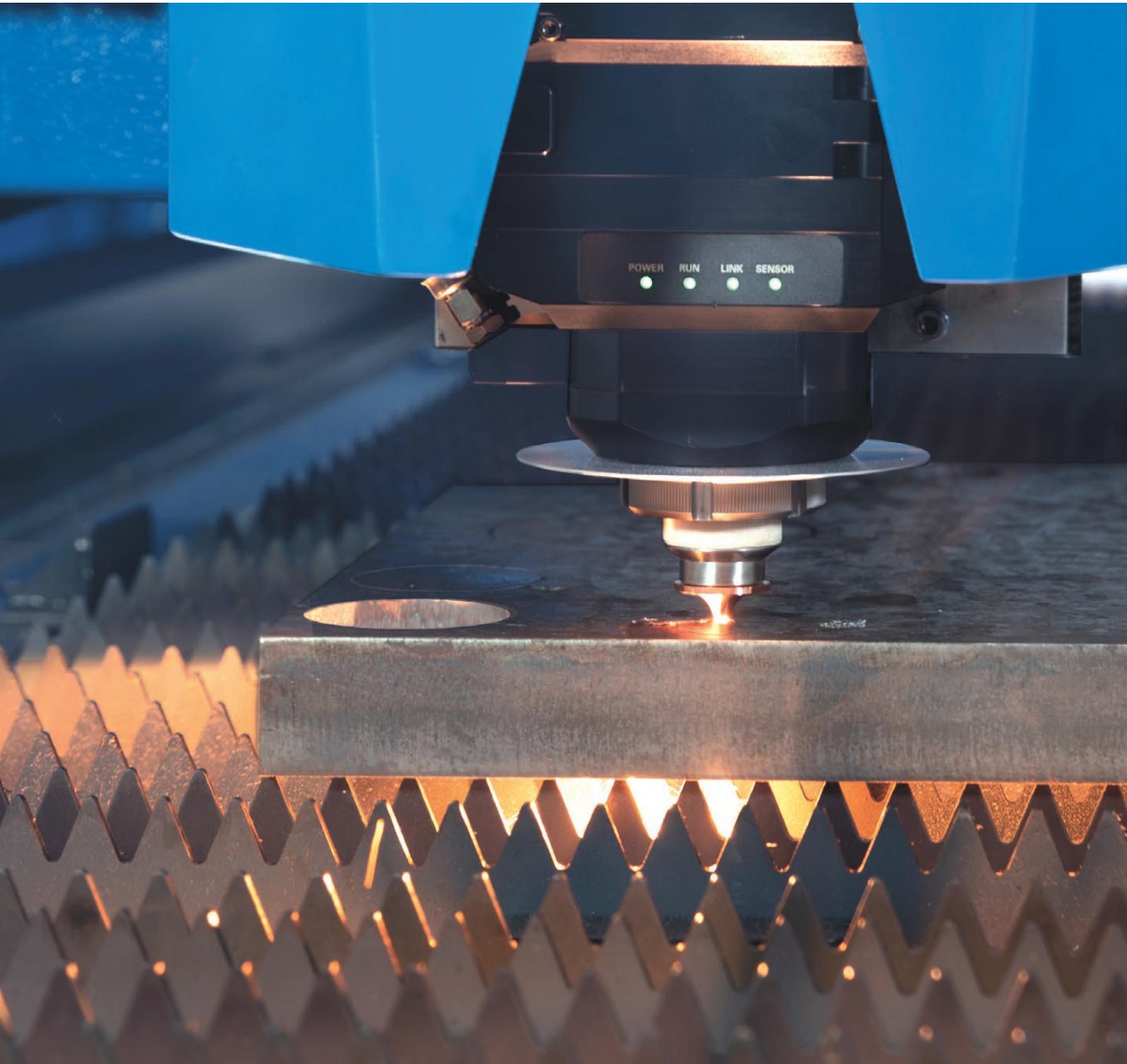




# CUTTING TECHNOLOGIES



## Laser

The right system for you with a beam power of up to 30 kW

## Plasma

Entry and high-tech - powered by Kjellberg + Hypertherm

## Service

Install, train, maintain - worldwide!

# Services

Our qualified service team will gladly assist you with an installation and training for your new machine!  
We put your machine into operation and instruct your employees - worldwide!

## Assembly and Start-up Services

### Start-up Package

- ✓ **Initial Setup**  
Removing transportation locks, assembly of machine components, levelling of the machine tool
- ✓ **Machine Tool Commissioning**  
Filling up operating fluids, conducting machine test run
- ✓ **Operator Training**  
Training on all machine functions and maintenance

### Add-ons

- ✓ **CNC Operator Training**
- ✓ **KNUTH-Protect - Machine Insurance**
- ✓ **First maintenance service**



## Maintenance Services

With our preventive maintenance packages, we make sure your machine remains a reliable cornerstone of your production. In addition to the necessary service jobs according to the KNUTH maintenance schedule for the specific machine, our service technician will also provide you with a detailed service protocol containing a condition rating of your machine tool, results of the accuracy tests, and a proposal for further maintenance and repair jobs.

