



COMBIREX™ DX

High performance

Low investment

MORE FEATURES, MORE EFFICIENCY.
MORE PRODUCTIVITY.





COMBIREX™ DX

Built from the ground up for performance and precision.

Maximum flexibility and precision

The new COMBIREX DX gantry cutting machine is designed to meet the needs of job shops and manufacturers of all sizes. With a modular design concept, ESAB CUTTING SYSTEMS enables every business to be more productive with oxy-fuel and plasma cutting,

whether it is maintenance work or lean production of components.

The COMBIREX DX is your high-performance machine for quality production cutting.

Save time and costs

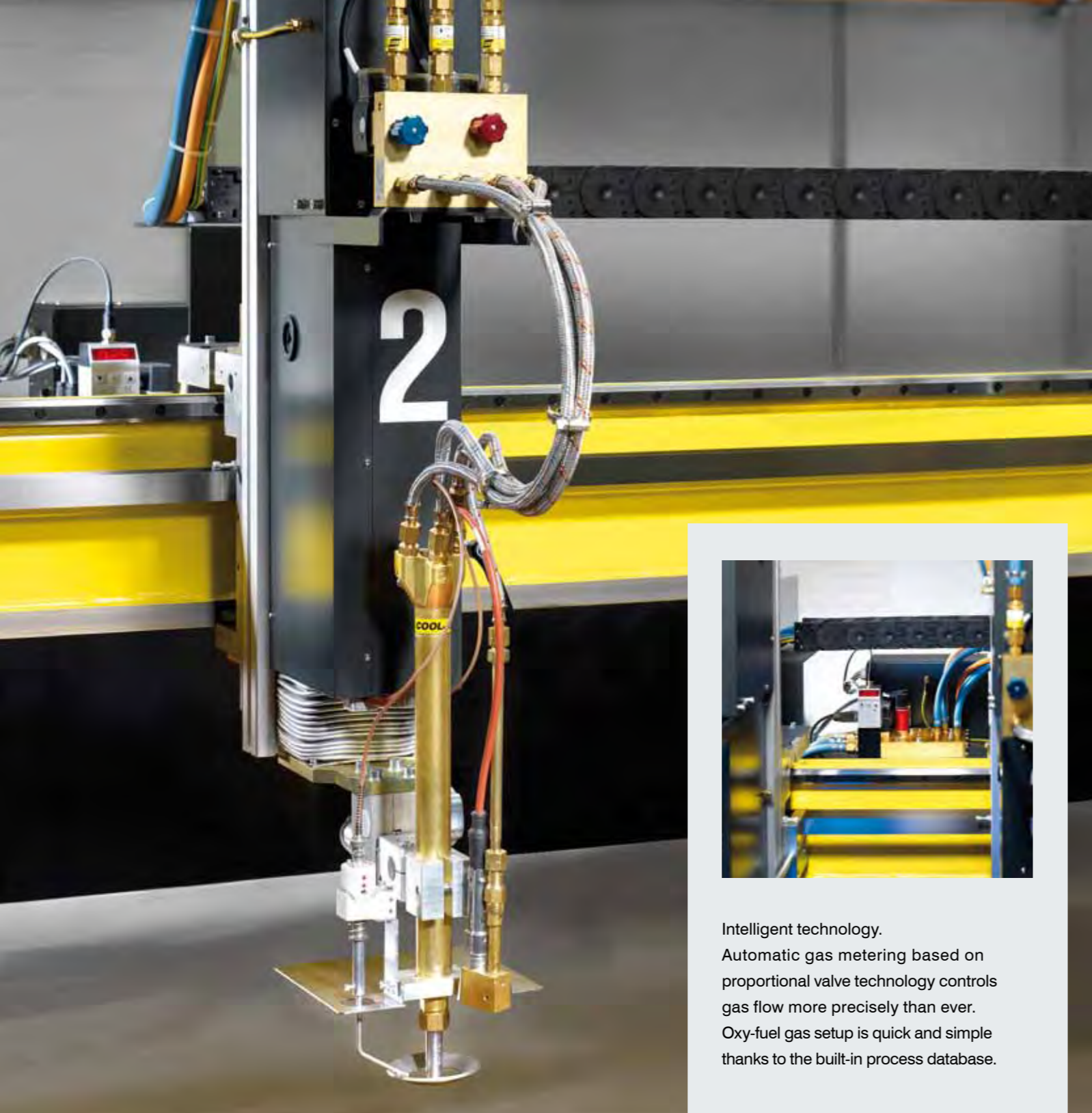
The COMBIREX DX gantry cutting machine sets completely new standards in its class.

