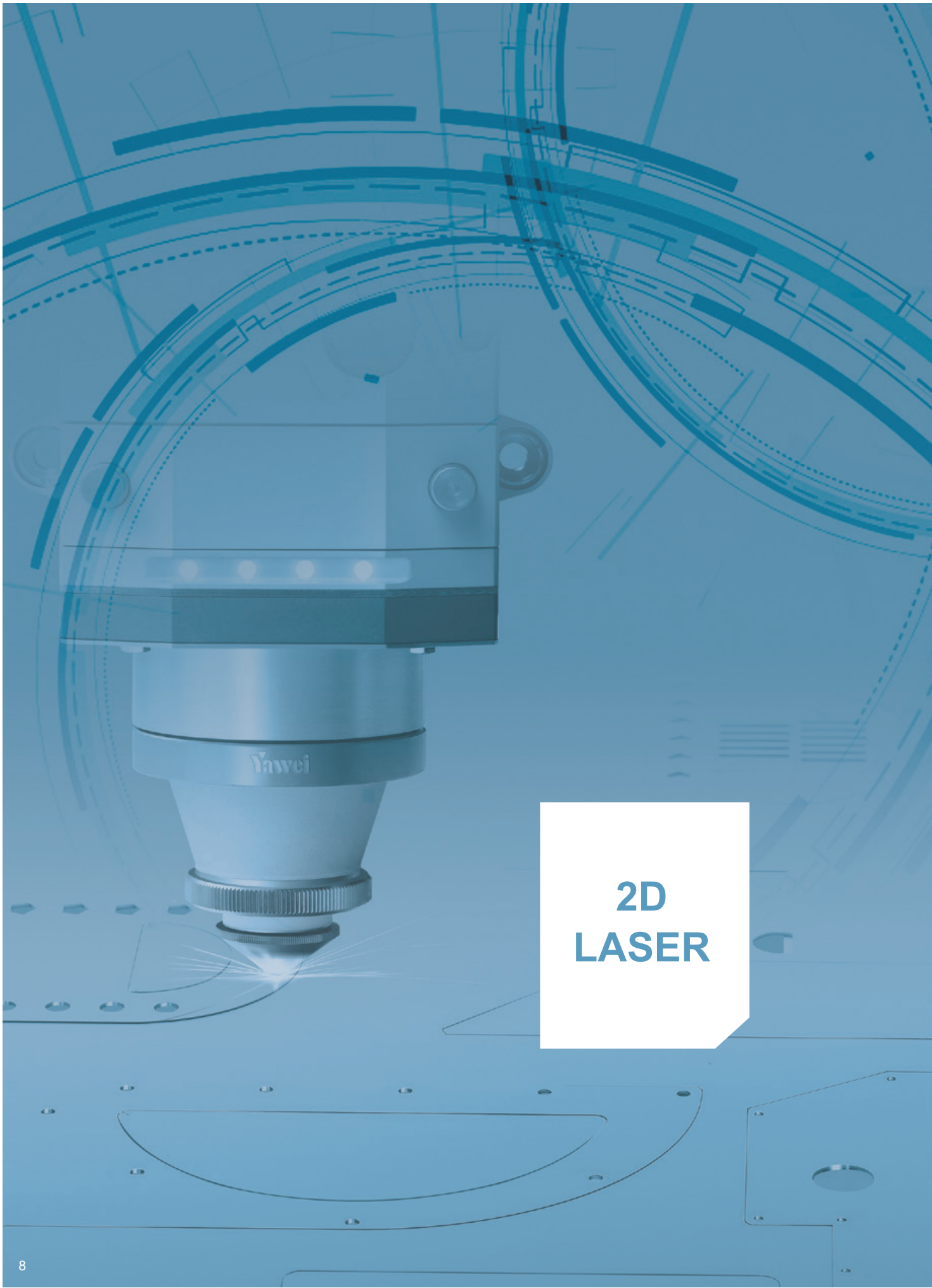




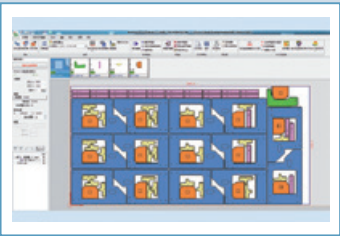
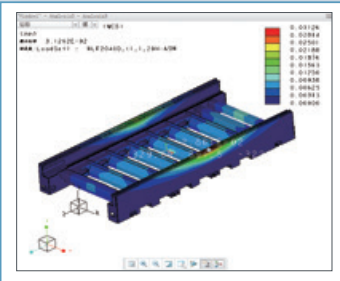
**2D
LASER**



