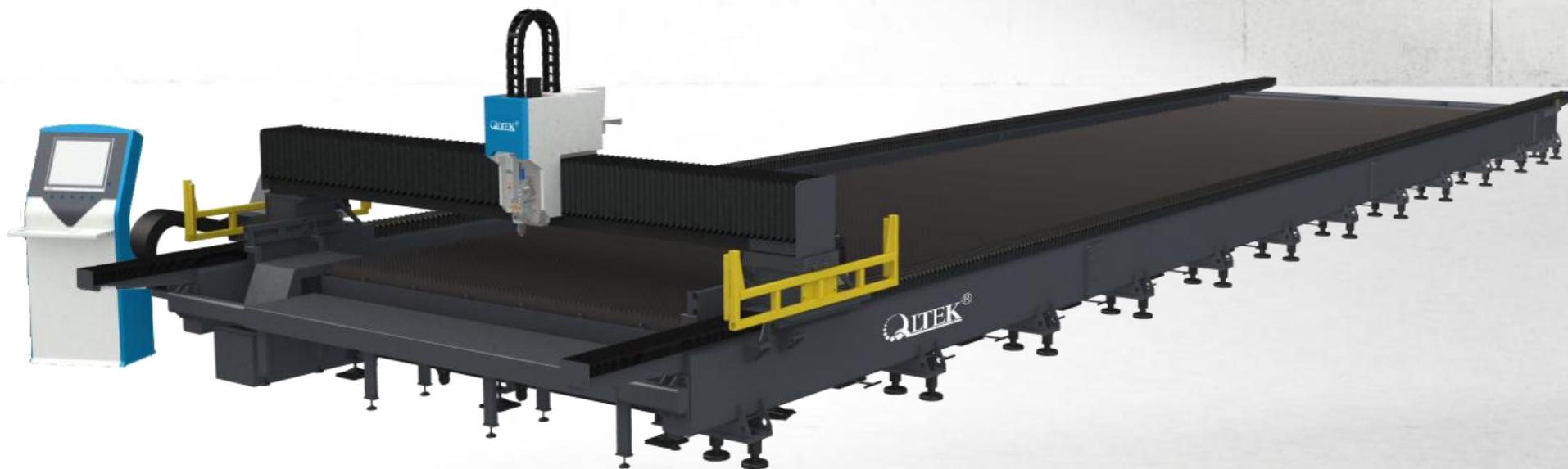




**GX**  
GEARMAX PRO

CORTE  
LÁSER

**POWER**  
YOUR NEXT MOVE!



Ultra-Large Format | Split-Type | Intelligitization



QLTEK<sup>®</sup>

# HG SERIES

SUPER LARGE FORMAT FIBER LASER CUTTING MACHINE

Note: The appearance of the pictures in this solution is for reference only, and the actual equipment shall prevail.

