CNC Punch And Plasma Model CPP

شىرىحت ماشىين ابزار شىوكا ارائە دەندە سرويسەلى فنى -بازرىخانى ماشىن ابزار

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www.shoka-group.com

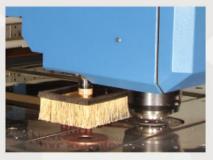
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TOOLING SYSTEM

Sensitive and durable ERMAK-BIEMMETI marked standard sextet multi tool or thick turret D station is used at bottom and top tool system.

Trio, quartet, fivefold, sextet and octet multi tools, B, C and D type stations, TRUMPF type, Wilson tools can be adapted to the machine and available upon request. Many operations are possible like special coated tools for stainless steel processing, forming with functional tools, perforating various diameters and special evacuating.

The machine has the "Automatic repositioning feature" to process sheets wider than 2000 mm. Two hydraulic sheet holder clamps are pinching the sheet with springs are used on the machine. The sheet is pinched without causing any deformation to provide processing sensitive.

Stainless with roller balls type table

Pneumatic sheet referencing bar and CAD/CAM controlled pneumatic trap to drop the scraps into the box with wheels.

Interpolation of sheet weight – acceleration by CAD/CAM (CNC controlled automatic axis acceleration calculation according to the sheet thickness and dimensions while CAD is being prepared).

Rapid, sensitive, hydraulic punch control system by means of HNC100 High Speed control card and LVDT feedback.

Sensitive linear bearing equipments, guides without gap, sensitive screw axles and dynamic servo motors, intelligent drivers are used on X and Y axes. The dynamic buffer designed with these equipments does not make a concession from its sensitivity even at high speeds.

Cad/Cam: User friend LANTEK Expert cad/cam software used all around world in the sheet metal working industry.

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CNC CONTROLLER

Bosch & Rexroth brand VSP 16 type, 12" TFT with high resolution, colored, touch panel) screen is used on the machine. UPS, USB are available for customer use on the panel. The control unit is equipped with 2 Ghz high performance processor, 512 MB Ram, 20 GB Hard Disc, VGA, Ethernet (10/100 Base – T), PS2 Serial Ports, USB, IP65 protection class 0.25g. / 5g. vibration/shock resistance, EMC Test certificated Windows XP operating system has common and easy service. Ergonomically designed control panel can be moved around the machine easily. Protective UPS (Power Source) is included for electricity cut off and voltage undulation.

LANTEK SOFTWARE

Lantek Expert Punch, Offers the most productive solution for proramming cutting machines

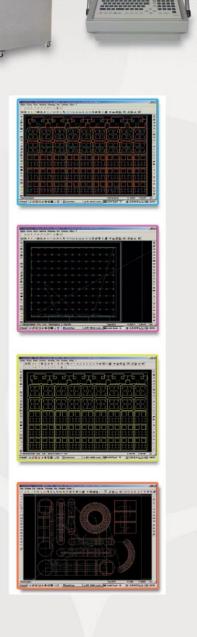
This new design is the fourth generation of programs and is the result of Lantek's more than 10 years experience in providing solutions for the sheet metal processing industry.

Easy to learn.

Lantek Expert Punch is designed to reduce learning time to a minimum. Simple, user-friendly menus guide users at all times, enabling them to produce parts from the first day.

Summary:

2D CAD Module Automatic dimensioning Parametric Shapes Library Import DXF, DWG Files Possibility to save the drawing of the nesting in a file with WMF format or with DXF format Automatic geometry verification and error correction Manual, automatic & interactive Nesting (collision control) True-shape Nesting Nesting for common punching Interactive technology assignment (manual & automatic) Standard reports (Factory sheets report, Sheets report, Geometry report.Parts report, Labels report, Time and Cost reports, etc) Automatic part quantity tracking Automatic calculation of part area, weight, machining time and cost. User-definable cost parameters Automatic processes Communications Flexible automatic sequencing options Common Punching Automatic tooling Automatic work-chute management Automatic micro-joint management Automatic clamp avoidance control Automatic repositions User definable punching macros Shear Management Integrated parts database Integrated Tools and Dies database Integrated material Database Automatic plate cropping and remnant creation Automatic nesting on remnant sheets