### Conventional Machines

- ✓ **Testing of machine function**
- ✓ **Testing of safety features**
- ✓ **Geometric accuracy testing**
- ✓ **Checking all maintenance and wear points**
- ✓ **Service protocol**

### CNC Machines

- ✓ **Testing of machine function**
- ✓ **Testing of safety features**
- ✓ **Geometric accuracy testing**
- ✓ **Checking all maintenance and wear points**
- ✓ **Control and software check-up**
- ✓ **Service protocol**

### Cutting Machines

- Testing of machine function**
- Testing of safety features**
- Geometric accuracy testing**
- Checking all maintenance and wear points**
- Control and software check-up**
- Pump / laser source / plasma source check-up**
- Service protocol**

## Spare Parts

In case of unforeseen emergency situations, you will always have a KNUTH Machine Service available. Our Spare Parts Department at our headquarters in Wasbek keeps more than 10.000 parts in stock at all times.

The KNUTH Service Help Desk is at your side with advice and solutions. They offer technical support by phone or upon agreement in person at your site. Just give us a call or send us an e-mail.

**KNUTH Technical Service Help Desk**

Tel. +49 4321 609-263 / -273  
E-Mail [service@knuth.de](mailto:service@knuth.de)

**KNUTH Spare Parts Service**

Tel. +49 4321 609-258 / -265  
E-Mail [ersatzteile@knuth.de](mailto:ersatzteile@knuth.de)



# Cutting Machines

## **Laser Cutting Machines**

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# Laser Cutting System

## ACE Laser PRO Series

NEW



Complete system with CNC (FSCUT8000)

**High-power fiber laser cutting system with shuttle table, wide machining and performance spectrum, gas console and filtered vacuum system**

- High cutting power with 12 to 30 kW laser sources
- Robust design with premium components
- Complete cutting package with filtered vacuum system
- Comprehensive KNUTH Service: setup, commissioning, and maintenance

### STANDARD EQUIPMENT

- ✓ Complete system with CNC control (FSCUT8000)
- ✓ Hypecut CAD/CAM Software,
- ✓ CypNest offline software
- ✓ Ytterbium Faserlaser Raycus
- ✓ BOCI BLT 6 generation autofocus cutting head
- ✓ Filter suction system
- ✓ Laser safety cabin
- ✓ Automatic shuttle table system
- ✓ Centralised lubrication
- ✓ Cooling water cooler
- ✓ Operator instructions

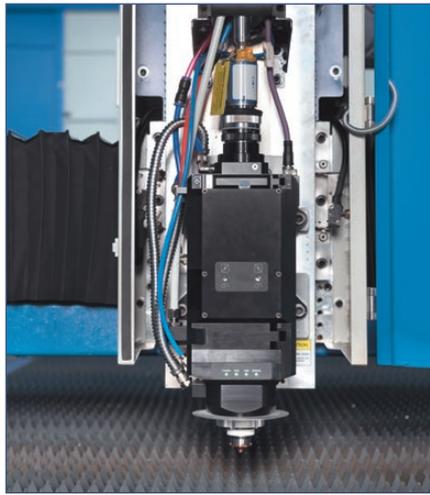
### OPTIONAL EQUIPMENT

- Starter set mild steel 587600
- Starter set stainless steel 587601
- Druckminderer N2 300 bar ACE Laser Pro 517215
- Oxygen pressure reducer 200 bar/0-20bar infinitely variable 254030
- Oxygen pressure reducer 300 bar/0-20bar 254032
- Refrigerated compressed air dryers 251090





Cutter heads of the BLT 6 series were custom designed for high-power laser cutting systems with max. 40 kW power



Optimized lenses and dual dust collectors ensure reliable cutting performance as well as easy setup and maintenance



Well-organized design and careful selection of components guarantees consistent trouble-free function



Machine comes standard with dust collector and filtration unit which protects the operator and the environment against the noxious emissions from cutting operations



Includes dust collector and filtration unit to protect against noxious emissions



Automatic changer table system allows loading and unloading of table during the cutting process