HLE Series
Fiber Laser Cutting
Machine

HLE Series

Fiber Laser Cutting Machine



- Germany imported Beckhoff CNC controller, stable and reliable performance
- Customized development of laser cutting function package based on PC control technology, perfect combination of software and hardware
- TwinCAT open control framework, using the world's fastest and most reliable bus technology
- Gantry type steel structure welding bed, large tempering furnace integral annealing to eliminate internal stress, good rigidity, stability and no deformation
- The machine adopts the integral welding,processed in one time by a high-precision gantry machining center imported from Europe.
- No foundation is required to ensure long-term stable operationand shorten the commissioning period
- High-speed cutting of medium and thin plates, fast and reliable operation
- Yawei's original cutting technology of thunder piercing canimproves the overall cutting efficiency and saves time and effort
- The advanced automatic nesting of the standard auton-est module from CNCKAD can be used to realize batch typesetting processing of different materials and different plate thicknesses
- Maximize layout optimization, save materials and improve processing efficiency
- Efficient automatic nesting module, combined with graphic real-time simulation, make your programming handy and do more with less.

01 High performance and low cost

Quick response to control, saving gas, electricity and cost

02 Top quality

Using bright surface cutting technology, fast cutting speed, small slope, low roughness

03 Become rock-firm

Gantry double-drive high-rigidity bed structure, annealing and stress-relieving operation to sensure efficient and stable running

04 Handy operation

Humanized operation interface and cutting parameter library are fully upgraded

Key technical parameters

Item	Unit	HLE-1530	HLE-1560	HLE-2040	HLE-2060	HLE-2560	HLE-2580	HLE-25100	HLE-25120
Cutting range	mm	3000×1500	6000×1500	4000×2000	6000×2000	6000×2500	8000×2500	10000×2500	12000×2500
X axis stroke	mm	3040	6040	4040	6040	6040	8040	10040	12040
Y axis stroke	mm	1520	1520	2020	2020	2520	2520	2520	2520
Z axis stroke	mm	240	240	240	240	300	300	300	300
X-Y maximum trajectory speed	m/min	140	140	140	140	140	140	140	140
X / Y maximum acceleration	m/s ²	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G
Positioning accuracy	mm	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03
Repositioning accuracy	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Maximum load of worktable	Kg	700	700	1400	2000	3000	4000	5000	6000
Machine layout dimension	mm	8700×4800×2150	15500×4800×2150	11000×5000×2150	15500×5000×2150	15500×5500×2150	20000×5500×2150	23500×5500×2150	28000×5500×2150
Machine weight	Kg	8000	12000	10000	14000	20000	25500	30000	36000
Laser generator power	Kw	1 / 1.5 / 2 / 3 / 4 / 6					2 / 3 / 4 / 6 / 8 / 10 / 12 / 15 / 20 / 30		

DIVERSIFIED CONFIGURATION AND FLEXIBLE COLLOCATION



Bevel Cutting (Option)

- Achieve $\pm 45^\circ$ bevel cutting
- Welding can be done directly after cutting, saving time and labor cost



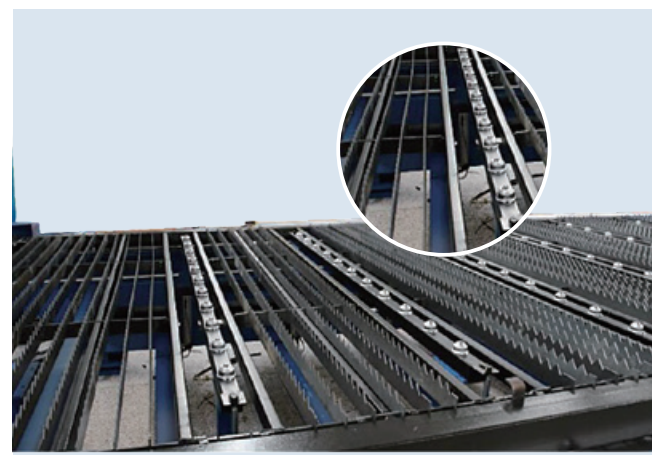
Hydraulic Lifting System (Option)

