

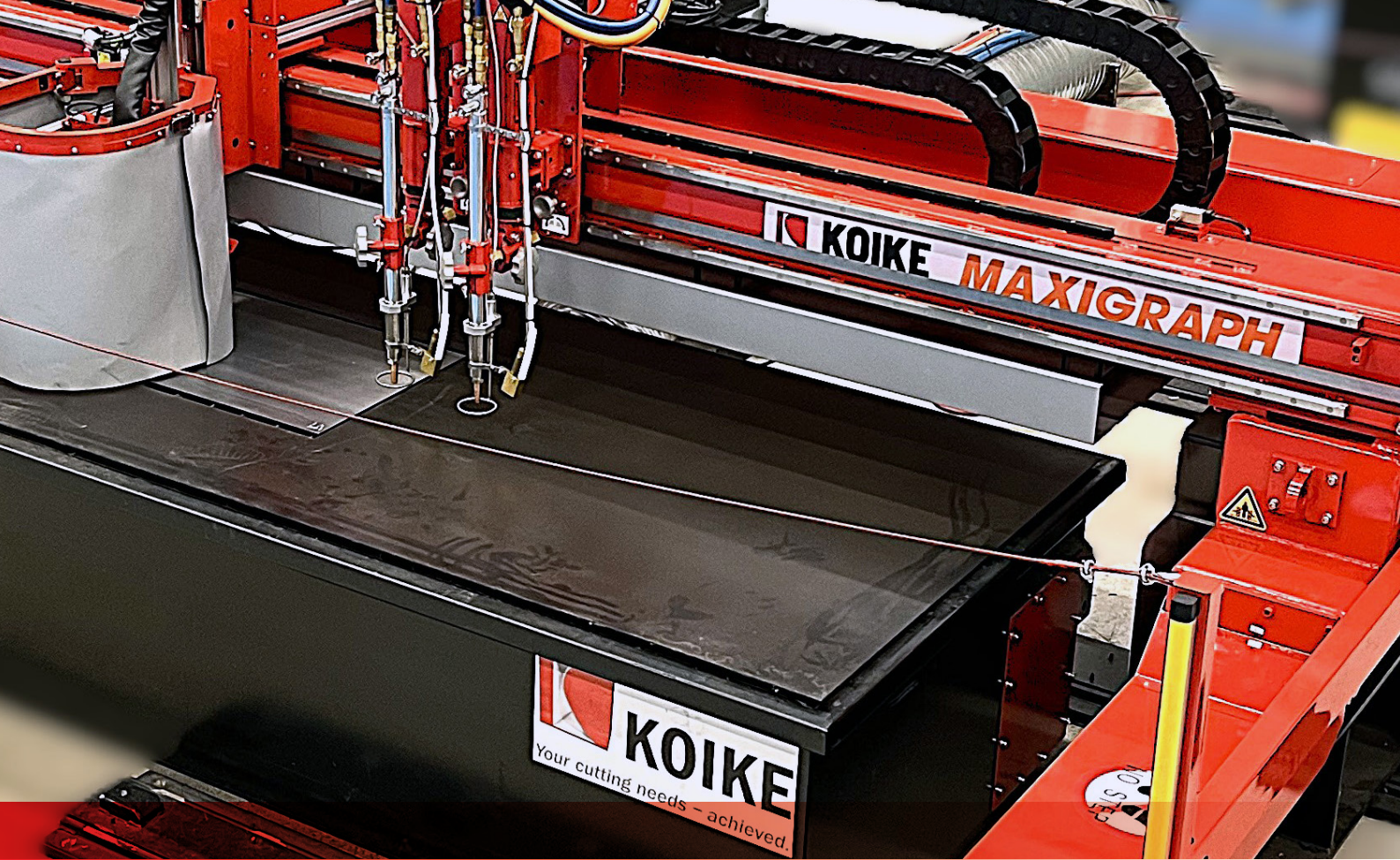
MAXIGRAPH-DX

Plasma & oxyfuel cutting machine



KOIKE

Your cutting needs – achieved.



