920 mm)
Max. Cross Travel with DMX + 2 Oxy	-	-	87 in. (2210 mm)	107 in. (2710 mm)
Max. Cross Travel with DMX + 3 Oxy	-	-	79 in. (2000 mm)	98 in. (2500 mm)
Rail Gauge	2500 mm	3000 mm	3500 mm	4000 mm
Internal Clearance	86 in. (2184 mm)	106 in. (2692 mm)	126 in. (3200 mm)	145 in. (3683 mm)
Max. Table Outside Width	77 in. (1956 mm)	96.5 in. (2451 mm)	116 in. (2947 mm)	136 in. (3454 mm)
Machine Width	143 in. (3625 mm)	162 in. (4125 mm)	182 in. (4625 mm)	202 in. (5125 mm)
Machine Height	83 in. (2100 mm)			
Work Table Height	26-30 in. (660-762 mm)			
Parking Area	57 in. (1440 mm)			
Speed Range	2 - 1000 ipm (50.8 - 25,000 mm/min)			
Input Voltage	230/460/575 VAC, 1ph, 50/60 Hz, 30 A (special input voltages are available upon request)			

Rail System Specifications		
Rail Length	Travel Length	H-Beam Length
16.4 ft. (5 m)	140.5 in. (3569 mm)	206 in. (5236 mm)
19.7 ft. (6 m)	180 in. (4569 mm)	245.5 in. (6236 mm)
26.2 ft. (8 m)	258.5 in. (6569 mm)	324 in. (8236 mm)
32.8 ft. (10 m)	337 in. (8569 mm)	403 in. (10236 mm)
49.2 ft. (15 m)	534 in. (13569 mm)	600 in. (15236 mm)
65.6 ft. (20 m)	731 in. (18569 mm)	797 in. (20236 mm)
<b>Track Height</b>	<b>18 in. (463 mm)</b>	

Tool Specifications	
Cutting Processes	Plasma, Plasma Bevel, Oxy-Fuel
Plasma System Options	Up to 450 A
Plasma Cutting Thickness	Max. 2 in. (50 mm)
Plasma Bevel Thickness	Max. 1.5 in. (40 mm)
Max. Plasma Stations	1
Oxy-Fuel Cutting Thickness	Max. 8 in. (200 mm) when edge starting
Max. Pierce Thickness	6 in. (150 mm) with one oxy-fuel torch
Max. Oxy-Fuel Stations	4
Max. Marking Tools	1 Air-Scribe Unit
Max. Total Stations	4
Max. Tool Configurations	1 plasma and 3 oxy-fuel 4 oxy-fuel 1 plasma, 1 marker, 2 oxy-fuel



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