- Synchronous motor to achieve hydraulic synchronous lifting, with large load and low failure
- Shorter Z-axis travel, to meet high speed cutting
- Zone dust exhausting system with better effect



Secondary Positioning by Optical Eye (Option)

- Fast positioning for semi-finished product, precise secondary cutting
- Higher efficiency of automatic edge finding, better accuracy more intelligent
- Good leakproofness prevents splash, stable and reliable, moduling installation structure.



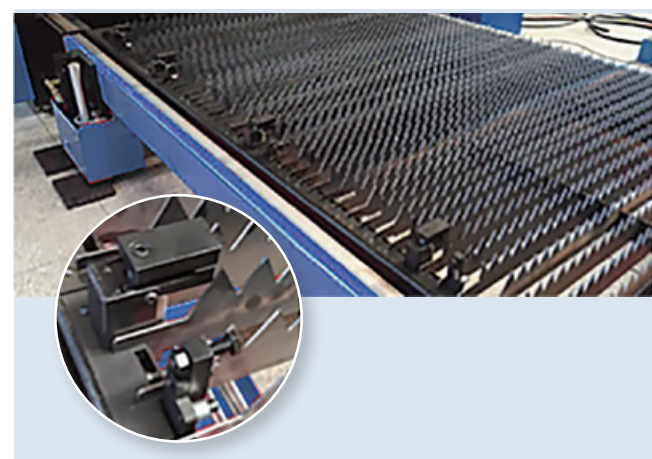
Pneumatic Sheet Support Device (Option)

- Convenient for loading and unloading, and reduce scratches, equipped with pneumatic jacking device
- Reduce the scratches on the surface of aluminum plate and stainless steel plate, a steel ball to be equipped on the top of jacking rod



Movable Operation Station (Option)

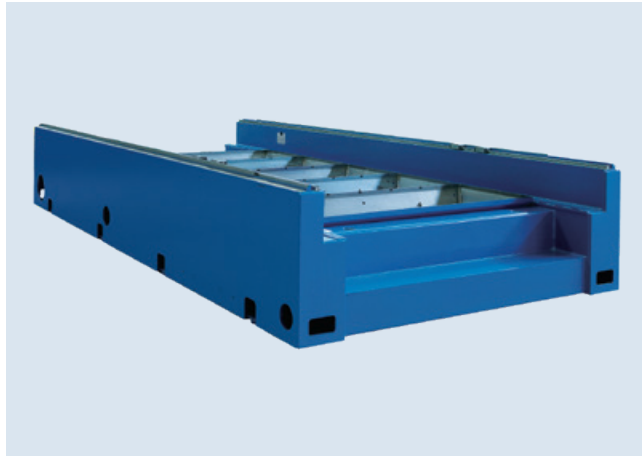
- Simplify labelling process, easy and quick operation
- Front and rear dual channel control screen, satisfying efficient cutting experience



Pneumatic Clamps And Side Positioning (Option)

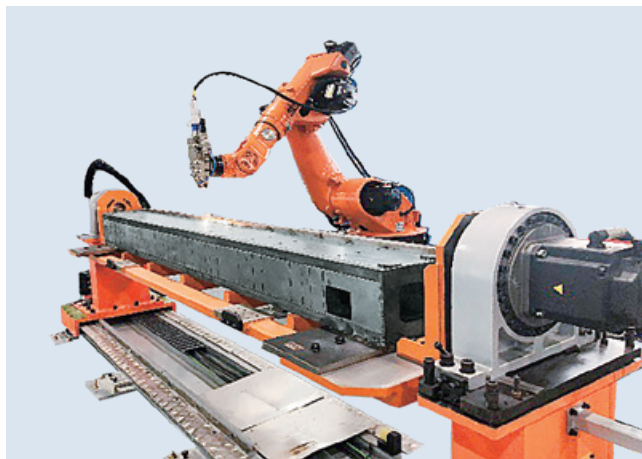
- Avoid the influence of auxiliary gas on the origin of plate positioning in thin plate processing
- Reduce the movement of plate with film during cutting, when the film is blown up by auxiliary gas

