



Smart Fibre PR CNC Laser

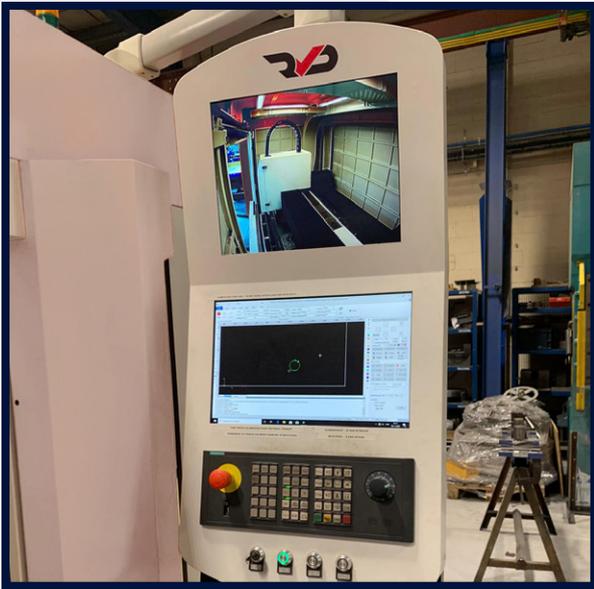
The RVD SmartFibre PR CNC fibre laser cutting machine is available with a bed size of 1.5m x 3m, 2m x 4m or 2m x 6m - with power sources ranging from 1.5kW through to 8kW.

All RVD PR models are supplied with an automatic transfer table, allowing the operator to easily load and unload the material. The range of bed sizes fits most use cases.

CCTV with one camera is fitted as standard, as a result the operator can safely view the cutting action. Furthermore, class leading components have been carefully selected to ensure longevity and reduced downtime.



THE SMART FIBRE PR



CNC CONTROLLER

**WATCH THE
MACHINE IN
ACTION**



Machine Features

- High performance IPG fibre laser technology
- Raytools high performance torch with crash protection system
- High strength, rigid gantry design to ensure high accuracy and consequently allow high acceleration
- Ultra high precision class alpha rack and pinion drive motion system
- Drawers fitted underneath the cutting table for the removal of small parts and scrap
- High speed dual pallet mechanical transfer table allowing cutting during loading and unloading
- CE compliant complete machine enclosure and light barrier system
- Cypcut CNC Laser Control and Software

Optional Extras

- Performance Pack (standard on 6 and 8kw):
 - Beckhoff TwinCAT CNC controller - Germany
 - SigmaNEST CAC/CAM software - US
 - Motor Power servo motor - Italy
 - Dynamic Aluminium Bridge
- Precitec Auto focus cutting head (standard on 6 and 8kw)
- Tube cutting attachment (max 160mm round, 160mm oval, 105mm square tube. Available in 3m and 6m lengths.
- Extraction system



CHILLER UNIT



RAYTOOLS CUTTING HEAD

TECHNICAL SPECIFICATIONS

PART	PR 3015	PR 4020	PR 6020
Laser Power	1.5 - 8kW IPG (USA)		
Processing Surface (L x W)	1500 x 3000mm	2000 x 4000mm	2000 x 6000mm
CNC Control	CypCut		
	Optional: Performance Pack: Beckhoff (German)		
Laser Head	RayTools Switzerland		
Servo Motor and Driver	Standard: Yaskawa		
	Optional: Italian Motor Power with Performance Pack		
Linear Guide	Hiwin		
Chiller	Tong Fei		
Position Accuracy X, Y and Z Axis	±0.03mm		
Repeat Position Accuracy X, Y and Z Axis	±0.02mm		
Maximum Position Speed of X and Y Axis	Standard: 100mm/min / Performance Pack: 150mm/min		
Acceleration	Standard: 1.2G / Performance Pack: 2.0G		
Max Sheet Size	3,000 x 1500	4000 x 2,000	3000 x 1500
Max Load of Shuttle Table	1,000kg	1,000kg	1,000kg
X Axis Travel	3,000	4,000	6,000
Y Axis Travel	1,500	2,000	2,000
Z Axis Travel	200	200	200
Length	9,500	12,500	16,000
Width	5,500	5,800	5,800
Height	2,460	2,460	2,460
Weight	7,500	12,500	16,500

RVD LASER CUTTING CAPACITY TABLE

FIBRE LASER POWER			1.5kW	3kW	4kW	6kW	8kW
Material	Gas	Capacity					
Carbon Steel	O2	mm	14	22	25	25	30
Stainless Steel	N2	mm	6	12	12	20	25
Aluminium	Air	mm	5	10	12	16	24
Brass	N2	mm	5	8	12	14	16
Copper	O2	mm	4	6	6	10	14
Galvanised	N2	mm	5	8	10	14	20