## SPECIFICATIONS

Machine model numbers		3015 12R	3015 20R	3015 30R	4020 12R	4020 20R	4020 30R	6025 12R	6025 20R	6025 30R
<b>Working area</b>										
Table dimensions	mm	3.000x1.500			4.000x2.000			6.000x2.500		
Workpiece weight (max.)	kg	1.500	1.500	1.500	2.500	2.500	2.500	5.000	5.000	5.000
<b>Travels</b>										
Travel X-axis	mm	1.550	1.550	1.550	2.050	2.050	2.050	6.350	6.350	6.350
Travel Y-axis	mm	3.050	3.050	3.050	4.100	4.100	4.100	2.550	2.550	2.550
Travel Z-axis	mm	370	370	370	370	370	370	370	370	370
<b>Rapid feed</b>										
Rapid feed X-/ Y-axis	m/min	200	200	200	180	180	180	180	180	180
Z-axis rapid feed	m/min	35	35	35	35	35	35	35	35	35
Change time at cutting table	sec	18 - 20	18 - 20	18 - 20	20 - 23	20 - 23	20 - 23	23 - 25	23 - 25	23 - 25
<b>Laser</b>										
Fiber laser	W	12.000	20.000	30.000	12.000	20.000	30.000	12.000	20.000	30.000
Cutting capacity in structural steel	mm	30	40	50	30	40	50	30	40	50
Cutting capacity in stainless steel	mm	25	30	40	25	30	40	25	30	40
Cutting capacity in aluminum	mm	18	25	30	18	25	30	18	25	30
<b>Measures and weights</b>										
Overall dimensions (l x w x h)	m	9,54x3,6 x2,58	9,54x3,6 x2,58	9,54x3,6 x2,58	11,54x4,1 x2,52	11,54x4,1 x2,52	11,54x4,1 x2,52	16,12x4,55 x2,61	16,12x4,55 x2,61	16,12x4,55 x2,61
Weight	kg	8.800	8.800	8.800	9.288	9.288	9.288	13.500	13.500	13.500
Part No.		141110	141111	141112	141113	141114	141115	141116	141117	141118

# Laser Cutting Systems

## ACE Laser R Series



CypCut CNC controller

**Fiber laser (Raycus) cutting system with shuttle table, wide machining and performance spectrum, gas console and filtered vacuum system**

- Rugged design with high quality components
- Complete cutting package including dust collector
- Comprehensive KNUTH service: design, setup, and maintenance

### STANDARD EQUIPMENT

- ✓ CypCut CNC controller
- ✓ CypCut CAD/CAM software
- ✓ CypNest offline software
- ✓ Ytterbium fiber laser by Raycus
- ✓ High pressure cutting head with automatic focus adjustment
- ✓ Full protective housing
- ✓ Automatic exchange table
- ✓ Dust collector and filtration unit
- ✓ Automatic gas console
- ✓ Central lubrication system
- ✓ Recirculating water cooling system
- ✓ Operator instructions

### OPTIONAL EQUIPMENT

- |  |        |
|--|--------|
| • Refrigerated compressed air dryers                             | 251090 |
| • BM 114S laser starter set for cutting structural steel         | 253342 |
| • BM 114S laser starter set for cutting stainless steel/aluminum | 253343 |
| • Oxygen pressure reducer 200 bar/0-20bar infinitely variable    | 254030 |
| • Nitrogen pressure reducer 200 bar to 50 bar 1-stage            | 254031 |
| • Oxygen pressure reducer 300 bar/0-20bar                        | 254032 |
| • Nitrogen pressure reducer 300 bar/0-50bar                      | 254033 |





Filtered exhaust system with dust separator and a filtration unit



High-quality cutter head with Autofokus by RayTools



Automatic shuttle table system with safety light curtain



Central lubrication system: minimizes maintenance, increases reliability

## SPECIFICATIONS

Machine model numbers		3015 1.5 R	3015 2.0 R	3015 3.0 R	3015 4.0 R	3015 6.0 R	4020 1.5 R	4020 2.0 R	4020 3.0 R	4020 4.0 R	4020 6.0 R
<b>Working area</b>											
Table dimensions	mm	3.000x1.500					4.000x2.000				
Workpiece weight (max.)	kg	1.000	1.000	1.000	1.000	1.000	1.500	1.500	1.500	1.500	1.500
<b>Travels</b>											
Travel X-axis	mm	1.520	1.520	1.520	1.520	1.520	2.020	2.020	2.020	2.020	2.020
Travel Y-axis	mm	3.050	3.050	3.050	3.050	3.050	4.050	4.050	4.050	4.050	4.050
Travel Z-axis	mm	100	100	100	100	100	100	100	100	100	100
<b>Rapid feed</b>											
Rapid feed	m/min	100	100	100	100	100	100	100	100	100	100
Change time at cutting table	sec	10 - 15	10 - 15	10 - 15	10 - 15	10 - 15	12 - 17	12 - 17	12 - 17	12 - 17	12 - 17
<b>Laser</b>											
Fiber laser	W	1.500	2.000	3.000	4.000	6.000	1.500	2.000	3.000	4.000	6.000
Power consumption	kW	5,3	6,5	12	16	20	5,3	6,5	12	16	20
Cutting capacity in structural steel	mm	12	16	18	20	22	12	16	18	20	22
Cutting capacity in stainless steel	mm	4	6	8	12	14	4	6	8	12	14
Cutting capacity in aluminum	mm	3	5	6	8	12	3	5	6	8	12
<b>Measures and weights</b>											
Overall dimensions (l x w x h)	m	9,8x3,7 x2,15	9,8x3,7 x2,15	9,8x3,7 x2,15	9,8x3,7 x2,15	9,8x3,7 x2,15	10,34x4,28 x2,2	10,34x4,3 x2,2	10,34x4,3 x2,2	10,34x4,3 x2,2	10,34x4,3 x2,2
Weight	kg	8.000	8.000	8.000	8.000	8.000	9.000	9.000	9.000	9.000	9.000
Part No.		141011	141012	141013	141014	141025	141016	141017	141018	141019	141026

