

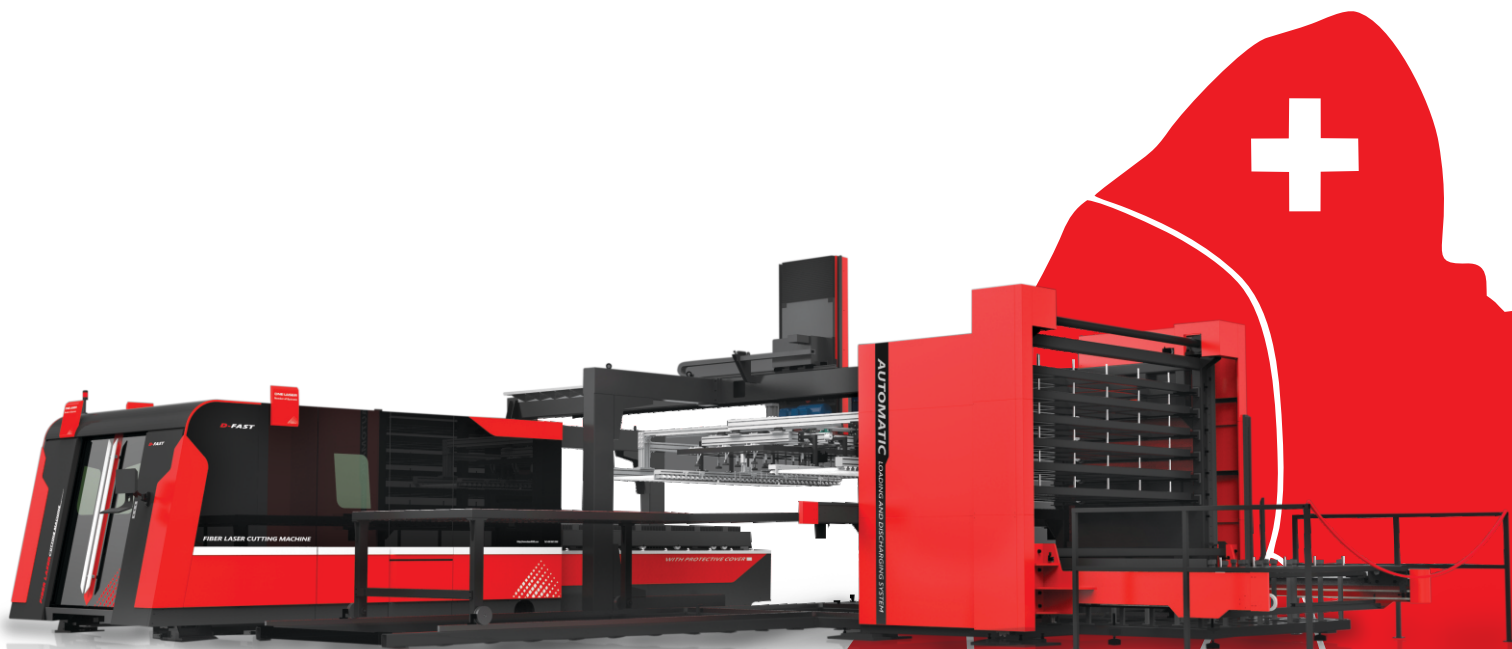


Angel India

# Angel India Cad Cam Pvt Ltd

[www.angelindiaimpex.co.in](http://www.angelindiaimpex.co.in)

[www.angelindiaimpex.net](http://www.angelindiaimpex.net)



Technology From Bystronic (Switzerland)

**NEW GENERATION HIGH POWER MACHINES !**

**DNE LASER**  
Member of Bystronic

## Versatile And Productive

DNE Bystronic Fiber LASER can process both ferrous and non-ferrous metals

## Economical And Cost Efficient

With Air cutting, high energy efficiency and minimized setup times

## Robust And Reliable

With IPG LASER, collision protection and service support all over India



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FIBER LASER FOR SHEET CUTTING

