The next generation of high precision plasma cutting.





ESAB's new iSeries technology provides the next generation of higher productivity, increased flexibility and confidence in high precision plasma cutting.

Superior performance on mild steel and non-ferrous metals will meet or exceed other systems in its class.

Designed to grow with your business, you can upgrade your system in minutes. The iSeries systems utilize StepUp™ modular power technology, allowing units to be easily upgraded - ensuring you always have the right amount of power for your current and future applications.

- HeavyCut[™] provides the best cut quality, precision and parts life with XTremeLife[™] Wear Parts
- Unmatched cut quality on non-ferrous metals using unique Water Mist Secondary (WMS®) process
- Highest cut speed in its class on stainless steel up to 3 times faster than similar cutting systems
- Work pieces can go directly from the cutting table to welding, painting or assembly without expensive secondary operations
- Excellent dross-free cuts using oxygen (O₂) plasma on mild steel

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

Industry

- Industrial and General Manufacturing
- Heavy Fabrication
- Marine and Offshore
- Railcars
- Steel Cutting Centres (Cutting Only)



| Specifications | 100i | 200i | 300i | 400i |
|---------------------------|---|---|---|---|
| Maximum output | 100 A | 200 A | 300 A | 400 A |
| Output range | 5-100 A | 5-200 A | 5-300 A | 5-400 A |
| Output power | 180 V | 180 V | 180 V | 200 V |
| Output at 100% duty cycle | 20 kW | 40 kW | 60 kW | 80 kW |
| Input voltage | 380/400/480 V | 380/400/480 V | 380/400/480 V | 380/400/480 V |
| Input phases | 3 ph | 3 ph | 3 ph | 3 ph |
| Input frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Input amps | 33 A @ 380 V 31 A @ 400 V 26 A @ 480 V | 65 A @ 380V 62 A @ 400 V 52 A @ 480 V | 97 A @ 380 V 93 A @ 400 V 77 A @ 480 V | 144 A @ 380 V 137 A @ 400 V 114 A @ 480 V |
| Max OCV | 425 V | 425 V | 425 V | 425 V |
| Plasma gas | Air O2 Ar-H2 N2 @ 8.3 bar (120 psi) Arfor marking w/ DFC 3000 | Air O2 Ar-H2 N2 @ 8.3 bar (120 psi) Arfor marking w/ DFC 3000 | Air O2 Ar-H2 N2 @ 8.3 bar (120 psi) Arfor marking w/ DFC 3000 | Air O2 Ar-H2 N2 @ 8.3 bar (120 psi) Arfor marking w/ DFC 3000 |
| Shielding gas | Air N2 O2 @ 8.3 bar (120 psi) H20 @ 0.6 l/min (10 gph) max | Air N2 O2 @ 8.3 bar (120 psi) H20 @ 0.6 l/min (10 gph) max | Air N2 O2 @ 8.3 bar (120 psi) H20 @ 0.6 l/min (10 gph) max | Air N2 O2 @ 8.3 bar (120 psi) H20 @ 0.6 l/min (10 gph) max |
| Weight | 186 kg (410 lbs) | 205 kg (451 lbs) | 244 kg (537 lbs) | 252 kg (555 lbs) |
| Dimensions L x W x H | 1219 x 698 x 1031 mm (48 x 27.5 x 40.6 in.) | 1219 x 698 x 1031 mm (48 x 27.5 x 40.6 in.) | 1219 x 698 x 1031 mm (48 x 27.5 x 40.6 in.) | 1219 x 698 x 1031 mm (48 x 27.5 x 40.6 in.) |
| Enclosure class | CSA, CE, CCC | CSA, CE, CCC | CSA, CE, CCC | CSA, CE, CCC |

| Cutting Specifications | 100i | 200i | 300i | 400i | |
|-------------------------------|-----------------|-------------------|-------------------|-------------------|--|
| Mild Steel | | | | | |
| Recommended cut | 12 mm (1/2 in.) | 25 mm (1 in.) | 40 mm (1 1/2 in.) | 50 mm (2 in.) | |
| Maximum cut | 15 mm (5/8 in.) | 40 mm (1 1/2 in.) | 45 mm (1 3/4 in.) | 50 mm (2 in.) | |
| Maximum edge start | 20 mm (3/4 in.) | 65 mm (2 1/2 in.) | 75 mm (3 in.) | 90 mm (3 1/2 in.) | |
| Stainless Steel | Stainless Steel | | | | |
| Recommended cut | 12 mm (1/2 in.) | 25 mm (1 in.) | 25 mm (1 in.) | 50 mm (2 in.) | |
| Maximum cut | 15 mm (5/8 in.) | 25 mm (1 in.) | 30 mm (1 1/4 in.) | 50 mm (2 in.) | |
| Maximum edge start | 20 mm (3/4 in.) | 50 mm (2 in.) | 50 mm (2 in.) | 100 mm (4 in.) | |
| Aluminum | | | | | |
| Recommended cut | 12 mm (1/2 in.) | 20 mm (3/4 in.) | 25 mm (1 in.) | 50 mm (2 in.) | |
| Maximum cut | 15 mm (5/8 in.) | 25 mm (1 in.) | 30 mm (1 1/4 in.) | 60 mm (2 1/2 in.) | |
| Maximum edge start | 20 mm (3/4 in.) | 50 mm (2 in.) | 50 mm (2 in.) | 90 mm (3 1/2 in.) | |