# Factory



400,000

400,000+m<sup>2</sup> Production Area



1,500

1,500+ Employees



8,000

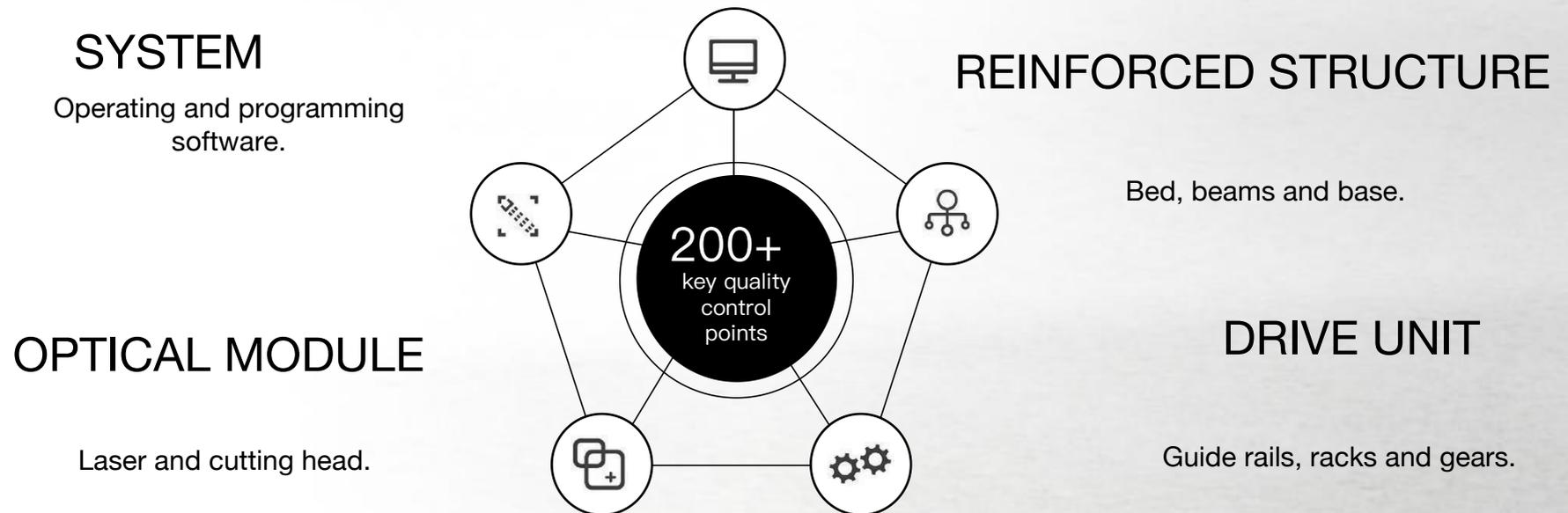
8,000+ alta potencia



## Quality Control

At QLTEK, quality isn't a goal, it's a comprehensive system.

Thanks to our QSB (Quality System Benchmarking) end-to-end process management system and 5200 Grid quality control, we guarantee excellence at every stage of manufacturing.



**Each module is designed to deliver precision, reliability, and optimal performance in demanding industrial environments.**

# Quality Control





# Technical Parameter



HG Series	HG15030
Working range (Length*Width)	15000*3000mm(49.21'*9.84')
Z-axis travel	300mm(0.98')
X/Y axis positioning accuracy	±0.05mm
X/Y axis re-positioning accuracy	±0.03mm
Max. linkage speed	80m/min(≈262.5ft/min)
Overall capacity/current	55KW/110A
Overall dimensions	19251*5074*2260mm (63.16'*16.65'*7.41')
Machine weight	8.25 tonelada
Power	12KW

Note: The data in this table are standard configuration technical parameters, and can also be customized according to the technical requirements.

## Configuration List

No.	Item	Brand / Specification	Remarks
1	Laser cutting machine	HG series	QLTEK
2	Laser cutting head	QLTEK	QLTEK
3	Fiber laser	RAYCUS	China
4	X and Y high-precision reducer	MOTOREDUCER	China
5	X and Y high-precision helical rack	SOTER	China
6	X, Y linear guide rail	ROUST	China
7	X and Y-axis servo motors	INOVANCE	China
8	CNC control system	BECKHOFF	Germany
9	Nesting software	LANTEK	Spain
10	Proportional valve	HOERBIGER	Germany
11	Water chiller	TONGFEI	China
12	Main low-voltage electrical components	SCHNEIDER	France

Note: The above table is standard configuration, for reference only, subject to the actual signed contract configuration.