FIBER LASER TUBE CUTTING

MULTIPLE ORDERS







## Company Profile



Shenzhen DNE Laser Science And Technology Co., Ltd. is a high-tech enterprise specialized in R&D and producing laser equipment. After over 10 years of rapid innovative development in laser technology, DNE Laser has been keeping up with the international forefront laser technology. Now, DNE Laser owned production base covering 38,000 square meters and professional talented experts' team. With world-renowned laser devices parts suppliers from Germany, USA, UK, DNE Laser has been developing laser cutting equipment with high-efficiency of electro-optical conversion, high beam quality and stable performance. A number of technologies have enjoyed leading position in China Asia, especially cutting thickness and speed. In 2016, Joint Venture between DNE Laser and Bystronic Group (Switzerland) was successfully built with new brand BYSTRONIC DNE LASER. DNE Laser formally became a member of Bystronic Group. Forever operation philosophy of DNE Laser is: Quality is our social responsibility. All the machines have been developed by innovative design & precise manufacture. All the procedures have been controlled by international standard to ensure each laser cutting machine in best performance & quality condition. DNE Laser has more than 7000 users now widely distributed in domestic and overseas market, such as Germany, Russia, Spain, India, Korea, Malaysia, Singapore, Saudi Arabia, South Africa, Indonesia, Turkey, Jordan, Dubai, Poland, Morocco, Mexico, Brazil, Lebanon, Thailand, Kazakhstan, Bangladesh, HK, Taiwan and so on. DNE Laser has set up the sales and service branches in Shanghai and Beijing with an area of over 3000 square meters respectively and also over 70 customer service offices in different provinces and cities in China. In addition, over 10 service sites in overseas market has been set up.



In July 2016, Bystronic Group (Switzerland) and DNE Laser successfully set up the joint venture company.



168 machines are assembled in the workshop simultaneously



Shenzhen Demo Center (headquarter)



Shanghai Office



Shanghai Demo Center



Beijing Office





Media release  
Zurich, September 30, 2020

conzzeta

## Bystronic takes full control of DNE Laser Enhanced flexibility to deploy growth strategy

Zurich, September 30, 2020 – As part of the growth strategy for its Bystronic business unit, Conzzeta announces the signing of an equity transfer agreement to increase the participation in DNE Laser, Shenzhen, China, from 70% to 100%.

With the acquisition of the remaining minority stake of 30%, Bystronic reduces complexity and paves the way to meet the evolving client needs in sheet metal processing in China and beyond.

**According to Alex Waser, CEO of Bystronic and EC Member of Conzzeta:** “In context of the current market situation and our ambitious growth plans, this is a good moment in time to take full control of DNE Laser. We further strengthen our ties as we aim to jointly realize our potentials, also by developing our market coverage across client groups as well as by making our product offering more complete to the benefit of our clients.”

Bystronic acquired an initial participation in DNE Laser of 51% in July 2016, followed by an increase to 70% in August 2019. DNE Laser contributed in 2019 net revenue of CHF 83 million to the sheet metal processing segment revenue of Conzzeta. DNE Laser will continue to operate under its own brand and with a dedicated sales and service organization for its cost-efficient laser cutting equipment to serve entry level clients, complementing the product and solution offerings of Bystronic.

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### About Conzzeta

Conzzeta is a diversified Swiss group of companies. It stands for innovation, market orientation and an entrepreneurial approach. About 5,000 employees at more than 60 locations worldwide work in the Sheet Metal Processing, Foam Materials and Outdoor segments. In December 2019, Conzzeta announced a strategic focus on the Sheet Metal Processing segment and the sale of all its other activities. Conzzeta AG is listed on the SIX Swiss Exchange (SIX:CON).



## Product Details

### IPG FIBER LASER SOURCE

#### Strategic Partnership with IPG

The fiber source is ideally the heart of the whole machine and is responsible for the Quality and Accuracy being generated by the machine. DNE Bystronic uses IPG Photonics IPG is the oldest and best Fiber Laser source manufacturer in the world. IPG's unique technology platform allows our products to have higher output power and Superior beam quality at a lower cost than that can be achieved by any other competing technology. Our proprietary designs are based around the innovative pumping techniques and High-performance components perfected by IPG over a 20 year period of intense investment and innovation. The cornerstones of IPG technology are our cladding side-pumping technique and distributed single-emitter diode pumping. DNE Bystronic is Strategic Partner's for IPG Photonics



### DNE Bystronic Motion System



#### Gudel Helical Rack and Pinion - Switzerland

DNE Bystronic utilize a high grade helical Rack and pinion drive system from Gudel (Switzerland) in motion system to achieve a high speed of 140m/min with an acceleration of 1.5G. Wider helical rack and pinion provides even a longer life and precision even at high speeds.

