



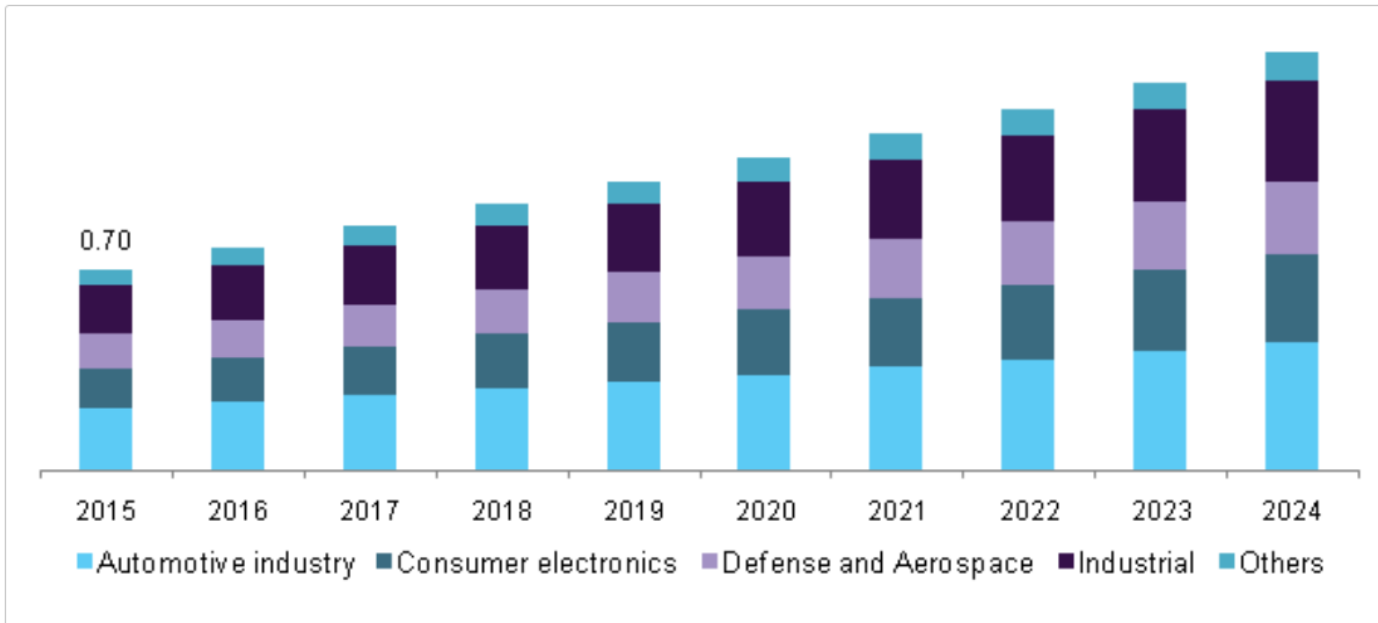
## **Laser Cutting -**

**How to meet challenges today and be prepared for the future**

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Dr. Rene Siebert

# WHY LASER CUTTING?

Europe laser cutting machine market, by application, 2015 - 2024 (USD Billion)



<https://www.grandviewresearch.com/industry-analysis/laser-cutting-machine-market>

## What is the laser cutting machine market growth?

The global laser cutting machine market is expected to grow at a compound annual growth rate of 9.1% from 2017 to 2024 to reach USD 6.7 billion by 2024.

## How big is the laser cutting machine market?

The global laser cutting machine market size was estimated at USD 4.5 billion in 2019 and is expected to reach USD 4.9 billion in 2020.

## Which segment accounted for the largest laser cutting machine market share?

Asia Pacific dominated the laser cutting machine market with a share of 32.6% in 2019. This is attributable to the presence of robust economies such as China, India, and Japan.

