



# KOIKE

*Your cutting needs – achieved.*



**Versagraph**

# Versagraph

## Modular, flexible and fast

As regards the compliance with client-specific requirements as well as highest productivity and versatility, the Versagraph is the perfect cutting system for high production capacities. The range of combinations, both in respect of the machine gantry and the tools makes Versagraph a safe investment for the future.

The modular concept of the solid, heavy-duty gantry system allows for optimum adaptation to individual needs:

- Cutting with precision plasma or oxy-fuel cutting, even in combination
- Machine width: 4,000 mm to 6,000 mm (in steps of 500 mm)
- Cutting width: 3,100 mm to 5,100 mm
- Runway length up to 50,000 mm (in steps of 3,000 mm)
- Positioning speed of up to 56 m/min.
- Up to eight tools
- Advanced CNC technology
- Bevel cutting units for plasma and oxy-fuel cutting may be used

## Intelligent mechanical design

The Versagraph system has consistently been oriented towards a long lifetime and high quality. All components precisely match each other and meet highest requirements with regard to precision and mechanical durability.

The heavy-duty design of the gantry has been rated for stiffness under any load case. Up to eight tools may be attached and positioned on a backlash-free steel tape by means of a quick-action coupling. All supply lines are routed via cable chains – this enhances the lifetime and minimizes maintenance expense.

Maintenance-free, brushless AC motors in combination with a double rack and pinion drive guide the longitudinal and transversal axles smoothly and precisely. They ensure absolute guiding accuracy and exact positioning, as well as high acceleration rates.

The runway rails may be extended to up to 50,000 mm, i.e. the system may also be configured for special production requirements.



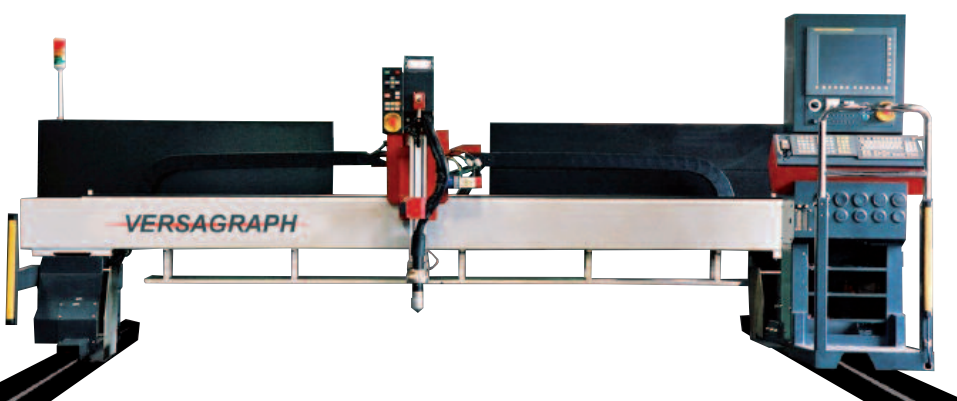
Gantry with cable chain



Rack & pinion drive



Runway rails



## Plasma cutting of highest quality

For cutting non-alloyed steel, aluminum and stainless steel, two plasma cutting systems, KOIKE Super 200 and KOIKE Super 400, are available for material thicknesses of up to 50 mm. Both systems are characterized by rapid control of the cutting current, which ensures high contour dynamics and shorter lead-ins. The hole piercing process is optimized by an adjustable current increase and therefore enhances the lifetime of wear parts by up to 50 %.

Due to arc voltage height control, precise setting of the torch over the entire cutting process is achieved. This ensures cutting precision over the entire cutting length. The torch collision protection and the tactile torch height adjustment device reduce maintenance requirements and adjustment work to a minimum.



*KOIKE Super 400 for up to 50 mm material thickness*



*Cutting example – Versagraph with 3D-LINK*

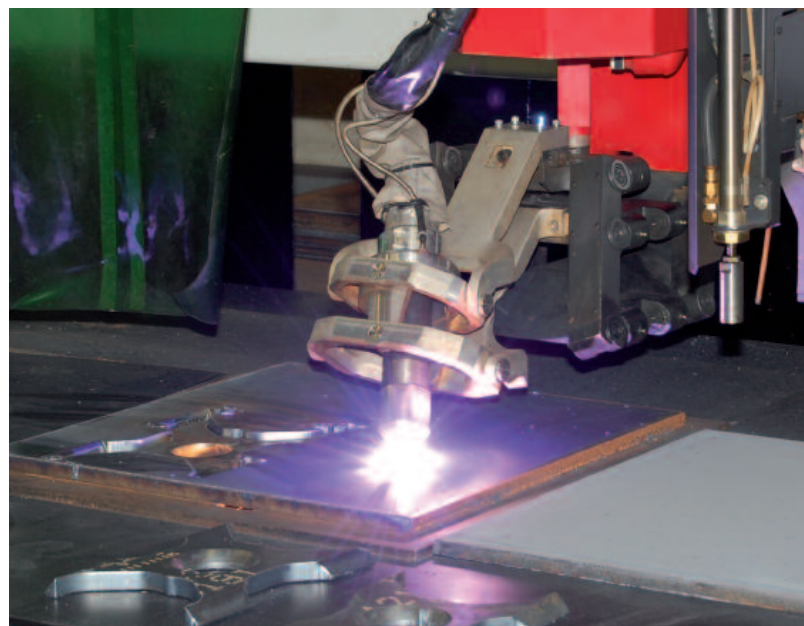
### Versagraph – Technical specifications

Model	Versagraph
Y-axis drive system	Dual-side rack & pinion
X-axis drive system	Linear guide
Effective cutting width	3,100 to 5,100 mm
Gantry span	4,000 to 6,000 mm
Rapid speed	Std.: 28 m/min Opt.: 56 m/min
Cutting speed	6 m/min
Multiple torch positioning system	Steel band (Mirror available)
Hose/Cable Transfer	Cable chain
Oxy-fuel torch	Max. 8
Plasma torch	Max. 2
3D-Link Plasma Bevel	1
Gas control system	Servo gas control
Auto ignition	Optional
Motorized torch riser	Optional
Water spray	Optional
CNC control	Fanuc 300/310

## Innovative bevel cutting with 3D-LINK

For bevel cutting of complex geometries, KOIKE Super 400 in combination with the innovative bevel cutting equipment 3D-LINK is available. The compact 3D-LINK module operates according to a completely new principle and allows for positioning and swivel speeds exceeding those of conventional bevel cutting units by far.

Due to the special design and the high angle setting speed of up to 100°/sec., the cutting of bevels which previously required manual rework can now be completed in a single working cycle.



*Bevel cutting with 3D-LINK*



**With annual sales of \$ 450 million, KOIKE is one of the most important international players in the field of oxy-fuel, plasma and laser cutting technology in the year of the company's 90th anniversary.**

**Clients include well-known enterprises active in shipbuilding, steel construction, vehicle manufacturing, HVAC and other industries – they all rely on the long years of expertise of the company.**



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