

DELTATEC 4500

The **DELTATEC** sets new standards in terms of flexibility and precision for thermal cutting with oxy-fuel and / or dry plasma and marking of individual plates with up to 4 tool stations. The machine provides the use of various processes and assemblies as pure oxy fuel cutting machine or in combination with one plasma cutting device. Optional there are also different marking tools available.

The **DELTATEC** is a flexible, rigid and compact construction in sturdy portal design with the latest control technology and integrated differential compensation for precise guidance and harsh working environments. Double-sided rack drives with brushless AC servo axes provide excellent dynamic properties at high contouring precision for best cutting results with a positioning speed up to 24.000 mm/min.

The electrical equipment as safety devices, emergency stop, servo systems and controls are installed in a dust-tight cabinet. The energy supply (cable and hose package) in longitudinal direction will be installed in the basic configuration in a cable drag chain on floor level on the left hand side.

The **DELTATEC** can be delivered in various sizes up to a working width of max 4.000 mm to meet customer requirements. Precision plasma cutting tools allow quality cuts in materials up to 70 mm thickness. The effective working width of the machine depends on the installed type, quantity and combination of the working tools.

The precise Koike SmartLift ensures superior cutting performance. The SmartLift provides reliable tactile initial height setting height as well as precise tracking control of the torch distance by measuring the arc voltage during operation.

The **DELTATEC** comes with a **KATANA CNC**, as described hereafter with control panel fixed to the left hand side of the machine.

The delivery includes, beside the online help screen on the Katana CNC, a set of electrical and mechanical documentation and an operator manual on CD-ROM.



Machine Configuration

Signal Light with 3 Colours

Shows actual status of the machine:

- Red : machine error summary
- Yellow : machine ready to operate
- Green : machine under operation

CNC panel - left

Katana operating panel fixed, left side of the machine.

Bracket Arm – Left

Energy chain with C channel to be installed on the left hand side of the machine on floor

Steel Band System - 30 mm

With guide rollers in transverse direction per meter track width. This system enables congruent or mirror image operation of the tool stations, depending on the selected clamping.



E-Cabinet Air Conditioning

A cooling and heating system for the electrical cabinet. The AC unit is integrated in the **cabinet's** door.

- For ambient temperatures of max. minus 10° C up to plus 55° C
- Automatic control by thermostat

Network Cable

A network cable is necessary to connect the Katana control to LAN. We provide a cable per meter track length plus an additional 15 meter. The network cable is suitable for cable drag chains.

Rail and End Stopper

The machine's rail is of the industrial standard SS49 type (49 kg/mtr) and has a top width of 55 mm. The rail is mounted on rail beds which must be welded to the rail sub structure, both sides (H-Beams HE-B 300). Rail accessories for side and height adjustment, including mounting plates and DIN parts are included.

Rail is delivered in segments of 2 meter. The sub structure including fastening material is not included in our delivery and has to be supplied by the customer according to our drawings. Detailed pre installation documents will be provided by for.



Portal Frame Compensation: Important for Middle East Market

The saddles of the Deltatec have a built-in Portal Frame Compensation system that enables the gantry to expand due to heat caused by the cutting processes and still keep the clearance between the rack and pinion constant on both sides of the drive systems. This will ensure a smoother cut surface and less wear on the rack and pinion systems.

At start-up, the machine will automatically measure and calibrate the **portal's** squareness using two sensors where the actual portal position will be compared with the initial CNC settings when the machine was assembled.

The Katana will show an on-screen message that warns the operator if the portal is out of spec and readjustment is required.

Technical Specifications

Model offered	:	Deltatec 4500
Rail length	:	1400 mm
Effective cutting length	:	12100 mm
Rail span	:	4500 mm
Effective cutting width	:	3500 mm
Machine Parking	:	1900 mm
Cutting speed	:	minimum 50 ~ maximum 20000 mm/min
Positioning speed	:	24000 mm/min
Drives system	:	maintenance-free brushless AC drives
Guiding system	:	in longitudinal direction accurate machined rails and hardened precision racks
	:	in transverse direction linear guide rails and hardened precision racks

Offered Stations : 2 oxy fuel and 1 plasma station

Offered Oxy fuel capacity : 05-150 mm offered

Plasma Station : Kjellberg Germany Make Smart Focus 300

Cutting Capacity plasma: 40 mm Production 70mm with edge start

Plasma Marking and Plasma Punch marking for holes drilling by manual drill is included in offer