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CPP COMBINED PLASMA PUNCH PRESS

ERMAKSAN'S CPP (COMBINED PLASMA PUNCH PRESS) series proven quality and experience in production of sheet metal workbenches is being presented to the utility of our clients open to technology and continuous innovation. Strong mono block rigid C type body built up by welded steel and stress removed high acceleration axes designed to allow sheet loading from 3 sides ergonomically lets the operation to be watched easily

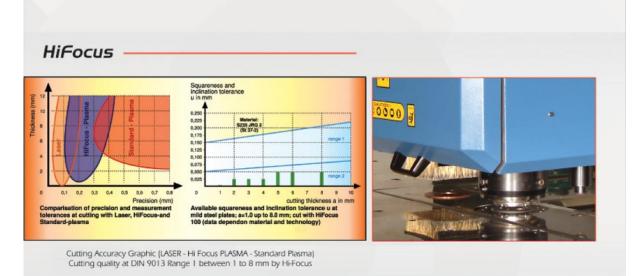
The combination of HiFocus sensitive plasma cutting and hydraulic punching on a strong body. The moving sheet on X, Y axes on a stainless with roller balls type table by clamps can be cut as sensitive as required contour by servo motorized automatic height adjusted torch at plasma unit after being processed by perforating and/or forming operations at punch unit. It realizes cutting and perforating processes at high speed and accuracy, and has the capability aimed at mass production. An alternative cutting process in comparison to other high cost cuttings. Furthermore the production period will be shortened on these kind combined workbenches because the worksheet will not be taken apart and transferred to different workbenches.



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KJELLBERG HI-FOCUS 100

KJELLBERG HI-FOCUS 100 (Aluminum, Stainless Steel, Mild Steel)

HiFocus Technology

PLUS The HiFocus – technology is based on a computer – optimized development of plasma torch components and control sequences. The result is a laser-like cutting quality with extremely low squareness tolerances acc. to DIN EN ISO 9013 (optimum –1° / +2°) (\pm 0,2 mm part tolerance) for a very wide thickness range up to 25 (40) mm. An up to 100% higher cutting speed compared with conventional systems in connection with the increased longevity of the XL-Life-Time consumables are the result of considerably minimized cutting costs for mild steels. The outstanding features of the new PLUS HiFocus-technology are highest quality capabilities at a substantially improved productivity and cost reduction in an extended range of application.

With the plasma cutting unit HiFocus 100 for optimized cutting ranges are disposable, ensuring superb cutting results at destined dimension limits for mild steels, stainless steels and aluminum. Those are characterized by:

Metallically clean, laser-like cutting surfaces, also with thicker materials and stainless steels, narrow cutting kerfs with lowest squareness tolerances, very small heat effected zones, therefore nearly no distortions, also at thin plates, dross-free cutting in a wide range of thickness, running cutting start and running piercing, direct corner cutting and cutting of inside contours, and ensure a wide technological field of application as well as excellent economical parameters.

High Accuracy Cutting Results

Insulated swirl protects the gas and cutting nozzles, by this way provides better quality cutting and lowest operating cost at piercing period at warm materials. Directly water cooled nozzle 3 time life time extended cathode Constant cutting quality by automatic height and arc voltage control, Dross-free cutting, sensitive contours, sharp edges, low heat effect are features.

