

TECHNOLOGY PACKAGES



PierceTec: The solution for fast, clean and reproducible piercing.



CoolTec: Ideal for permanent stable cutting of thick mild steel - due to direct water cooling of the sheet.

TECHNOLOGY PACKAGE PIERCETEC – AUTOMATED PIERCING

PierceTec ensures fast, clean and reproducible piercing. The basis for this is an integrated sensor and a full automatic real-time control of the laser power. Typical annoyances are a thing of the past: With PierceTec, the customer enjoys short piercing times even in thick materials, consistent hole quality and high process reliability. In addition, PierceTec protects the usual wear parts – in particular the protective window on the process side and the nozzle. The occurrence of smoke and splashes is minimized. Furthermore, PierceTec monitors the subsequent cutting process and reliably detects interruptions. In short: PierceTec saves cycle time and operation costs – while increasing the performance and quality of the piercing process.

CUSTOMER BENEFIT

- reliable piercing process, even in continuous operation
- high time savings compared to conventional piercing
- increased service life of wearing parts and machine bed
- reliable detection of cut interruption
- » increased operational safety
- » increased productivity
- » lower operation costs
- » lower waste

INTEGRATION POSSIBILITIES

as integrated sensor in the laser

All-In-Light complete solution



as a fully integrated sensor in the cutting head

ProCutter 2.0



ProCutter Zoom 2.0



The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information.

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PROCUTTER 2.0 THE BEST – MADE EVEN BETTER

PRECITEC THE SMART WAY TO LASER





GENERAL EQUIPMENT FEATURES

- ADJUSTMENT OF FOCAL POSITION:
fully motorized via machine control
- FOCUSING LENS:
X/Y adjustment | no repositioning
after changing necessary | additional
protective window below focusing lens
- PROTECTIVE WINDOW CARTRIDGE :
to protect the optics against dirt and
fume | monitoring of attendance and
contamination | tool less, easy change
- LED BAR:
for immediate display of the current
system state (pressure, temperature,
drive, contamination)
- DISTANCE MEASUREMENT:
fast, precise, drift-free distance
measurement at any operating
temperatures, even at high
accelerations
- EXTERNAL INTERFACE:
Output of all sensor data to APP or
machine control | readout the values
via WLAN | setting of thresholds

PROCUTTER 2.0 – THE BEST – MADE EVEN BETTER

The new ProCutter 2.0 generation impresses with its increased performance and new automation features. Faster, easier, more efficient, more enduring – this is how laser cutting is shaping up in the new generation, due to numerous developments. One of the main reasons for this is the completely redesigned cutting gas flow. In addition, the reliability and power capability has been perfected – up to the maximum laser power of 15 kW. By default, the ability to exchange the nozzles automatically is now provided. The compact design is maintained, together with the extensive sensor technology, which has been specifically expanded to ensure even safer operation.

PROCUTTER ZOOM 2.0 – A DREAM COME TRUE

The new ProCutter Zoom 2.0 is the ultimate all-round cutting head. Due to its maximum laser power of 12 kW and the magnification of 1.2 to 4.0, it generates the perfect beam for all materials in all thicknesses. In combination with the complete redesigned cutting gas flow, outstanding cutting results are achieved – both in terms of quality and speed. In addition, the two technology packages PierceTec and CoolTec are available as an option, allowing you to benefit from automatic piercing and permanent stable mild steel cutting. In short: The ProCutter Zoom 2.0 offers maximum and flexible performance in the smallest spaces.



TECHNICAL SPECIFICATIONS OF PROCUTTER 2.0 PROCUTTER ZOOM 2.0

max. laser power	8 kW (1030 – 1090 nm)	15 kW (1030 – 1090 nm)	12 kW (1030 – 1090 nm)
focal length collimation	100 mm	100 mm	
focal lengths	125, 150, 175, 200 mm	150, 200 mm	
NA _{max}	0.13	0.13	0.13
Zoom steps			1.2 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0
dimension (WxD)	96 x 134 mm	96 x 134 mm	126 x 133 mm
axial length	313 mm (FF125)	363 mm (FF150-QBH, D)	446 mm (QBH, D)
weight	4.2 kg (FF125)	4.9 kg (FF150)	7.6 kg (QBH, D)
vertical adjustment range	+6/-9 mm (FF125) +15/-20 mm (FF200)	+10/-16 mm (FF150) +15/-30 mm (FF200)	+15 /-30 mm