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SWIFT (BIC): TAKBHUHB
IBAN: HU65 57600101 11102986 00000000
cégjegyzékszám: 06-09-014002
info:

Képgyűjtemény

Fiber lézervágó berendezés

CAXTC_Accurl _4020_COMB_6kW_1.0 fiber lézervágó berendezés / Fiber cutting machine



FULLY ANNEALED FRAME

Accurl steel frames under go annealing at over 600° to relieve stress. They are built to last years of heavy use without distortion. Auto changing pallet system allows over 2500kg loading weight.



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OPTIMIZED BASE FRAME

- Very stiff and stable base frame
- Eight(8) zone & ducted exhaust system
- Dual synchronized twin servo motor drive system
- Helical rack & slant pinion drive system enables very smooth movements.



UITRALIGHT-WEIGHT GANTRY STRUCTURE

- Light-weight cutting head assembly (Total weight 130 lbs) is designed for high dynamic movement, lowering the Tool Center Point to keep the cutting head from losing accuracy that is caused by whipping or drifting during high speed accell/decell movement

CAST ALUMINIUM GANTRY

- ACCURL®'s high tech aluminium cross beam is cast in a specially manufactured 10-tonne steel mould.
- This allows better rigidity at 50% of the weight of traditional iron gantries, allowing higher acceleration with reduced inertia.



YASKAWA SERVO MOTORS & DRIVES

- The Smart line is equipped with cutting edge Germany designed
- servo motors and drives from YASKAWA.
- High-speed EtherCAT communication
- Highly dynamic behaviour
- Brushless three-phase motors
- Flexible motor type selection



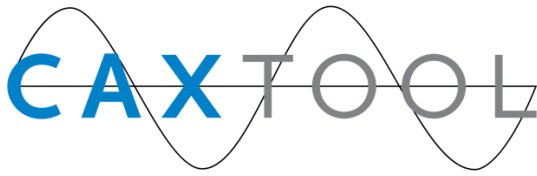
ESA 660 series Twincat CNC system S 660 W



The widest touch screen available on press brake CNC. 19" multi touch.
 A totally renewed interface, specifically designed for multi touch screen, is available as an alternative to the well-known Esa interface used on S650W.
 Make the best of any 3D cad cam you would like to install in the CNC.
 Finger-tip work piece design.
 Direct import of tools shapes (.dxf files) and management of tool library.
 Tool and die holders' management.
 Angle measurement and correction with all existing devices is available.

TYPICAL APPLICATIONS

- Conventional press-brakes (Mechanical and Hydraulic), synchro Hydraulic press-brakes, servo controlled hydraulic single cylinder press-brakes, electrically driven press-brakes, tandem press-brakes
- Hydro-mechanical press-brakes American style
- Hämmerle press-brakes



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GENERAL SPECIFICATIONS

- 19" 4:3 high-resolution touch screen (resolution SXGA 1280 x 1024)
- CPU PC: AMD Embedded GX 420 CA 2GHz, with 4Gb of RAM
- CPU CNC: Amd LX-LX800 500MHz, with 128Mb of RAM
- FPGA integrated logics, surface mounting, fiber optic
- 24Vdc 100W max power supply
- Capacitive Touch Screen with multi-touch functionality
- Ergonomic aluminium housing, with a panel suitable for machine operational selector-switches and push-buttons
- 2.5" Hard disk drive 20GB or more
- Preset for standard pc keyboard and mouse (ps2 standard connectors)
- 1 serial ports rs-232, 3 usb ports, 2 ethernet port on the pc
- 2 serial ports rs-232, 2 USB, 1 ethernet port, 1 can open port on cnc
- Fiber optic interface

HYP CUT FSCUT8000C TwinCAT CNC CONTROL

- The ACCURL Smartline Fiber Laser is controlled with a HypCut FSCUT 8000 CNC control unit which provides unprecedented control of the cutting process.
- EtherCAT and eXtreme Fast Control (XFC) technology enable fast switching functions at high processing speeds.
- 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.

HYP CUT CNC System Features:

- 17" high resolution colour TFT (touch screen control)
- 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.
- Motor feedback for absolute position registration.
- EtherCAT I/Os: broad I/O spectrum in IP 20 and IP 67 protection rating
- Industrie 4.0 for sheet metal working withTwinCAT Analytics and TwinCAT IoT

Successfully controlling precision & productivity

Nowadays, modern sheet metal production is inconceivable without high performance software. Highly effective control algorithms optimize the machine cycle, reduce the time required for set-up and ensures consistently high quality.



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ACCURL puts industry 4.0 within the reach of companies™

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

Thanks to the advanced ACCURL® CNC and RayBox V1.8System software tools like the “Smart Factory” make it possible for companies to enter industry4.0 that is revolutionizing the reality of companies. you can extract data and share information at company level: bending programs, sensors, production statistics.



