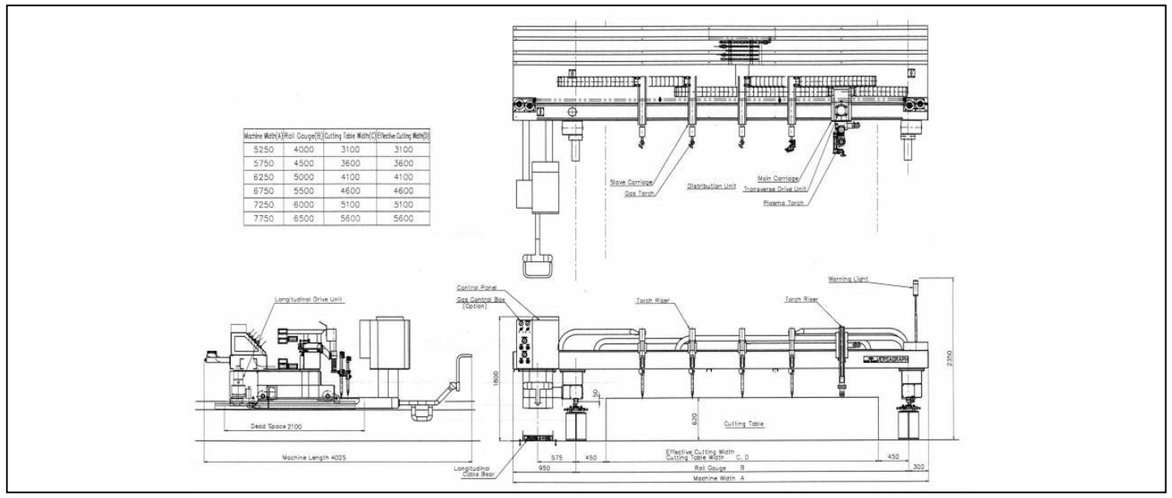
■ Machine Drawing and Dimensions



■ Specification

Model Name	Versagraph-4000 DXI, (“4000” is same as its “ Rail span”) -4500 DXI, -5000 DXI, -5500 DXI, -6000 DXI
Main body	Gantry type / Dual-side drive
Operator’s side	Left side
Drive method	Rack and pinion drive for X and Y axes
Rail span	4000 mm, 4500 mm, 5000 mm, 5500 mm, 6000 mm
Effective cutting width	“ Rail span “ – 900 mm
Effective cutting length	Rail length (standard ; 15000 mm) – 2100 mm
Torch mounting system	Steel belt connection system
Cutting speed	6000 mm/min
Marking speed	12000 mm/min
Rapid traverse speed	1800 mm/min
CNC system	D-180i FS
Torch quantity	Max. 8-torches
Minimum torch distance	125mm
Cutting functions	■ Hi/Low gas controller ■ Automatic piercing unit
Oxy/fuel cutting capacity	6～100mm (max.50mm by 8-torches)
Power-supply voltage	Single phase 100V/110V, Three phases 200/220V
Machine color	Koike Red (Main body)

■ Basic option

- ●Quantities of cutting torch (Max. 8-torches)
- ●Automatic igniter
- ●Water spray unit
- ●Motorized torch lifter (HDH)
- ●Forward/Backward adjuster
- ●Quick change torch
- ●Powder marking system
- ●Automatic igniter for marking torch
- ●Scrap cutting torch
- ●Rail extension (Increments of 3 m)

■ Controller option

- ●Alternate coordinate-axes
- ●Stop position restart
- ●Coordinate rotation

■ Custom option

- ●Right hand side operation
- ●Pedestals for rail installation
- ●Input transformer
- ●Alternate fuel gases
- ●Paint color
- ●Capacitance height sensor
- ●Water spray unit (for use with capacitance height sensor)
- ●Solenoid valve selection of preheat gases for individual torches
- ●Thick plate piercing
- ●Thick plate cutting
- ●Decoupling holder for plasma torch
- ●3D-link unit for plasma bevel cutting
- ●Fume collecting hood for plasma cutting
- ●Plasma cutting system (SUPER-200 / 400, HT-2000 / 4001, HD-3070 / 4070, MAX-100 / 200)

Total system supplier of welding and cutting **KOIKE INTERNATIONAL GROUP**

KOIKE SANSO KOGYO CO.,LTD.
International Division
1-1, Ojima 9-chome,
Koto-ku, Tokyo, Japan
136-0072 Japan
Tel:81-3-3685-9111
Fax:81-3-3685-1990