You can find more machines from this series on our website.

# Laser Cutting Systems

## ACE Laser ST Series

NEW



Complete system with CNC control (FSCUT4000)



INFO



VIDEO

**Fibre laser cutting system for large format sheets with motorised extendable table, wide processing and power spectrum, gas console and filter system**

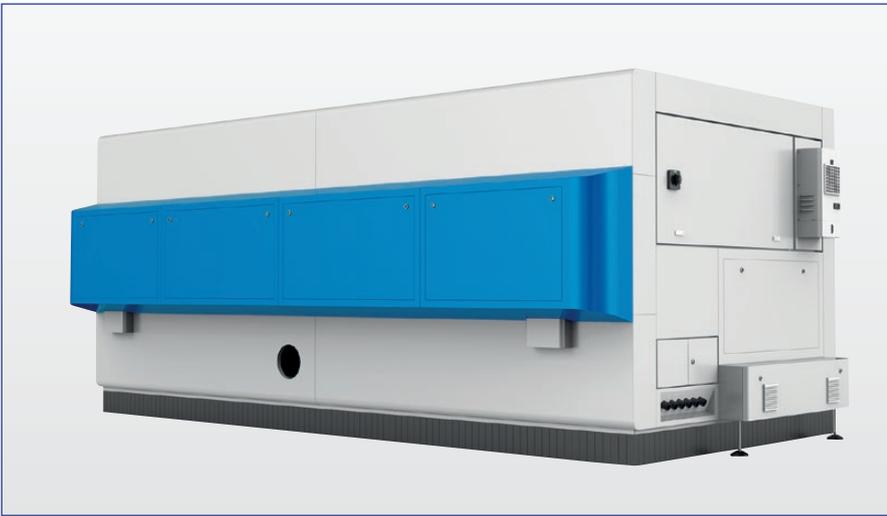
- Compact design, long service life and excellent beam quality
- Motorised retractable cutting table for easy loading and unloading
- Complete cutting package with filter extraction system
- Comprehensive KNUTH service: installation, commissioning and maintenance

### STANDARD EQUIPMENT

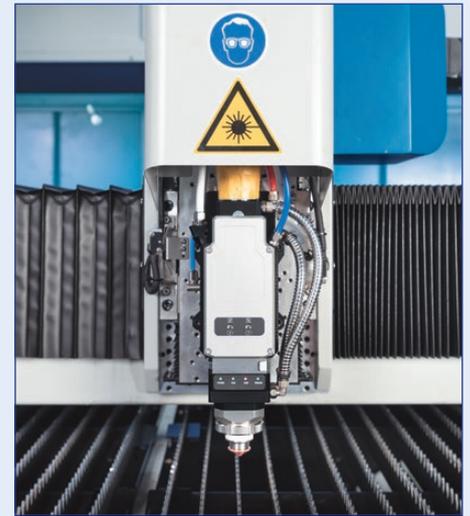
- ✓ Complete system with CNC control (FSCUT4000) (FSCUT4000 6 kW and FSCUT2000 1-4 kW)
- ✓ CypCut CAD/CAM software
- ✓ CypNest offline software
- ✓ BOCI BLT 4 Generation autofocus cutting head (6 kW)
- ✓ RayTools Autofocus cutting head (1 -4 kW)
- ✓ Dust collector and filtration unit
- ✓ Laser safety cabin
- ✓ Recirculating water cooling system
- ✓ Operator instructions

### OPTIONAL EQUIPMENT

- |  |        |
|--|--------|
| • Refrigerated compressed air dryers                             | 251090 |
| • BM 114S laser starter set for cutting structural steel         | 253342 |
| • BM 114S laser starter set for cutting stainless steel/aluminum | 253343 |
| • Oxygen pressure reducer 200 bar/0-20bar infinitely variable    | 254030 |
| • Nitrogen pressure reducer 200 bar to 50 bar 1-stage            | 254031 |
| • Oxygen pressure reducer 300 bar/0-20bar                        | 254032 |
| • Nitrogen pressure reducer 300 bar/0-50bar                      | 254033 |