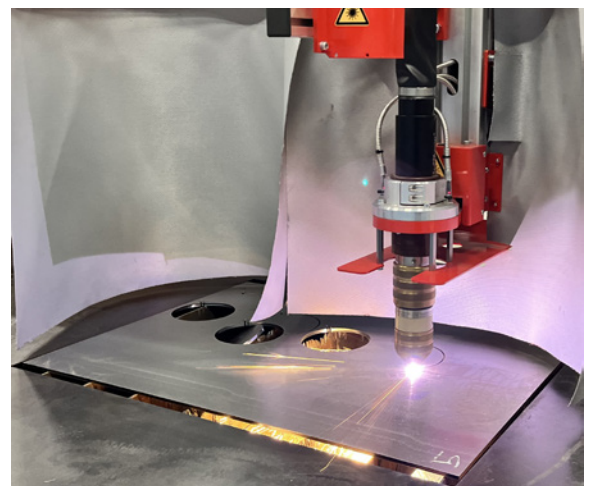
MAXIGRAPH-DX

Precision cutting solutions

The MAXIGRAPH-DX is designed for demanding cutting applications, featuring a robust gantry structure with dual side drives for smooth and responsive operation.

The MAXIGRAPH-DX incorporates rack and pinion backlash-free drives on both X and Y axes, ensuring precise and repeatable motion. Its advanced gantry system includes precision-machined steel rails for smooth and accurate operation, a stable longitudinal drive mechanism for consistent performance, an expandable carriage system for up to five carriages on a slag-resistant steel band, and a rapid action coupling for efficient manual positioning of tool carriages.

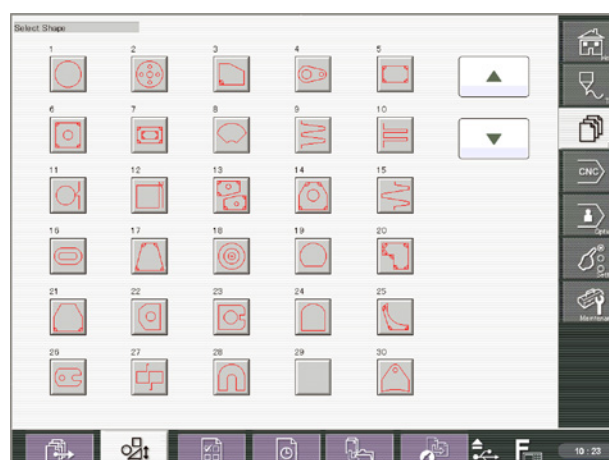
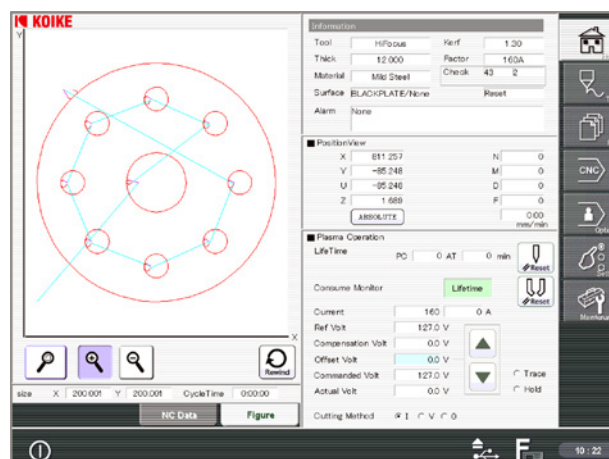
The ultimate in rugged reliability and versatility, available width from 3,500mm to 6,000mm and rail lengths up to 30,000mm, the MAXIGRAPH-DX can accommodate various plate sizes. The gantry portal design ensures high stiffness across the machine width, while low-profile rails facilitate easy loading and unloading.



The MAXIGRAPH-DX offers exceptional cutting capabilities with support for up to six oxyfuel cutting torches. Each torch incorporates a reliable automatic ignition device and capacitive height control for precise cutting. Furthermore, the MAXIGRAPH-DX enhances cutting versatility with various plasma cutting systems, suitable for both mild steel and stainless-steel cutting.