# PRODUCT PORTFOLIO EXCERPT

AN OVERVIEW OF OUR PRODUCTS



## FineCutter

up to 0.5kW  
+camera  
2D or 3D



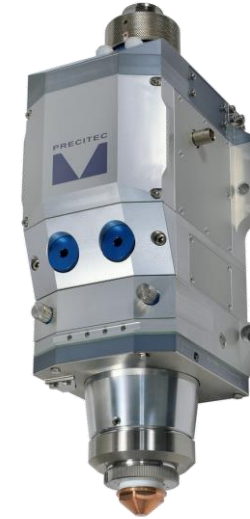
## MiniCutter

up to 2kW  
2D or 3D



## LightCutter 2.0

up to 6kW  
motorized  
2D or 3D



## ProCutter 2.0

up to 30 kW  
motorized  
PierceTec (optionally)

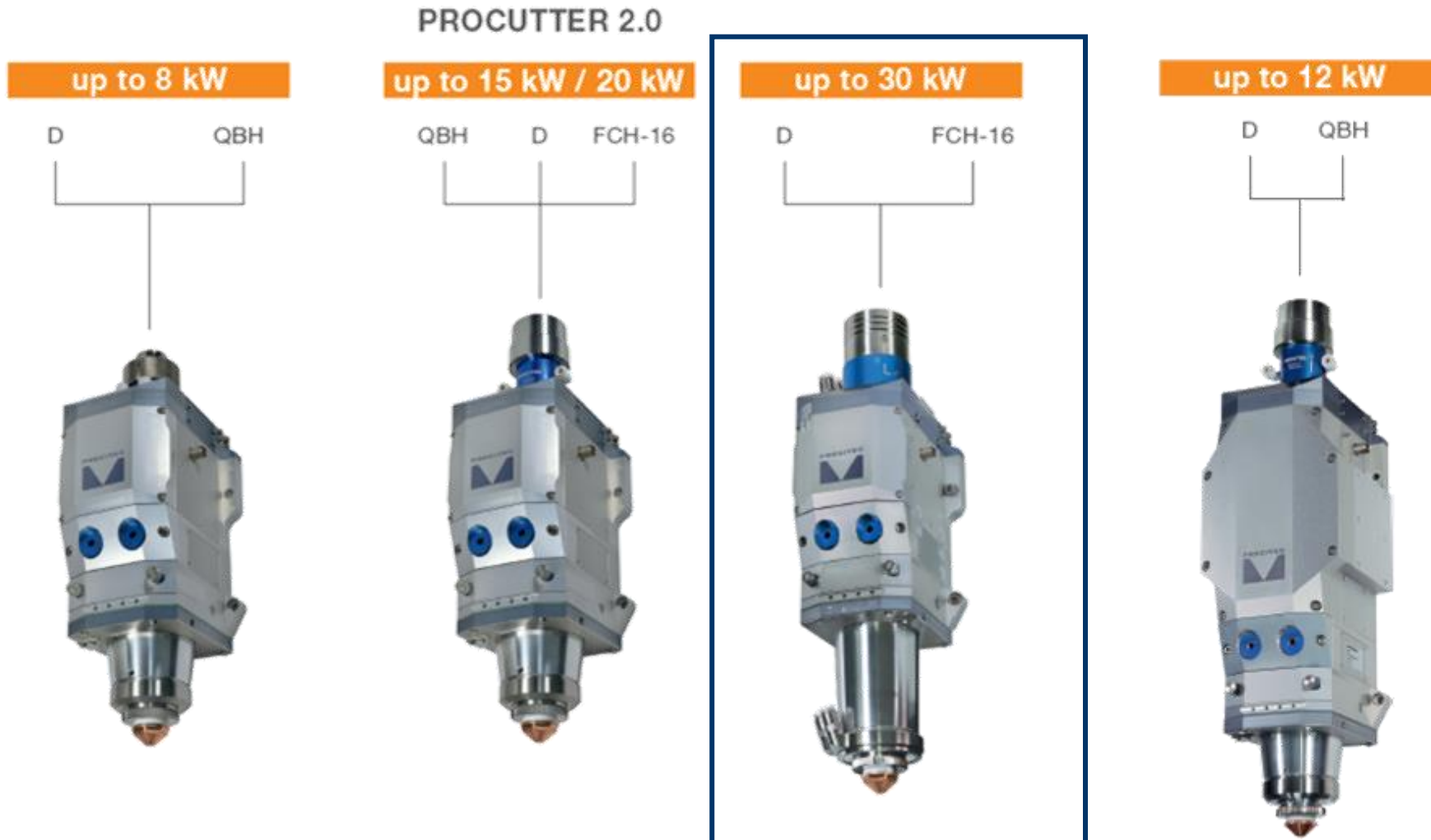


## ProCutter Zoom 2.0

up to 12 kW  
motorized  
PierceTec (optionally)

