



COMBIREX™ DX

High performance

Low cost

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 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™ 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 accommodates 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 8 inches thick with

oxy fuel. The maximum cutting width with one torch is 10 feet.

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

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

Plasma cutting

Just one system for all cutting and marking tasks

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

performance. Dry or on a water table – both options are available. The automatic gas control allows effortless switching between plasma marking and cutting. Choose your current source 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 8 inches thick

The COMBIREX handles a wide array of cutting applications. The gantry is available in sizes to cover plate widths from 5 to 10 feet wide. With ESAB's m³ plasma™ system, it can produce precision plasma cuts on sheet metal

up to 2.5 inch thick plate. With oxy-fuel torches, it can slice through mild steel plate up to 8 inches 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 1,000 inch/min. And with a linear guiding system and powerful digital AC drives, the machine

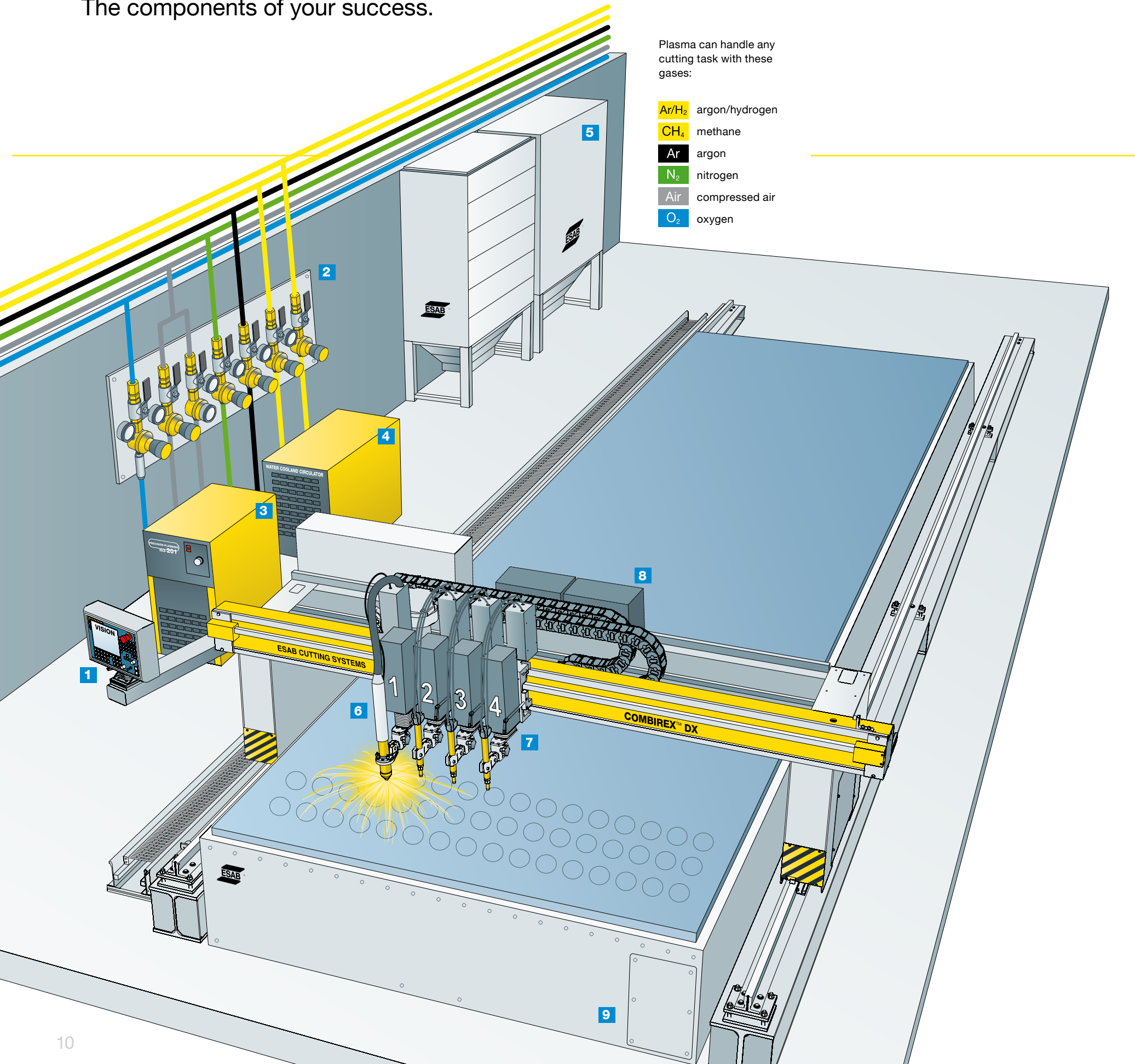
achieves high dynamic accuracy over the entire cutting area.