| Cutting Speed | | | | |
|-------------------|-----------------------|----------|----------------------------------|--|
| Thickness | Speed | Amps | Plasma/Shield | |
| Mild Steel | | <u> </u> | ' | |
| 3 mm (10 ga.) | 1340 mm/min (50 ipm) | 30 A | O ₂ /O ₂ | |
| 6 mm (1/4 in.) | 2710 mm/min (100 ipm) | 70 A | O ₂ /Air | |
| 6 mm (1/4 in.) | 3940 mm/min (145 ipm) | 100 A | O ₂ /Air | |
| 10 mm (3/8 in.) | 2170 mm/min (90 ipm) | 100 A | O ₂ /Air | |
| 12 mm (1/2 in.) | 1690 mm/min (60 ipm) | 100 A | O ₂ /Air | |
| 20 mm (3/4 in.) | 1590 mm/min (65 ipm) | 200 A | O ₂ /Air | |
| 25 mm (1 in.) | 1250 mm/min (48 ipm) | 200 A | O ₂ /Air | |
| 20 mm (3/4 in.) | 2430 mm/min (100 ipm) | 300 A | O ₂ /Air | |
| 25 mm (1 in.) | 1830 mm/min (70 ipm) | 300 A | O ₂ /Air | |
| 35 mm (1 1/4 in.) | 1080 mm/min (50 ipm) | 300 A | O ₂ /Air | |
| 25 mm (1 in.) | 2100 mm/min (80 ipm) | 400 A | O ₂ /Air | |
| 40 mm (1 1/2 in.) | 1110 mm/min (45 ipm) | 400 A | O ₂ /Air | |
| 50 mm (2 in.) | 790 mm/min (30 ipm) | 400 A | O ₂ /Air | |
| Stainless Steel | | | | |
| 1.5 mm (16 ga.) | 5500 mm/min (205 ipm) | 30 A | N ₂ /H ₂ 0 | |
| 2 mm (14 ga.) | 4310 mm/min (170 ipm) | 50 A | N ₂ /H ₂ 0 | |
| 4 mm (3/16 in.) | 2410 mm/min (50 ipm) | 50 A | N ₂ /H ₂ 0 | |
| 6 mm (1/4 in.) | 1490 mm/min (50 ipm) | 70 A | N ₂ /H ₂ 0 | |
| 6 mm (1/4 in.) | 2670 mm/min (95 ipm) | 100 A | N ₂ /H ₂ 0 | |
| 12 mm (1/2 in.) | 1350 mm/min (50 ipm) | 100 A | N ₂ /H ₂ 0 | |
| 20 mm (3/4 in.) | 1190 mm/min (50 ipm) | 200 A | N ₂ /H ₂ 0 | |
| 25 mm (1 in.) | 910 mm/min (35 ipm) | 200 A | N ₂ /H ₂ 0 | |
| 25 mm (1 in.) | 1030 mm/min (40 ipm) | 300 A | N ₂ /H ₂ 0 | |
| 35 mm (1 1/4 in.) | 720 mm/min (30 ipm) | 300 A | N ₂ /H ₂ 0 | |
| 25 mm (1 in.) | 920 mm/min (35 ipm) | 300 A | H35/N ₂ | |
| 10 mm (1 1/2 in.) | 600 mm/min (25 ipm) | 300 A | H35/N ₂ | |
| 20 mm (3/4 in.) | 2286 mm/min (90 ipm) | 400 A | H35/N ₂ | |
| 40 mm (1 1/2 in.) | 760 mm/min (30 ipm) | 400 A | H35/N ₂ | |
| 25 mm (1 in.) | 1170 mm/min (45 ipm) | 400 A | H35/N ₂ | |
| 50 mm (2 in.) | 440 mm/min (17 ipm) | 400 A | H35/N ₂ | |
| 100 mm (4 in.) | 90 mm/min (3.5 ipm) | 400 A | H35/N ₂ | |

| Cutting Speed | | | | | |
|-------------------|-----------------------|-------|----------------------------------|--|--|
| Thickness | Speed | Amps | Plasma/Shield | | |
| Aluminum | | | | | |
| 1.5 mm (16 ga.) | 3210 mm/min (150 ipm) | 30 A | N ₂ /H ₂ 0 | | |
| 6 mm (1/4 in.) | 2060 mm/min (70 ipm) | 70 A | N ₂ /H ₂ 0 | | |
| 10 mm (3/8 in.) | 1660 mm/min (70 ipm) | 100 A | N ₂ /H ₂ 0 | | |
| 12 mm (1/2 in.) | 1180 mm/min (40 ipm) | 100 A | N ₂ /H ₂ 0 | | |
| 20 mm (3/4 in.) | 2170 mm/min (90 ipm) | 200 A | N ₂ /H ₂ 0 | | |
| 25 mm (1 in.) | 1350 mm/min (50 ipm) | 200 A | N ₂ /H ₂ 0 | | |
| 25 mm (1 in.) | 1560 mm/min (60 ipm) | 300 A | N ₂ /H ₂ 0 | | |
| 35 mm (1 1/4 in.) | 760 mm/min (40 ipm) | 300 A | N ₂ /H ₂ 0 | | |
| 25 mm (1 in.) | 2190 mm/min (85 ipm) | 300 A | H35/N ₂ | | |
| 20 mm (3/4 in.) | 2170 mm/min (90 ipm) | 400 A | N ₂ /H ₂ 0 | | |
| 40 mm (1 1/2 in.) | 1280 mm/min (55 ipm) | 400 A | N ₂ /H ₂ 0 | | |
| 25 mm (1 in.) | 2330 mm/min (90 ipm) | 400 A | H35/N ₂ | | |
| 50 mm (2 in.) | 810 mm/min (30 ipm) | 400 A | H35/N ₂ | | |











ISO 9001= ISO 14001 OHSAS 18001