The cutting system is fully enclosed to protect operators and environment



Cutter head with integrated collision guard, automatic focus positioning, and height control



The work table is mounted on a heavy-duty pull-out mechanism and easily can hold loads up to 1000 kg in the fully extended position



Fireclay plates protect the machine frame against thermal damages

## SPECIFICATIONS

Machine model numbers		3015 1.5R	3015 2.0R	3015 3.0R	3015 6.0R
<b>Working area</b>					
Table dimensions	mm	3.000x1.500	3.000x1.500	3.000x1.500	3.000x1.500
Workpiece weight (max.)	kg	1.000	1.000	1.000	1.000
<b>Travels</b>					
Travel X-axis	mm	1.530	1.530	1.530	1.530
Travel Y-axis	mm	3.050	3.050	3.050	3.050
Travel Z-axis	mm	100	100	100	100
<b>Rapid feed</b>					
Rapid feed X-/ Y-axis	m/min	80	80	80	80
Z-axis rapid feed	m/min	40	40	40	40
<b>Laser</b>					
Fiber laser	W	1.500	2.000	3.000	6.000
Power consumption	kW	5,3	6,5	6,5	6,5
Cutting capacity in structural steel	mm	12	16	18	22
Cutting capacity in stainless steel	mm	4	6	8	14
Cutting capacity in aluminum	mm	3	5	6	12
<b>Measures and weights</b>					
Overall dimensions (l x w x h)	m	4,75x2,26x2,1	4,75x2,26x2,1	4,75x2,26x2,1	4,75x2,26x2,1
Weight	kg	5.250	5.300	5.300	5.350
Part No.		141200	141201	141202	141204

# Laser Cutting Systems

## ACE Laser Compact R Series



Easy operation and user-friendly optimized interface

### Small footprint design with Raytools cutting head and Raycus laser source

- Compact design with small footprint
- Powerful built-in nesting and cutting software from Cypcut
- Highly energy efficient laser sources from Raycus
- High quality cutting head with auto-focus

#### STANDARD EQUIPMENT

- ✓ CypCut CNC controller
- ✓ Ytterbium fiber laser by Raycus
- ✓ Fibre optics
- ✓ High pressure cutting head with automatic focus adjustment
- ✓ Automatic focus position adjustment
- ✓ Full protective housing
- ✓ Automatic gas console with electrovalves for Oxygen and Nitrogen
- ✓ Recirculating water cooling system
- ✓ CAD/CAM software (CypCut)
- ✓ Voltage stabiliserator
- ✓ Operating manual and programming instructions

#### OPTIONAL EQUIPMENT

- Vacuum and filter system by Kemper 253848
- Vacuum exhaust system 254309  
2500 m<sup>3</sup>
- BM 109/111 laser starter set for cutting structural steel 253733
- BM 109/111 laser starter set for cutting stainless steel/aluminum 253734
- Oxygen pressure reducer 200 bar/0-20bar infinitely variable 254030
- Nitrogen pressure reducer 200 bar to 50 bar 1-stage 254031
- Oxygen pressure reducer 300 bar/0-20bar 254032
- Nitrogen pressure reducer 300 bar/0-50bar 254033





The hand-held control also simplifies machine set-up



Cutter head with integrated collision guard, automatic focus positioning, and height control



An enclosure pass-through allows feeding of small and medium-sized metal sheets



Energy efficient water chiller with very high cooling performance

SPECIFICATIONS				
Machine model numbers		1313 1.0 R	1313 1.5 R	1313 2.0 R
<b>Working area</b>				
Table size	mm	1.300x1.300	1.300x1.300	1.300x1.300
Maximum workpiece weight	kg	250	250	250
<b>Travels</b>				
Travel X-axis	mm	1.320	1.320	1.320
Travel Y-axis	mm	1.320	1.320	1.320
Travel Z-axis	mm	80	80	80
<b>Rapid feed</b>				
Rapid feed	m/min	40	40	40
<b>Laser</b>				
Fiber laser	W	1.000	1.500	2.000
Laser source		Raycus	Raycus	Raycus
Power consumption	kW	3,6	6	7
Cutting capacity in structural steel	mm	8	12	16
Cutting capacity in stainless steel	mm	3	4	6
Cutting capacity in aluminum	mm	2	3	5
<b>Measures and weights</b>				
Overall dimensions (L x w x h)	m	2,52x2,17x1,88	2,52x2,17x1,88	2,52x2,17x1,88
Weight	kg	2.040	2.040	2.040
Part No.		141100	141101	141102



## Laser Sources

# Raycus Laser Sources

Fiber lasers use optical fibers made of silica glass and generate a highly coherent laser beam with minimal divergence. With their compact design, excellent electrical efficiency, and minimal maintenance requirements, fiber laser sources offer an efficient and cost-effective solution for industrial cutting applications.

