AGENT\



ACCURL MACHINE TOOLS CHINA | ACCURLUSA

QIAOLIAN PLASMA & LASER MACHINE TOOLS

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MAX BP SERIES





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ACCURL-YC waterjet cutting Laser & Plasma Systems is the company that creates value of the success and shares the value with all our customers.

Based on the continuous investment in R&D, we have developed the laser cutting and bending technologies and products.



MISSION

Creating the value of success through customer satisfaction

VISION

The company that provides fun and joy

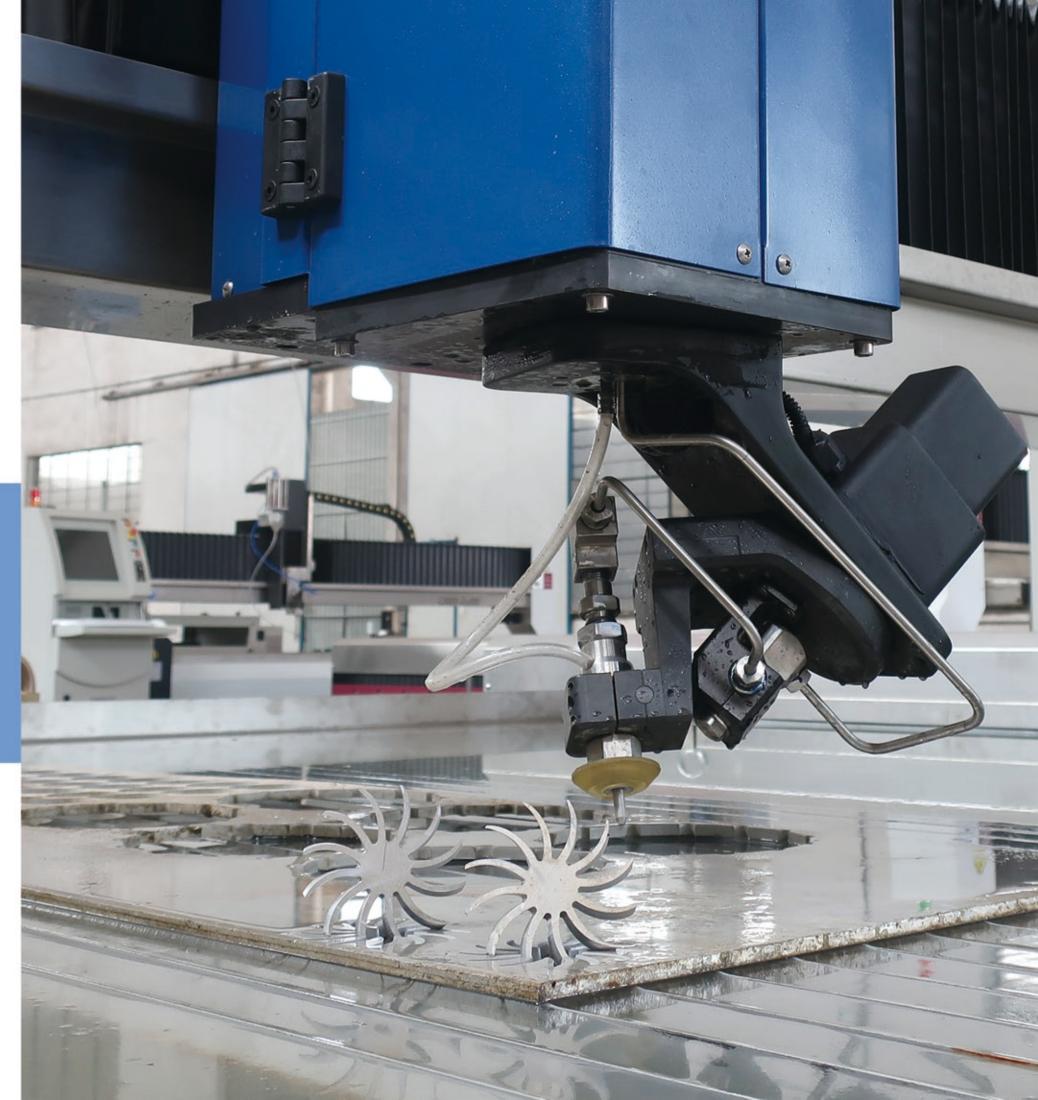
VALUE

Challenge · Change · Creativity · Content · Credibility

Next level. Next to you.

