



HYDROCUT™ HDX



The heavy-duty, large gantry CNC waterjet machine delivering highest productivity and lowest cost-per part.

LARGE SCALE PRECISION CUTTING.

Hydrocut HDX offers the precision of waterjet cutting, extended over large scale working areas, achieving higher levels of productivity. When combined with plasma cutting technology, the Hydrocut HDX delivers the most cost effective precision cutting system, ideal for large fabricators and steel service centers. The waterjet/plasma combination enables high precision cutting of waterjet where needed, while using the productivity of plasma where possible, to dramatically lower the cost-per-part for typical steel fabrication cuts.



Strength of Design

Based on the Suprarex gantry design, the Hydrocut HDX features the quality craftsmanship, reliability, and durability you expect from ESAB.

Enhanced Productivity

ESAB's advanced, easy-to-use automation technology and flexible process tools help increase output for any cutting application.

Precision Performance

Produce premium-quality waterjet cut parts thanks to Hydrocut HDX's high speeds, excellent accuracy, and smooth motion.

Maximum Flexibility

Hydrocut HDX can be equipped with multiple waterjet cutting heads, plasma or oxy-fuel cutting torches, even marking and labelling tools.



WATERJET PRECISION

Waterjet is the precision process for finished cuts and fine contours.

- The Hydrocut HDX delivers the high precision of waterjet to the heavy fabrication and steel service industries.
- The advantages of a non-thermal process and the precision of abrasive waterjet let operators produce perfect finished parts that require no secondary cleanup or machining.
- Waterjet produces perfect holes of any size, and has the flexibility to cut almost any material or thickness.
- Intelligent technology is applied through ESAB's Vision CNC, which precisely controls all aspects of the waterjet process. Process setup is fast and easy with the built-in process database. Cutting parameters for new materials are setup quickly with the process data generator.
- Abrasive flow rate is controlled precisely through the CNC, and setup is automated by the built-in process database.
- The cutting process is fully automated with ESAB's automatic height control. Multiple operating modes optimize the height sensing for various types of materials.



