

SmartLINE  
**NEXT**



Shaping your future

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## Sustainable cutting solutions



Next Level...

... The power to change everything.

### WHY ACCURL LASER CUTTING?

#### Innovative Modular Design:

- < Our machines can also be combined with automation modules to create a complete system for the whole working process
- <Customized solutions at a reasonable price, from basic to high end machine.

#### Experience:

- <33 years of experience and more than 12,000 installed machines.
- <An expert R&D team committed to research the most competitive technology for our customers.

#### More Varied Solutions for Cutting:

- <Sustainability and social responsibility are characteristics of modern companies and add to competitiveness.
- <Comprehensive range of basic tools in stock and modified solutions according to customer needs.

#### ACCURL High Quality Equipment:

- <The critical parts of the Accurl laser machine are manufactured in Germany.
- <We rely on our quality and therefore give our laser cutting machine a 3-year warranty.
- <The IPG Fiber Generator. Power from 1Kw To 30kW.

#### After-Sales Service:

- <Our skilled service team responds to unforeseen production disruptions within 24 hours of contacting us.



# SmartLINE **NEXT**

ACCURL® SmartLINE Packed with a host of easy-to-use features, the SmartLINE is the compact, versatile and productive 2D laser cutting machine for undisputed superior quality results..

The SmartLINE series of laser cutting machines are characterized by [high dynamics](#) and [top quality](#). They achieve a positioning [speed](#) of up to [160m/min](#) and an [acceleration](#) of [2G](#). Each laser cutter is available with a fiber laser source with [power](#) from [1 to 6 kW](#)



**WARRANTY\***  
**3 YEARS**  
**ACCURL**

**DON'T SETTLE  
FOR A STANDARD LASER CUTTING,  
CHOOSE A SUPERCUSTOM!**



Laser cutting.  
The most flexible tool ever.

#### FLEXIBLE

Suitable for a wide range of materials, including highly-reflective metals and high thickness mild steel. Ready for round, square and rectangular tubes.

#### RELIABLE

Fully-tested and reliable thanks to the 11 years of experience with the SmartLINE platform.

#### PROFITABLE

Low operating costs thanks to energy efficiency and reduced maintenance.

#### USER FRIENDLY

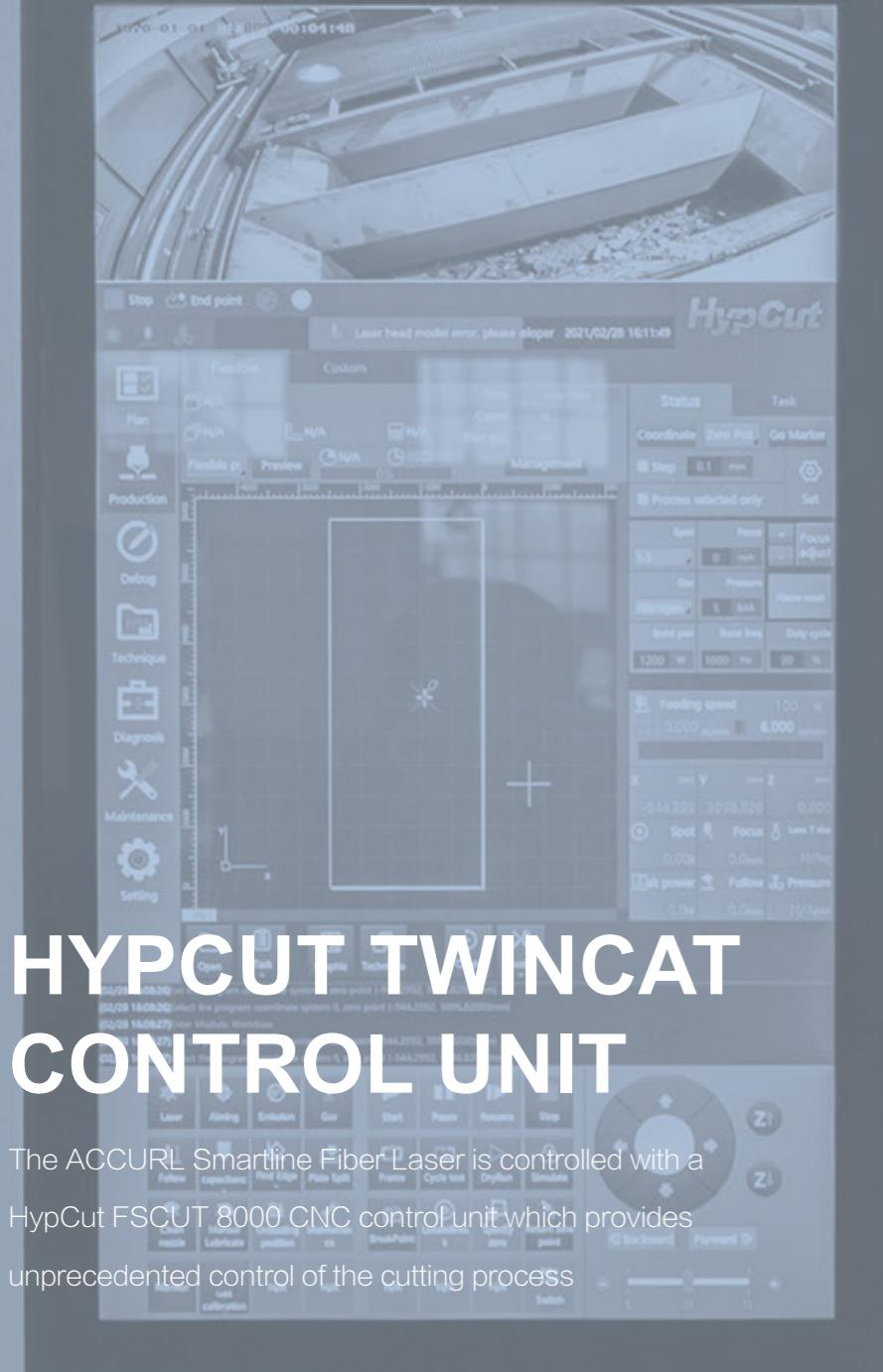
Single focusing lens system with automatic nozzle changer. Easy to use programming software and Prima Power operator interface.

