

CATALOGO 2020

Plasma-Jet TrueCut

World-Class Plasma Cutter System of Kjellberg® and Hypertherm®



Wide variety of equipment packages featuring up to 5-axis cutters

- stand-alone cutter table features rigid steel construction for high load capacity
- stand-alone table eliminates thermal and mechanical influences on the plasma cutter system
- dual-drive bridge
- high-quality linear guides on all axes
- dynamic AC servo drives on all axes with maintenance-free, zero-backlash planetary gears
- low-wear and low-maintenance helical gears are designed for continuous operation
- automatic torch height control
- quick-coupling for cutter head allows quick head exchanges for reduced tooling time
- available with 5-axis cutter head, tube cutter, and many more options
- optimum bed speed even for fine contours and tight radii
- use the existing cutting parameters stored in the control to find the optimum cut

Price on request



Shown with additional „Messer“ oxy-fuel cutter head (optional)



Standard Equipment Hypertherm®

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic burner height control with Hypertherm THC sensor, Cutting torch with magnetic coupling and crash sensor, Hypertherm Edge Connect CNC-Unit, 15" Touchscreen from ELO, Ethercat-E, Laserpointer, Libellula Wizard PRO, Libellula. CAD 2D

Specifications TrueCut

		1530 K	1530 H	2040 K	2040 H	3060 K	3060 H
Working area							
Cutting Width	mm	1.500	1.500	2.000	2.000	3.000	3.000
Cutting length	mm	3.000	3.000	4.000	4.000	6.000	6.000
Table height	mm	700	700	700	700	700	700
Table load capacity	kg/m ²	520	520	520	520	520	520
Rapid feed	mm/min	18.000	18.000	18.000	18.000	18.000	18.000
Weight (without plasma source)	kg	3.100	3.100	4.100	4.100	9.500	9.500
Plasma source		Kjellberg	Hypertherm	Kjellberg	Hypertherm	Kjellberg	Hypertherm
Part No.		144004	144014	144005	144015	144006	144016

Options

Part No.

• Maxpro 200 Plasma source	253406
• XPR 170 Core Plasma source	253407
• XPR 170 VWI Plasma source	253408
• XPR 170 Optimix Plasma source	253409
• XPR 300 Core Plasma source	253410
• XPR 300 VWI Plasma source	253411
• XPR 300 Optimix Plasma source	253412
• Smart Focus 130 Plasmaquelle	253088
• Smart Focus 200 Plasmaquelle	253089
• Smart Focus 300 Plasmaquelle	253090
• Smart Focus 400 Plasmaquelle	253091

Standard Equipment Kjellberg®

Table prepared for filter system (automatic closure control), Eckelmann Servomotors and drivers, Automatic burner height control from Eckelmann, Cutting torch with magnetic coupling and crash sensor, Eckelmann CNC-Unit, 15" Touchscreen from ELO, A-Modul from Beckhoff, Laserpointer, Libellula Wizard PRO, Libellula. CAD 2D

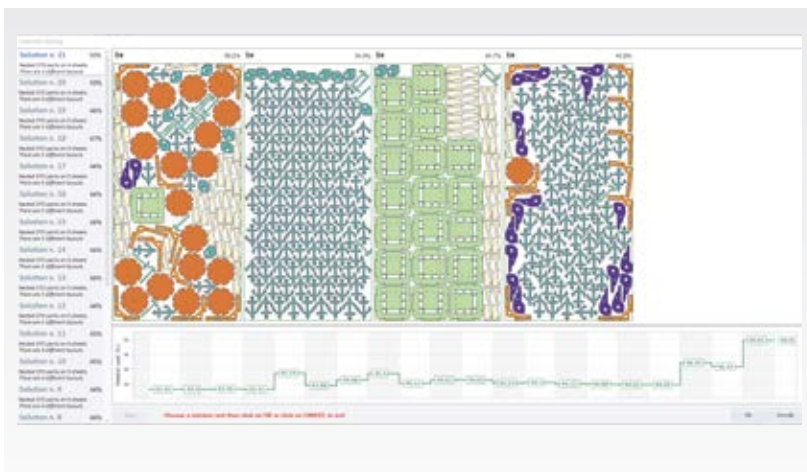
Plasma-Jet Compact

The compact cutting machine of Kjellberg® and Hypertherm®



- The Plasma-Jet TrueCut series set themselves apart from the Plasma-Jet Compact series by a fully integrated machine frame that is connected to the table via a bottom plate, so the machine can be transported in one piece and requires minimum space
- If small plasma sources (e.g. Powermax) are used, they also are stored on a shelf inside the frame
- The standard equipment includes the same high-quality components as the larger series: dual-drive bridge, high-quality linear guides, dynamic AC servo-drives, helical gears, automatic torch height control, magnetic cutter head holder serving as collision guard, optimum cutting data preset in the control.
- These machines provide the same excellent cutting performance as the Plasma-Jet TrueCut series