Features

- Proven performance**
 Reliable in high-demand production environments.
- User-friendly and durable**
 Easy to use with very low maintenance, ensuring a long lifetime for the solid and rugged machine.
- Versatile cutting capabilities**
 Handles a wide range of cutting thicknesses with both oxyfuel and plasma cutting tools.
- High-speed precision**
 High-speed and high-precision plasma cutting up to 400 amps, suitable for nearly all cutting requirements.
- Reliable and comfortable control**
 FANUC Oi with user friendly touch panel control.



FANUC Oi control



Reliable and comfortable control

Centralized control station with control and operating functions all in a single location, very convenient for the operator.

The FANUC Series Oi was engineered to meet the highest standards of reliability, performance, connectivity and safety. This cutting-edge series control boasts over 200 premium features in its standard configuration, ensuring unparalleled value. Optimized performance, precision, and surface finish in a state-of-the-art hardware and innovative software. Seamlessly integrate with manufacturing and business systems using a wide array of industry-standard protocols, all designed for cost-effective and flexible implementation.

1 HI-LO pre-heat control unit



HI-LO Pre-heat Control significantly reduces the time required to preheat the plate before piercing. Additionally, it allows for easy and precise setting of pre-heat flames, ensuring optimal performance.

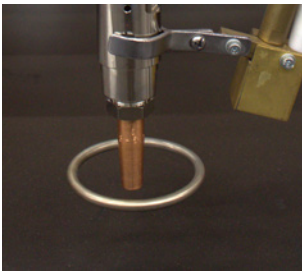
2 Oxyfuel torch stations



Oxyfuel cutting station equipped with the KOIKE 500L cutting torch. Multi torch capability, being possible to install up to 6 oxyfuel cutting torches (up to 5 torches in case of plasma cutting combined), with all stations being controlled from the operator console.

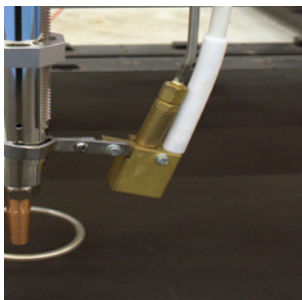
Capacitive Height Sensor, Up/Down control at the torch block, automatic ignition, available as standard.

3 Capacitive height sensor



Ensure impeccable cutting quality with our electrostatic capacitive height adjustment system. This advanced technology maintains a constant distance between the tip and the plate during cutting, guaranteeing precision and consistency. Easily mountable, this system is essential for achieving superior results in every cut.

4 Automatic ignition



For seamless CNC operation, automatic ignition is highly recommended. This feature ensures effortless and reliable machine start-up, enhancing efficiency and productivity for seamless operations.

5 Plasma torch stations



Plasma cutting station prepared for high-speed, high-accuracy, multi-purpose cutting systems. Torch holder is made of two parts connected by magnets and disjoints when excess physical force is given to the torch, protecting it from being damaged.

Plasma curtain improves safety during the cutting process, and the torch cable-bear mounted on the torch station, ensures all hoses and cables related to the plasma torch remain organized during machine movements.