## List of accessories and Gas use

Catagoryes	Name	Qty/Pcs
Kits de accesories	Protective lens	≥10
	Nozzles	≥10
	ceramic ring	≥1
	Tool Box	1 set
	Fiber Protective Glass	1 set
	glasses scarf	1 set
	RFC Cable	1
	Bottom protection seal	1
	ceramic body	1
	Isopropanol	1
	Lens Cleaning Tissue	1 set
	Laser dimming photo paper	1
	Dust-free cotton swab	1
Dust-free cloth	1	

GAS	Gas pressure	Consumption( L/H)
Nitrogen (can cut stainless steel, aluminum, brass.)	1.4~1.8MPA	120-240 L/H
Oxygen (can cut carbon steel and copper)	0.5MPA~0.8MPA	30-80 L/H
Compressed air (more economical, can cut carbon steel, stainless steel, aluminum, and brass)	1.6MPA	120-240 L/H



## Typical customer

Customer-centric, practical, customer problem solving, customer value maximization



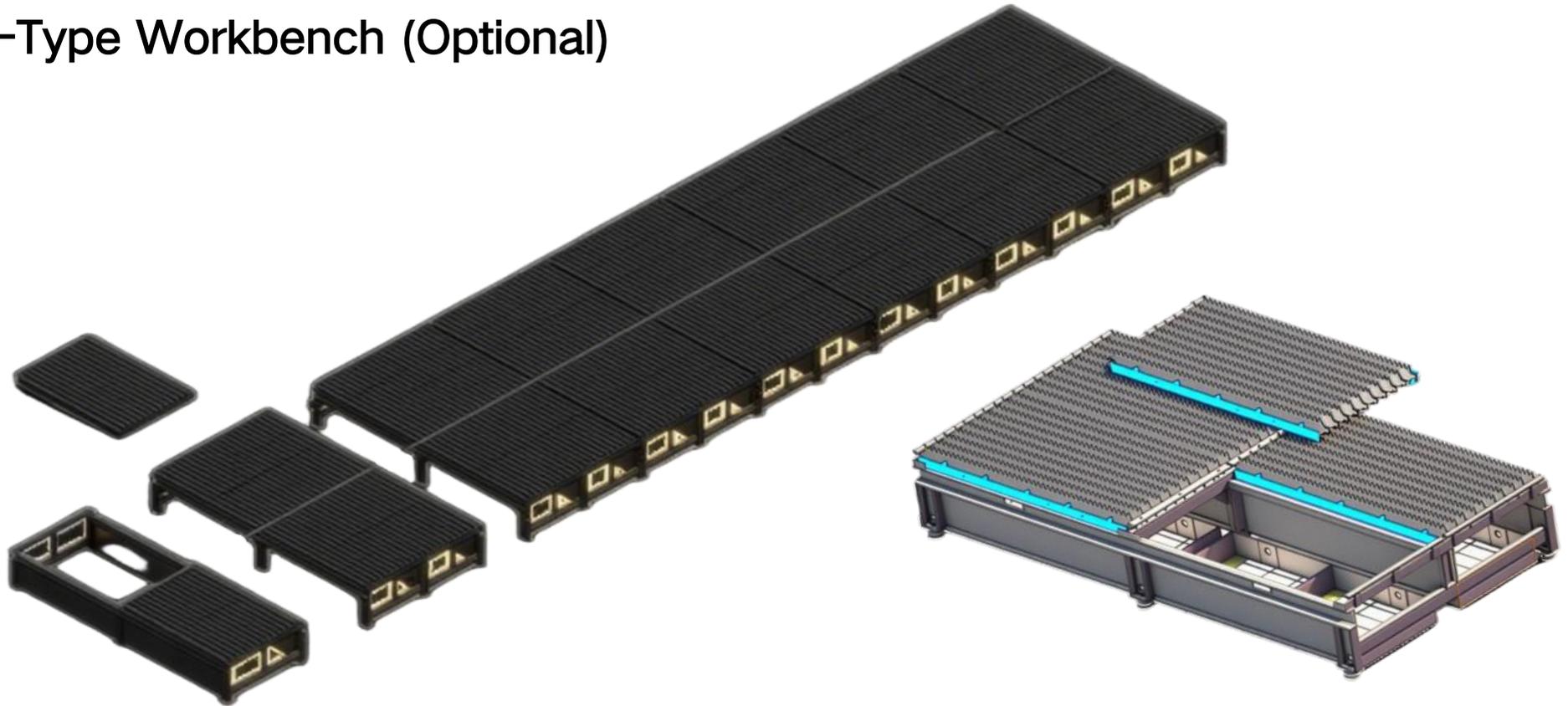
## Ultra-High Power and Ultra-Large Format