Price on request



Advanced nesting options with Libellula.CUT



Optimum track speed even for fine contours and tight radii



Panasonic servo motors and EtherCAT network type drives

Standard Equipment Hypertherm®

Table prepared for filter system (automatic closure control), Panasonic Servomotors and drivers, Automatic burner height control with Hypertherm THC sensor, Cutting torch with magnetic coupling and crash sensor, Hypertherm Edge Connect CNC-Unit, 15" Touchscreen from ELO, Ethercat-E, Laserpointer, Libellula Wizard PRO, Libellula.CAD 2D

Standard Equipment Kjellberg®

Table prepared for filter system (automatic closure control), Eckelmann Servomotors and drivers, Automatic burner height control from Eckelmann, Cutting torch with magnetic coupling and crash sensor, Eckelmann CNC-Unit, 15" Touchscreen from ELO, A-Modul from Beckhoff, Laserpointer, Libellula Wizard PRO, Libellula.CAD 2D

Options	Part No.
• Powermax 105 Plasma source	253405
• Maxpro 200 Plasma source	253406
• XPR 170 Core Plasma source	253407
• XPR 170 VWI Plasma source	253408
• XPR 170 Optimix Plasma source	253409
• XPR 300 Core Plasma source	253410
• XPR 300 VWI Plasma source	253411
• XPR 300 Optimix Plasma source	253412
• CutFire 100i Plasma source	253391
• Smart Focus 130 Plasma source	253088
• Smart Focus 200 Plasma source	253089
• Smart Focus 300 Plasma source	253090
• Smart Focus 400 Plasma source	253091

Specifications Compact		1530 K	1530 H	2040 K	2040 H	3060 K	3060 H
Working area							
Cutting Width	mm	1.500	1.500	2.000	2.000	3.000	3.000
Cutting length	mm	3.000	3.000	4.000	4.000	6.000	6.000
Table height	mm	600	600	600	600	600	600
Table load capacity	kg/m ²	410	410	410	410	410	410
Rapid feed	mm/min	18.000	18.000	18.000	18.000	18.000	18.000
Weight (without plasma source)	kg	2.250	2.250	3.550	3.550	8.000	8.000
Plasma source		Kjellberg	Hypertherm	Kjellberg	Hypertherm	Kjellberg	Hypertherm
Part No.		144001	144011	144002	144012	144003	144013