#### Schneider - France

Imported guiding transmission elements and servo motors have high precision, high speed, low energy consumption, energy conservation and environmental protection.



#### Speed Reducer Neugart – Germany

DNE Bystronic utilize a German made high quality speed reducer from Neugart to maintain the high accuracy and control speed for every cutting job performed on the LASER Machine.





# Product Details

## Bystronic DNE LASER Cutting Head

With our D-fast model cutting head we have better ability to integrate laser beams to improve the utilization rate of light, fast cutting speed, better edge quality and long continuous and stable cutting.

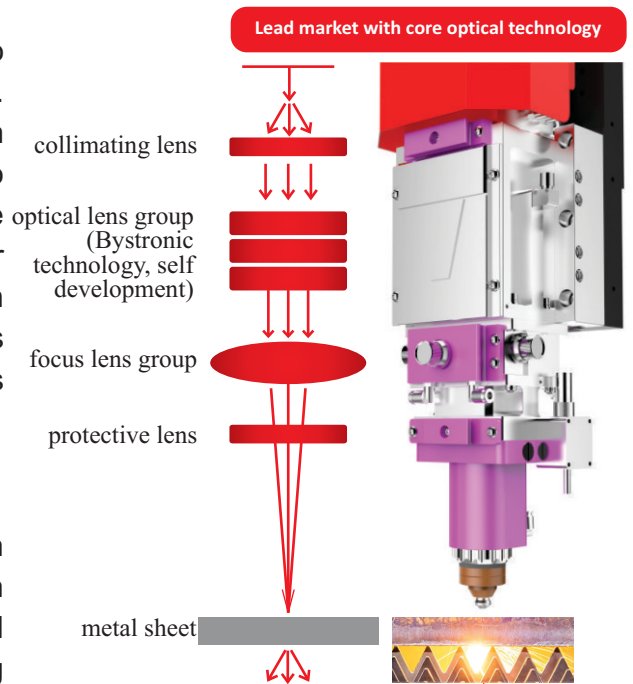
**Anti - Collision** - High sensitivity capacitive sensor are used to avoid any crash during operations at very high speed. Advanced sensor setting helps the head to be protected from any raised metal material which might strike/damage it. Auto focus and zoom function makes the machine experience simpler and more intelligent. Another advancement in our patented head technology is the internal cooling system which improves head cooling efficiently. Double cooling system is used to avoid light drift heat that can cause damage to the lens group and thus increasing the life of all the lenses.

### Collimation Lens Group - Motorised

DNE Bystronic has a special set of collimating lenses that can change the position of focus by NC operating system. When focussed beam hits the workpiece, surface is melted and vaporized by the ultra-fine focus spot. Thereby achieving automatic cutting.

### Focus Lens Group - Fixed

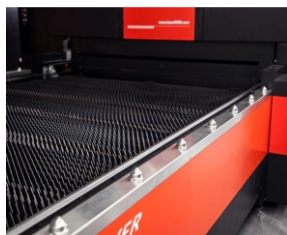
DNE Bystronic utilise high quality German made lenses for focussing the LASER beam on-to the material that needs to be cut. The longer focal length of these lenses help in reducing the Taper to negligible.



## D-Series Series Advantage



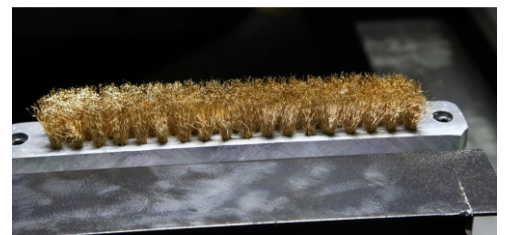
AC Cabinet for IPG



Speed of exchange table only 8 seconds to finish the exchange action.