Drag chain	:	left side of the machine
Machine width	:	track width + 1.000 mm
Machine Rail	:	highly precise machined rails including mounting bolts and rail beds (must be welded to the beams). HEB 300 beam for Foundation not included.
Machine air connection	:	7 bar (100psi) oil and water free required
Machine supply voltage	:	230 VAC, +/- 10%
Frequency	:	50/60 Hz +/- 2%
Power consumption	:	ca. 2000 VA
Relative Humidity	:	10 % to 85 % (no condensation)
Standards	:	DIN EN ISO 9013 / DIN 2310-6, EN 28206 (ISO 8206), VDE 0100 and DIN EN 60204-1, DIN EN ISO 12100 Part 1 and 2, DIN EN ISO 14121-1, IEC62061

Katana-Advance CNC Controller

The KATANA-ADV Control is a networkable numerical control for cutting processes like Plasma, Gas, Waterjet, Laser and other cutting devices, and all related Marking systems such as powder, ink-jet or Plasma marking.

The hardware is designed to work in rough industrial environments such as shipyards and heavy engineering. The Software is modular and flexible structured for easy implementation of new functions and the integration of customer-specific solutions.

The operating concept with its intuitive menus using touch screen is clearly structured and provided with symbols, graphics and photos. The operation was perfectly adapted to the needs of operators to reduce downtime and prevent operating errors. The integrated cutting database and wizards provide also inexperienced operator the opportunity to produce parts within a few steps. Wear parts are displayed as images for better identification.

The KATANA-ADV Touch Screen Control with advanced data bus technology provides fast and precise input, and errors are avoided. During the control and regulation of drives and cutting tools, speed and processes will be optimized. This allows a higher productivity with lower material consumption, and this will cut costs.



Technical Specifications KATANA CNC Controller

Control	:	Industrial PC with fast PLC Intel Celeron Dual Core 1.6 GHz 4GB DDR-3-RMA, 8GB CFast Flash Cycle time 1 Milli second High-speed EtherCAT Control bus Operating temperature 0-55 ° C
Operating system	:	Windows 7 Pro
Monitor	:	15" TFT Display touch panel 1024x768 pixels built in Aluminum enclosure (IP 65) Operating temperature 0-55 ° C
Panel control	:	8 Position joystick Station select buttons 6 up/down toggle switches Free definable keys: e.g. for process on/off Feed rate potentiometer Emergency-stop button
Connections	:	1 USB-Port front side for program import 1 USB-Port back side for keyboard Ethernet (Customer Network) EtherCAT (Control, Servo- and I/O Communication)

Basic Software Features

Data import	:	DXF Import and editing of 2D DXF files
Free definable keys	:	e.g. for recurring operating sequences
CNC- Program	:	EIA-or ESSI Program format "DIN 66025" with automatic switching from ESSI to "EIA"
Smart shapes	:	64 with variable lead-in and lead-out parameter settings
Macros	:	Processing of subroutines within a part program
Technology Data	:	Allows complete automation of cutting and marking processes
Auto Reference	:	Automatic referencing of the machine
Gantry axis	:	Control of a slave axis (gantry axis) assigned to the guiding axis. During operation the position distance (lag) between master and slave axis is monitored and the machine stops when the differences exceed a predefined value
Gantry control	:	The module gantry control monitors the squareness of the gantry axis to each other during machine movement
Multiple Work areas	:	Allows the assignment of up to six working areas with individual working area limit switches and home positions

Manual Operations

Absolute Start Position	:	Allows the manual entry of the program zero (GRID)
NC Off-Path	:	Possibility to execute e.g. scrap cut
Program Parking	:	To interrupt and at a later stage continue the current program
Multi-Level-Return to Start	:	Facilitates to cut omitted parts again or to return to program start point
Manual Plate Alignment	:	To teach in the actual position of the plate and align the part program accordingly
Job Control	:	To simplify the saving and calling of all data necessary for a cut (part program, technology data etc.)
Zoom while Running	:	Keep the running point in the focus while increasing the graphic view of program representation during execution
Kerf on the Fly	:	Permits a change of the kerf value by the operator during the program execution
Display of Comments	:	From the part program to inform the operator
Timers and Counters	:	To record e.g. distances, timers and ignition procedure. When reaching definable threshold values, requests can be indicated to maintenance work or to the change of consumables and so on
Maintenance intervals	:	To determine and request a machine service as displayed on screen

Manuals

Operation manual, technical documentation, parts list, assembly drawings, electrical drawings and supply drawings in English language.