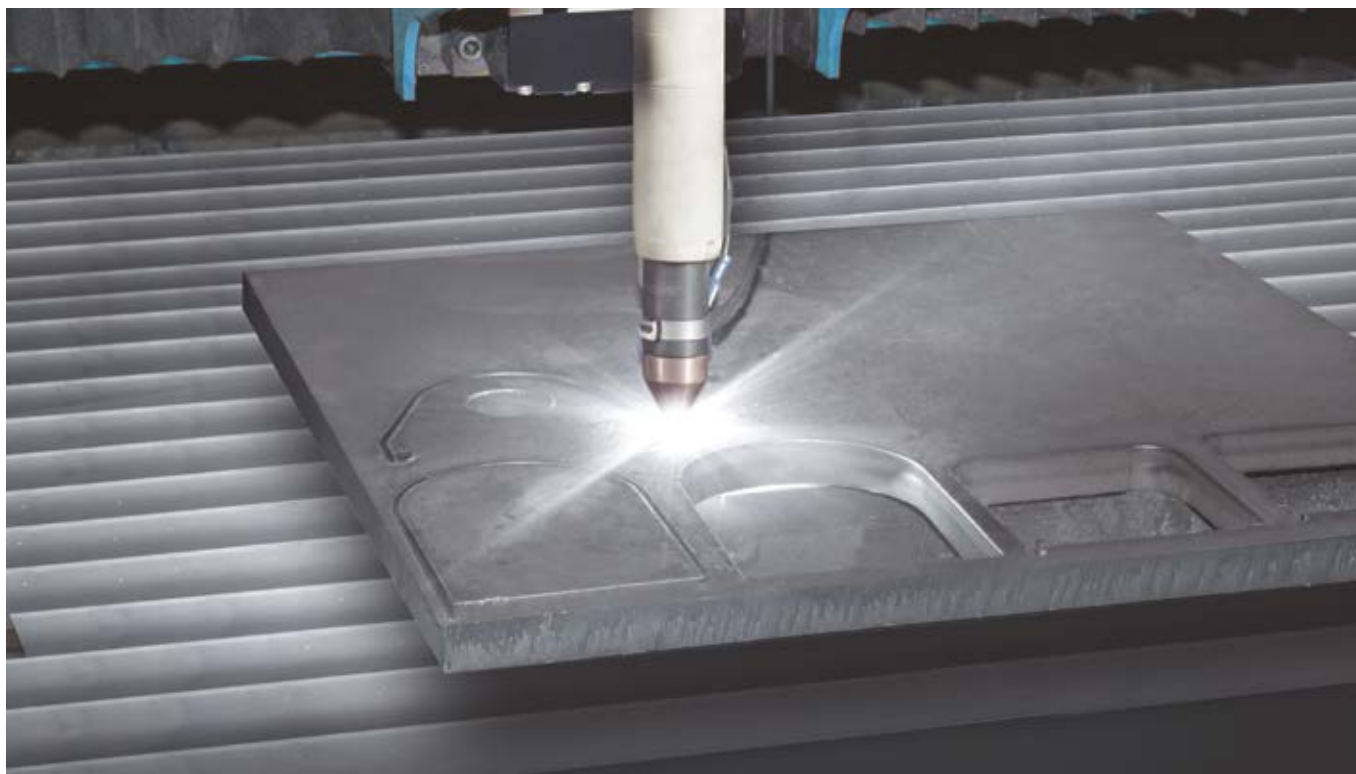
Plasma-Jet Air Pro

Low-cost plasma cutter alternative with Hypertherm® and Kjellberg® technology



- Compact design with guides integrated into the table frame
- Plasma cutting system for personal use providing high value at a lost cost
- Careful selection of the optimum components ensures that the same cutting functionality is available as in large plasma cutting systems
- Machine can be moved and transported in its fully assembled state
- The drives on both sides of the machine bridge and the drive of the X-slide along the machine bridge are carried out in a permanently precise manner by helical rack and pinion.
- The machine has a segment-wise suction of the working surface, whereby the respective suction flap is opened mechanically by the machine bridge passing.
- The distance between plasma cutting nozzle and plate surface is maintained by the Z axis height control; height control is regulated by an electric arc
- Plasma cutter head with collision guard

Price on request



In plasma cutting, the electric arc between electrode and workpiece is constricted by a cutting nozzle so that a plasma beam of high energy density is generated as an effective cutting tool for metals.

Standard Equipment Hypertherm®

Table prepared for filter system (mechanical closure), Panasonic Servomotors and drivers, Automatic burner height control with Hypertherm THC sensor, Cutting torch with magnetic coupling and crash sensor, Hypertherm Edge Connect CNC-Unit, 15" Touchscreen from ELO, Ethercat-E, Laserpointer, Libellula Wizard PRO, Libellula. CAD 2D

Standard Equipment Kjellberg®

Table prepared for filter system (automatic closure control), Eckelmann Servomotors and drivers, Automatic burner height control from Eckelmann, Cutting torch with magnetic coupling and crash sensor, Eckelmann CNC-Unit, 15" Touchscreen from ELO, A-Modul from Beckhoff, Laserpointer, Libellula Wizard PRO, Libellula. CAD 2D



New software feature, improved hardware, and integrated Hypertherm® cutting technology

Options

	Part No.
• Powermax 105 Plasma source	253405
• CutFire 100i plasma source	253391

For additional options for this machine, visit our website

Specifications Air Pro

		1530 K	1530 H
Working area			
Cutting Width	mm	1.550	1.550
Cutting length	mm	3.050	3.050
Table height	mm	600	600
Table load capacity	kg/m ²	345	345
Rapid feed	mm/min	15.000	15.000
Weight (without plasma source)	kg	1.700	1.700
Plasma source		Kjellberg	Hypertherm
Part No.		144000	144010

Hypertherm® Plasma Source

These plasma sources fulfill all the needs of a powerful, heavy-duty plasma cutting system - they are simple, reliable and unbelievably productive

- Superior cut quality and durability
- Maximized productivity
- Minimized operating cost
- Unsurpassed process flexibility



XPR300™

Unmatched performance and low operating cost

The new XPR300™ is known for its superior X-Definition™ cutting quality in plain carbon steel, steel alloys, and aluminum. Its much higher cutting speed leads to drastically increased productivity, while operating cost are reduced by more than 50%.

3 Gas Console Designs:

- Core™ Console
- Vented Water Injection™ (VWI) Console
- OptiMix™ Console (incl. patent-pending Vented Water Injection™ (VWI) technology)

Plasma Source		105	MaxPro200	XPR 170	XPR300™*
Cutting capacity in plain carbon steel					
Virtually burr-free	mm	-	20	-	-
Hole cutting capacity in production	mm	16/22	32	40	45
Cut-off (edge-start)	mm	25/38	50	60	80
Cutting capacity in steel alloy					
Hole cutting capacity in production	mm	-	25	22	38
Cut-off (edge-start)	mm	-	50	38	75

* with OptiMix™ Console



EDGE® Connect CNC System

- The optimum control for any requirements
- CNC Software Phoenix® Version 10
- New software functions, improved hardware, and integrated Hypertherm® cutting expertise
Easy to operate, absolutely reliable and powerful
- With the CutPro Wizard, even new users can cut high-quality parts in less than five minutes without training.