Ultra - large format optional: length 9 - 40 meters, width 3 - 4 meters

Split-type workbench: larger load-carrying capacity, compatible with power ranging from 12kW to 80kW

## Split-Type Workbench (Optional)



©The workbench and the main machine tool are of a separated type and have a larger load capacity.No fear of thermal influence: It has no impact on the machine tool during the cutting process.

©Quick replacement and cleaning of workbench support racks: The segmented and detachable design allows for convenient maintenance inside the machine tool.

## Real-Time Dust Removal System



Less smoke and dust, environmental protection.

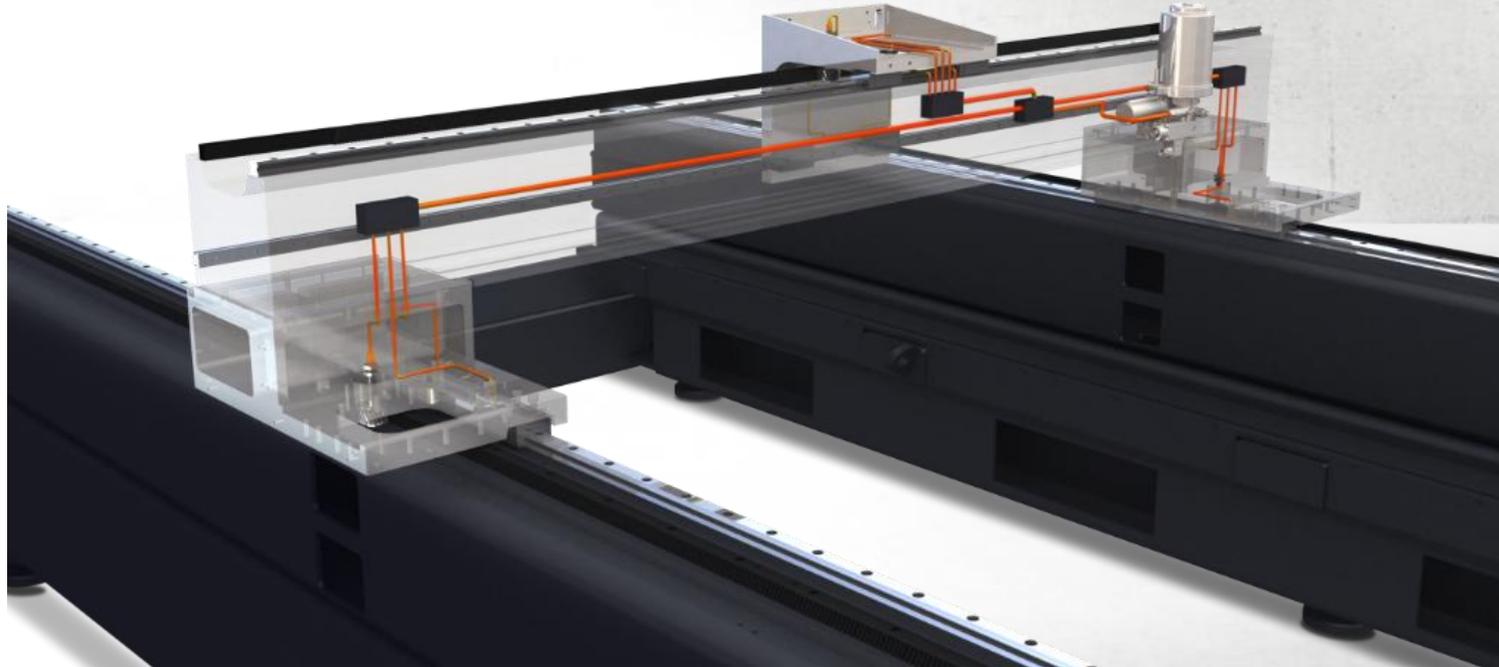
One side has an auxiliary air supply device, and the other side has an air suction device. The design of "blowing and suction" real-time dust removal structure can collect the dust generated during cutting to the dust removal system in time and effectively

## Self-Adaptive Combined Support Foot



Double spherical gasket design reduces the impact and vibration of operation, making high-speed operation more stable.