New support rack 5mm MS support rack over 4000W power machine



Automatic nozzle cleaning device Bystronic standard design with automatic nozzle cleaning device save time, intellectually and automatically.



## Product Details

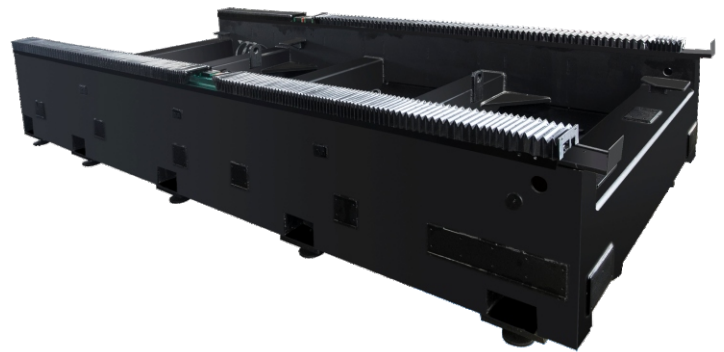
### DNE Bystronic Gantry – Aluminium Casted



High pressure die casting done in customised steel mould to achieve the high quality gantry with aeroplane grade aluminium. After moulding process the gantry is sent for NC controlled high temperature annealing, this provides a longer life to the gantry.

### Embedded steel plate wall structure basement

Basement wall: precision welded by national standard steel plate. Inside the wall every small distance will be welded stiffener, the wall inside and outside the hole, will strengthen the embedded welding sheet metal into the machine tool to make more solid, and easy to detect whether there is a void welding, leakage welding, and machine tool use more than 10 years without deformation!



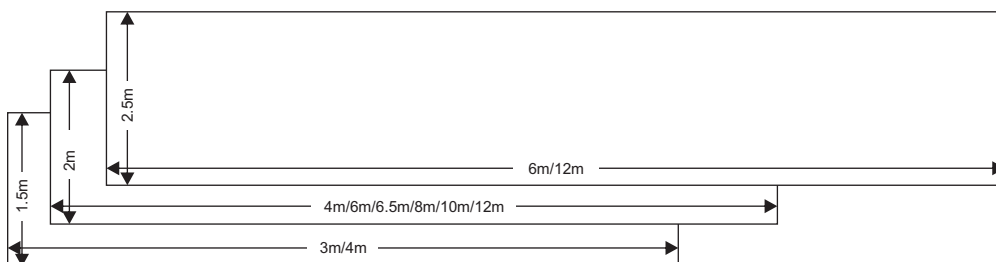
### Bystronic DNE Automatic Chiller

DNE Bystronic chiller provides cooling water to the LASER head and to the IPG Fiber LASER Source. The chiller has its own heating and cooling coils. This chiller can automatically control the temperature and provides the cooling water as required by the source. The chiller is made in such way that it does not ionize the water. DM water can be used for as long as 25 working days.