Automatic Height Control



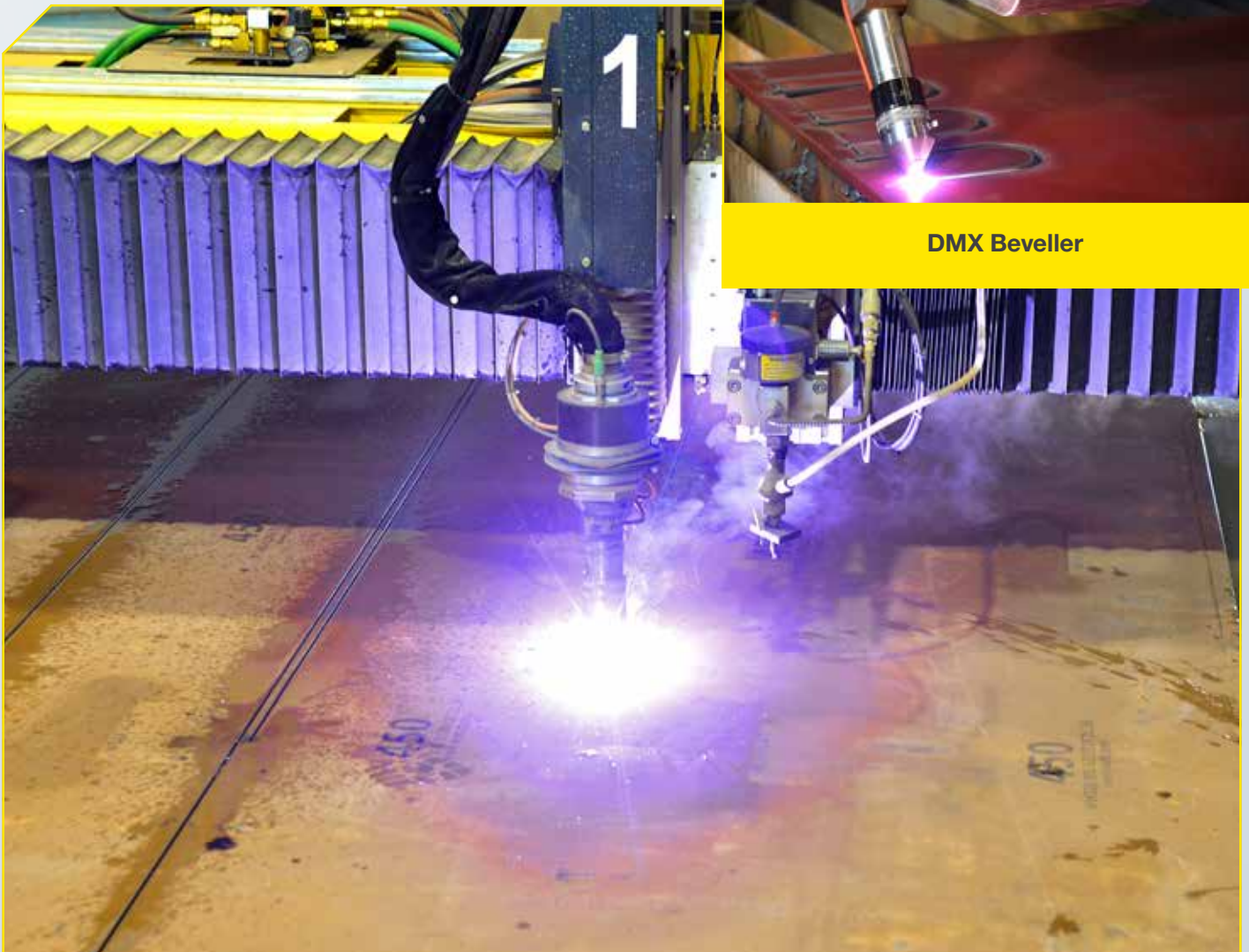
PLASMA PRODUCTIVITY

The perfect complement to waterjet, plasma increases production and lowers cost. By combining these two complimentary processes on one machine, productivity is enhanced and part costs are reduced. Plasma offers the high-speed and low cost cutting that waterjet lacks, and the two processes can be used together on the same part as required.

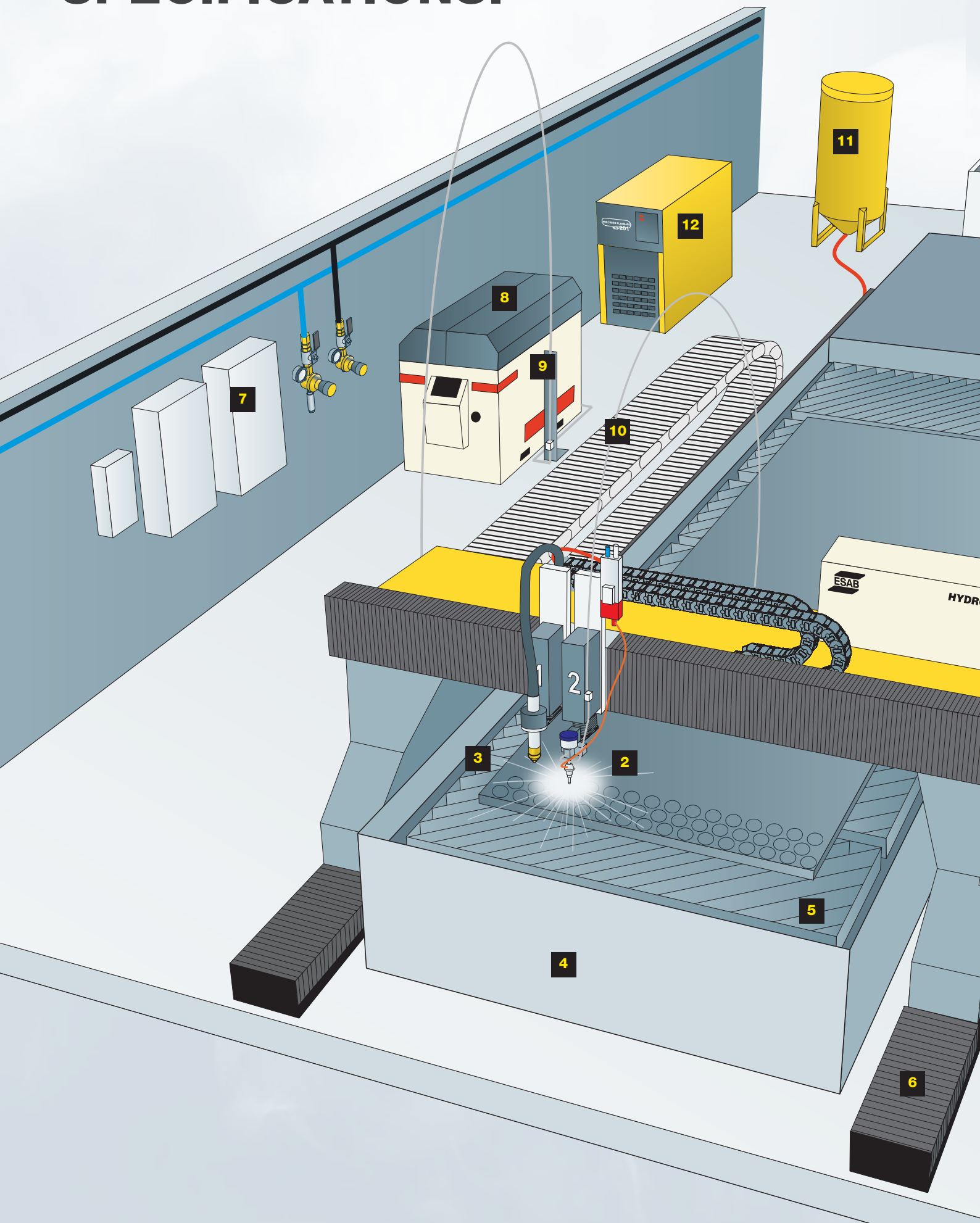
- Typical fabrication parts require high precision in some contours, but are suitable for plasma cutting on larger contours. By using plasma where possible, the cost to cut a part can be cut in half!
- The Hydrocut HDX can be equipped with up to four waterjet cutting heads, plus up to two plasma stations. It can also be equipped with various marking tools for high-speed text or line marking.
- The Hydrocut HDX can also be equipped with the DMX Plasma Beveller, the most advance, accurate, and reliable plasma bevel head in the world.