# PRODUCT PORTFOLIO EXCERPT

## PROCUTTER 2.0 FAMILY



# PROCUTTER 2.0 30 KW

POWER UPGRADE AND NEW FEATURE

 PRECITEC

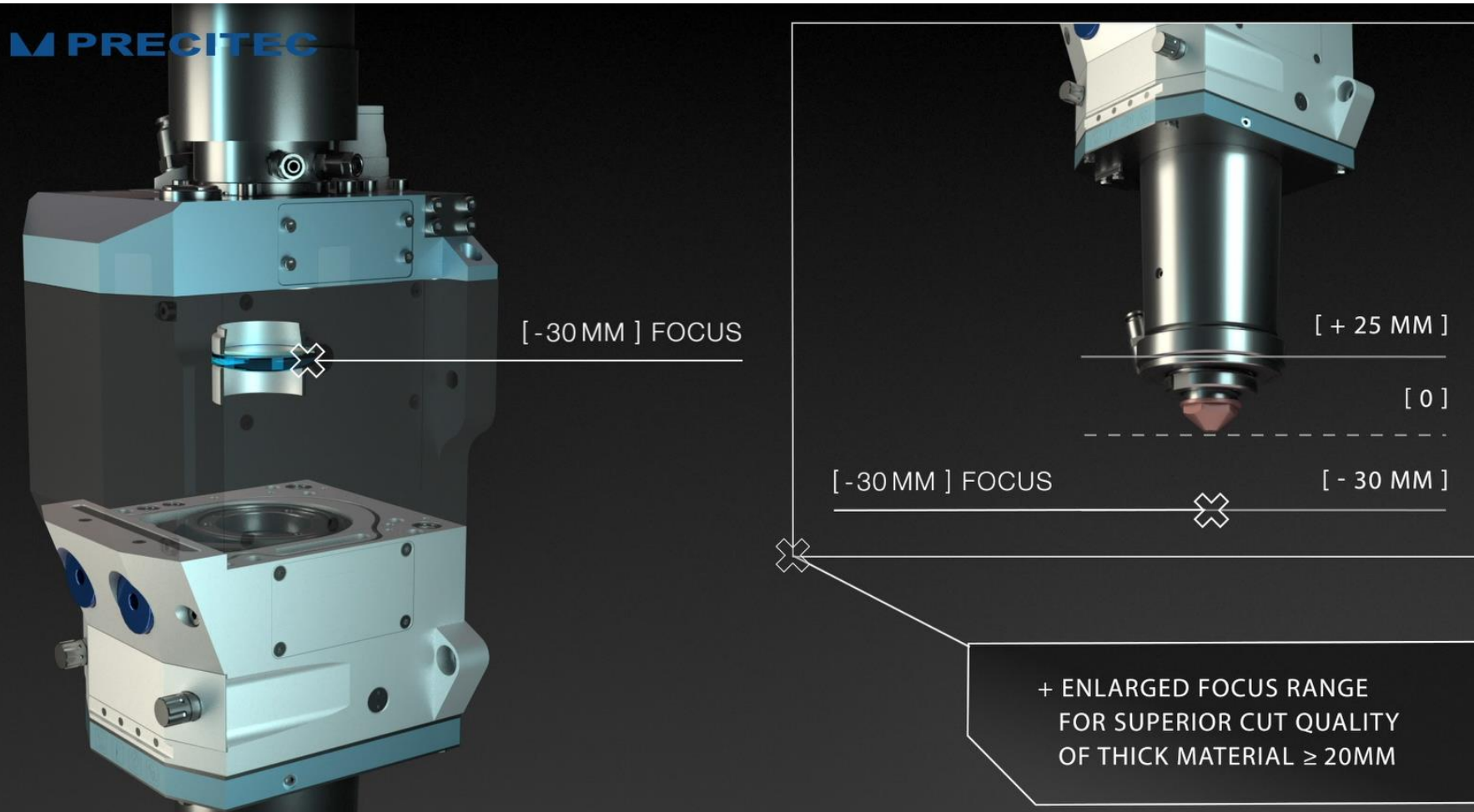


+ PROCUTTER 2.0  
**30 KW**

- + LARGER FOCAL RANGE
- + LOW FOCUS SHIFT
- + ADDITIONAL WATER COOLING
- + MADE FOR 24/7 OPERATION

# PROCUTTER 2.0 30 KW

LARGER FOCAL RANGE