- > HypCut 8000 Control System
- > Precitec Cutting Head lightCutter
- > 6 [kw] Max. Laser Power 1pg
- > YASKAWA Highly Dynamic Servo Drive
- > CAD/CAM Software Nesting. Libellula .cut
- > 2 [g] Max. Acceleration
- > Class IV Safety System And Ce Marking
- > 160 [m/min] Max Positioning Speed
- > 0,1 [mm] Cutting Accuracy
- > 150 [m/min] Max. Cutting Speed
- > 0,03 [m/m] Repeatability
- > Automatic Nozzle Cleaning 2.0
- > Graphite Anti-burn Technology.
- > Industry 4.0 For Twincat IoT



AVAILABLE  
FEATURES  
AND OPTIONS





## HYPCUT TWINCAT CONTROL UNIT

The ACCURL Smartline Fiber Laser is controlled with a HypCut FSCUT 8000 CNC control unit which provides unprecedented control of the cutting process

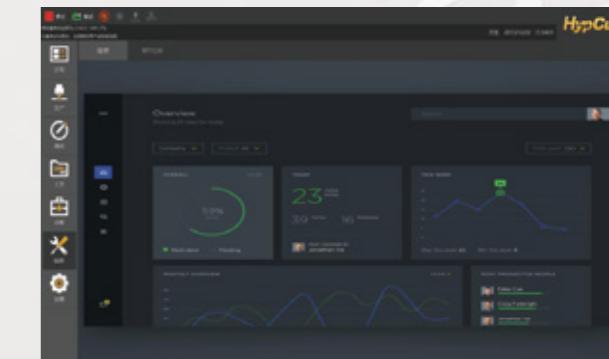
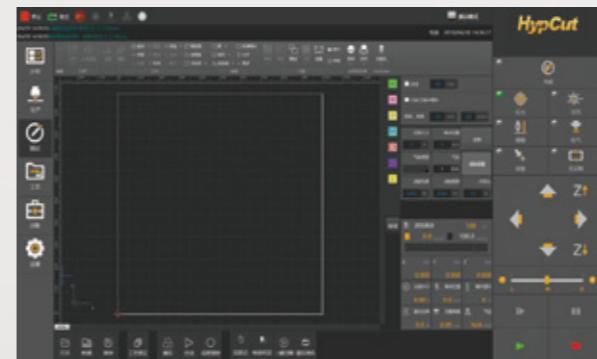
### ADVANTAGE

- › 17" high resolution colour TFT
- › High-speed EtherCAT communication
- › TwinCAT: software for engineering and runtime
- › Highly dynamic servo drive technology
- › Integrated retention brake control.
- › Automatic adaptation of parameters.
- › Adjustable error reaction.



### SUCCESSFULLY CONTROLLING PRECISION

HypCut CNC controllers are used in laser cutting machine and the TwinCAT NC I/CNC automation software is ideally suited for application-specific functions, including adaptive jet control, reverse travel or path resetting.