HIGH QUALITY COMPONENTS



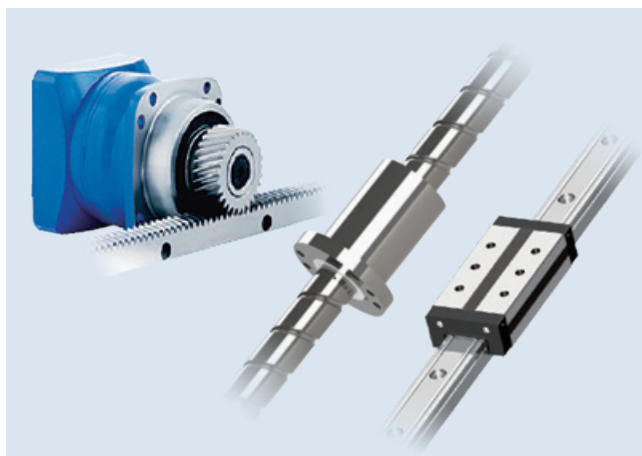
Basement

- Steel welded basement adopts annealing to relieve stress, reduces deformation and ensures good rigidity and stability
- The basement is processed by imported large-scale CNC equipment to achieve the precision beyond design standard
- Enhanced design for anti-heat design, easily capable of high power cutting



Beam

- The high rigidity and lightweight beam has better bending and torsion resistance, and natural frequency is increased by more than 15%
- The lightweight design is optimized by FEA to ensure higher rigidity
- High speed dynamic characteristics, fast acceleration



Transmission Parts

- International first-class brand from Germany/Japan
- High strength, low noise, long lifetime
- High positioning accuracy and perfect synchronization performance



Cutting Head

- Germany brand, with good stability, safety and high efficiency
- Guaranteeing the best cutting performance at the ideal cutting speed
- Lasermatic distance sensor with high efficiency and precision



Fiber Laser Generator

- Constant BPP over full power range, excellent light beam quality, and small laser facula
- Over 40% wall-plug efficiency, continuous processing for high reflective materials
- Modular 'plug & play' design, compact and firm structure, and convenient installation

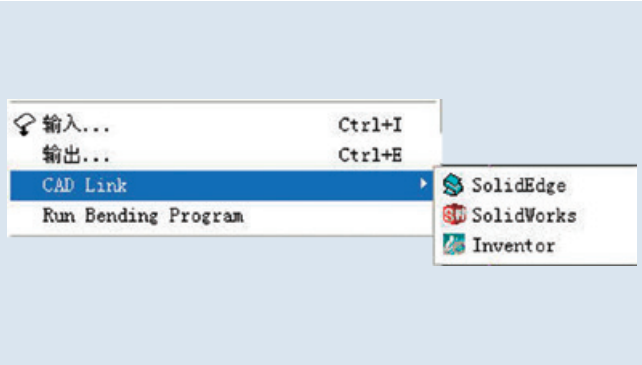


CNC System and Drive

- The CNC system adopts SIMENS 840DSL, driven by the new generation network architecture
- Realize functions like factory networking, machine information monitoring, remote diagnosis and so on
- Secondary development of advanced laser function by Yawei, all in readiness

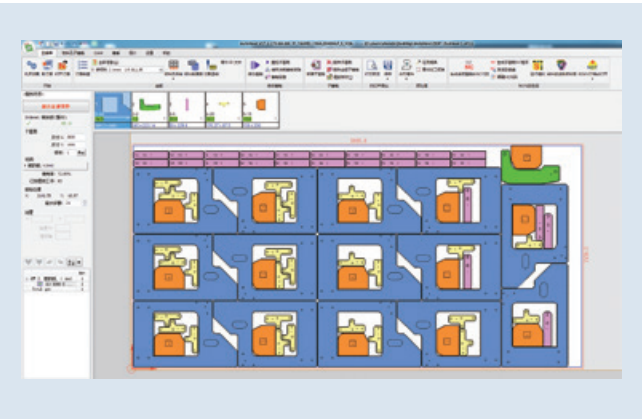
PROGRAMMING SOFTWARE

Customized CNCKAD programming software by Yawei for laser cutting machine, The practical graphic functions which is easy to be acquired, strong and flexible backup process. With the help of an auto-matic nesting module and a display of cutting simulation, you will do your cutting jobs efficiently.