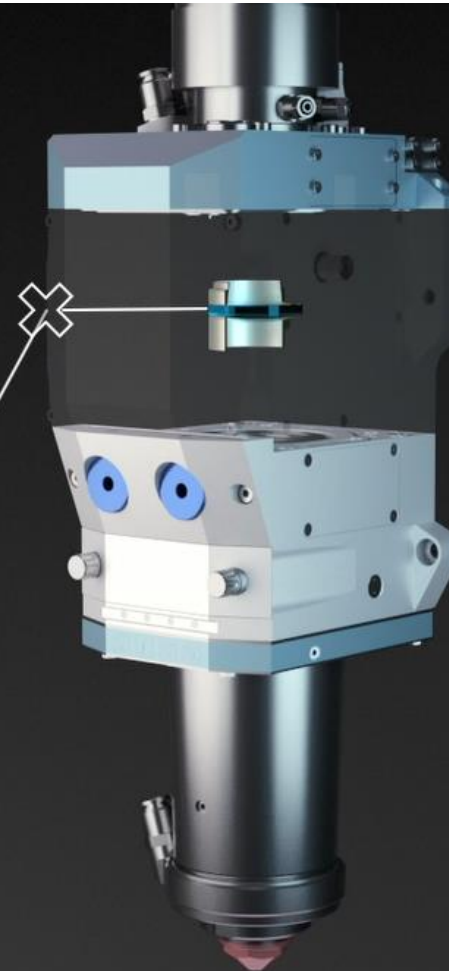


# PROCUTTER 2.0 30 KW

LARGER FOCAL RANGE

 PRECITEC

- + HIGHLY DYNAMIC DRIVE FOR FOCUS ADJUSTMENT
- + SUPER FAST PIERCING
- + MINIMUM IDLE TIME BETWEEN PIERCING AND CUTTING

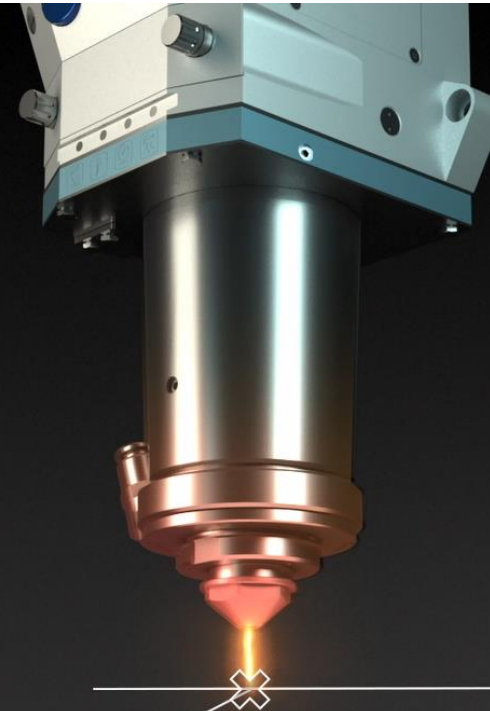
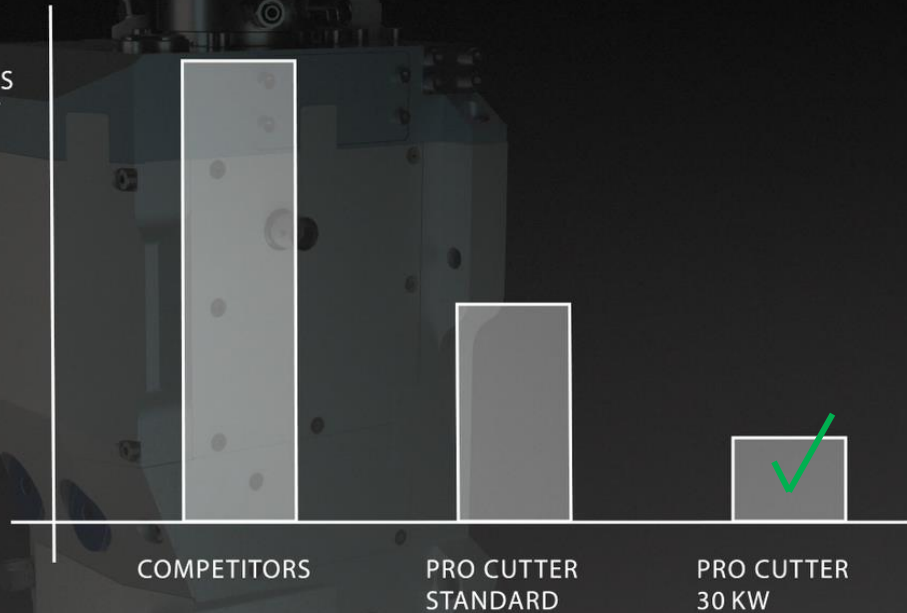