GRAPHITE ANTI-BURN TECHNOLOGY

- The area in the entire machine tool where the laser can shoot at is all covered and protected by 20mm thick graphite anti-bruning.
- To insuring the machine bed and working table not be out of shape and burned-out.



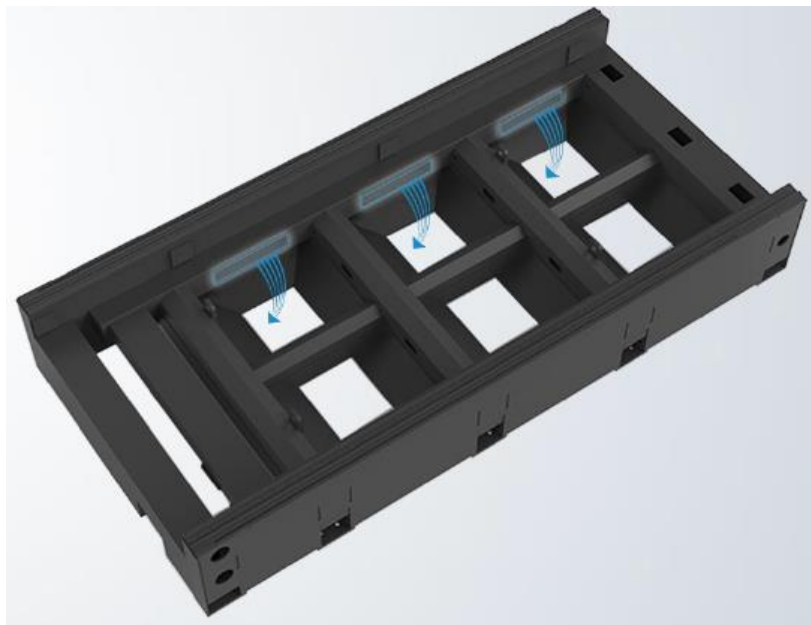
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FUME EXTRACTION SYSTEM

- Efficient fume extraction by means of shutters which are controlled in accordance with cutting head position results in more efficient use of the filtration system.
- Therefore a smaller lower cost system can be used.the system consists of six fume extraction zones (as seen below).
- Smaller air flow from the dust collector
- Low electrical consumption
- Smoke and dust free machining area



DUST EXTRACTION SYSTEM

- The fumes extraction or aspiration system for the treatment of vapors and fumes derived from laser cutting, consisting of:
- Filter plates with automatic compressed air cleaning cycle
- Integrated silencer
- Elimination of dust, particles and harmful fumes generated during cutting:
- Intelligent control by Siemens
- Self cleaning and Easy Disposal
- Free contacts for external control

- Integrated fan
- Dust load dependent automatic filter cleaning
- Siemens CPU and PTFE membrane filter cartridges
- This system is used to filter dry dust from industrial leaks, in accordance with VDI guidelines 3677, paragraph 4. The filter elements use compact porous filters.
- In many countries it is forbidden to circulate filtered air during the cutting of stainless steel (CrNi). Therefore, it is recommended that the user install air ducts to the outside.