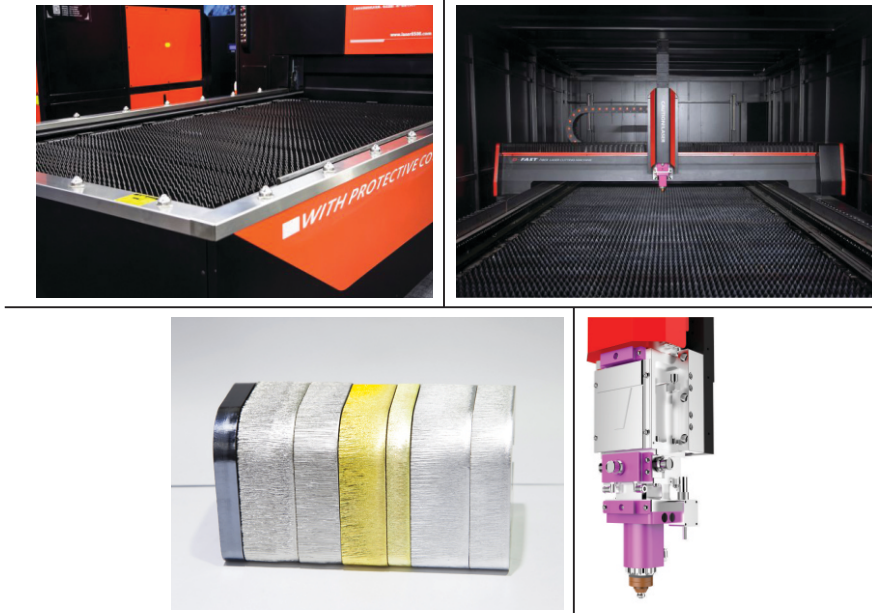
### Table Size Range

The table sizes are available from 1.5×3m, 1.5×4m, 2×4m, 2×6m, 2×12m, 2.5×6m, 2.5×12m.





## Fiber LASER - Sheets



### Technical Parameters

Model	D-Series__FCCBD__		
Laser Source	imported original fiber laser sources (optional)		
Power of Laser	10000W	12000W	15000W
Format	1500x3000 / 1500x4000 / 2000x4000 / 1500x6000 / 2000x6000mm (optional)		
Max. Cutting Speed	depending on the material and its thickness		
Repositioning Accuracy	±0.02mm		
total Electrical Consumption	< 46KW	< 52KW	< 65KW
Power Supply	380V / 50Hz / 60HZ / 60A		
Footprint	9,000mm*5,000mm for cutting 1,500mm*3,000mm		

## ULTRA-HIGH POWER

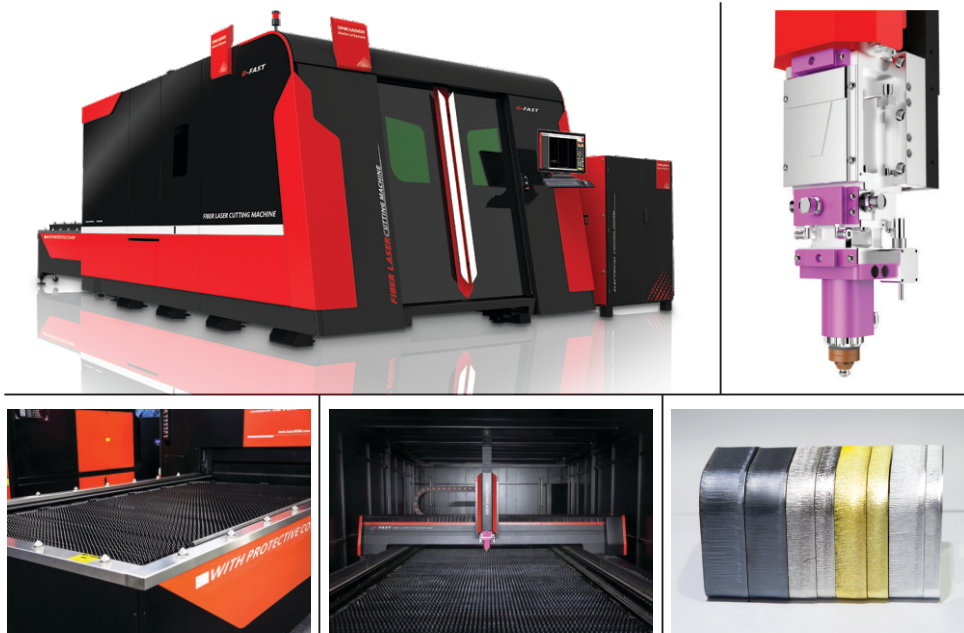
(10KW - 15KW)

WITH PROTECTIVE COVER AND  
 AUTOMATIC INTERCHANGEABLE TABLES





## Fiber LASER - Sheets



### Technical Parameters

Model	D-Series_FCCBD__		
Laser Source	imported original fiber laser sources (optional)		
Power of Laser	4000W	6000W	8000W
Format	1500x3000 / 1500x4000 / 2000x4000 / 1500x6000 / 2000x6000mm (optional)		
Max. Cutting Speed	depending on the material and its thickness		
Repositioning Accuracy	±0.02mm		
total Electrical Consumption	< 25KW	< 31KW	< 39KW
Power Supply	380V / 50Hz / 60HZ / 60A		
Footprint	9,000mm*5,000mm for cutting 1,500mm*3,000mm		