### SUCCESSFULLY CONTROLLING PRECISION

ACCURL® advocated its own new IoT technology as “Intelligent Internet of things factory”, termed the “Smart-Factory”.



# THE WORLD OF SHEET PROCESSING



## ROBUST CONSTRUCTION

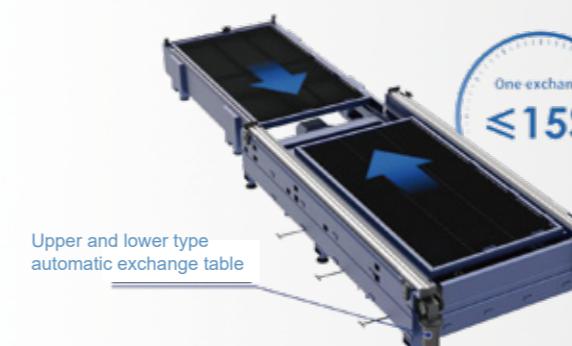
ACCURL steel frames undergo annealing at over 600° to relieve stress and they are built to last years of heavy use without distortion.

### ADVANTAGE

- › Very stiff and stable base frame
- › Electric welding of high precision
- › Deformation simulation made by CAE
- › Usage of high-tech boring machines for extreme
- › Stress points analysis
- › precision parts.

### FULLY ANNEALED FRAME

Semi-hollow bed design, small heating area. The rear frame is more stable for better bearing capacity. To avoid deformation of the bed due to long-term high temperature, it provides a strong guarantee for users to achieve long-term batch and stable cutting of thick plates.



### Motorized-AUTOMATIC EXCHANGE TABLE

Independent developed of high and low exchange table, simple and clever structure design, complete one exchange <15 seconds, efficient and save labor costs. The front of the motor is safe and anti-collision.

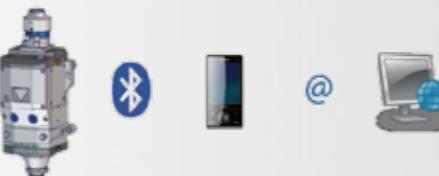
## PRECITEC® LASER CUTTING HEAD

Dynamic laser cutting machines require lightweight, intelligent cutting heads. Even installed in the smallest possible space, the ProCutter offers a fully-integrated sensor system that monitors the cutting process and provides the user with relevant information. The head ensures that each component can be reproducibly manufactured at a high standard of quality.



### CUTTING HEAD PRECITEC PROCUTTER

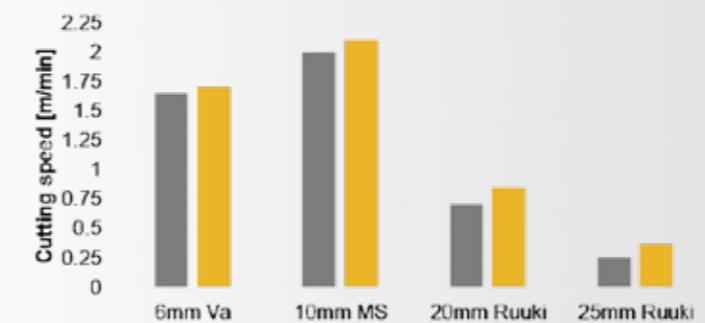
With the new ProCutter 2.0 generation, the highest cutting speeds can be achieved that were previously unthinkable. The cutting head works trouble-free up to 30 kW laser power thanks to its sophisticated cooling concept and the extended travel paths.



● standard

- Maximum stamina!**  
It cuts and cuts and cuts...
- Easy parameter finding!**  
Quality Process window
- Faster & more efficient!**  
Speed Gas efficiency
- More laser-on-time!**  
Save time and costs.

### ProCutter 1.0 vs. ProCutter 2.0



○ optional



# COST SAVINGS FROM OPTIMAL CUTTING QUALITY

ITEMS	SPECIFICATIONS
Fiber Laser Power	1Kw, 1.5Kw, 2Kw, 3Kw, 4Kw, 6Kw
Maximum Capacity	6000x2500mm
Maximum Axis Speed	160m/min, X And Y
Maximum Spontaneous Axis Speed	120m/min, X And Y
Acceleration	2.0G
Positioning	±0.03mm
Repetition Accuracy	±0.02mm
Table Change Time	± 15 Seconds
Monitor	21" Flat Touch Panel
Operating System	BECKHOFF ,HPYCUT 8000
Data Communication	USB, Ethernet LAN



## AUTOMATIC LOADING & UNLOADING SYSTEM SMART-LIFTER

Further automation and flexibility can be achieved by adding one or two sheet storage towers on loading and unloading side. This opens the way to full automatic production.