As a complete solution with the VISION® CNC and the option of the

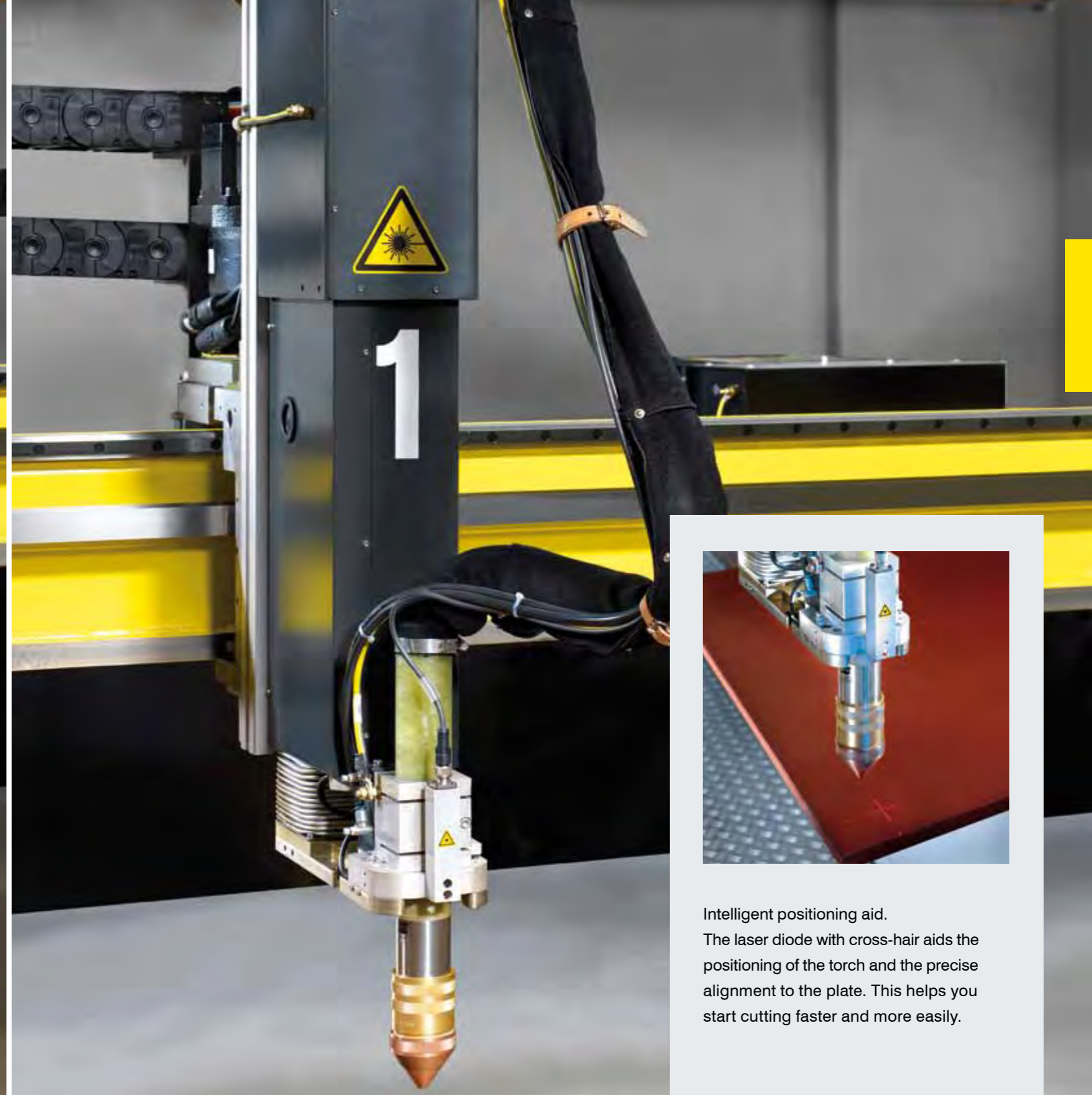
innovative COLUMBUS III™ programming system, the COMBIREX DX offers you the ideal system to solve your most common cutting tasks quickly and economically.