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Technical D	lata			Cutti	ing para	amete	rs for	quality (cutting	gs			
Power source	HiFocus 100	Plasma machine torch	PerCut 160 / 170			Mild steel		51	ainless Ste	el	1	Aluminium	
Mains connection Mains power	3x400 V , % -10 / % +5,50 Hz 32 kVA 4 x 6 mm ²	Cutting current	max. 160 A	Material thickness (mm)	Technology Range	Cutting Correct	Cutting Speed (mm/min)	Technology Range	Cutting Current (A)	Cutting Speed (constitute)	Technology Range	Cutting Current (A)	Cutting Speed (mm/min
Cross section, Cu Fuse	T50 A	Hose parcel diameter	1 m or 1.5 m	0,5		20 20	700		(30)	(4500)		30	1800
Cuttin current Open circuit voltage	20-130A (% 100 d.c.: 100A) 400 V	Clamping diameter	44 / 50 mm	2	HiFocus	50 50	2600	HiFinax	45	3200	HiFocus	30 35	1400
Ignition Protection class	High voltage IP 22	Cooling Flow rate	Coolant circulation 2.5 l/min	4		50	2200 2200		45 50	2400		35 45	1200
insulation class	F 960 × 540 x1050 mm	Plasma gases	Oxygen, Air, Argon Nitrogen, Hydrogen	5		50	1750		50	1800		50	1400
Dimensions (LxBidH) Neight	251 kg	Swirl gases	Oxygen, Nitrogen, F5	8		100 100	2700 2400		130 130	2000 1600		130 130	3200 2200
Thickness Material	10 mm	20 mm	30 mm 1 40 mm	10	HiFocus		2400	HiFocus F	130	1200	Hi.Focus F	130	1600
Maximum Pierci	ng with hole sequence			12 15		130 130	2000 1800		130 130	1000 950		130 130	1400
values, Recor	mmended range for tabrication			20 25		130 130	1000		130 (130)	550 (400)		130 130	800

CUTTING TECHNOLOGIES

1- Hi-Focus Quality: Mild steel and aluminum (0,5-12 mm), 5/6 bar plasma and swirl gases, direct edge cutting with narrow gap small diameter nozzle, cutting at DIN EN ISO 9013 quality, long cathode and nozzle life-time, min. gas consumption

2- Hi-Focus INOX: Stainless steel 1-6 mm, dross-free clean cutting, 5/6 bar plasma and swirl gases, direct edge cutting with narrow gap small diameter nozzle, cutting at DIN EN ISO 9013 quality, long cathode and nozzle life-time, min. gas consumption

3- Hi- Focus Speed: Mild steel 4-12 mm, 8 bar plasma and swirl gas, high speed cutting (approx. 3 times), sometimes small cutting inclination angle.





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Advanced Software for ERMAK CPP LANTEK EXPERT II Combinations Plus Module :

The operations of drown at the main software or imported from any CAD software part are designated by LANTEK as automatically according to the previously determined criteria as punching or plasma cutting. Automatic nesting (best nesting to the sheet without shrinkage) provides cost advantage.

Software Features

- Lantek Expert II Combination Plus Module Including:
- 2D CAD Module
- Automatic dimensioning
- Parametric Shapes Library
- Import DXF, DWG Files
- MEC Import Module
- Possibility to save the drawing of the nesting in a file with WMF format or with DXF format
- Automatic geometry verification and error correction
- Manual, automatic interactive Nesting (collision control)
- True-shape Nesting, including parts in parts
- Nesting for common line
- Interactive technology assignment (manual & automatic)
- Advanced lead-in and lead-out options
- Automatic lead-in and lead-out generation and placement Automatic lead-in and lead-out overlapping detection and correction
- Automatic pre-punch in lead-in/lead-outs
- Flexible automatic sequencing options
- Common Line cutting
- Bridge cutting and pierce reduction
- Advanced pre-piercing options (fast piercing, sprintlaser)
- Chain cutting
- Feature avoidance
- Head-up/Head-down control
- Variable quality
- Automatic tooling
- Automatic work-chute management
- Automatic micro-joint management
- Automatic clamp avoidance control
- Automatic repositions
- User definable punching macros
- Integrated parts database
- Integrated Tool and Die database
- Integrated material Database
- Automatic plate cropping and remnant creation
- Automatic nesting on remnant sheets
- Standard reports (Factory sheets report, Sheets report, Geometry report.
- Parts report, Labels report, Time and Cost reports, etc)
- Automatic part quantity tracking
- Automatic calculation of part area, weight, machining time and cost.
- User-definable cost parameters
- Automatic processes
- Communications



Automatic Clearance control **IHT PCS 2100**

When traveling downwards the vertical LINEAR DRIVE finds the surface of the work piece by smooth tactile touching, irrespective of surface conditions, such as rust or dirt, stops and moves to the preselected ignition height position. After ignition, it moves to the preset cutting height. The arc voltage is monitored during the cutting process. Clearance control is maintained by comparison of nominal arc voltage to the real arc voltage.