Smart Flow Gas Distribution for Oxy Fuel (Automatic gas control system)

The oxy fuel torch stations are equipped with electronically controlled proportional valves to establish a stable increase of the gas flow during piercing. The required parameters are pre-set in the Katana CNC.

Specifications

- Pressure gauge and pressure regulator representation on the Katana Panel
- Hi/Lo pressure switch for faster pre-heating
- With automatic hole piercing by continuously increasing cutting oxygen up to 130 mm material thickness (depending on gas and material)
- Gas distribution block for up to max. 4 torch stations
- Setting of all necessary parameters and ramps are stored and can be adjusted in the cutting charts on the Katana control panel
- Maximum cutting thickness 150 mm (depending on the machine configuration)



Smart Lift OXY220 Height control system for Oxy Fuel: 2 Pcs

The Koike Smart Lift with Variable Torch Holder for Oxy fuel, Capacitive Height Sensing and electrically controlled Automatic Ignition is designed for rough environments where fast and effective Torch Height Control is required to achieve optimum productivity and quality of cutting and marking processes.

The in the Katana CNC control integrated Wizard provides all required characteristics for an optimum performance depending on the material, thickness and desired cut quality to adjust the entire system with the correct parameters for perfect processing parameters.

The Smart Lift comes with a brushless maintenance free AC motor and precision linear guidance system for smooth, reliable and accurate torch motion. The lifter runs at a fast stroke speed of 100 mm/sec through ball-screw spindle which provides more production time.



Electronics

The lifter is connected with the Koike EtherCAT bus to the Katana CNC controller that operates the movement of the lifter.

Technical specifications

Correction speed	:	6.000 mm/min
Maximum stroke	:	220 mm
Processing Motor	:	brushless 200W AC motor
Torch guidance	:	precision ball screw & linear guide rails
Bevels	:	can be manually set for V+ and V-

Automatic Ignition ensures the igniting of the torch through the path control or by pressing a button on the control panel. Individual Solenoid Valves allow choice and switching off of the cutting torch by CNC.

With the Capacitive Height Sensing the initial height and control of the accurate stand-off during cutting offers an improved cut quality for vertical cutting.

Swivel Unit

The Swivel Unit is an option for the oxyfuel torch station and can be used for plate edge preparations in longitudinal directions. Precise angle settings of +/- 45 °C can be achieved with little operator adjustments. Also front and back adjustment for alignment of multiple oxyfuel torches is possible.



Heat Protection Shield

For a single oxyfuel torch mounted at the bottom of the tool station. Each torch will be configured with a heat protection shield.

Smart Lift Oxy Tool Station : 2 pcs

The Koike Smart Lift with Variable Torch Holder for Oxy fuel, Capacitive Height Sensing and electrically controlled Automatic Ignition is designed for rough environments where fast and effective Torch Height Control is required to achieve optimum productivity and quality of cutting and marking processes. The in the Katana control integrated Wizard provides all required characteristics for an optimum performance depending on the material, thickness and desired cut quality to adjust the entire system with the correct parameters for perfect processing parameters. The Smart Lift comes with a brushless maintenance free AC motor and precision linear guidance system for smooth, reliable and accurate torch motion. The lifter runs at a fast stroke speed of 100 mm/sec through ball-screw spindle which provides more production time.



Electronics:

The lifter is connected with the Koike EtherCAT bus to the Katana controller that operates the movement of the lifter.

Technical Specifications:

Positioning speed : 6.000 mm/min
 Maximum stroke : 120 mm or 220 mm (optional)
 Processing Motor : brushless 200W AC motor
 Torch guidance : precision ball screw & linear guide rails
 Bevels : can be manually set for V+ and V- (for X&Y axis)

The Variable Torch Bracket allows panning and tilting of the machine cutting torch at all directions, as well as Plate Edge Alignment.

Automatic Ignition ensures the igniting of the torch through the path control or by pressing a button on the control panel. Individual Solenoid Valves allow choice and switching off of the cutting torch by CNC.

With the standard Capacitive Height Sensing the initial height and control of the accurate stand-off during cutting offers an improved cut quality for vertical cutting.