- **Excellent Beam Quality**

Raycus fiber lasers produce uniform and well-focused laser beams, enabling precise cutting.

- **High Energy Density**

Raycus fiber lasers deliver concentrated energy in a small area, allowing for efficient material processing.

- **Wide Modulation Frequency**

Raycus fiber lasers offer flexible control of pulse duration and repetition rate to meet a wide range of material processing requirements.

- **Reliable**

Raycus fiber lasers provide consistent performance in demanding industrial environments, minimizing downtime.

- **Virtually Maintenance-Free**

Raycus fiber lasers require minimal maintenance and support uninterrupted production.



### SPECIFICATIONS

Laser power	W	1.000	1.500	2.000	3.000	4.000
Wavelength		1080 ± 10 nm	1080 ± 10 nm	1080 ± 10 nm	1080 ± 10 nm	1080 ± 10 nm
Supply voltage		220 VAC (-15% to +10%) Single-phase	400 VAC (-15% to +10%) 3-phase	400 VAC (-15% to +10%) 3-phase	400VAC (-15% to +10%) 3-phase	400VAC (-15% to +10%) 3-phase
Cutting capacity, mild steel	mm	8	12	16	18	20
Cutting capacity, stainless steel	mm	3	4	6	8	12
Cutting capacity, aluminium	mm	2	3	5	6	8
Cooling method		Water cooling				

### SPECIFICATIONS

Laser power	W	6.000	12.000	20.000	30.000
Wavelength		1080 ± 10 nm	1,08 ± 0,5% μm	1,08 ± 0,5% μm	1,08 ± 0,5% μm
CW laser power (max.)	W	6.000	12.000	20.000	30.000
Supply voltage		400VAC (-15% to +10%) 3-phase	AC 380V ± 10%	AC 380V ± 10%	AC 380V ± 10%
Cutting capacity, mild steel	mm	22	25	40	50
Cutting capacity, stainless steel	mm	12	25	40	40

## Cutting Head

# RayTools BM

### Cutting Heads for Systems up to 4 kW Laser Power

- RayTools, the manufacturer, offers an innovative cutting head that provides a high-precision solution for demanding cutting tasks. The integrated motor drive, automatic focusing, and collision protection ensure safe and efficient operation. A closed water-cooling circuit maintains a constant lens temperature, resulting in excellent cutting quality.
- The compact design allows for very high travel speeds along the gantry using high-quality linear guides with ball screw drives.
- A collision sensor, included as standard, protects the head from impacts with cut parts or the workpiece.



## Cutting Head

# BOCI BLT

### Cutting Heads for Systems from 6 kW Laser Power

- The BOCI laser head is specifically designed for high-power cutting with high-performance lasers.
- With a focal range of  $\pm 50$  mm and a focal length of 200 mm, it easily cuts thick materials while achieving high-quality results.
- With a focusing speed of up to 300 mm/s, it offers a very short response time, quickly collimating and focusing the laser beam to ensure precise cuts—even when processing complex shapes.



## Modular Design

**Thanks to this well-thought-out construction, issues can be resolved within 5 minutes at relatively low cost**

- A simple plug-in can resume production, reducing the need for repairs and customer service.
- Dual sealing provides protection against splashing water and dust, with dustproof certification according to IP64. Easy Maintenance: The modern slide-in design of the protective windows and lenses allows for replacement within minutes.



## Plasma Cutting Systems

# Plasma-Jet TrueCut K Series



Powerful Eckelmann CNC unit with 19" touchscreen by ELO

### First-class performance with a large machining and power spectrum for the use of Kjellberg cutting technology

- Free-standing table construction for high accuracy
- Powerful Eckelmann controller with EtherCAT technology for full cutting control
- High productivity, designed for multi-shift operation
- Extensive option list for customized solutions
- **Also available with plasma sources from Hypertherm**



No thermal or mechanical influences on the guiding machine due to separate installation



Dust vacuum and filter system available as optional equipment





Quick-coupling for cutter head



The innovative Q-series from Kjellberg Finsterwalde combines high-precision plasma cutting at an exceptional level with the demands of digitalized production

## STANDARD EQUIPMENT

- ✓ Table prepared for filter system (automatic closure control)
- ✓ Panasonic Servomotors and drivers
- ✓ Automatic torch height control from Eckelmann
- ✓ Cutting torch with magnetic coupling and crash sensor
- ✓ Eckelmann CNC-Unit
- ✓ 19" touchscreen by ELO,
- ✓ A-Modul from Beckhoff
- ✓ Laser pointer
- ✓ Eckelmann IBE Software cncCUT Nest