Adjustments of all clearances may be preselected in millimeters or inches.

*Finds the initial position exactly by smooth tactile touching the surface of the work piece.

*Adjustable additional elevation for piercing increases the durability of the nozzle.

*Precise clearance control at tool center point. *Cost saving work piece utilization with measuring the distance close to kerf and edges.

*Automatically detection of kerf and edges. *High precision torch lifter, stroke 220 mm

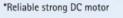
*High speed for control up to 80 mm/s

*Adjustable retract position at the end of cut *3D collision protection, effective in all directions *Torch lifter dust-proof and maintenance-free

*Integrated monitoring of operation

*High positioning accuracy by 0,1 mm incremental encoder *Metric and Inch working modes

- *Light dynamic structure 9 Kg





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STANDARD EQUIPMENTS

- X, Y, C, HiFocus Plasma Generator + Automatic Servo Motorized Height Control (Z)
- Bosch Rexroth VSP 16 CNC controller Industrial PC
- 12" TFT Colored High Resolution Touch Screen
- Windows XP operating system
- USB entrance at panel
- Protective USB (Power Supply) for electricity cut off and voltage undulation
- ETHERNET Interface for Communication and Network Connection between the office and machine
- The operator panel activates easily the velocity of axes, clamp functions, reference positions, trap and tool and punch functions.
- 2 Nos. ERMAK sheet holder clamps
- Mobil Command Foot Pedal
- Automatic Repositioning (for sheets wider than 2000 mm and for zones under clamps
- Check of work zone by CAD/CAM
- Warning Lamp
- Brushed Type Table
- Cooler
- Automatic CNC controlled trap (Scrap / Part discrimination)
- Wheeled Scrap Box
- ERMAK-BIEMMETI Sextet Multi TOOL 'D Station '' (Punch, Die, Stripper) A station round 8, 10, 20 mm, rectangular 4x20 mm (2 nos.), square 17x17 mm
 - Or
- ERMAK Biemmeti Thick Turret adaptor from D station to A station round 8, 10, 20 mm, rectangular 4x18 mm (2 nos.), square 14x14 mm
- CAD/CAM Software LANTEK EXPERT COMBINATION **
- Standard FULL Automatic Nesting (1 nos. software,1 nos. dongle), postprocessor
- Machine Instruction and Maintenance Manual ERMAK Lantek CAD/CAM training CD for easy usage
- KJELBERG: Hi-Focus 100 PLASMA GENERATOR TORCH UNIT with rustproof option
- IHT PCS1200 Automatic CNC Controlled Motorized Height Control Unit

OPTIONAL EQUIPMENTS

- ERMAK-Biemmeti octet Multi Tool D Station Round 5 mm, 6 mm, 8 mm, 12.7 mm Rectangular 10x5 mm Rectangular 3x14 mm Triangle 14,835 mm, 30 degree Square 10 mm
- Wilson Tool Octet Thick Turret D Station Round 4 mm, 7 mm, 10,5 mm Oval 12x5 mm Rectangular 12x2,5 mm Rectangular 10x5 mm Square 8 mm Triangle 14,835 mm 30 degree
- Adaptor for B, C stations
- 3xB MULTI TOOL station, 1xC SINGLE TOOL station, 10 stationed Multi Tool
- Tools for different punching shapes and forming applications
- Adaptor for Trumpf System
- Additional Clamps
- Coated tools for stainless steel punching
- Mechanic safety for security
- Infrared Cat.4 Light Guard Body Protection confirms CE
- Second user dongle for LANTEK CAD/CAM
- Plasma Application with Rotative Head Punch Press Absolute Servo Synchronic Zero Gap T1, T2 axes
- Special sheet holder clamps for different capacities and thicknesses (after than 6 mm)