Smart Lift ARC220 for Plasma height control: 1 pc

The Koike SmartLift with magnetic torch holder for collision protection and initial height sensing is designed for Precision Plasma Systems where a fast and extremely accurate torch height control is required to increase both productivity and cut quality.

The in the KATANA control integrated wizard provides all required characteristics for a precise cut depending on material, thickness and desired cut quality from to adjust the entire system with the correct parameters for perfect processing

The SmartLift comes with a maintenance free AC motor and precision linear guidance system for smooth, reliable and accurate motion.



Initial Height Sensing (IHS) with Collision Protection

Exact initial height sensing, using nozzle contact by electrical or mechanical triggering, ensures precise control of the accurate stand-off during piercing and cutting.

Improved cut quality and extended consumable wear due to re-tracking of torch to piercing distance in encoder increments and the built-in ARC voltage control system.

The integrated collision protection with magnetically positioned torch holder for fast and precise replacement of the holder allows simple visual inspection and nozzle exchange.

Technical Specifications

Correction speed	:	6.000 mm/min
Maximum stroke	:	220 mm Processing
motor	:	brushless AC motor
Torch guidance	:	precision ball screw & linear guide rails

Plasma Shield Curtain

A plasma shield curtain for dry plasma cutting protects the operators from direct UV radiation while plasma cutting.

Manual Plate Alignment

A spot laser is used for manual plate alignment to teach in the actual position of the plate and align the part program accordingly as well as for repositioning of the machine after e.g. a cutting break.


The Katana provides for plate alignment up to 8 different measure routines at left and right hand side, as well as in front of the plate. The installed diode laser is designed for tough industrial applications and projects depending on visual points, lines or crosses, which are clearly visible on the plate even in daylight.



Kjellberg Germany Make Smart Focus 300 Plasma System



Smart Focus Pure Energy

Smart Focus 130, 200, 300, 400 

Plasmaschneiden von 1 bis 100 mm

Plasma cutting from 1 to 100 mm

kjellberg.de

Moderne Komponenten Modern Components

Brenner & Gassteuerung – intelligente Neuentwicklung

Für die Smart Focus-Reihe stehen neu entwickelte Gaskonsolen zur Verfügung, wahlweise manuell oder vollautomatisch. Mit diesen optimierten Gassteuerungen werden beste Schneidergebnisse mit höchster, reproduzierbarer Qualität erzielt. Die neuen Brenner PerCut 2000 und PerCut 4000 sind in Aufbau und Funktionsweise verbessert worden und ermöglichen präzise Schnitte und höchste Schneidgeschwindigkeiten. Ihre einzigartige Flüssigkeitskühlung garantiert höchste Lebensdauer der Kjellberg-Verschleißteile, reduziert den Gasverbrauch und damit auch die Schnittmeterkosten.

Torches & gas control – intelligent redevelopment

Newly developed gas supply units are available for the Smart Focus series, either manual or fully automated. With these the user achieves best cutting results with highest, reproducible quality. The new torches PerCut 2000 and PerCut 4000 have been improved as well. They provide precise cuts and highest cutting speeds. Their unique cooling system guarantees longest consumable life and reduces the gas consumption and cutting costs per metre.



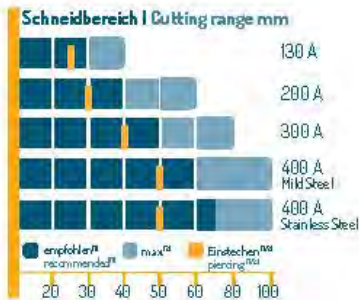
PerCut-Brenner: auch für Fasenschnitte bis 50 ° | PerCut torches: also for bevel cutting up to 50 °



Verschleißteile mit langer Lebensdauer
Consumables with long life



Gasversorgung manuell: P6E-300, automatisch: P6V-300
Gas supply manual: P6E-300, automated: P6V-300



*abhängig vom Material | depending on material

**Einrechner in beschränkter Löseleistung | pending

Brenner Torches	PerCut 2000, 4000
Schnellwechsellkopf Quick-change head	PerCut 4000
Einspanndurchmesser Clamping diameter	50,8 mm 2 inches
Plasmagase Plasma gases	O ₂ , Ar/H ₂ , N ₂ , air
Markiergase Marking gases	Ar, N ₂
Wirbelgase Swirl gases	O ₂ , N ₂ , FS [®] , air

[®] Forming gas FS (95 % N₂, 5 % H₂)