## HIGH POWER (4KW - 8KW)

Fiber Laser Cutting Machine  
 WITH PROTECTIVE COVER AND AUTOMATIC  
 INTERCHANGEABLE TABLES







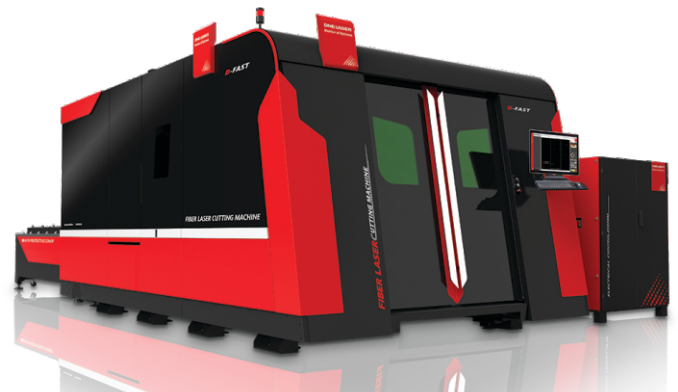
## Fiber LASER - Sheets



### Technical Parameters

Model	D-Series__FCC__		
Laser Source	imported original fiber laser sources (optional)		
Power of Laser	1500W	2000W	3000W
Format	1500x3000 / 1500x4000 / 2000x4000 / 1500x6000 / 2000x6000mm (optional)		
Max. Cutting Speed	depending on the material and its thickness		
Repositioning Accuracy	±0.02mm		
total Electrical Consumption	< 15KW	< 18KW	< 22KW
Power Supply	380V / 50Hz / 60HZ / 60A		
Footprint	9,000mm*5,000mm for cutting 1,500mm*3,000mm		

**MEDIUM POWER** (1.5KW - 3KW)  
**Fiber Laser Cutting Machine**  
 WITH PROTECTIVE COVER AND AUTOMATIC  
 INTERCHANGEABLE TABLES





## Fiber LASER - Sheets



### Technical Parameters

Model	D-Series__Gz200				
Laser Source	imported original fiber laser sources (optional)				
Power of Laser	1500W	2000W	3000W	4000W	6000W
Format	1500x3000 / 1500x4000 / 2000x4000 / 1500x6000 / 2000x6000mm (optional)				
Max. Cutting Speed	depending on the material and its thickness				
Repositioning Accuracy	±0.02mm				
total Electrical Consumption	< 15KW	< 18KW	< 22KW	< 25KW	< 31KW
Power Supply	380V / 50Hz / 60HZ / 60A				
Footprint	9,000mm*5,000mm (1500x3000mm) 9,000mm*5,000mm for cutting 1,500mm*3,000mm				

## ROTARY ATTACHMENT

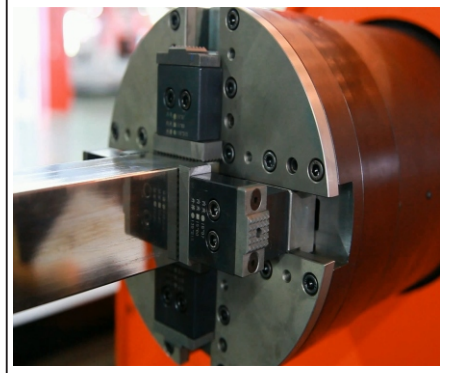
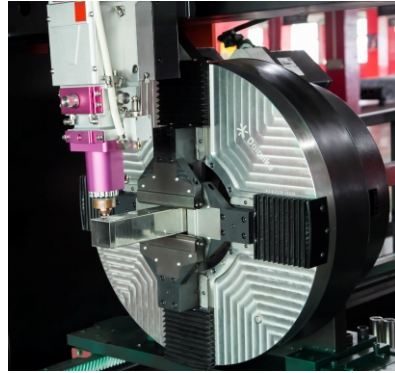
Fiber Laser Cutting Machine