# PROCUTTER 2.0 30 KW

## LOW FOCUS SHIFT

PRECITEC

FOCUS  
SHIFT



[ FOCUS ]

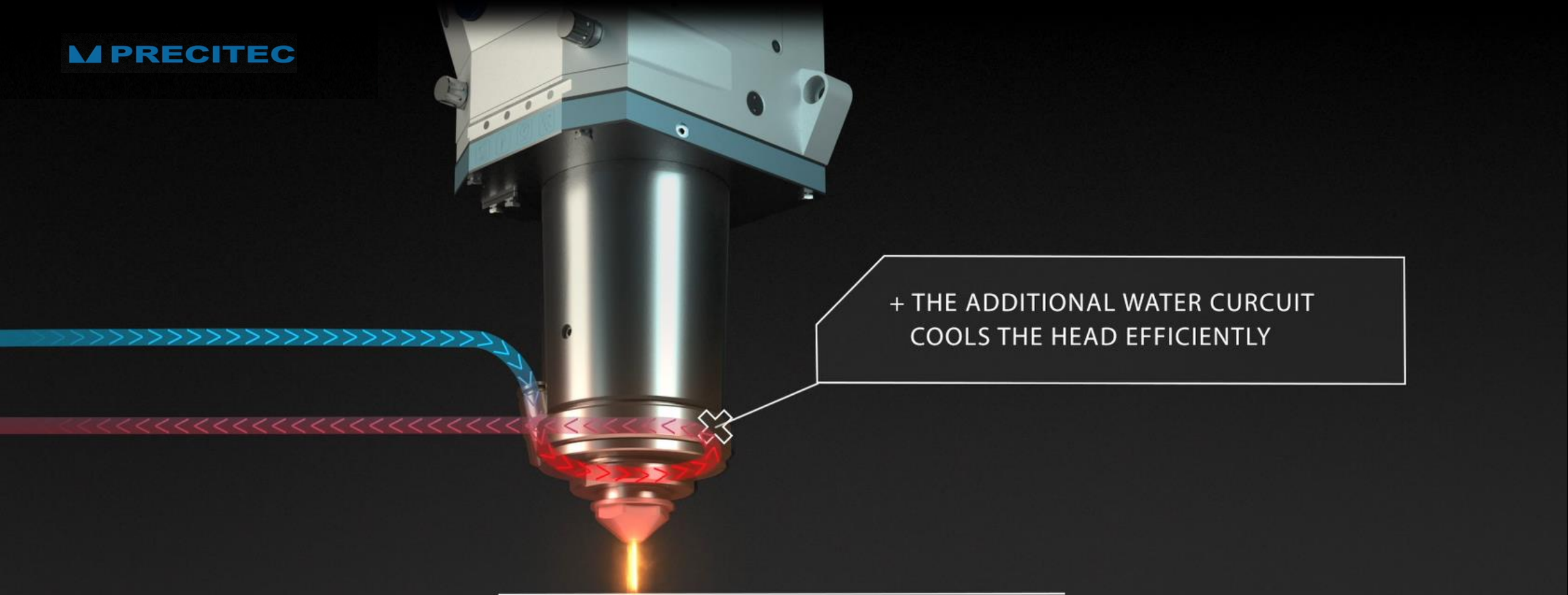
+ 1<sup>ST</sup> CUTTING OPTIC WORLDWIDE  
THAT CAN HANDLE **30 KW**  
IN 24/7 OPERATION