## Automatic Lubrication System



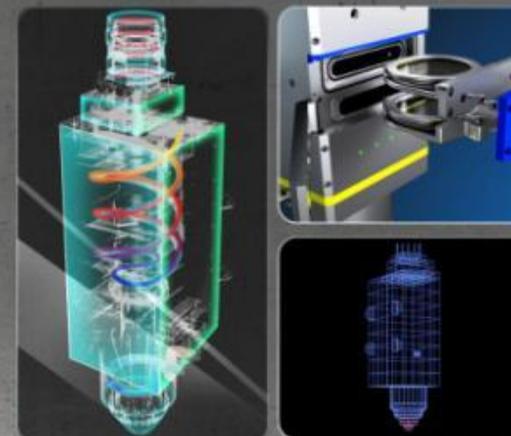
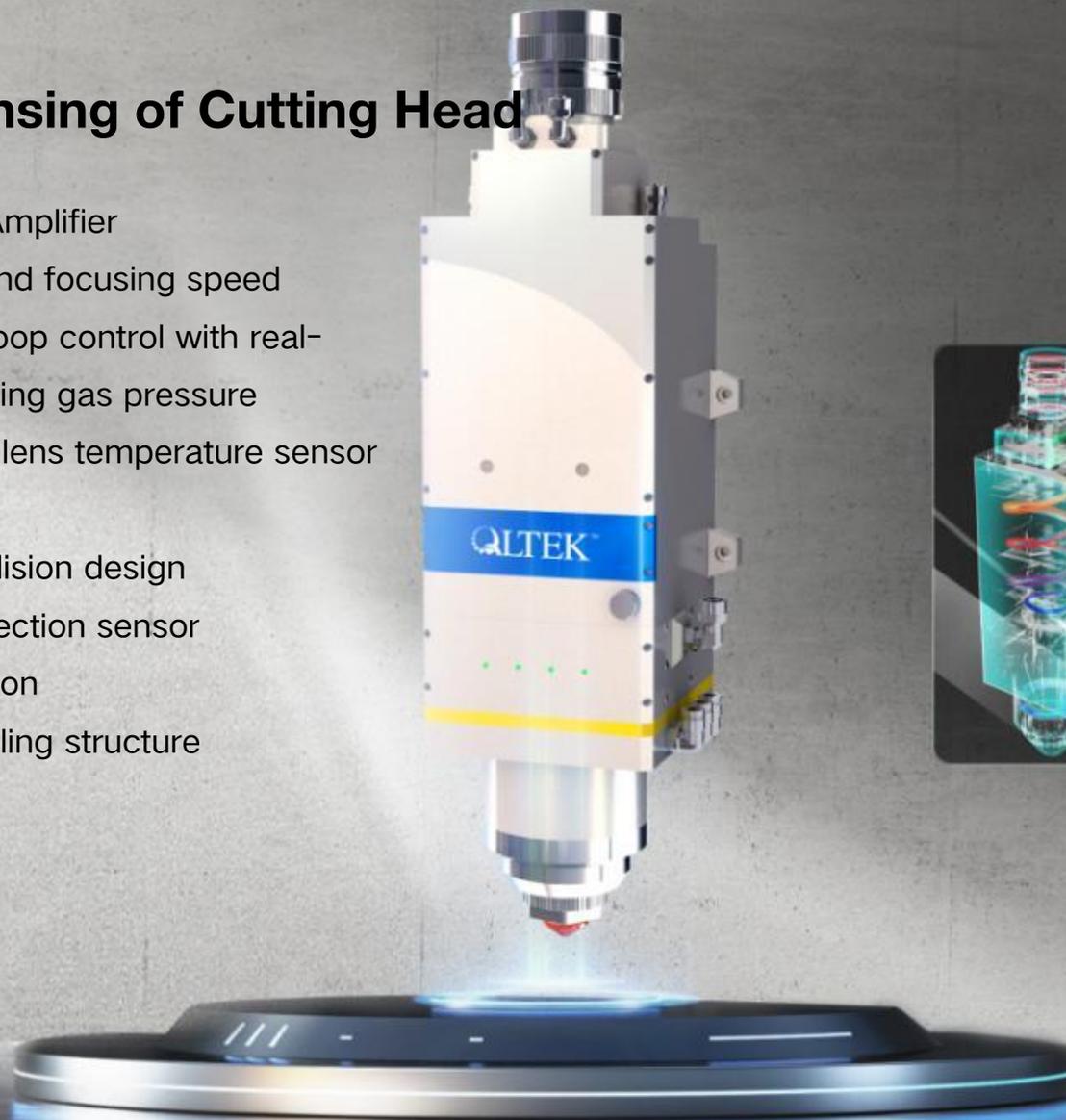
Intelligent integration.