The compact, mid-rail design saves valuable floor space, and accommo-

dates easy loading and unloading. The working length can easily be extended in the future, allowing you to start small and grow with your needs.



Intelligent technology.
Automatic gas metering based on proportional valve technology controls gas flow more precisely than ever. Oxy-fuel gas setup is quick and simple thanks to the built-in process database.



Intelligent positioning aid.
The laser diode with cross-hair aids the positioning of the torch and the precise alignment to the plate. This helps you start cutting faster and more easily.

COMBIREX™ DX

Oxy-fuel cutting

More economical and precise than ever

The COMBIREX DX cuts material thicknesses up to 200 mm thick with oxy fuel. The maximum cutting width with one torch is 3.500 mm.

Up to four torches can be installed on a machine configured strictly for oxy-fuel cutting. Gas cutting opera-

tions are fully automated thanks to automatic torch igniters, torch height control, and proportional valve gas controls.

m³ Plasma™ cutting

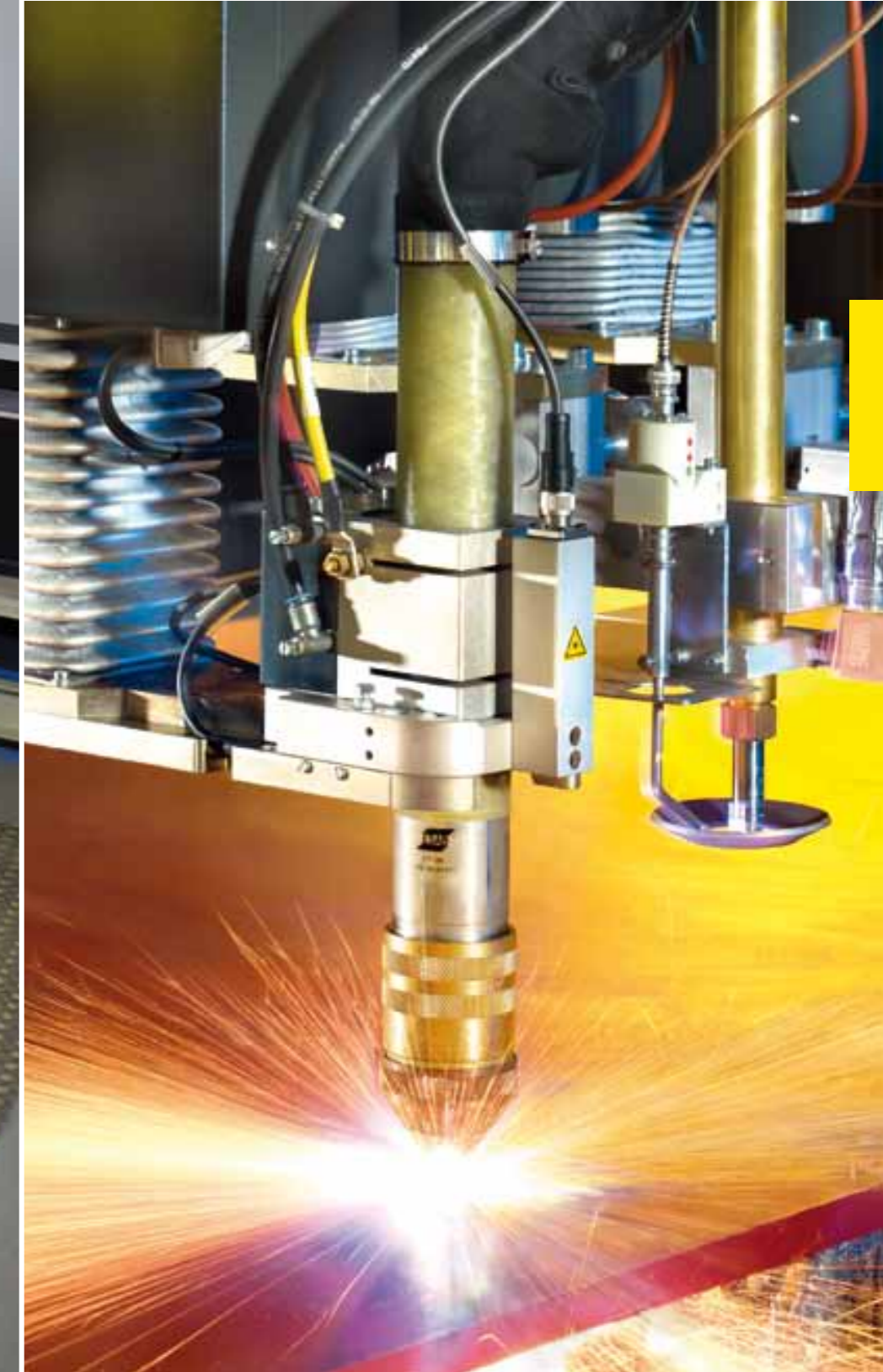
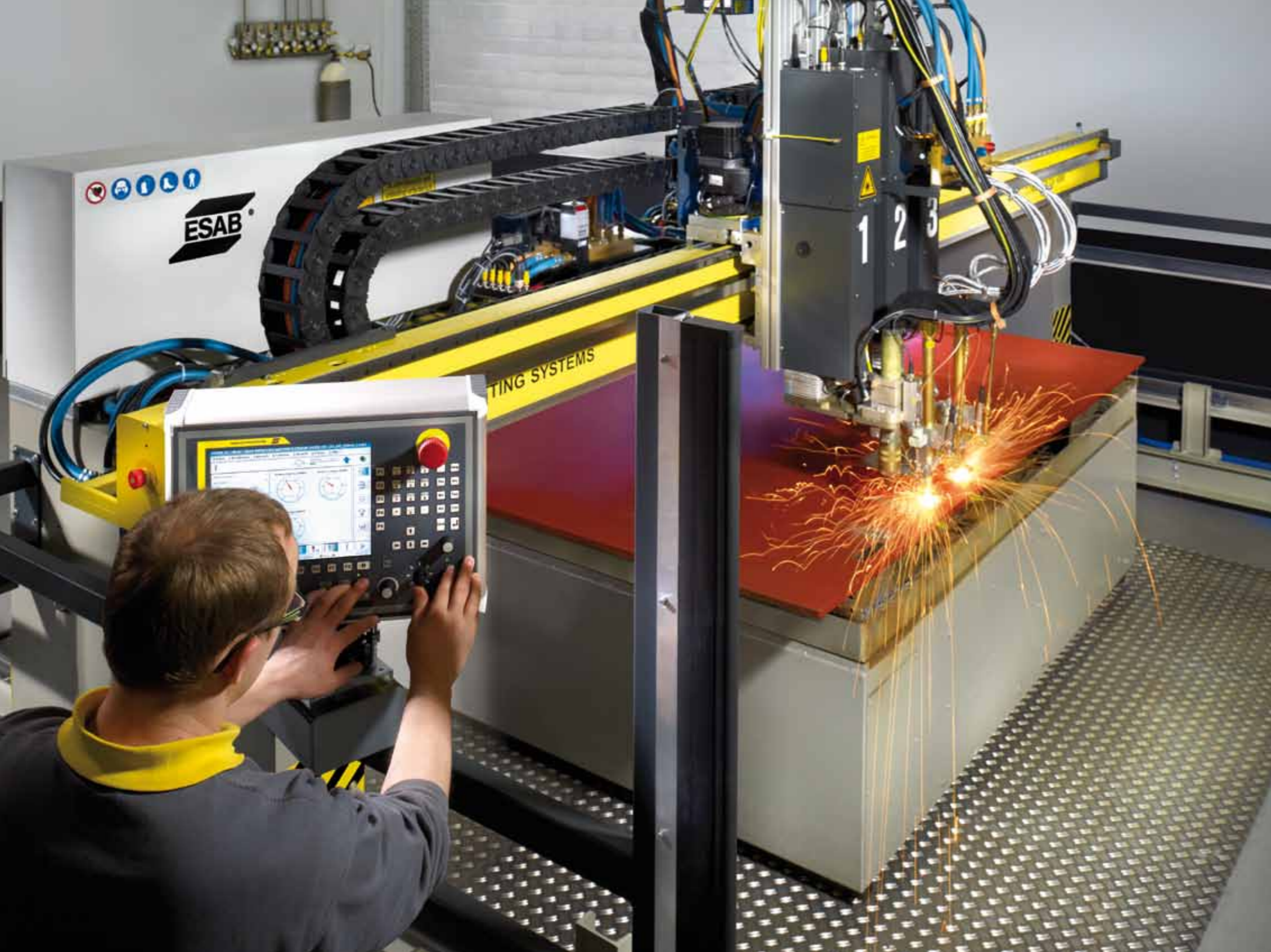
Just one system for all plasma cutting and marking tasks