# PROCUTTER 2.0 30 KW

ADDITIONAL WATER COOLING

 PRECITEC

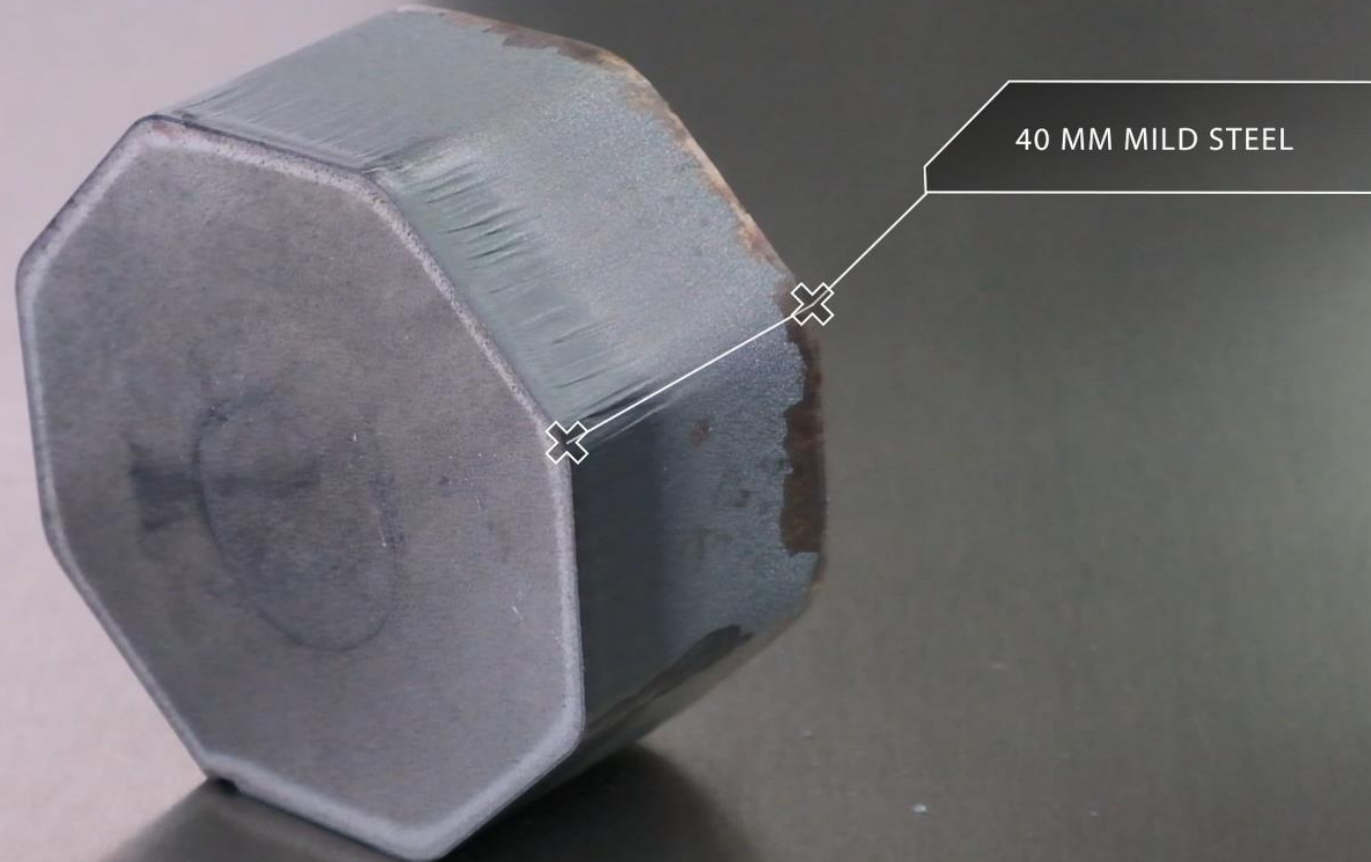


+ THE ADDITIONAL WATER CURCUIT  
COOLS THE HEAD EFFICIENTLY

# PROCUTTER 2.0 30 KW

MADE FOR 24/7 OPERATION

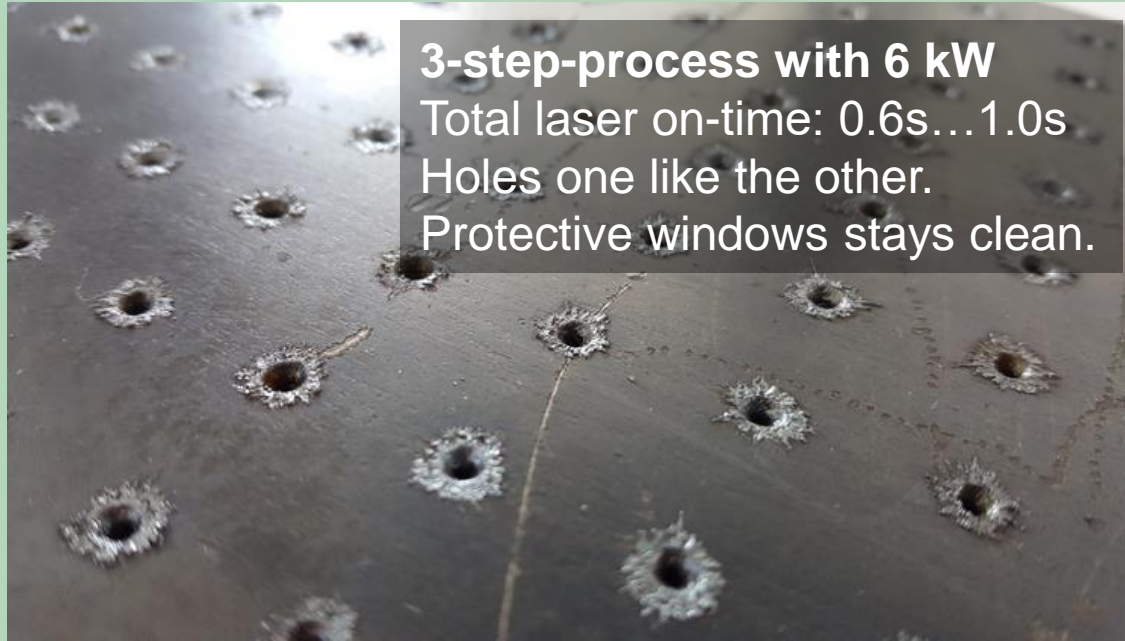
**M PRECITEC**



# PIERCE TEC - REDUCED TO THE ESSENTIAL

Mild steel 20mm

With  