High efficiency, energy saving and easy maintenance.

Fully automatic centralized lubrication, real-time oil volume monitoring, low oil pressure alarm, to ensure operating accuracy and stability.

## Capacitive Sensing of Cutting Head

- ©Built-in Capacitive Amplifier
- ©Faster collimation and focusing speed
- ©Pneumatic closed-loop control with real-time detection of cutting gas pressure
- ©Standard-equipped lens temperature sensor
- ©Stray light detection
- ©Mechanical anti-collision design
- ©Built-in piercing detection sensor
- ©Dual optical protection
- ©Patented water-cooling structure



## Software Features

### Easier Operating System

©The system has the characteristics of high reliability intelligence and networking, excellent performance, easy operation.

Extensibility: support external devices (such as loading and unloading, sorting machines, palletizing robots) or systems (such as central control system, MES, ERP) through OPC-UA, ADS and HTTP communication protocols.

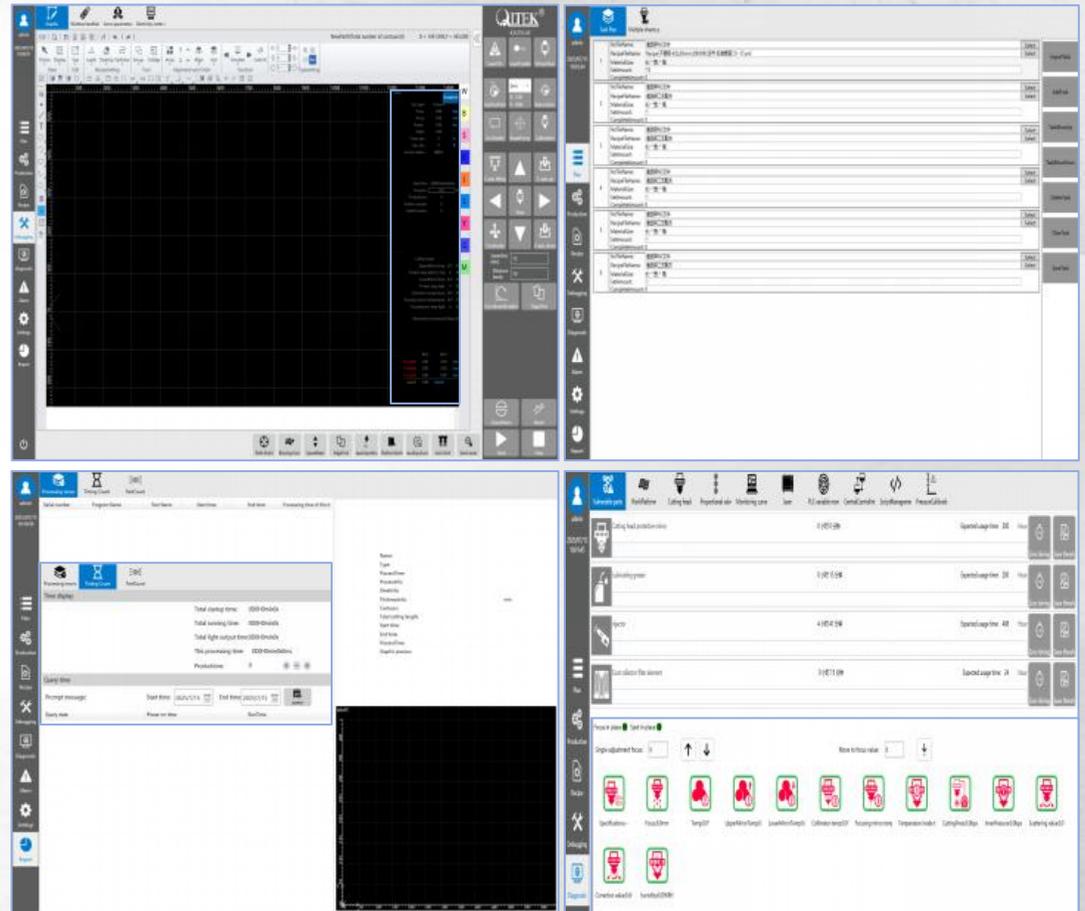
### Extensibility of Nesting Software

©Support all standard nesting software code formats in the industry.



# Software Function

- ©CAM module: HMI software integrates CAM, which has the function of drawing and modifying machining files online.
- ©Task planning module: supports setting production tasks and automatic batch processing.
- Report processing module: it has the functions of processing records, operation logs and alarm logs.
- ©Real-time status monitoring: gas, gas pressure, focus, temperature, output power, processing time, processing progress, cutting head status, axis status, running speed
- ©Diagnostic maintenance: Vulnerable parts, WorkPlatform,Cutting head ,Proportional valve,PLC variable mon,Central Controllnt,ScriptManagemer,Pressure Calibration
- ©Authority management module: it has the functions of user management and role management.