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.

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

Gantry Size	2500 3000 3500 4000
Track width in inches	98.4 118.1 137.8 157.5
Recommended Plate Width ¹	5 ft. 6 ft. 8 ft. 10 ft.
Machine width in inches	154.5 174.2 193.9 213.6
Cutting length ²	max. 59 ft. (18 m)
Cutting processes	plasma, oxy-fuel
Plasma technology³	
Cutting thickness	max. 2.5 inch (depending on plasma unit power)
Number of torches	1 plasma torch
Oxy-fuel technology⁴	
Cutting thickness	max. 8 inch edge starting
Hole piercing	max. 6 inch (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	1,000 inch/min
Machine length	66 inches
Machine height	76 inches (incl. track height of 18.5 inches)
Workpiece table height	27 inches
Supply voltage	230 VAC 50/60Hz
Full load amperage	10 Amps

Typical COMBIREX™ DX system layout

- 1** VISION™ 51 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 (65.6')

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



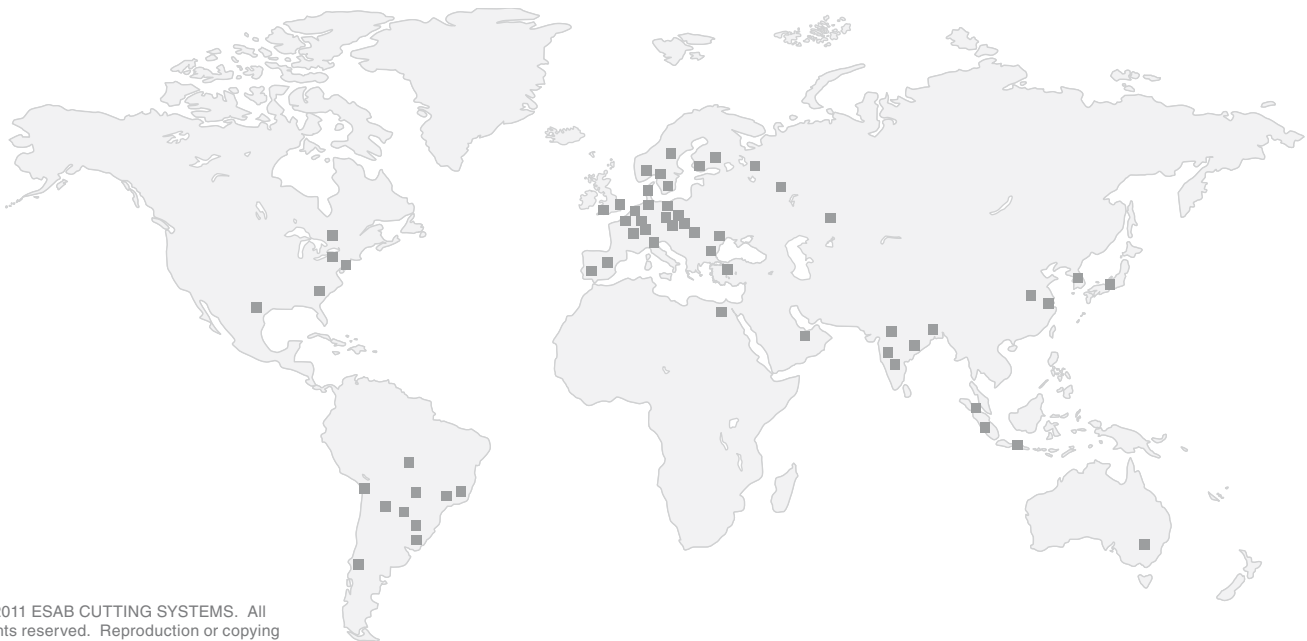
When you buy ESAB, you get more than just a machine. You get an experienced and dedicated partner supporting you throughout the life of your machine.

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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ESAB Cutting Systems

U.S.A.
411 S. Ebenezer Rd.
Florence, SC 29501
Phone: 843-664-4394

Canada
6010 Tomken Road
Mississauga, Ontario L5T 1X9
Phone: 905-670-0220

Mexico
AVE. Diego Diaz de Berlanga No. 130
Col. Nogalar
San Nicolas de los Garza, N.L. 66480
Monterrey, Mexico
Phone: 81-8305-3700

Web: www.esabcutting.com
E-Mail: us.mgr.cutting@esab.com