Plasma cutting from 1 to 100 mm

The Smart Focus series features a compact design and requires only few settings to achieve excellent cutting results – even under the most demanding conditions

All systems of the Smart Focus series feature the tried-and-tested Contour Cut technology for structural steel cutting.

Small contours, narrow lands and holes with a diameter/material thickness ratio of 1:1 can be cut with superior quality. Using Contour Cut Speed, contours can be cut up to 50% faster

Advantages

- Superior cutting quality (even in stainless steel)
- Tight perpendicularity tolerance
- User-friendly and low maintenance
- Low cutting costs

Specifications*	Smart Focus 130	Smart Focus 200	Smart Focus 300	Smart Focus 400
Power supply				
Cutting current	35 - 130 A	35 - 200 A	35 - 300 A	35 - 400 A
Marking current	10 - 50 A	10 - 50 A	10 - 50 A	10 - 50 A
Cycle time	100%	100%	100%	100%
Cutting capacity				
Maximum	40 mm	60 mm	80 mm	100 mm
Recommended	1 - 32 mm	1 - 40 mm	1 - 60 mm	1 - 70 mm / stainless steel 70 mm/ structural steel 60 mm
Plunge-cut	25 mm	30 mm	40 mm	50 mm
Plasma gases	O ₂ , Ar/H ₂ , N ₂ , air	O ₂ , Ar/H ₂ , N ₂ , air	O ₂ , Ar/H ₂ , N ₂ , air	O ₂ , Ar/H ₂ , N ₂ , air
Marking gases	Ar, N ₂	Ar, N ₂	Ar, N ₂	Ar, N ₂
Overall dimensions (L x W x H)	1030 x 570 x 1260 mm	1030 x 680 x 1450 mm	1030 x 680 x 1450 mm	1030 x 680 x 1450 mm
Weight	266 kg	388 kg	488 kg	563 kg

Nel mondo della macchine utensili la **Mekhan Group** ha l'obiettivo di fornire un servizio migliore e attento alle esigenze dei clienti italiani della Knuth. Essa è costituita da due realtà: la **Mekhan srl**, distributore unico ed esclusivo della Knuth in Italia, alla quale si affianca la **Mekhan Service** con l'obiettivo di fornire il migliore servizio di assistenza ai propri clienti.

La Mekhan nasce con l'intento di offrire un servizio d'eccellenza al cliente italiano mantenendo un filo diretto con la casa made Knuth in Germania, la nostra presenza sarà in grado di garantire un servizio plasmato sulle necessità del mercato italiano associato alla solidità della tradizione tedesca.

La nostra azienda mira a soddisfare i diversi bisogni dei nostri clienti.

Attraverso la **Mekhan srl** si garantiscono

■ *Supporto e affiancamento durante la vendita*

Un team di esperti sempre a disposizione per rispondere alle richieste più svariate e per consigliare la soluzione ideale per ogni tipo di esigenza.

Se ve ne fosse la necessità si offre anche la possibilità di provare i macchinari prima dell'acquisto.

■ *Fornitura pezzi di ricambio*

All'occorrenza verranno forniti pezzi di ricambio originali Knuth. La gestione diretta delle operazioni in Italia effettuata dalla Mekhan ridurrà notevolmente tempi e costi di approvvigionamento.

Attraverso la **Mekhan Service** si garantisce

■ *Supporto tecnico*

Lo staff Mekhan Service è specializzato per garantire e assicurare supporto tecnico continuo nella risoluzione di eventuali problemi che dovessero intervenire. Si garantisce in special modo:

- Assistenza per avviamento e settaggio macchina
- Corsi di formazione o aggiornamento
- Assistenza continua
- Interventi di manutenzione preventiva

Fra le varie offerte vi è anche la possibilità di poter scegliere fra diversi pacchetti di assistenza. Così come sarà possibile stabilire con il cliente le modalità e la frequenza degli interventi da effettuare presso le proprie officine al fine di garantire un perfetto e continuo funzionamento dei macchinari acquistati e installati. La corretta manutenzione periodica consente di prevenire malfunzionamenti e rotture gravi che comporterebbero lo stop della macchina.

Sicuri che quanto proposto e sinteticamente illustrato porterà ad un perfezionamento di quanto già fatto in precedenza, siamo pronti a scommettere che il nostro rapporto commerciale ne gioverà ampiamente.

