RC304

Five-Axis Cutting Head

The Han's Focus RC304 5-Axis Cutting Head enables complex 3D laser processing with high precision, dynamic focus adjustment, and multi-angle cutting capabilities for industrial applications.

Features

- High-precision Cutting: Utilizing a direct-drive shaft design, it boasts high precision, excellent response, and a repeatability positioning accuracy of ≤ + 0.005 °
- High Compatibility: It is compatible with systems from Siemens, Rexroth, Fanuc, etc., and features Five-Axis linkage functionality
- Collision Protection: It features collision protection at any angle and can quickly reset after a collision
- Flexible Switching: Replaceable swing shaft for 3D welding functionality

Applications

- Aerospace
- Shipbuilding
- Automobile Making
- Machinery Manufacturing




Parameters

Parameter	RC304
Beam Aperture	35 mm
Medium	
Optics	Collimating Lenses Ff = 100 Focusing Lenses Ff = 150
Installation	Horizontal and Vertical Mounting (optional) Horizontal Adjustment Range ± 1.25 °
C Axis	
Rotating Range	n * 360 °
Maximum Rotating Speed	max. 90 r / min
Maximum Acceleration	60 rad / s2
A Axis	
Rotating Range	± 135 °
Maximum Rotating Speed	max. 90 r / min
Maximum Acceleration	60 rad / s2

Torque Parameters

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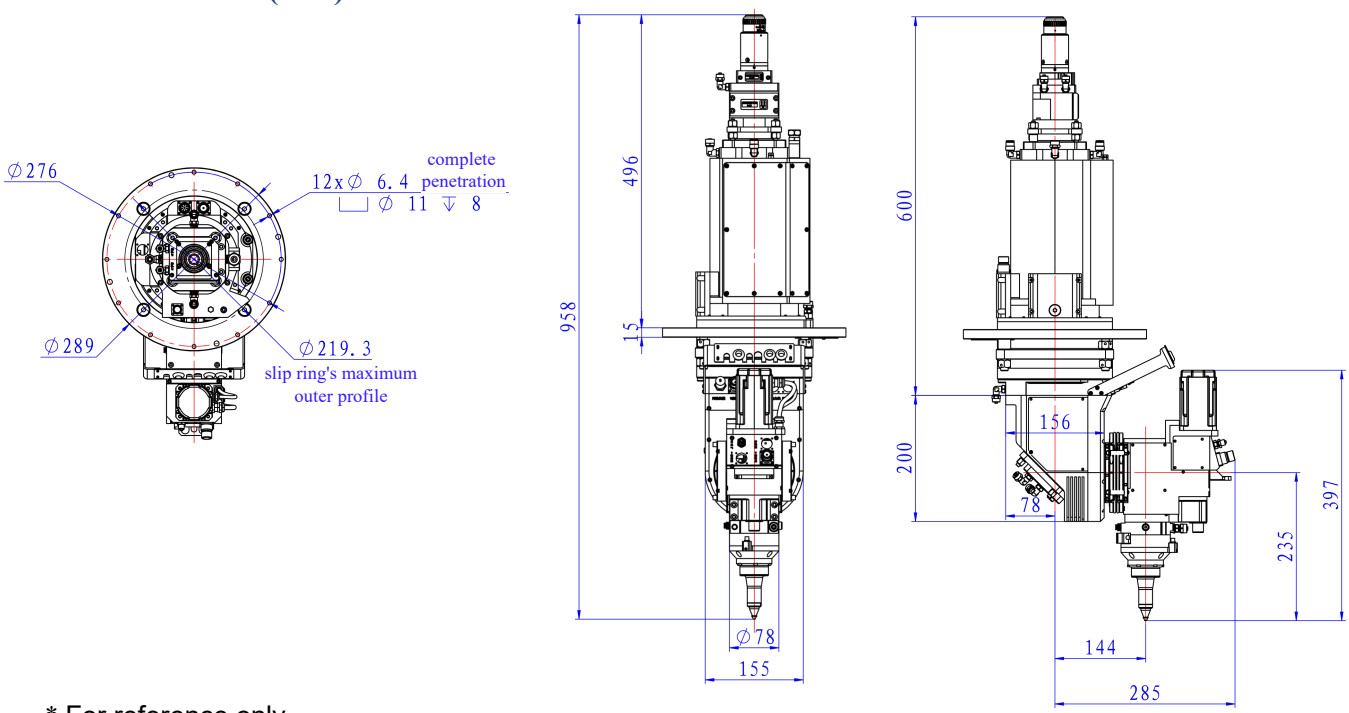
Parameter	RC304
Drive Load	Torque Motor (See Motor Parameter Table for Details)
Inertia	Depend on the Configuration
Encoder System	Absolute Circular Grating Applicable to Fanuc System, Optional for Other Systems
W Axis	Take Fanuc as an example
W-Axis Stroke	± 12.5 mm
Maximum Speed	30 m / min
Maximum Acceleration	4 g
Rated Torque	0.65 NM
Maximum Torque	2.5 NM
Driving Device	Servo motor (Fanuc)
Encoder System	FANUC
Laser	4 Kw
Fiber Connector	Standard QBH, Other Optional Connectors
Weight	About 35 Kg
Storage Temperature	- 15° C ~ 50° C
Operating Environment	Temperature: 10° C ~ 45 ° C, Humidity: < 80 %

* All specifications are typical data and subject to change without notice due to product improvements.

Dimensions (mm)



* For reference only

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