With just one torch you can exploit the full range of m³ plasma cutting performance.

Dry or on a water table – both options are available. The automatic gas control allows effortless switching between plasma marking and cut-

ting. Choose your Plasma system according to your needs and upgrade it later.

For stainless steel and aluminum, water injection plasma ensures the highest possible cut quality with minimum cost.



Complete cutting performance

With plasma, oxy fuel, or a combination of both.

Configurable to meet your individual cutting needs

The COMBIREX DX can be equipped with plasma, or up to four oxy-fuel torches, or a combination of one plasma and up to three oxy-fuel torches.

Upgrades are easy due to the modular design, allowing the machine to

be perfectly matched to your individual requirements.

Wide range of applications: from sheet metal to 200 mm thick

The COMBIREX DX handles a wide array of cutting applications.

The gantry is available in sizes to cover plate widths from 2.000 to 3.500 mm wide. With ESAB's m³ plasma™ system, it can produce precision plasma cuts on sheet metal up to

60 mm thick plate. With oxy-fuel torches, it can slice through mild steel plate up to 200 mm thick.



COMBIREX™ DX

Sturdy, accurate, with quality you can count on.

Versatility across the range.

The design and construction of the new COMBIREX DX meets ESAB CUTTING SYSTEMS' renowned high quality standards. The ability to carry up to four torch carriages offers you great flexibility and versatility.

The dual-side drive gantry features precision rack & pinion and heavy-duty gearboxes to allow high positioning speeds of up to 24m/min. and with a linear guiding system and powerful digital AC drives, the machine achieves high dynamic accuracy over the entire cutting area.

Heavy-duty welded structures and precision machined surfaces ensure all machine components work smoothly together. The simple construction and uncompromising workmanship reduce maintenance and guarantee a long service life.