Einsatzgebiete

*Metal- & Maschinenbau
Lohnzuschnitt
Stahl- & Hallenbau
Anlagen- & Behälterbau
Nutzfahrzeug- & Kranbau
Rohrleitungs- & Lüftungsbau
Schiff- & Automobilbau*

Application areas

*Metal construction & engineering
Job shop production
Steel & hall construction
Plant & tank construction
Commercial vehicle & crane construction
Pipeline & ventilation construction
Shipbuilding & automotive engineering*

Technische Daten Technical Data	Smart Focus 130	Smart Focus 200	Smart Focus 300	Smart Focus 400
Netzspannung Mains voltage*	3x 400 V, 50 Hz	3x 400 V, 50 Hz	3x 400 V, 50 Hz	3x 400 V, 50 Hz
Sicherung, träge Fuse, slow	50 A	80 A	125 A	180 A
Anschlussleistung Connected load	max. 28 kVA	max. 51 kVA	max. 79 kVA	max. 116 kVA
Schneidstrom Cutting current	35 – 130 A	35 – 200 A	35 – 300 A	35 – 400 A
Markierstrom Marking current	10 – 50 A	10 – 50 A	10 – 50 A	10 – 50 A
Einschaltdauer Duty cycle**	100 %	100 %	100 %	100 %
Abmessung Dimensions (LxWxH)	1.030 x 570 x 1.260 mm	1.030 x 680 x 1.450 mm	1.030 x 680 x 1.450 mm	1.030 x 680 x 1.450 mm
Masse Mass	266 kg	388 kg	488 kg	563 kg

* Andere Spannungen und Frequenzen auf Anfrage | Other voltages and frequencies on request.
 ** Umgebungstemperatur 40 °C | Ambient temperature 40 °C.

Auszug Schneiddaten | Extract operating data

Dicke Thickness mm	Baustahl Mild steel		Edelstahl Stainless steel		Aluminium Aluminium	
	A	mm/min	A	mm/min	A	mm/min
1	35	3.400	55	5.500	55	4.500
2	35	2.800	55	4.000	55	4.000
5	60	3.100	55	2.000	55	2.700
6	90	3.700	130	1.600	130	3.500
8	130	3.700	130	1.500	130	1.400
10	130	3.000	130	1.400	130	1.300
12	160	3.400	130	1.200	130	1.200
15	200	2.800	200	1.200	200	1.500
20	200/300	1.800/2.600	200/300	850/1.200	200/300	1.300/2.800
30	200/300	1.000/1.500	200/300	600/860	200/300	600/1.800
40	300/400	800/1.200	300/400	570/750	300/400	1.200/1.600
50	300/400	500/800	300/400	480/550	300/400	880/1.200
60	300/400	300/550	300/400	410/480	300/400	550/1.000
70	300/400	150/300	300/400	280/380	300/400	450/800
80	300/400	100/210	300/400	250/330	300/400	400/600
100	400	150	400	180	400	250

Sigma Nest Companion Offline Nesting Software

This SigmaNest software is modular and can be delivered in a wide range of varieties and options. Below is our suggestion that in most cases fills all your needs perfectly.

Software

Normally, a complete SigmaNest nesting package consists of:

- a main software package depending on the requirements
- a post processor
- on-site installation and training by a Koike Middle East engineer
- optional post processors to drive other, mostly existing, cutting machines

SigmaNest is the most advanced solution available for laser, plasma and oxyfuel machines. It maximizes material efficiency and machine through-put using advanced nesting and NC functions, including common line cutting, bridge cutting and chain cutting.

SNX300A SigmaNest Companion

Machine control based nesting with:

SigmaNest Post Processor

The post processor is necessary to produce the NC data which the Katana can use.

Sigma NEST Companion Automatic Nesting software Included in offer



SigmaNEST COMPANION

SigmaNEST Companion™ is designed to be an easy-to-implement true shape nesting solution that can get users nesting more efficiently with wizard-based prompts. It is ideal for machine manufacturers who want to include added benefits to their equipment solutions, and for users who want a quick start to higher efficiency. SigmaNEST Companion works with profile-cutting machines, including plasma, oxyfuel, and waterjet.