## OPTIONAL EQUIPMENT

- Smart Focus 130 plasma source with automatic gas console 253877
- Smart Focus 170 plasma source with automatic gas console 253881
- Smart Focus 200 Plasma source with automatic gas console 253878
- Smart Focus 300 Plasma source with automatic gas console 253879
- Smart Focus 400 Plasma source with automatic gas console 253880
- Q 1500 Allgas Plasmasource 253882
- Upg. from Q 1500 to Q 1500 Plus 253866
- Upgrade from Q 1500 Plus to Q 3000 Plus 253916
- Upg. from Q 3000 to Q 3000 Plus 253867
- Upg. von Q 3000 to Q 4500 254205
- Q 3000 Allgas Plasmasource 253883
- Q 4500 all-gas plasma source 254157
- Autogencutting head "Messer" 251915
- Tanaka oxy-fuel cutter head 253592
- Vacuum exhaust system 4000 m<sup>3</sup> 254310
- Vacuum exhaust system 6000 m<sup>3</sup> 254311
- 5-axis chamfering for Kjellberg 253872
- Manual bevel device for cutting head 253404
- Tube cutting system 6.000 mm 253873
- Tube cutting system 3.000 mm 253874

## SPECIFICATIONS

Machine model numbers		K 1530	K 2040	K 3060
<b>Working area</b>				
Cutting width	mm	1.500	2.000	3.000
Cutting length	mm	3.000	4.000	6.000
Table height	mm	700	700	700
Table load capacity	kg/m <sup>2</sup>	520	520	520
Rapid feed	mm/min	18.000	18.000	18.000
<b>Measures and weights</b>				
Weight	kg	3.100	4.100	9.500
Part No.		144038	144039	144040

## Plasma Cutting Systems

# Plasma-Jet AirPro Compact Series



The PULSER 3 CNC control with 15" touchscreen is designed for modern cutting applications and easy to operate



**Compact cutting systems suitable from small to large format sheets for the use of economical air plasma sources**

- Compact design, fast setup
- For air plasma sources by Hypertherm or Kjellberg (optional)
- EtherCAT technology for best CNC performance
- Professional Nesting Software solution included
- With vacuum table, also optional water cutting table

### STANDARD EQUIPMENT

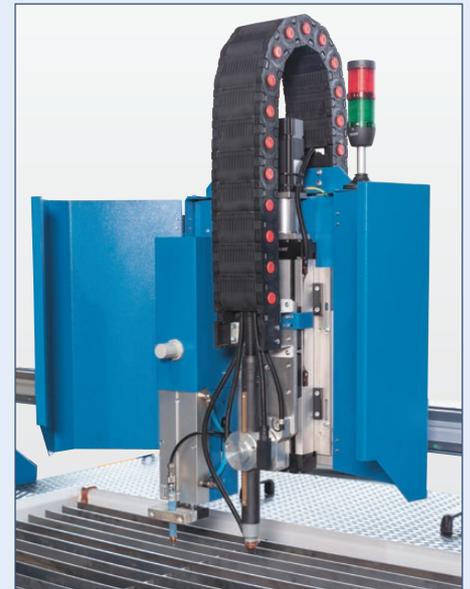
- ✓ PULSER 3 CNC unit
- ✓ 15" HMI with touchscreen
- ✓ ProNest LT Essentials
- ✓ Table prepared for filter system (mechanical closure)
- ✓ Automatic torch height control with THC sensor
- ✓ Cutting torch with magnetic coupling and crash sensor
- ✓ INVT Servomotors and drivers
- ✓ Laser pointer
- ✓ Operator instructions

### OPTIONAL EQUIPMENT

- |  |        |
|--|--------|
| • Powermax 105 Sync plasma source                      | 253888 |
| • Powermax 125 Plasma source                           | 253715 |
| • Maxpro 200 Plasma source                             | 253406 |
| • Engraving and marking system for PowerMax and MaxPro | 253815 |
| • Water table for plasma cutting machines              | 253403 |
| • Vacuum exhaust system 2500 m <sup>3</sup>            | 254309 |
| • Softwareoption ProNest LT Upgrade                    | 254125 |



The one-piece design with guides built into the table frame allows the system to be transported while assembled and guarantees fast and easy start-up



Quick-coupling at the cutter head reduces tooling time



Low-wear and low-maintenance helical gears are designed for continuous operation



As an option, the water table can be exchanged for a downdraft suction table. The choice must be indicated when ordering

SPECIFICATIONS				
Machine model numbers		1515	1530	2010
<b>Working area</b>				
Cutting width	mm	1.550	1.550	1.050
Cutting length	mm	1.550	3.050	2.050
Distance from torch to support table	mm	200	200	200
Table height	mm	500	500	500
Table load capacity	kg/m <sup>2</sup>	800	800	800
Rapid feed	mm/min	15.000	15.000	15.000
Positioning accuracy	mm	0,05	0,05	0,05
<b>Measures and weights</b>				
Weight	kg	1.250	1.550	1.100
Overall dimensions (L x w x h)	m	2,25x2,5	2,25x4,15	1,72x3,15
Part No.		144046	144047	144045

# Plasma Sources for Plasma Cutting Systems

## Hypertherm®

These plasma sources are the answer to all requirements for a powerful, heavy-duty plasma cutting system – simple, reliable, and incredibly productive.