Today's volatile market demands that companies be competitive, accurate and reactive. ACCURL products continue to evolve, bringing efficiency to a whole new level.

More productive machines, new automation solutions, and easy- to-use option suites are designed to meet the customer's real needs. To provide the best ACCURL technology, our team of experts will always be available to listen, assist and advise.



TECHNOLOGY SOLUTIONS • CUTTING

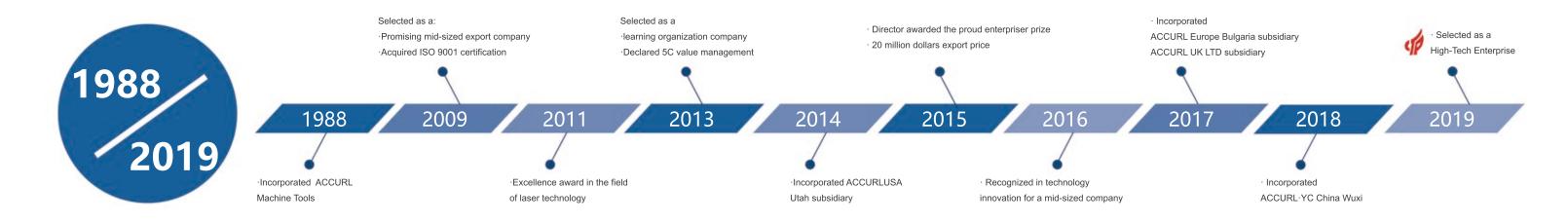
We work every day to give a new shape to the future.

Operators and skilled technicians allow for maximum customization and an effectiveassistance, guaranteeing performance, quality and service.

The renewed style of Accurl is the result of collaboration with an important and well-known design and engineering firm, Studio in Poland and U.S.

It is the perfect combination of aesthetics and ergonomics. ,One look and feel for all product families.we use epoxy-acrylic paint. This shiny film also makes cleaning easier.