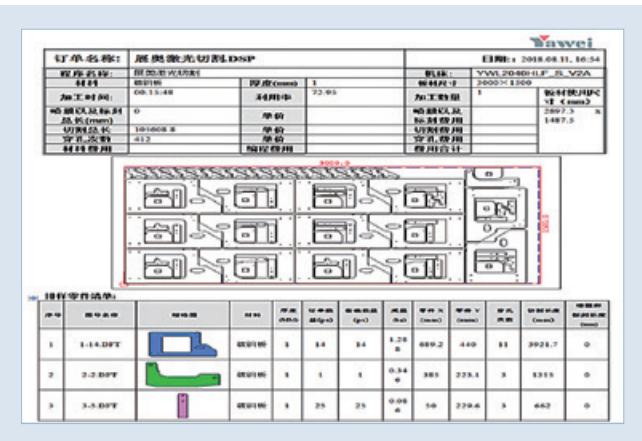
3D Design Unfold (Option)

- From 3D plotting software, such as Solid Edge, CNCKAD can read the 3D data automatically, and save the data in 2D graphics for further processing
- One-key real-time 3D files lead-in function has been realized really



Automatic Nesting

- With autonest module of CNCKAD, can realize autonest function for different batch production. This function helps to optimize the layout, save material, and improve efficiency
- The workpieces with different material can be nested on the related sheet automatically