RayTools BM111 (Auto Focus) laser head

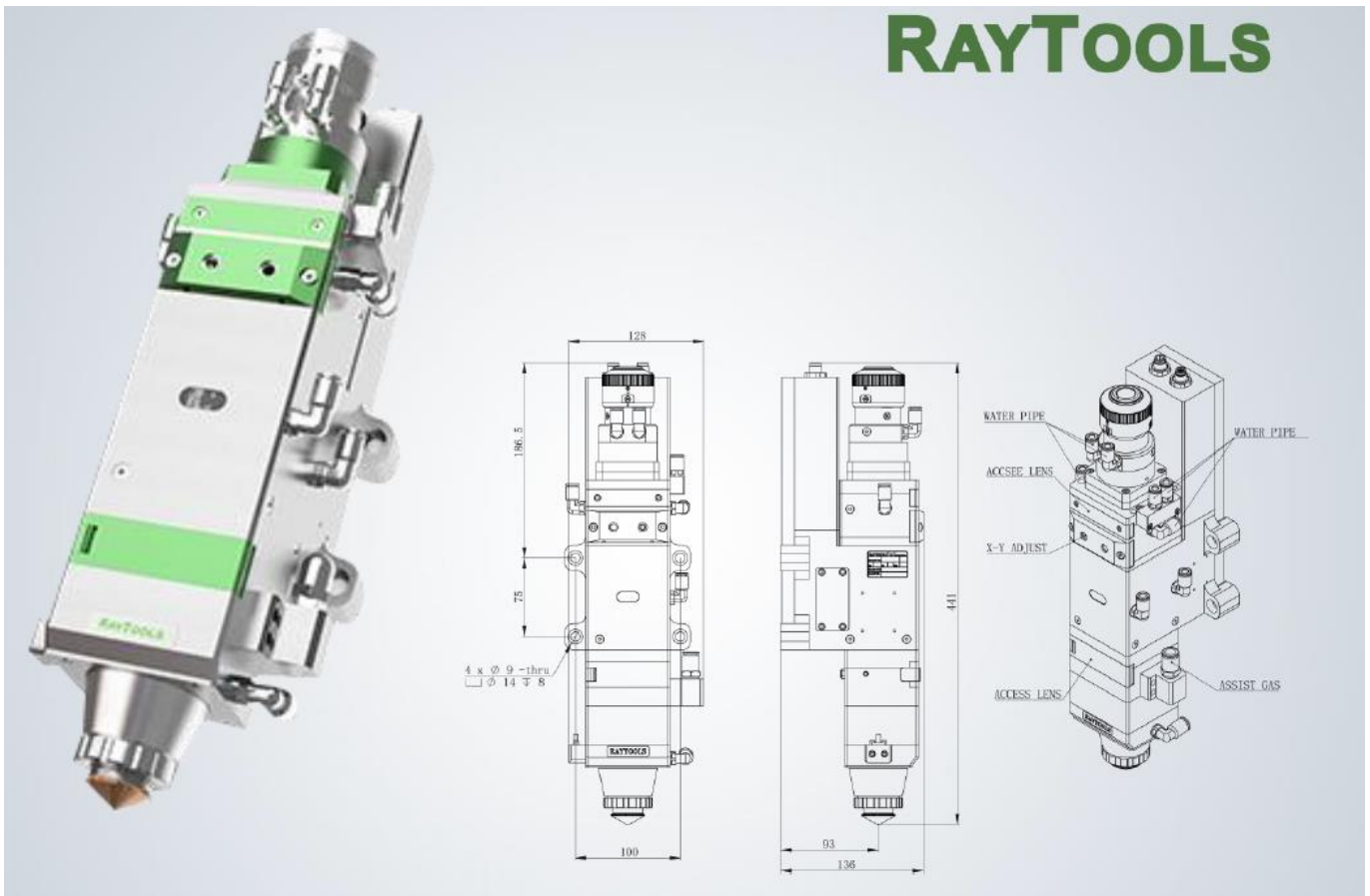
- The RAYTOOLS AG comes with the external motor and the built-in drive unit through the linear driver and the focusing lens can automatically change the position in the range of 25mm. The user can set the focus continuously through the program to complete the rapid piercing of thick sheets or other different thickness and material sheets.
- 35mm clear aperture, effectively reducing stray light interference, guarantee cutting quality and service life ;



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- Motorized adjustment of lens position
- Anticollision system included
- Contains adjust box EG 8030, focal lens 200mm, glass protection, 3 nozzles.
- Cutting head contains collimator at 90° focal 100mm
- With a variety of optical interfaces, can be adapted with a variety of fiber lasers.
- Compact design
- Motorized protection windows
- Auto focus ranges +10~-12mm, accuracy is 0.05mm
- Drawer-type of lens mount, quick and easy access to the cover glass.
- Automatic adjustment of the focus and depth of the laser beam by "MZ -collimator module.



Precitec ProCutter 2.0 laser head - the latest generation in laser cutting

motorized focus position adjustment for automatic machine setup and piercing work

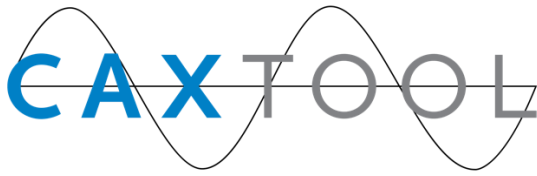
lightweight and slim design created for fast acceleration and cutting speed

drift-free, fast-reacting distance measurement

permanent protective window monitoring

automated piercing with PierceTec

water cooling of the sheet metal with CoolTec



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completely dustproof beam path with protective windows

LED operating status display

output of all sensor data via WLAN to APP and machine control possible

pressure monitoring in the nozzle area (gas cutting) and in the head



FIBER LASER RESONATOR IPG

•The fiber laser resonator is a separate unit unattached to the cutting machine; this facilitates the design of laser cutters to deal with high speed cutting of thin materials and highquality cutting of thick materials. The unit contains the high stability resonator, kinetically suspended. The laser resonator includes a communication system featuring the control unit and a closed cooling circuit.

Features of the IPG equipment are as follows:.