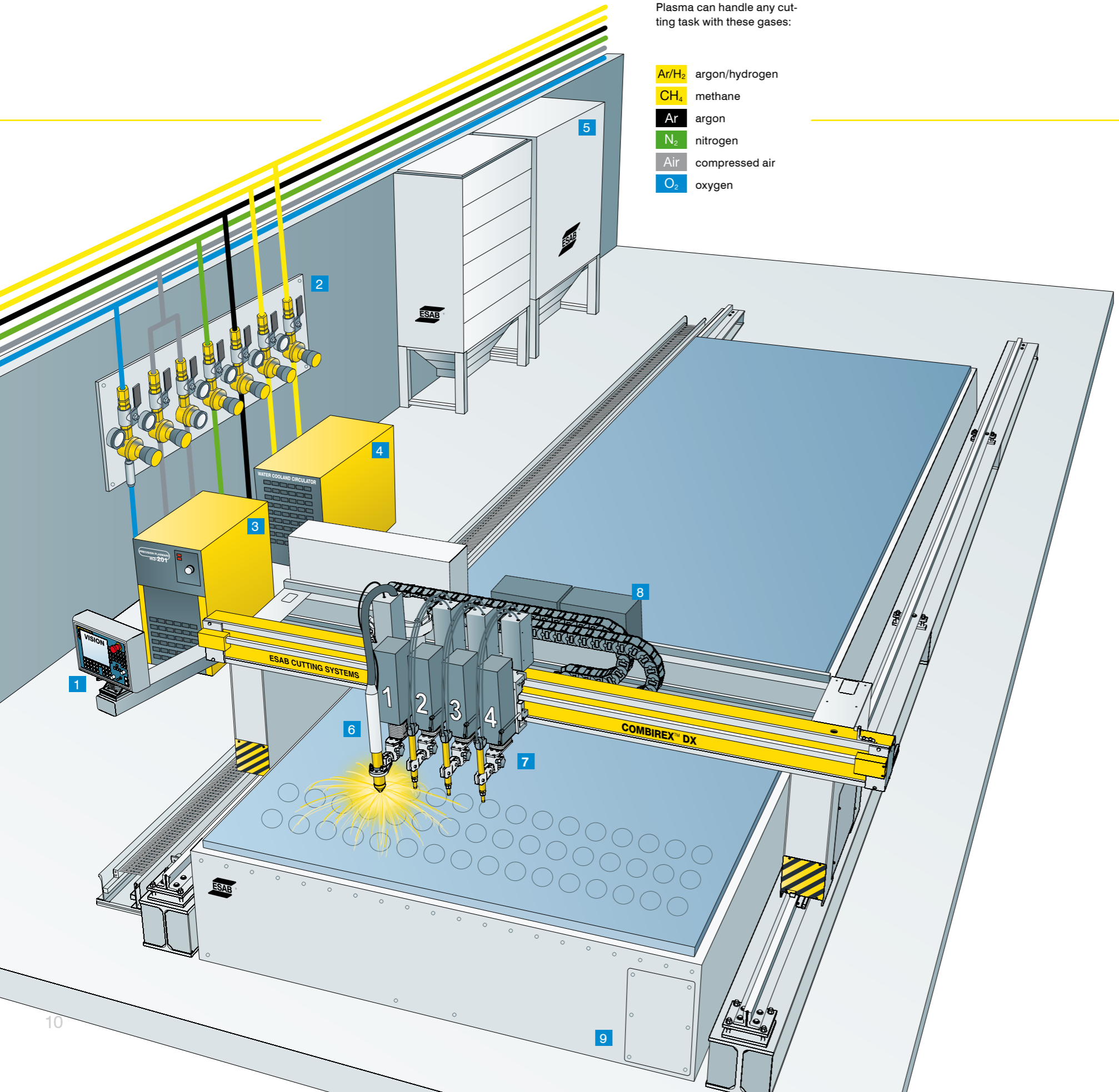
Maximum safety.

Your safety is our benchmark. Continuously optimising all safety-related aspects of our products has always been important to us. That is why our cutting machines feature a variety of innovative and constantly enhanced safety features such as the on-board light barrier. The on-board light bar-

rier offers effective protection for the operating personnel and, thanks to the smart design, has no adverse effect on the use of the machine.

Data and facts.

The components of your success.



Plasma can handle any cutting task with these gases:

- Ar/H₂ argon/hydrogen
- CH₄ methane
- Ar argon
- N₂ nitrogen
- Air compressed air
- O₂ oxygen

Technical data

COMBIREX™ DX	2500	3000	3500	4000
Track width in mm	2.500	3.000	3.500	4.000
Recommended Plate Width ¹	2.000	2.500	3.000	3.500
Machine width in mm	3.925	4.425	4.925	5.425
Cutting length ²	max. 18.000 mm			
Cutting processes	plasma, oxy-fuel			
m³ Plasma technology³				
Cutting thickness	max. 60 mm (depending on plasma system)			
Number of torches	1 plasma torch			
Oxy-fuel technology⁴				
Cutting thickness	max. 200 mm edge starting			
Hole piercing	max. 150 mm (with one oxy-fuel torch)			
Number of torches	1 – 4 oxy-fuel torches			
Fuel gases	acetylene, propane, natural gas, mixed fuel gases			
Max. traverse speed	24.000 mm/min			
Machine length	1.670 mm			
Machine height	1.935 mm (incl. track height of 465 mm)			
Workpiece table height	700 mm			
Supply voltage	230 VAC 50/60Hz			
Full load amperage	10 Amps			

Typical COMBIREX™ DX system layout

- 1 VISION™ T5 controller
- 2 Gas & utility supplies
- 3 Plasma power source
- 4 Water cooler
- 5 Dust collector with blower
- 6 1 plasma torch
- 7 3 oxy-fuel torches
- 8 Plasma control
- 9 Suction table

Note

Depending on the plasma unit, the system can cut and mark in automatic mode.