KOIKE EUROPE B.V.
Grote Tocht 19, 1507 CG
Zaandam, Holland
Tel:NR.075-6127227
Fax:NR.075-6702271

KOIKE ARONSON, INC.
635 West Main Street,
Arcade, NY14009., USA
Tel:716-492-2400
Fax:716-457-3517

KOIKE KOREA ENGINEERING CO.,LTD.
1318-26, Daekwang-Dong,
Kimcheon-City,
Kyoung Sangbuk-Do, Korea
Tel:547-439-3711
Fax:547-439-3713

SOPHISTICATED CNC CUTTING MACHINE

VERSAGRAPH-DX I Series

A NEW APPROACH TO HIGH SPEED AND PRECISION CUTTING

- ■ High performance and efficiency to meet a wide range of requirements
- ■ 5 models available
- ■ Effective cutting width: 3.1m, 3.6m, 4.1m, 4.6m, 5.1m
- ■ Extendable cutting length
- ■ New options

  SUPER Series oxygen plasma cutting system

  3D-link type plasma bevel cutting system

KOIKE SANSO KOGYO CO., LTD.

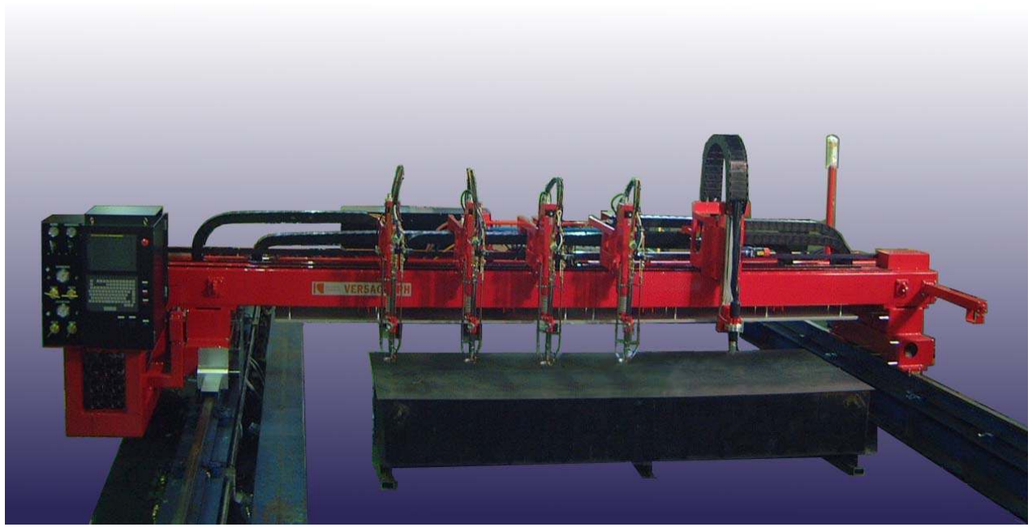
Machine Outline

Body structure designed for high cutting accuracy

The body has a gantry structure and dual side drive system.
Since the body is well balanced, highly responsive motion control is available and cutting work proceeds smoothly at any time.
Highly accurate, smooth operation is assured thanks to rails precisely machined and a stable longitudinal drive mechanism.
The rail length can be extended on increments of 3 meters.

The rapid traveling speed is 18 meters per minutes, the marking speed is 12 meters per minutes, and the maximum cutting speed is 6 meters per minutes.

3D-Link type torch block, as optional unit, is a brand new plasma bevel cutting system, and can proceed high responded, high accurate plasma bevel cutting.



Linear Guide

High speed accurate plasma cutting and line marking have become reality by adding linear guide ways and slides to the X-direction main drive carriage and sub carriage.

D-180i FS CNC controller

A powerful, high quality, state of art CNC controller with advanced functions for enhanced productivity and efficiency

- A new operator using this controller will be quickly transformed into a skilled worker because he can easily learn to operate the cutting machine with the touch panel controls.
- The controller has 60 built-in standard shapes that can be cut immediately after inputting desired dimensions.
- The D-180i FS can easily communicate with other devices using its networking capabilities. Serial transmission is also available.
- The controller will accept both EIA and ESSI format as standard, making NC programming easy. If special requirements exist, these can be easily accommodated.

Operation Panel

Centralized control station groups all control and operating functions in a single location, convenient to the operator.