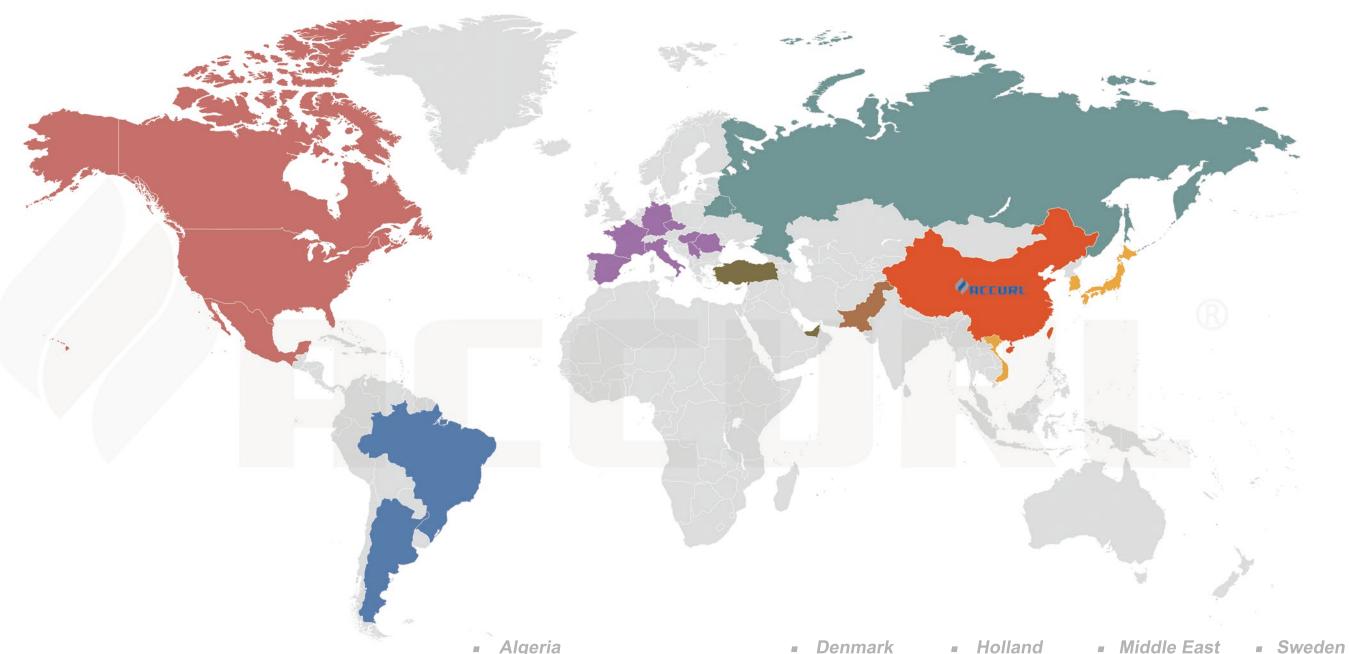
Global Network













SINCE



- Algeria
- Australia
- Austria
- Belgium
- China
- Colombia
- Czech Republic

- Denmark
- Egypt
- USA
- England
- Finland
- France
- Germany

- Holland
- Hungary
- India
- Italy
- Jordan
- Morocco
- Mexico

- Middle East
- Poland
- Switzerland

Turkey

- Taiwan Portugal
- Romania
- Russia Venezuela
- South Africa
- Spain



The Waterjet System Developed By ACCURL, Combine our experience our experience and Technology With The Characteristics Of Ultra-Highpressure Water, Achieving a Unique Cutting Capability for a Wide Variety of Materials and Thickness.

- Low cutting temperatures to prevent thermal alteration and residual tension.
- Clean cut without harmful atmospheres
- The cut surface neither cracks nor bends.
- Optimal utilization of raw material with negligible material loss
- Eliminates subsequent finishing processes.

• VERSATILE	Waterjet is capable of cutting "any" material including; Stainless Steel, Aluminum, Glass, Marble, Plastic, rubber, Cork and Wood, just to name a few.
• POWERFUL	Capable of cutting up to 200mm (8") thick steel.
• ACCURATE	With waterjet cutting, part deformation is avoided and high cutting accuracy is achieved without leaving any frayed edges or burrs.
NO HEAT AFFECTED ZONE	Resulting in less warping of components, increased cutter life on secondary operations and no grinding for weld preparation.
• FLEXIBLE	Any two-dimensional shape can be cut by a simple program done on the machine CAD system or from any DXF file either networked, downloaded through
• CLEAN	Waterjet produces no smoke or toxic gases because there is no burning process.
• FAST	rapid set up times, no tooling and reduced need for secondary operations due to its accuracy and quality of the cut edge.

STANDARD EQUIPEMENT

- WEIHONG® 17" Multi-Touch Displays Control System
- YASKAWA® Highly dynamic EtherCAT servo drive
- HYPERTHERM® High Pressure Pump 50 HP/4200 bar
- ACCURL® Abrasive backstop system CUT CONTROL 3.0
- ACCURL® Abrasive regulation-ABRASIVE 3.0
- Automatic Abrasive feeder with 200L capacity
- ACCURL® Collision Protection 2.0
- Declaration of conformity and CE marking

OPTIONAL EQUIPEMENT

- MAX 3D 5-Axis Bevel Cutting Head 2.0
- Water Jet Soften Treatment
- Auto Sludge Removal System
- IGEMS 3-Axis CAM Minmum 3X Nesting Software
- IGEMS 5-Axis CAM Normal 3D-5XB Nesting Software
- HYPERTHERM® HyPrecision® 75S Pump of 75 HP
- ITALY ECS-905 CNC Control system

SPECIFICATIONS

MACHINE DIMEN	SION AND W	/EIGHT
MACHINE MODEL	[um]	3015
Length	[mm]	4250
Width	[mm]	2260
Height	[mm]	1900
Weight	[kg]	2850

¹⁾Approximate values. The exact parameters are specified in the installation plan.