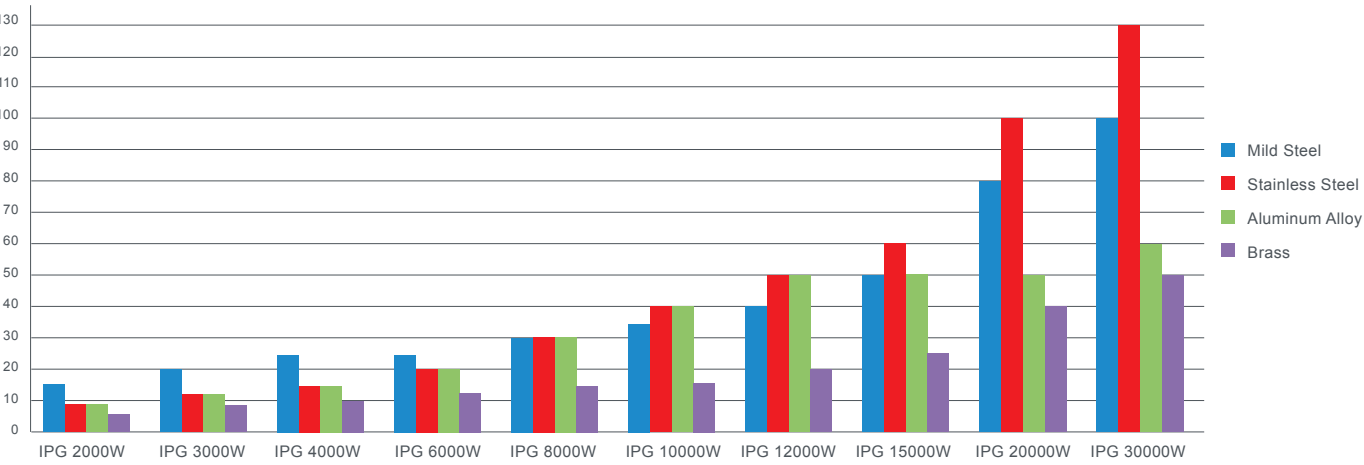


Process Report Documentation

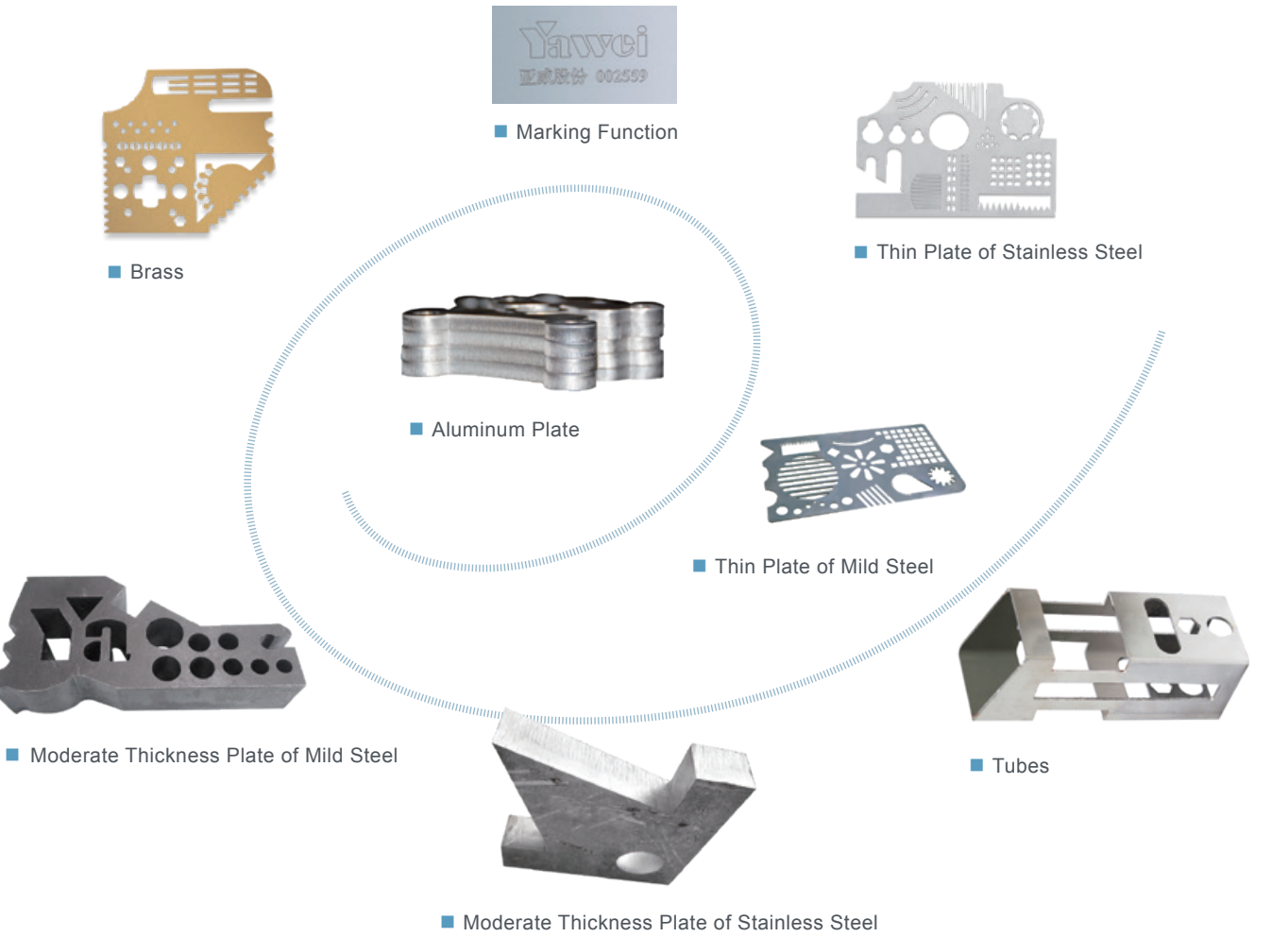
- The report generated by CNCKAD, includes the material, thickness, part quantity, part weight, cutting length, idle running time, and processing time
- Operators can receive all detailed information related to the processing programme from the report, thus the communication by document management

WIDE APPLICATIONS

Process capability



- The process capacity chart shows the testing data under specific conditions
- Even if for the same material, the cutting quality may differ due to different chemical composition contents, and processing shapes, etc





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