Example of torch use:

- max. 1 plasma torch / 3 oxy-fuel torches
- max. 0 plasma torches / 4 oxy-fuel torches

¹ for 1 torch with oxy fuel or plasma

² At a track length of max. 20 m

³ Maximum of 1 plasma torch

⁴ Number of oxy-fuel torches depends on the use of a plasma torch. If no plasma torch is installed, up to 4 oxy-fuel torches can be used.

Subject to technical modifications and enhancements. Products may vary from those pictured.

ESAB CUTTING SYSTEMS

Productivity – Service – Reliability



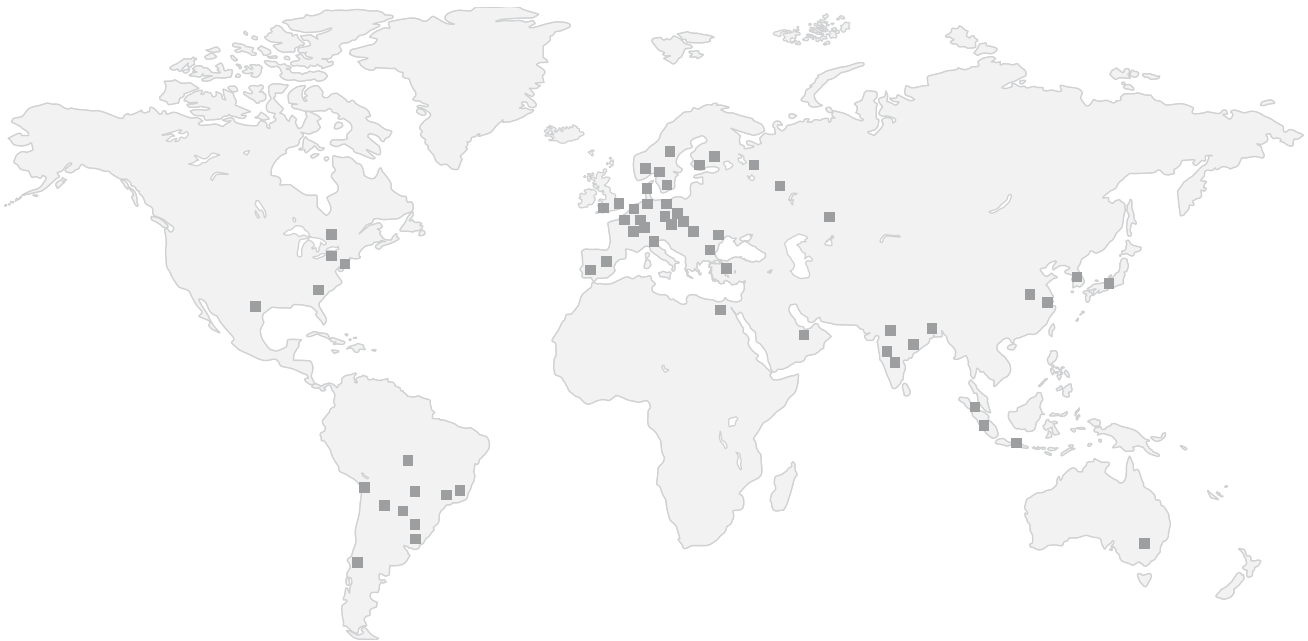
When you buy ESAB, you get more than just a machine. You get an experienced and dedicated partner supporting you throughout the life of your machine.

We are committed to exceeding your expectations of after-sales service and support, to providing an efficient supply chain for spares,

wear and consumables; and to offering a comprehensive range of services and products to ensure your continuing success.

Quality products, innovative technology and dedicated customer service... these are the hallmarks of your partnership with ESAB.

ESAB sales and service offices worldwide



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