WORKING AREA							
MACHINE MODEL	[um]	3015	4020				
X axis	[mm]	3060	4060				
Y axis	[mm]	1540	2050				
Z axis	[mm]	100	100				
Max.sheet weight	[kg]	1100	1800				

ITALY ECS CONTROL SYSTEM

• ECS SPA began working in the field of CNC in 1970 and is therefore rightly among the pioneer companies in the world in this field, in which it still works and still have extended both the range of products in the fields of application. Currently it designs, manufactures and markets integrated solutions not only for metal working applications (milling, machining centres, lathes and boring), but also for working with sheet metal, and stone.



CNC system 900 series

- Industrial PC based system
- Integrated CNC and I/O modules
- Wide range of communication protocols
- Easy installation and commissioning
- Rapid software integration
- Rich graphics
- Intuitive and easy to operate
- Work with battery back-up
- Touch screen



 In combination with the motion control solutions offered by the company's TwinCAT automation software, Beckhoff Drive Technology provides an advanced, all-inclusive drive system.

Ready For Industry 4.0

Industrie 4.0 for sheet metal working with TwinCAT Analytics and TwinCAT IoT



 With the fourth industrial revolution taking over (Industry 4.0), the Industrial production must adapt and cannot escape to the new reality of Industry 4.0, a production model in which all elements of the chain must be interconnected and communicate with one another.

Public/Private Cloud Amazon AWS™

Microsoft Azure™

Beckhoff Cloud Services

The IGEMS is a modular CAD, CAM and nesting software designed especially for waterjet cutting purposes. Thousands of people around the world use it to make anything they want.

CAD/LAM

- The main 2D CAD functionality similar to AutoCAD.
- Support for multiple file formats (DWG, DXF, WMF, CNC, TTF)
- · Special commands for drawing completion and optimization.
- Support for TTF font formats, CXF and SHX
- Transfer images from raster to vector format.
- Parametric parts (elements) Library.

NESTING

- Useful manual nesting tools with collision control
- Automatic nesting to fill sheets efficiently

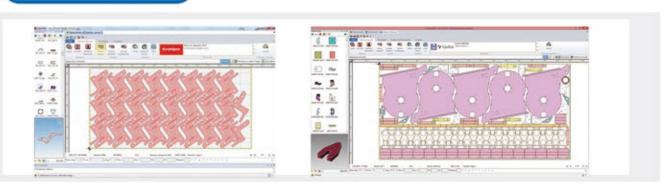




MAXIMUM PRODUCTIVITY
WITH MINIMUM SCRAP

IGEMS CAM-SOFTWARE

IGEMS Is Available For

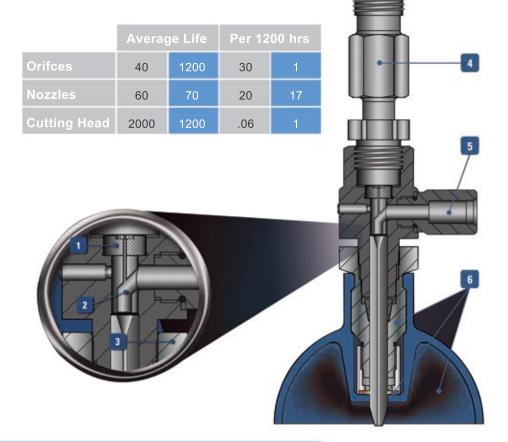


Management of FMS lines and / or of the manual operations:

- Reduction of the cutting number of diff erent nesting
- Automatic Skeleton cutting
- Systems management of loading / unloading and sorting systems

CUSTOMIZABLE CUTTING HEAD SOLUTIONS

The chart below illustrates the average cost of operating a DiaLine cutting head over a 1200 hour period as compared to a standard ruby orifce cutting head.