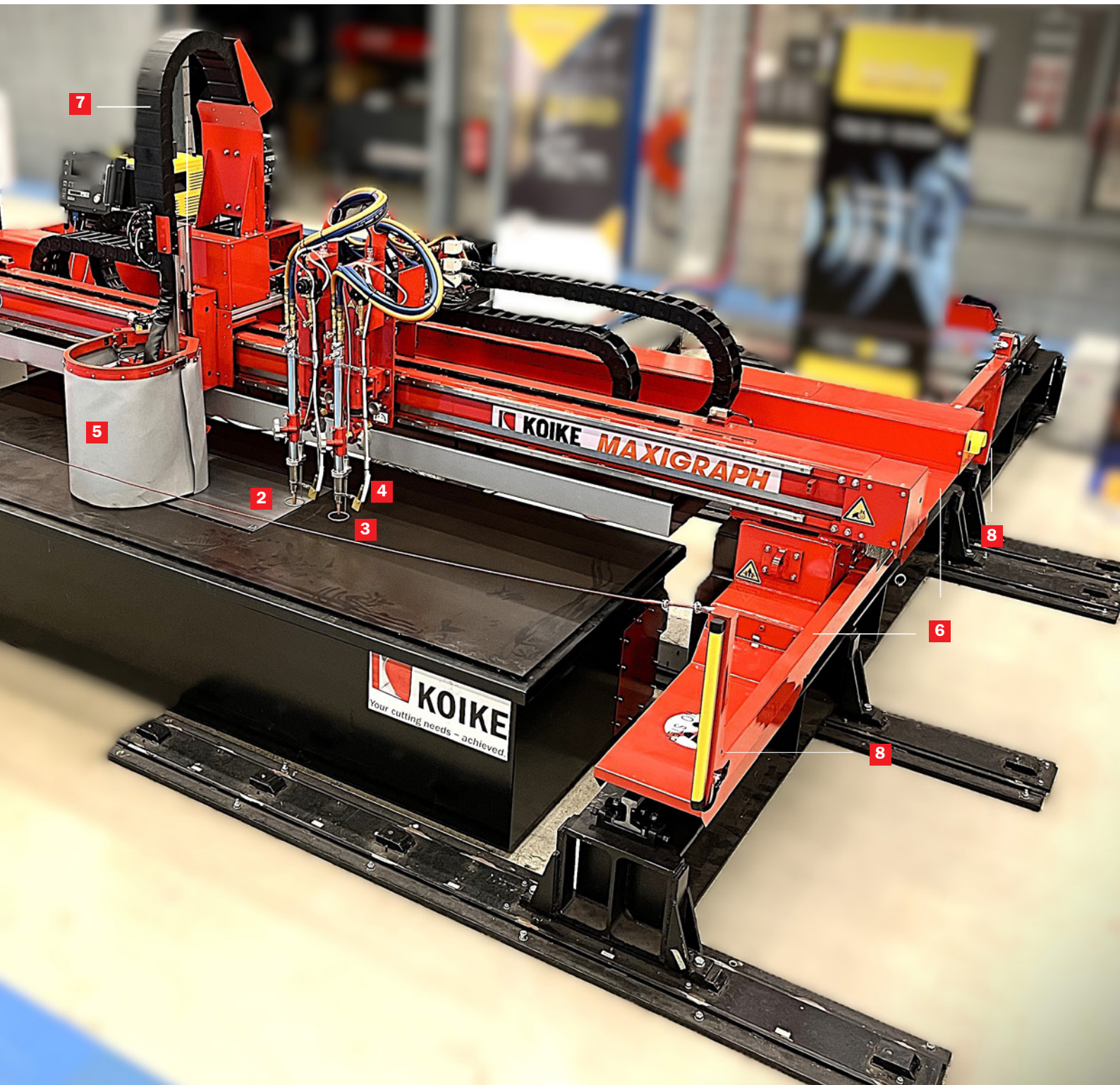


6 FANUC drives/motors

MAXIGRAPH best output is ensured by FANUC's integrated drive and motor package, which provides simple maintenance, high-quality, and exceptional performance.

7 Torch cable bear

Mounted on the torch block, ensures all hoses and cables related to the torch remain organized during machine movements.



8 Safety features



Equipped with emergency tape switch at 4 corners of the machine, 2 emergency stop switches (on operation panel, and at machine side), and invasion alarm system by rope switch at the front and the rear side of the machine.



PLASMA SYSTEMS

KOIKE offers a comprehensive range of plasma systems from **KJELLBERG (Germany)** and **HYPERTHERM (USA)**. Each system's specific cutting tables are seamlessly integrated into the **KOIKE FANUC CNC control**, ensuring efficient, quick operations and optimal cutting quality. Additionally, **KOIKE cutting machines** can perform marking tasks when equipped with an automatic gas control.



KJELLBERG HIFOCUS SERIES

The plasma cutting systems of the HiFocus neo series meet the highest demands in the cutting range between 0.5 and 160 mm. Due to the constriction of the plasma arc by means of a heavily rotating swirl gas, it is possible to achieve excellent cuts with nearly dross-free and rectangular cut surfaces. Users benefit from diverse possible applications as well as low process costs due to high cutting and marking speeds.