OPEN TYPE MACHINE WITH TUBE CUTTING FUNCTION





## Fiber LASER - Sheets



Technical Parameters	Technical parameters
Model	D-Series2260ZYQG—LK
Loading pipe type	Round tube, square tube, rectangular tube, oval tube, etc.
Feeding length	Automatic loading: 3500mm-6100mm
Feeding size range	Round tube : $\Phi$ 15mm- $\Phi$ 220mm Square tube : $\square$ 15mm- $\square$ 150mm
Maximum load of material rack	4000kg
Cycle loading cycle	First loading $\leq$ 70s , Follow-up loading $\leq$ 20 s
Maximum single tube weight	Specified load : 100kg , Maximum load : 120kg(20kg/m)
Appearance size (length $\times$ width $\times$ height)	7600mm*2200mm*3500mm
Number of phases / power rating / voltage	3/380V/50Hz,Voltage fluctuation $<$ 10%

## TUBE PROCESSING Fiber Laser Cutting Machine

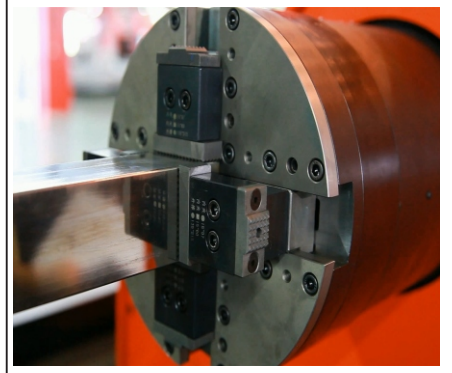
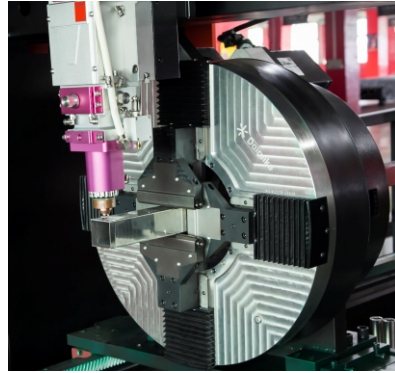
WITH PROTECTIVE COVER AUTOMATIC LOADING AND DISCHARGING SYSTEM







## Fiber LASER - Tube



Technical Parameters	Technical parameters
Model	D-Series_0860ZYQG—BLK
Loading pipe type	Round tube, square tube, rectangular tube, oval tube, etc.
Feeding length	Automatic loading : 3500mm-6100mm
Feeding size range	Round Tube : $\phi$ 15mm- $\phi$ 80mm      Square Tube : $\square$ 15mm- $\square$ 50mm
Maximum load of material rack	500kg
Cycle loading cycle	First feeding $\leq$ 50s, subsequent feeding $\leq$ 15 s
Maximum single tube weight	Rated load: 90kg, maximum load: 120kg (20kg / m)
Appearance size (length $\times$ width $\times$ height)	5300mm*1900mm*1500mm
Number of phases / power rating / voltage	3 / 380V / 50Hz, voltage fluctuation $<$ 10%

## TUBE PROCESSING

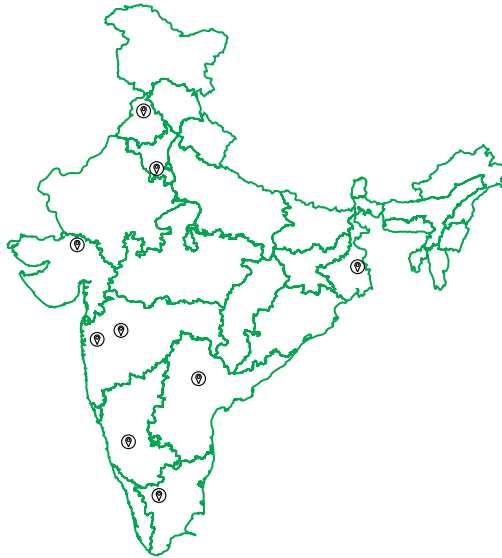
### Fiber Laser Cutting Machine

WITH PROTECTIVE COVER SEMI - AUTOMATIC LOADING AND DISCHARGING SYSTEM





- Delhi
- Ludhiana
- Ahemdabad
- Mumbai
- Pune



- Kolkata
- Hyderabad
- Bangalore
- Chennai







Angel India

## Angel India Cad Cam Pvt Ltd



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