<h4>FEATURES</h4> <ul style="list-style-type: none"> • Wizard-based prompts • File Import - DXF • True shape nesting • Automatic path generation • Automatic NC code generation 	<h4>ADVANTAGES</h4> <ul style="list-style-type: none"> • One software to program all major profile cutting machines • Little or no training required • Quick and easy setup 	<h4>BENEFITS</h4> <ul style="list-style-type: none"> • Efficiently nest the first day using the machine • Bolster machine efficiency • Produce nesting layouts and NC programs effortlessly
<h4>WELCOME SCREEN</h4> <p>Companion's easy-to-use wizard directs the user to:</p> <ul style="list-style-type: none"> • Load an existing SigmaNEST file • Load a DXF file to nest, or • Create a new task. <p>The user follows step-by-step directions with "Next" prompts on each screen. At any time the user can go back and edit any setting or part.</p>	<h4>PART MANAGEMENT</h4> <p>Companion users have the flexibility to load DXF files or choose from more than 190 standard shapes in the SigmaNEST library. After creating a parts list, parts can be deleted or edited according to a task's unique requirements. Automatic nesting of all parts quickly gives users the most efficient layout at a simple click of a mouse.</p>	<h4>NC SIMULATE AND CODE</h4> <p>Companion offers users an accurate visual image of the cutting path for each task, giving a view of lead-in/out points, and users can decide if any changes are needed to task parameters or parts.</p> <p>Companion quickly and efficiently generates industry standard G and M codes for part production.</p>
<h4>TASK PARAMETERS</h4> <p>Users can customize specifications including:</p> <ul style="list-style-type: none"> • Material type • Sheet quantity, length, width, thickness • Part clearance • Edge distance • Torch quantity and spacing • Minimum torch distance • Machine type, reference 	<h4>TOOLPATH CREATION</h4> <p>Users can customize the toolpath for each task by entering preferences for:</p> <ul style="list-style-type: none"> • Block size • Sort method (typewriter or zigzag) • Path direction • Kerf in control (x or computer) • Kerf lookup option • Kerf radius and diameter 	<h4>SUMMARY REPORT</h4> <p>After the NC code is generated, Companion creates a detailed report of the project, complete with charts and the nest layout graphics as a review of the sheet layout, toolpath, and other specifications.</p>



Companion wizard welcome screen >>>

CONTACT

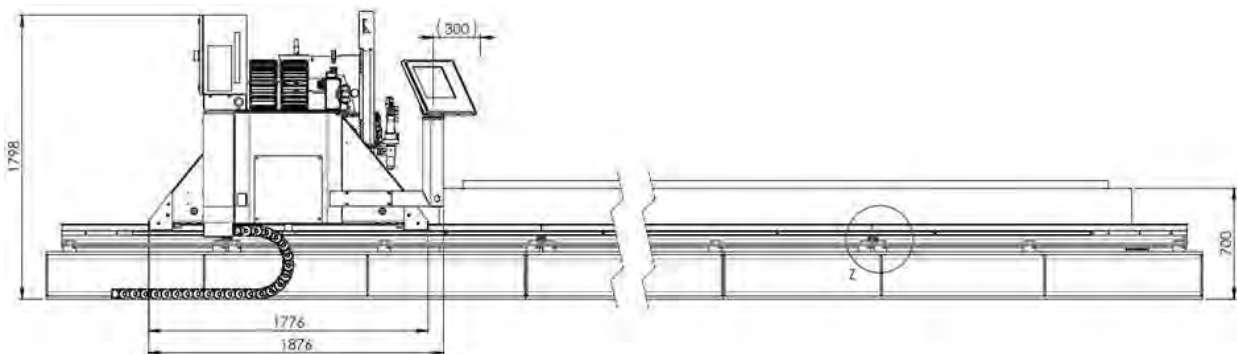
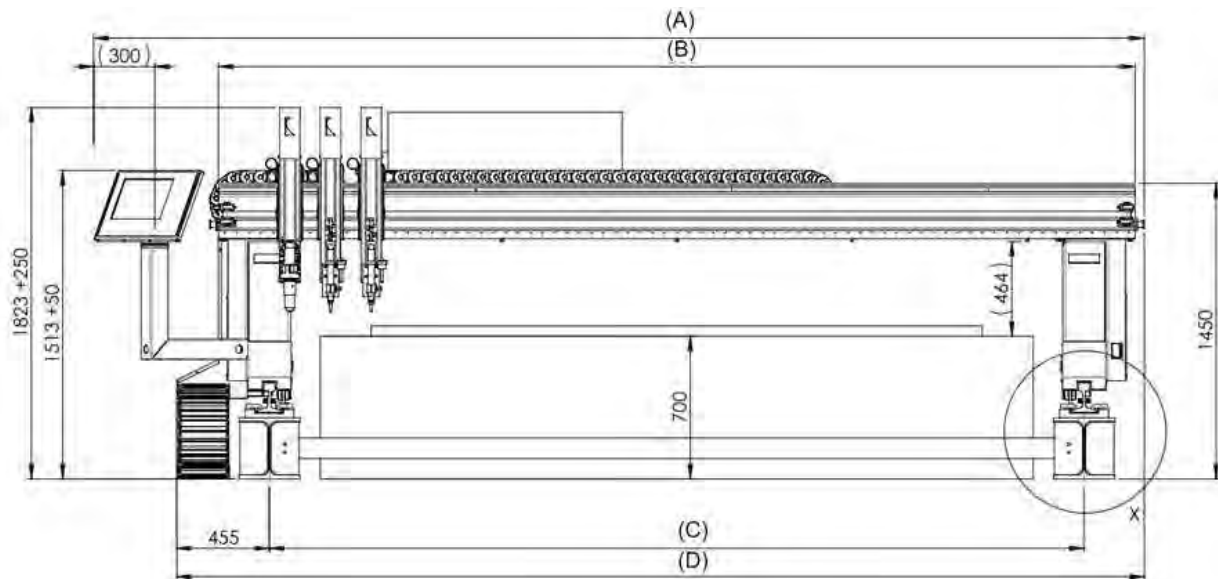
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Overview