- Direct control of all the fiber laser functions
- Synchronized control of the lasersource
- Overall power control
- High speed perforation
- Edge machining function
- Cutting data library
- High speed fiber laser cutting
- Wall-plug Efficiency >40%
- Cost-effective CuttingSystem



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- Maintenance-free Operation
- Fiber Delivery 50, 100, 150or 200 μ m
- CW Output Power up to 20 kW @ Workpiece
- New fiber block design with 3x increase in damage power threshold, resulting in increasedreliability

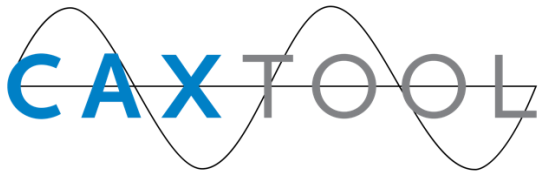
COMMITMENT TO QUALITY

•Accurly assemble their machines to the strictest quality standards, utilizing many tools and methods to ensure accuracy all throughout their process.

•The use of an interferometer records the machines X and Y axis movement during cutting to ensure accuracy. Adjustments are made to ensure machine is precisely tuned before shipment.



•A Marble test is performed to measure the X and Y axis, calculating any necessary adjustments to ensure perfect level and alignment along length of machine.

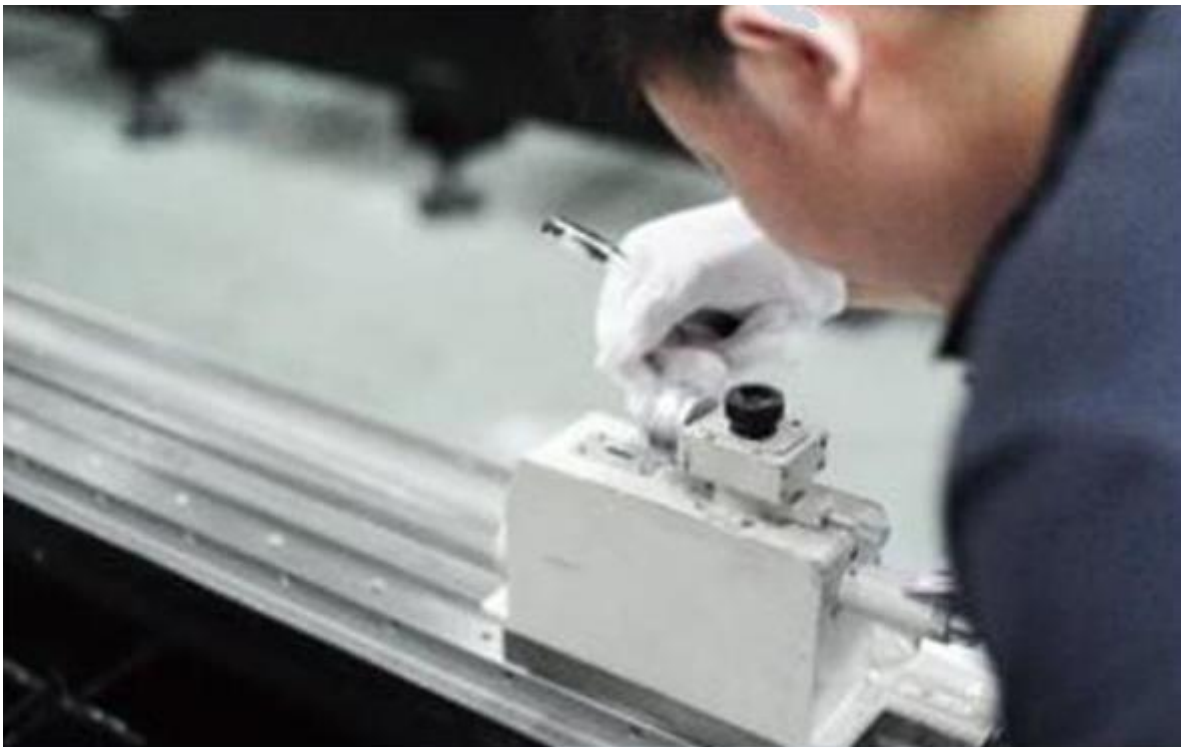


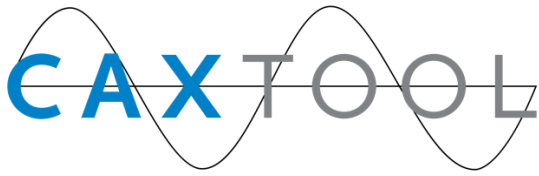
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•A collimator is run along the full length of the guide rail, testing for straightness. Adjustments are made as required to ensure linear accurate linear accuracy.





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Machine Application

Widely used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, automobile, food machinery, textile machinery, engineering machinery, precision parts, ships, metallurgy equipment, elevators, household appliances, craft gifts, tool processing, decoration, advertising, and other fields. Professional used to cut sheet metal like carbon/mildsteel, stainless steel, aluminum alloy, galvanized sheet, electrolytic plate, titanium alloy, aluminum zinc plate, etc.

