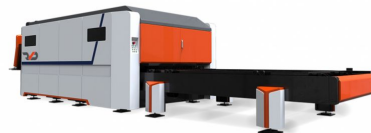# RVD SmartFibre PR 3015/2500 CNC Fibre Laser

The RVD precision laser cutting machine include both compact models in small bed sizes as well as fully automated models with shuttle tables for production cutting.

The RVD laser is a heavy duty work horse manufactured using the world's leading mechanical and electrical components to maximise production but also to minimise downtime due to part failure. The RVD laser has a full enclosure design meeting CE standards resulting in radiation safe production. High precision servo motors and heavy duty ball screw driving systems ensure reliability, cutting accuracy and consistency.

All RVD PR models are supplied with a fast automatic hydraulic shuttle table with dual pallet changer to increase cutting time. Class leading components have been carefully selected resulting in a fast and reliable machine for production cutting. CCTV is fitted as standard equipment allowing the operator to safely view the cutting action. The optional tube cutting attachment can process round, square and oval tube up to 160mm.

The nLight laser source is available in various power ratings from 500W and upwards. Additional features include a cutting head supplied by RayTools of Switzerland and high quality linear motion system with servo drives. Standard bedsizes range from 1500×1000 to 2000x6000mm.

Features

- High performance nLIGHT fibre laser technology
- Raytools high performance torch with crash protection system
- Rigid gantry system ensuring fast accurate positioning to X and Y axis
- Automatic height sensor to ensure optimum cutting efficiency
- Class leading brand components
    - nLIGHT laser source – US
    - Raytools cutting head – Switzerland
    - Cypcut CNC controller – China
    - Cypdraw CAD/CAM software – China
    - Schneider electrics – France
    - Alpha Gear rack and pinion - Germany
    - Hiwin linear guides – Taiwan
    - Yaskawa servo motor and driver - Japan

Technical Specification

Laser Power	kW	2.5
Laser Source		Fibre
X Axis Travel	mm	3000
Y Axis Travel	mm	1500
Z Axis Travel	mm	200
Maximum Sheet Size	mm	3000 x 2500
Positioning Speed	m/min	100
Positioning Speed with Performance Pack	m/min	150
Axis Acceleration	G	1.2
Axis Acceleration with Performance Pack	G	2.0
Table Exchange Time	s	15
Maximum Table Capacity	kg	800
Positioning Accuracy	mm	±0.05
Repeat Position Accuracy	mm	±0.03
Length	mm	9000
Width	mm	4000
Height	mm	2500
Weight	mm	14000

Options

- Performance Pack
    - Beckhoff TwinCAT CNC controller - Germany
    - SigmaNEST CAD/CAM software - US
    - Motor Power servo motor - Italy
    - Dynamic aluminium bridge
- IPG Laser Source - Germany
- Tube cutting attachment – maximum 160mm round tube, 160mm oval tube, 105mm square tube. Available in 3m and 6m lengths.
- Auto focus cutting head (*Standard on 2.5kw models and above)*
- Extraction