Item	Description	Q'ty	Unit	Net Price
Deltatec 4500 – 14 meter Rail				
580000004008	Deltatec 4500	1	Pc	
580000010010	Katana-ADV CNC - Windows 7	1	Pc	
580000004078	Bracket Arm CNC, fixed, left side machine	1	Pc	
580000004054	Steel band System - 30 mm – DT4500	1	Set	
580000004106	Signal Light - 3 colors	1	Pc	
580000004116	Safety Stop-rope, front and back side Machine	1	Set	
580000004140	Rails and racks (both sides, per meter), including mounting plates and fixing bolts	14	Mtr	
580000004077	Cable Tracks, wall mounted, right side machine	1	Pc	
580000004900	Cable Track Oxy fuel / Plasma < 300 Amps, per meter Rail length	14	Mtr	
580000004022	Station Cabinet - 3 stations	1	Pc	
580000004153	Smart Flow Gas distribution with Proportional Valves (2 Torches)	1	Set	
580000004162	Compressed Air Manifold	1	Pc	
580000004191	Smart Lift OXY220 (incl. capacitive height control, automatic ignition, variable torch bracket and torch heat shield)	2	Pc	
580000004216	Oxy fuel torch bracket for precise angle adjustment in lateral direction (+/- 45°)	2	Pc	
590000002110	Oxy fuel Torch (5 - 150 mm) LPG/MAPP	2	Set	
580000004261	Smart Lift ARC220 plasma Height control	1	Pc	
580000004370	Manual Plate Alignment / Laser Spot	1	Pc	
900000005002	Smart Focus 300 with automatic Gas console	1	Set	
900000001000	Ohmic Touch Sensing – Kjellberg	1	Pc	
580000004103	E-cabinet Air Conditioning	1	Pc	
580000004910	Oxy fuel Hose package (LW16), (L= 20 meter)	1	Set	
580000004915	Hose O2 / Air (ID16), (L= 20 meter)	1	Pc	
580000004905	Power cable Machine (Rail length + 15 meter)	29	Mtr	
580000010040	Network Cable for LAN connection to Katana (Rail length + 15 meter)	29	Mtr	
580000014100	Documentation machine	1	Set	
700000050002	INT Packing	1	Set	
SN-SNX300-A	Sigma Nest Offline nesting software for 2D cutting systems, including Post Processor	1	License	included

Deltatec Machine Dimensions



Machine width	: track width + 1.000 mm
Track width	: 4500 mm
Effective cutting width	: 3600 mm
Machine height	: 2100 mm (approximately)
Table height	: 700 mm
Beam height	: 300 mm
Total Rail length	: 14000 mm
Effective cutting length	: 12100 mm

* Koike Europe BV and Koike-Engineering GmbH reserve all rights to make changes to the final machine design without prior notice.