# Process Function

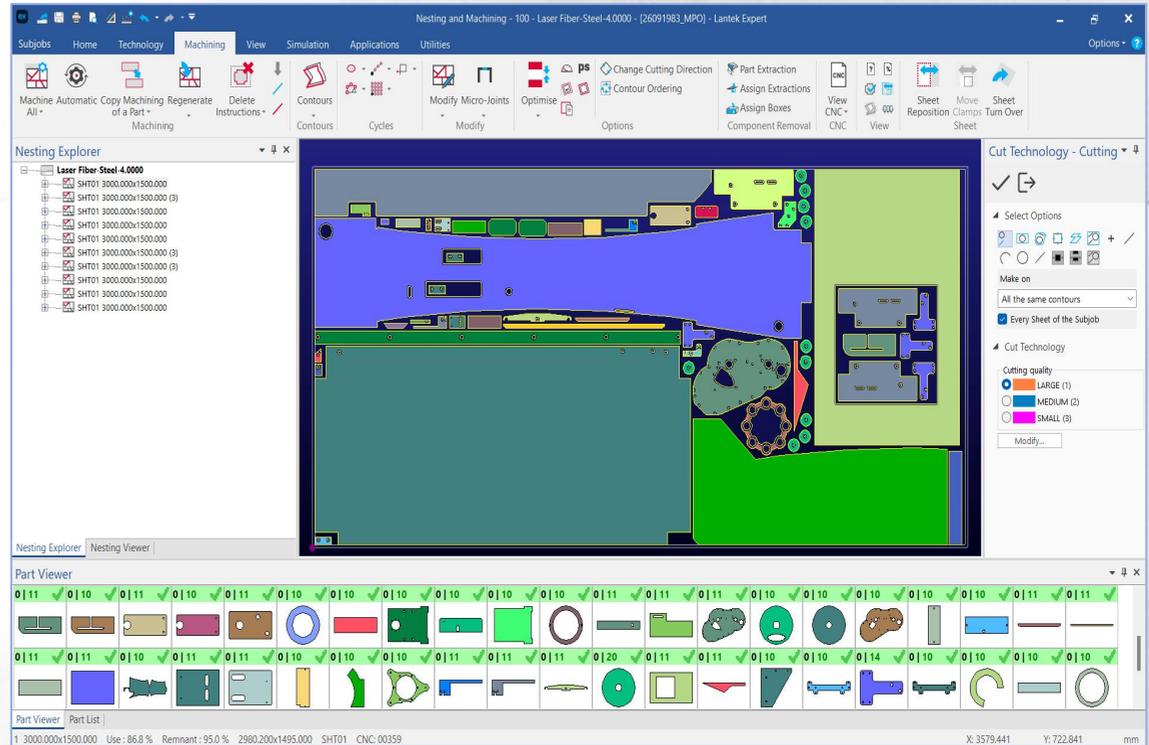
- ◎Automatic edge finding :circular edge finding and three-point edge finding
- ◎Extreme speed cutting function:greatly improving cutting efficiency
- ◎Extreme speed piercing function: improving hole opening efficiency
- ◎Intelligent tool retraction mode:abnormal re-cutting
- ◎Nano micro-connection:efficient and traceless
- ◎Cyclone slag cleaning technology: improving cutting stability
- ◎Layer definition:deep engraving, scribing and cutting completed in one go

The screenshot displays the QLTEK software interface, divided into several sections:

- Top Navigation:** Includes icons for cutting, perforation, and GeneralParameters, along with a user profile and system status.
- Left Panel:** A vertical list of process functions, each with a dropdown arrow, such as "Cut circle after punch", "Clean slag after punch", "SlowStartFunction", "Frog jump parameters", "Pause fallback function", "Sharp Corner Function", "Protective gas function", "Cooling Qigong Energy", "Cutting on fixed height", "Cut off protection", "Temperature zoom", "Common edge punch", "Focus temperature drift", "Precitec temperature drift", "Automatic cooling", "Real time calibration", "Countersink function", "Nano micro connection", "Circular marking", and "PauseContinue Perforation".