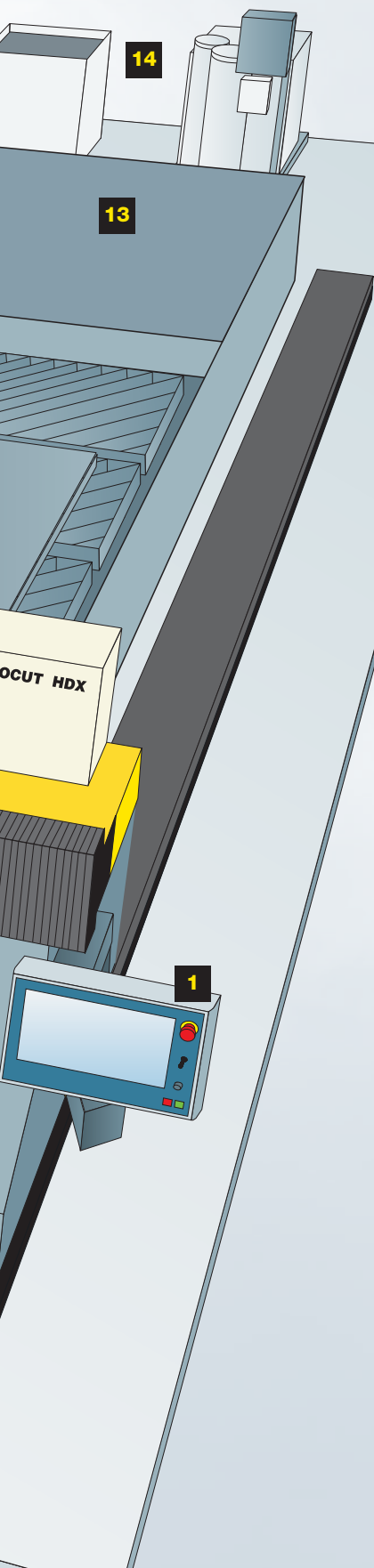


DMX Beveller



SPECIFICATIONS.





HYDROCUT HDX

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|----------------------------|--|
| Cutting width | Approx. 8 - 18 ft. (2,400 - 5,500 mm) |
| Cutting length | Up to 50 ft. (15 m) |
| Cutting Processes | Waterjet, Plasma, Oxy-Fuel, Marking & Labelling |
| | |
| Waterjet Technology | |
| 60 kpsi (4,137 bar) Series | 50 HP to 200 HP intensifier pumps available |
| 90 kpsi (6,200 bar) Series | 60 HP to 125 HP intensifier pumps available |
| Cutting Tool | KMT IDE or AUTOLINE abrasive cutting technology |
| Cutting Capacity | Max. 6 inch (150 mm) |
| Number of tools | Max. 4 waterjet cutting heads |
| | |
| Plasma Technology | |
| Plasma System | ESAB iSeries Precision Plasma, 100 to 400 Amp |
| Cutting Capacity | Max. 2 inch (50 mm), depending on power source and material type |
| Number of Torches | Max. 2 plasma torches |
| | |
| Max. traverse speed | 1000 ipm (25 m/min) |
| Machine length | 96 inches (2.4 m) |
| Machine height | 84 inches (to top of station, does not include whip) |
| Workpiece table height | 30 - 31 inches (760 - 790 mm) |
| Supply voltage | 230/460/575 VAC 50/60 Hz |
| Full load amperage | 30 Amps |

TYPICAL LAYOUT OF THE HYDROCUT HDX

1. Vision® controller
2. Waterjet cutting station
3. Optional plasma cutting station
4. Cutting table
5. Sectional cutting grids
6. Rail system protective covers
7. Power & utility supplies
8. Waterjet intensifier pump
9. Ultra-High Pressure tubing & whip
10. Rail-axis cable chain
11. Bulk abrasive delivery system
12. Optional plasma power source
13. Optional air chamber for water level control
14. Optional water treatment/filtration systems

UNRIVALED SERVICE AND SUPPORT.

Like all ESAB products, the Hydrocut HDX is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with the maintenance and upgrading of your ESAB equipment and software. We offer:

- Value packages, including machine and process audits to maximize your investment
- Proactive preventive maintenance programs and maintenance contracts to keep your equipment and software up and running
- ESAB plasma consumables for the perfect cut
- Specialized repair services
- Retrofit upgrade products and packages for the latest in machine, control, and software technology
- Complete product and process training, including advanced training programs

And, our products are backed with the most comprehensive warranty in the business. With ESAB, you can be confident that the product you purchased will meet your needs today and in the future. Ask your ESAB sales representative or distributor for a complete ESAB solution.

For more information, visit esab-cutting.com



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