PierceTec









Step	#1	#2	#3
Noz. Dist.	20 mm	10 mm	4 mm
Foc. Pos.	-6 mm	-8 mm	-2 mm
Zoom	2.0x	2.0x	3.0x







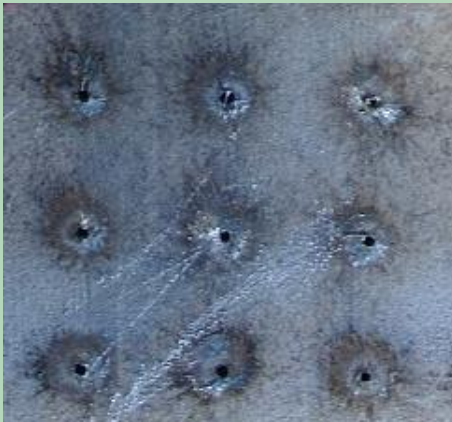
Without  
PierceTec



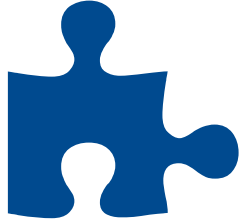
# PIERCE TEC - REDUCED TO THE ESSENTIAL

	Mild steel 10mm	Mild steel 15mm	Mild steel 20mm
With PierceTec			
Without PierceTec			