- Main Parameter Table:** A large table with columns for different cutting modes: Standard cutting, Marking, Slanting cutting, Burn fire, Pre cutting, and Light cutting. Each column contains various parameters like cutting speed, cutting power, cutting frequency, cutting duty cycle, cutting gas, cutting air pressure, cutting height, cutting focus, perforation mode, and perforation cycle time.
- Bottom Panel:** A detailed view of the "GeneralParameters" section, showing a table of parameters for different punch types: OrdinaryPunch, MultilayerPunch1, MultilayerPunch2, MultilayerPunch3, Pre-Punch, ConvertFoPunch, and Quick punch. Parameters include Perforation power, Perforation frequency, End frequency, Perforation duty cycle, Perforation gas, Perforation pressure, Perforation height, Perforation time, Gas after perforation, Perforation focus, and Perforation focus switch of frequency.

# Automatic Nesting

- ©Parametric Parts - The library solution has a rich library of parametric parts.
- ©Open Database - Users can access the database through materials and dates to find information such as parts and orders.
- ©2D Design - Intelligent Import/Export - Connected with (DXF, DWG, IGES, DSTV, etc., nc1).



## Cutting the Sample



A close-up, low-angle shot of a laser cutting machine in operation. The machine is silver and blue, with the 'QLTEK' logo on a blue band. Bright sparks are flying from the cutting head, which is positioned over a metal workpiece. The background is dark and out of focus, showing industrial structures.

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