- Superior cutting quality and durability
  - Maximized productivity
  - Unmatched process flexibility
- 
- **Powermax 105 Sync:**  
recommended: 32 mm, severance cut: 50 mm, pierce capacity: 22 mm
  - **Powermax 125:**  
recommended: 38 mm, severance cut: 57 mm, pierce capacity: 25 mm
  - **Maxpro 200:**  
Near-slag-free cutting  
performance: 20 mm,  
production pierce capacity: 32 mm,  
maximum severance cut: 75 mm
  - **XPR 170:**  
maximum pierce capacity: 40 mm,  
maximum severance cut: 60 mm
  - **XPR 300:**  
maximum pierce capacity: 50 mm,  
maximum severance cut: 80 mm
  - **XPR 460 Core:**  
maximum pierce capacity: 64 mm,  
maximum severance cut: 102 mm

**Note:** All specified cutting and piercing thicknesses depend on the material, cutting technology, and guiding system used.



## Powermax 105 and 125

These professional plasma systems offer automated process setup and a revolutionary torch and consumable platform for easy operation and optimized performance. A wide range of torches and applications are available for both manual and mechanized cutting and gouging

## MAXPRO 200

The MAXPRO200® plasma cutting system has earned the nickname “workhorse” in the industry due to its performance and 100% duty cycle.

It is designed for high-power, heavy-duty automated and manual cutting and gouging applications. MAXPRO200 – it gets the job done.

## XPR™

The innovative XPR™ plasma cutting system represents the future of mechanized plasma cutting technology. It not only delivers unmatched X-Definition® cut quality on mild steel, stainless steel, and aluminum, but also increases cutting speed and significantly boosts productivity.

## EDGE® Connect CNC Control

The ideal control system for every need

- New software features, enhanced hardware, and integrated Hypertherm® cutting expertise
- Easy to operate, extremely reliable, and powerful
- With the CutPro wizard, even new operators can produce cut parts within minutes

# Plasma Sources for Plasma Cutting Systems

**Kjellberg**<sup>®</sup>



## CutFire 100i

The CutFire 100i is a powerful air plasma system with low investment costs and a wide range of applications. It features advanced inverter technology and is one of the few air-cooled systems on the market with a 100% duty cycle.

## K 200

The K 200 plasma cutting system gives users exactly what matters in plasma cutting: optimal and reliable cutting results, easy operation, and low operating costs.

## Smart Focus

Simply excellent cutting – with the compact systems of the Smart Focus series, outstanding cutting results can be achieved with just a few settings in a material thickness range of 1 to 100 mm – even under the most demanding conditions.

## Q-Series

### NEXT GENERATION PLASMA CUTTING

The innovative Q-Series from Kjellberg Finsterwalde combines high-precision plasma cutting at an exceptional level with the demands of digitalized production.

## Eckelmann E°EXC 880 E°CUT ECO

The ideal control system for every requirement

- These CNC controllers, optimized for specific applications, offer extremely short cycle times, making them ideal for highly dynamic operations.
- The HMI features a clearly structured design for maximum user comfort, a straightforward layout, and intuitive access to all machine functions.

## Plasma Cutting from 0.3 to 160 mm

As the oldest manufacturer of plasma cutting technology on the market, Kjellberg Finsterwalde offers its customers plasma cutting systems for a wide range of applications in automated, mechanized, or manual cutting – made in Germany.

- Highest cutting quality (even with stainless steel)
- Low cost per meter of cut
- Equipped with automatic gas console
- **Kjellberg CutFire 100i:** Cutting up to 40 mm, piercing up to 20 mm
- **K 200:** max. cutting capacity 60 mm, piercing 35 mm, recommended 1 – 32 mm
- **Smart Focus 130:** max. cutting capacity 40 mm, piercing 25 mm, recommended 1 – 32 mm
- **Smart Focus 170:** max. cutting capacity 50 mm, piercing 30 mm, recommended 1 – 35 mm
- **Smart Focus 200:** max. cutting capacity 60 mm, piercing 30 mm, recommended 1 – 40 mm
- **Smart Focus 300:** max. cutting capacity 80 mm, piercing 40 mm, recommended 1 – 60 mm
- **Smart Focus 400:** max. cutting capacity 100 mm, piercing 50 mm, recommended 1 – 70 mm
- **Q 1500:** max. cutting capacity 60 mm, piercing 30 mm, recommended 0,5 – 40 mm
- **Q 3000:** max. cutting capacity 80 mm, piercing 50 mm, recommended 0,5 – 60 mm

**Note:** All specified cutting and piercing thicknesses depend on the material, cutting technology, and guiding system used.



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