HEAD CONNECTIONS

- New adapter connections provide the ability to rotate the abrasive inlet enabling perfect placement
- Range of adapter configurations available to easily mount DiaLine to any waterjet system

5 ABRASIVE INLET

- Optional 3/16" abrasive inlet nable simple connection to smaller abrasive feed lines
- Optional Dual inlet (not shown)
 makes vacuum assist cutting possible for low pressure piercing of
 brittle materials

6 NOZZLE OPTIONS

- Three nozzle nut options allows for custom cutting head confgurations (standard, 3" guard and 4" guard)
- Nozzle guard design significantly reduces wear and protects the cutting head
- Second carbide lined nut provides maximum protection and wear resistance (replaceable)

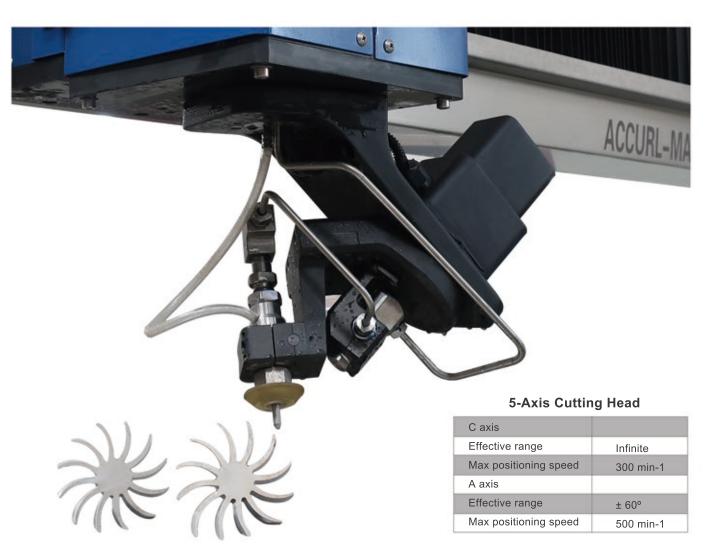
L-SERIRES INTEGRAL GANTRY TYPE

Lathe bed and water tank are non-detachable, After the heating-treatment of whole machine table (to eliminate the stress of 95%), it is much better than the VSR(to eliminate the stress is 35%), It can, ensure the accuracy and stability in long time.

Model		MAX-BP -1010L	MAX-BP -1313L	MAX-BP -2030L	MAX-BP -2040L	MAX-BP -4030L	MAX-BP -6020L	MAX-BP -8030L			
Effective Cutting Area		mm	1000 x 1000	1300 x 1300	2000 x 3000	2000 x 4000	4000 x 3000	6000 x 2000	8000 x 3000		
	X axis	mm	1000	1300	2000	2000	4000	6000	8000		
Axis travel	Y axis	mm	1000	1300	3000	4000	3000	2000	3000		
	Z axis	mm	150-180	150-180	150-180	150-180	150-180	150-180	150-180		
Cutting accur	Cutting accuracy mm			+/- 0.1							
Positioning cccuracy mm			+/- 0.02								
X,Y dry-run speed m/min			0-15 (if need 30m/min speed,we can do as request)								
Cutting speed	d	m/min	as to detail material and thickness								

THE MAX 3D 5-AXIS CUTTING HEAD 2.0

• The 3D cutter head has five axes, 3 linear and 2 rotating. It has been designed for both pure 3D cut and 2D 1/2 cut (flat cut with bevel), without losing 2D (flat) cut functionality. Its design features offer great work possibilities. Especially its infinite rotation in the C axis, which avoids the need to rewind with a consequent reduction in working times and a lower risk of reducing the cut quality. On the rotating frame of the C-axis, it is possible to connect the height adjustment and anti-collision control module.