Hi-Low Pre-heat Control unit

Standard Hi-Low Pre-heat Control provided on the Versagraph shortens time required to preheat plate before piercing.
Perfect setting of pre-heat flame is easy.

SUPER-200 / 400 / 600

Oxygen plasma high quality cutting system

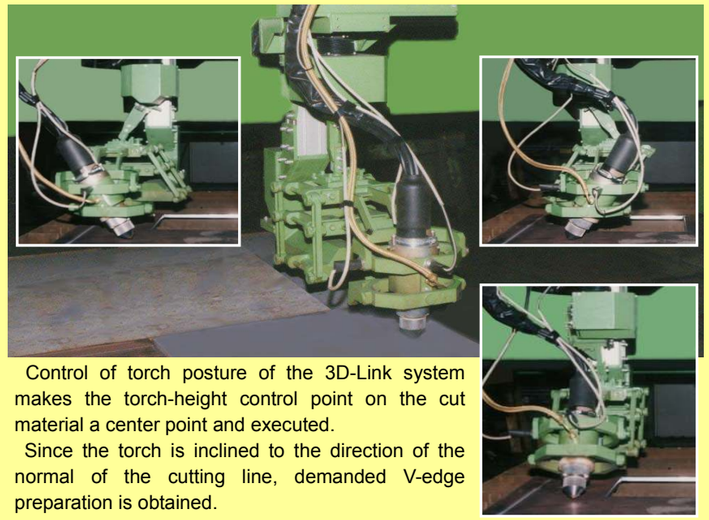
A vertical cutting within ±1.5 degrees is obtained by using SUPER series.
The upper edge of cut surface does not have roundness compared with any other plasma system.
The longevity of the tip by which the insulation structure is assumed to be a feature is very long, and the longevity of the electrode is also long enough because of the gas control.
Stainless steel and aluminum can be cut in the high quality.
(optional specification using N_2, $Ar+O_2$, CO_2+H_2, shield gas is only applied to cutting stainless steel.)

Specifications

System / Specifications	SUPER-200	SUPER-400	SUPER-600
Type of power source	KP-2052	KP-4052	KP-6052
Input voltages	200V / 220V	200V / 220V	200V / 220V
Input power	53KVA	104KVA	180KVA
Output voltages	200V	200V	200V
Output current range	50～200A	100～400A	100～600A
Dimensions (mm)	W500× D800× H1100	W700× D1000× H1350	W700× D1350× H1400
Weight	210kg	400kg	600kg
Type of torch	200-OPS	400-OPS	605-OPS
Dimensions (mm)	φ50×L270	φ56×L288	φ70×L300
Plasma gas Pressure	O_2 / N_2 0.8MPa	O_2 / N_2 0.8MPa	O_2 0.8MPa
Secondary gas Pressure	Air / $Ar+O_2$ 0.8MPa	Air / $Ar+O_2$ 0.8MPa	Air 0.8MPa
Shield gas Pressure	—	CO_2+H_2 0.8MPa	—

Available Options

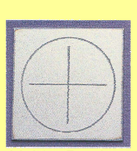
3D-Link type Plasma bevel cutting unit



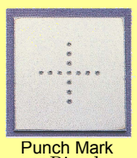
Control of torch posture of the 3D-Link system makes the torch-height control point on the cut material a center point and executed.
Since the torch is inclined to the direction of the normal of the cutting line, demanded V-edge preparation is obtained.

ArcWriter

The ArcWriter is a dual gas, variable output power, plasma marking, scoring and punching system designed to leave temporary or permanent identification marks on metal surfaces.


Light Scoring and Marking


Heavy Scoring and Marking


Punch Mark or Dimple

Automatic torch height control

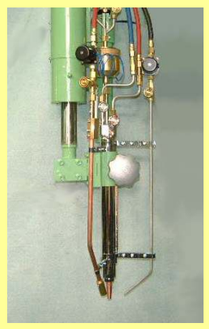
An electrostatic capacitance sensor detects the surface of the steel plate. Linked to a motorized torch riser, it automatically maintains a constant stand off between the cutting tip and the steel plate.

Automatic igniter

Each torch can be equipped with its own ignition device that emits a pilot flame

Powder marking system

In order to mark lines on the steel plate (for welding or bending purposes), it is ideal to use a powder-marking unit.



Plasma cutting system

Selectable from follows
SUPER-200, SUPER-400, HT-2000, HT-4001, HD-3070, HD-4070, MAX-100, MAX-200