KJELLBERG K 200

The power source cuts with oxygen, air and nitrogen and provides a marking function. Integrated automatic gas control and direct torch connection simplify installation and maintenance of the system. Important data and parameters, as well as cutting data sets in the material thickness range from 1 - 60 mm can be intuitively accessed, selected and adjusted up to a maximum of 200 A.



HYPERTHERM MAXPRO 200

Dubbed the industry workhorse because of its power and 100% duty cycle, the MAXPRO200® plasma cutter is designed for your heavy-duty, high-capacity automated and handheld cutting and gouging applications.



HYPERTHERM XPR-SERIES

The XPR advances HyDefinition® cut quality by blending new technology with refined processes for next generation, X-Definition™ cutting on mild steel, stainless steel and aluminum.

Options

■ Line marking unit

For precise line marking on steel plates, whether for welding or bending, the powder marking unit is your ideal choice. This innovative tool ensures clear, accurate markings, enhancing your workflow and precision. Elevate your operations with the reliability and efficiency of our powder marking unit.

■ Water spray

For optimal results when cutting thin plates, we highly recommend using a water spray. This not only enhances the cutting process but also significantly reduces dust occurred during the cutting process.

■ Scrap torch

This handheld torch allows operators to cut remnants left on the table after part processing.

■ Cutting tables and dust filters

A downdraft table with plug & play filtration system is offered as standard. Additionally, KOIKE also offers the possibility to equip the cutting machines with different types of dust filters and cutting tables according to customer requirements. For all cutting processes there is a suitable type and combination of cutting table and dust filter. Cutting tables can also being customized with cleaning systems, vibrating conveyors, etc.

■ Downdraft table

The downdraft table is especially suitable for plasma and oxyfuel cutting machines. The downdraft table is equipped with larger tanks and closer sectors allowing an even more concentrated suction.

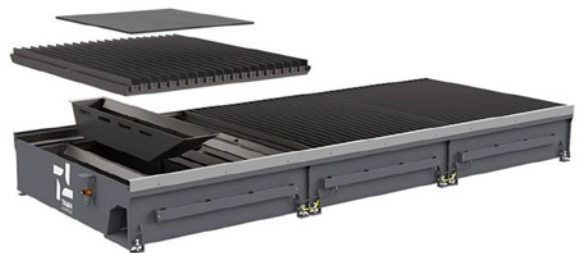
■ Horizontal cartridge filter

The horizontal cartridge filter is a plug & play filtration system, with electrical panel, economizer and fan as standard.

The filter inlet consists of a pre-removal chamber which, thanks to the presence of the metal pre-filter, prevents incandescent particles from reaching the filter elements.



*Dust filter**



*Cutting table**

* Pictures shown are for reference only.
Other brands available.

MAXIGRAPH-DX Main Specification

Machine Structure	Gantry style, Dual side drive
Control Panel	Left side (Right side optional)
Drive System	FANUC Drive System
Rail Span	3.500 / 4.000 / 4.500 / 5.000 / 5.500 / 6.000
Effective Cutting Width	2.600 / 3.100 / 3.600 / 4.100 / 4.600 / 5.100
Effective Cutting Length	Rail length -1.750mm
Rail	Precision machined rail. Increments of 3.000mm
Torch Support	Steel band quick clamping device
Max. Cutting Speed	6.000mm/min
Marking Speed	9.000mm/min
Rapid Traverse Speed	15.000mm/min
CNC Unit	FANUC Oi Series
Number of Tools	6 Torches
Minimum Torch Distance	125mm
Preheat Gas Control	HI-LO preheat gas control system
Available Plasma Power Sources	Kjellberg HiFocus Series / Hypertherm XPR Series

Service en Aftersales

Installation and training of the Maxigraph-DX and the software is part of our services but it does not end after that. Our service engineers will be available to remotely assist you in case of questions.

Consumables and replacement parts are mostly available from stock in Zaandam (Netherlands).



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