# PIERCE TEC - REDUCED TO THE ESSENTIAL

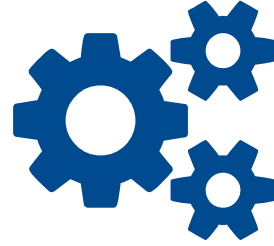
	Stainless steel 10mm	Stainless steel 15mm	Stainless steel 20mm	Aluminum 15mm
<p>With PierceTec</p> <p><math>N_2</math> - 1 stage</p>				
<p>With PierceTec</p> <p><math>O_2/N_2</math> - 2 stages</p>				

# BENEFITS & FEATURES OF PIERCE TEC



## Features:

- Controlled piercing process
- Detection of cut interruption
- Compatible with any laser



## Benefits for OEM:



Increased machine productivity



Saves time during parameter development



Saves time for machine commissioning



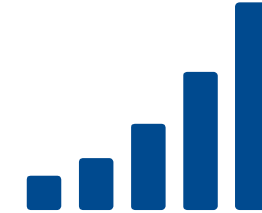
Enlarged process window



Easy to integrate



Saves life time of PW



## Benefits for End-user:



Reliable and fast piercing



Less operator intervention needed



Small holes, clean surface lowers finishing labour



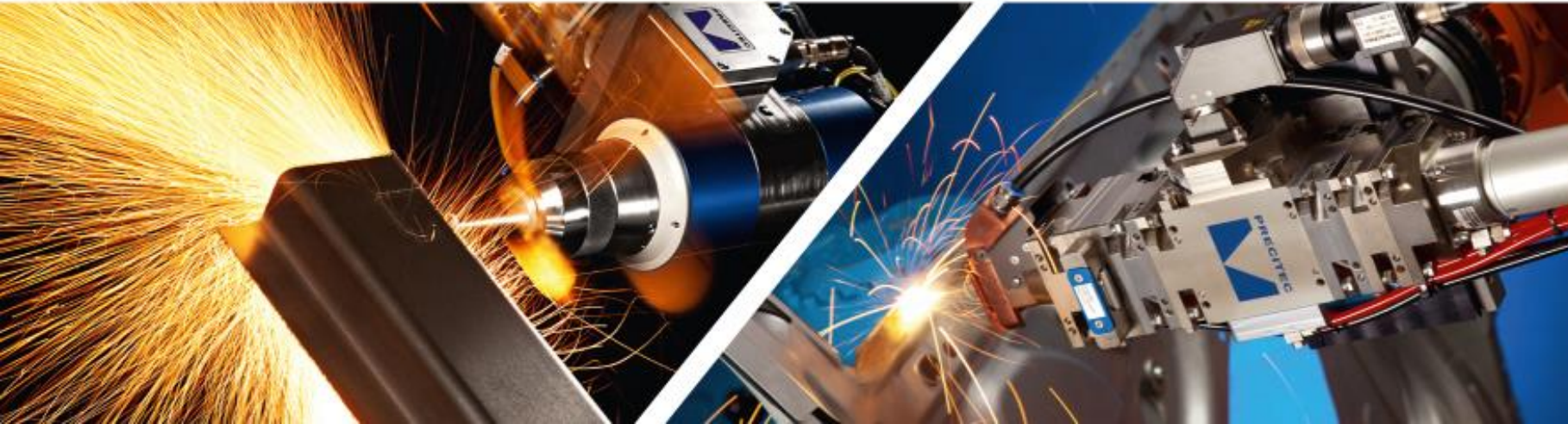
Automatically adapts to varying metal alloys



“Pierce your sheet, not your machine”

# WHAT CAN YOU DO FOR THEM AND WHAT CAN THEY DO FOR YOU

- **We offer the most reliable cutting technology for**
  - flatbed cutting
  - tube cutting
  - robot cutting
  
- **We need**
  - to raise the confidence, that laser cutting is an alternative to plasma cutting
  - more customers



**Any questions?**

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