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IAXIMUM CAPACITY (Thickness X,Y) AXIMUM PUNCH DIAMETER (MULTI TOOL) AXIMUM PUNCH DIAMETER (Sheet is 1 mm thickness) (SNGLE TOOL) IAACHINE AXES CASIS TRAVEL	mm			
AXIMUM PUNCH DIAMETER (Sheet is 1 mm thickness) (SINGLE TOOL)		6,35x1270x2000		
AACHINE AXES	mm	22		
	mm	Ø 89,9		
a war the the	-	X, Y, C, Z 2000 + Repos.		
AXIS VELOCITY	mm m/min	70		
AXIS TRAVEL	m/min mm	1270		
AXIS VELOCITY	m/min	70		
1, T2 AXES VELOCITY	rpm			
TATION REVOLUTION VELOCITY (C AXIS)	rpm	100		
(+Y DEPENDENT VELOCITY	m/min	99		
MAXIMUM PUNCH STROKE For Nibbling 5 mm Stroke	stroke/min	900		
AAXIMUM PUNCH STROKE Per minute or * 1mm step X Movement, 1 mm step Y axes Movement, 1 mm Sheet thickness	stroke/min	600		
AXIMUM PUNCH STROKE Per minute or * 25 mm step X movement, 25 mm step Y axes Movement, 1 mm sheet thickness	stroke/min	350		
OSITION ACCURACY	mm	0,03		
OSITION TOLERANCE	mm	0,1		
NULTI TOOL CHANGE TIME	sec	12 - 15		
HEET WEIGHT FOR MAXIMUM VELOCITY	kg	25		
NOTOR	KW/	11		
DIL CAPACITY NAXIMUM STROKE	lt	300 40		
HEET CLAMPING	pieces	2		
HEET CLAMPING FORCE	kg	1200		
DPERATOR PANEL		Basch Revroth VSP 16 12" TFT COLOR (htigh Resolutions) TOUCH PWREL SCREEN,		
CONTROLLER		Windows XP, UPS, USB on the panel 2 GH2 CPU, 512 MB RVM, 20 GB HARD DSK Windows XP Professional, VGA: Ethernet (10/100 Baser) 1, 25, Setal Rots, USB, Ph5, 0.25g/Sg Vanations: K/hock resistance, user fremdy and service firently system worldwide service and support. EMC tested, Windows XP Professional		
OSITION CONTROL		LVTD, REXROTH HNC 100		
	XY,C	Rexroth Indradrive		
ERVO AXES	(T1,T2) - RPP	Ecodrive Sercos Interface		
VORKING HEIGHT	mm	1100		
ABLE DIMENSION	mm	2450x4000		
ABLE TYPE	-	stainless with balls		
AACHINE LENGHT	mm	4250		
ACHINE WIDHT	mm	4000		
ACHINE HEIGHT	mm	2330		
HIPMENT DIMENSIONS	mm	2325x4250		
AD/CAM Software LANTEK EXPERT PUNCH nos. software, 1 nos. dongle)	kg license	11000 one license, Postprocessor Automatic Nesting		
OOLING ALTERNATIVES	ERMAK BEMMETI MULTI TOOL 6 nos. (D station)	PUINCH, DIE, STRIPPER Complete (A Station) Round 8, 10, 20 mm, Rectangle 4u20 mm (2 pieces), Square 17x17 mm (1 pieces)		
	ERMAK BIEMWETI THICK TURRET 6 nos. D station	(A Station) Round 8,10,20 mm, Rectangle 4x18 mm (2 nos.), Square 14x14 mm (1 nos.)		
EIGHT CONTROL UNIT (Z AXIS)	-	IHT Automatic PCS 2100 Linear Drive		
PLASMA GENERATOR	-	Kjetberg HiFocus I 60 400 V Stalives Ster CLating Available 25 mm CLating Capacity N/Arti-N/CQ with Plasmatorh Connection Link		
PLASMA GAS	-	Oxygen Argon/Hydrogen/Nytrogen		
WIRL GAS	-	Oxygen Oxygen/Nitrogen Nitrogen Nytrogen/Hydrogen		
TORCH	-	Plasma-machine torch PerCut 160-2 with swirt gas		

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