- It is also possible to eliminate the taper of the pieces, by means of a TCI JET CONTROL1.0 with a tangential cutting function using the 5-axis, that has been programmed in the CNC.
- The noise level generated by the machine has been set at 85 dB at a distance of one meter during cutting 10 mm material with one cutting head with a nozzle diameter of 0.30 mm and submerged cutting.

Advantages:

- Can be used with various cutting heads.
- C-Axis
- B-Axis
- Crash Sensor Block
- Provided by crash sensor.
- Provided by splash shield.
- · Can be provided be auto height sensor.
- Its kinematic principle does not need a complex control algorithm, so the position error will be decreased.

ADDITIONAL EQUIPMENT



TCI ABRASIVE 3.0

Automatic abrasive regulation system incorporating a continuously regulated motor automatically delivering the required quantity of abrasive through a real-time controlled channel, enabling the exact quantity to be dispensed at all times, eliminating traditional manual regulation. This is controlled by the machine interface and stops if it detects that the abrasive has been used up. It is ideal for cutting fragile and composite materials.

ABRALINE 1.0

Automatic abrasive dosing during the cutting process. This system provides a low pressure pneumatic abrasive feed to the autonomic regulation system incorporated in the hopper of the cutting head. It also incorporates warning sensors if the abrasive level is low and can be refilled without interruption to the cutting process. It is fully accessible by the user and has a capacity of 200 I.







BULK TANK 2.0

2.000 kg capacity hopper for machines requi- ring high production output. Continuous feed for the TCI ABRALINE 1.0 system, preventing unne- cessary stops and above all allowing autonomous functioning of the machine during lengthy cutting procedures.

DRILL 2.0

Equipment developed for mechanical predrilling fragile materials and multi-laminated composites that might be damaged by waterjet perforation. Possibility to mount different drill bit diameters.



SYSTEM SPECIFICATIONS COMPARISON

Our advanced Hypertherm pump technology provides 30% more nozzle horsepower than intensifier pumps. This added power means you can produce parts faster and at lower costs.











		HyPrecision™ 50S HyPrecis		HyPrecision™ 60S HyPrecision™ 75S		HyPrecision™ 100D		HyPrecision™ 150D					
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
	Maximum output flow	3.79 lpm	4.16 lpm	4.54 lpm	4.92 lpm	5.68 lpm	6.06 lpm	7.95 lpm	8.33 lpm	11.36 lpm	12.11 lpm		
	Maximun orifice	0.356 mm	0.38 mm	0.406 mm		0.432 mm	0.457 mm	0.508 mm	0.533 mm	0.610 mm	0.635 mm		
RAL	Continuous output pressure		Adjustable to 60,000 psi (4137 bar)							Adjustable to 60,000 psi (4137 bar)			
GENERAL	Intensifier configuration		Single						Dua	al .			
	Pressure control			Panel-moun	ted Dual Manual		Electronic Pr	oportional					
	Bleed-down valve	Hydraulic							Hydra	ulic			

	Motor power	37.3 kW		44.7 kW		56 kW		74.6 kW		111.9 kW	
VER	Voltage	400 V	208-230/460 V	400 V	460 V	400 V	460 V	400 V	460 V	400 V	460 V
ND AI	Full load	73 A	138-125/62 A	75 A	71.1 A	103 A	87.1 A	138.8 A	117.5 A	204 A	173.4 A
PUMP	Main breaker	80 A	150/80A 100		100 A 125 A 100 A			150	Α	22	5 A
	Soft start	True Soft Start						True S	oft Start		

\simeq	Overall width * length * height		1016 * 1930 * 1422 mm	1143 * 2184 * 1422 mm	1397 * 2057 * 1422 mm
HYS	Approximate operating weight	1406 kg	1497 kg	1882 kg	2767 kg

	Estamal sin acces all accline	External air over eil cooling			
OPTIONS	External air-over-oil cooling	External air-over-oil cooling			
	Chiller for oil cooling	Chille	r for oil cooling		
	Redundancy	Water isolation valves	Water and hybraulic isolation valve		
0	Redundancy ready		_		
	Electronic proportional pressure control		-		











