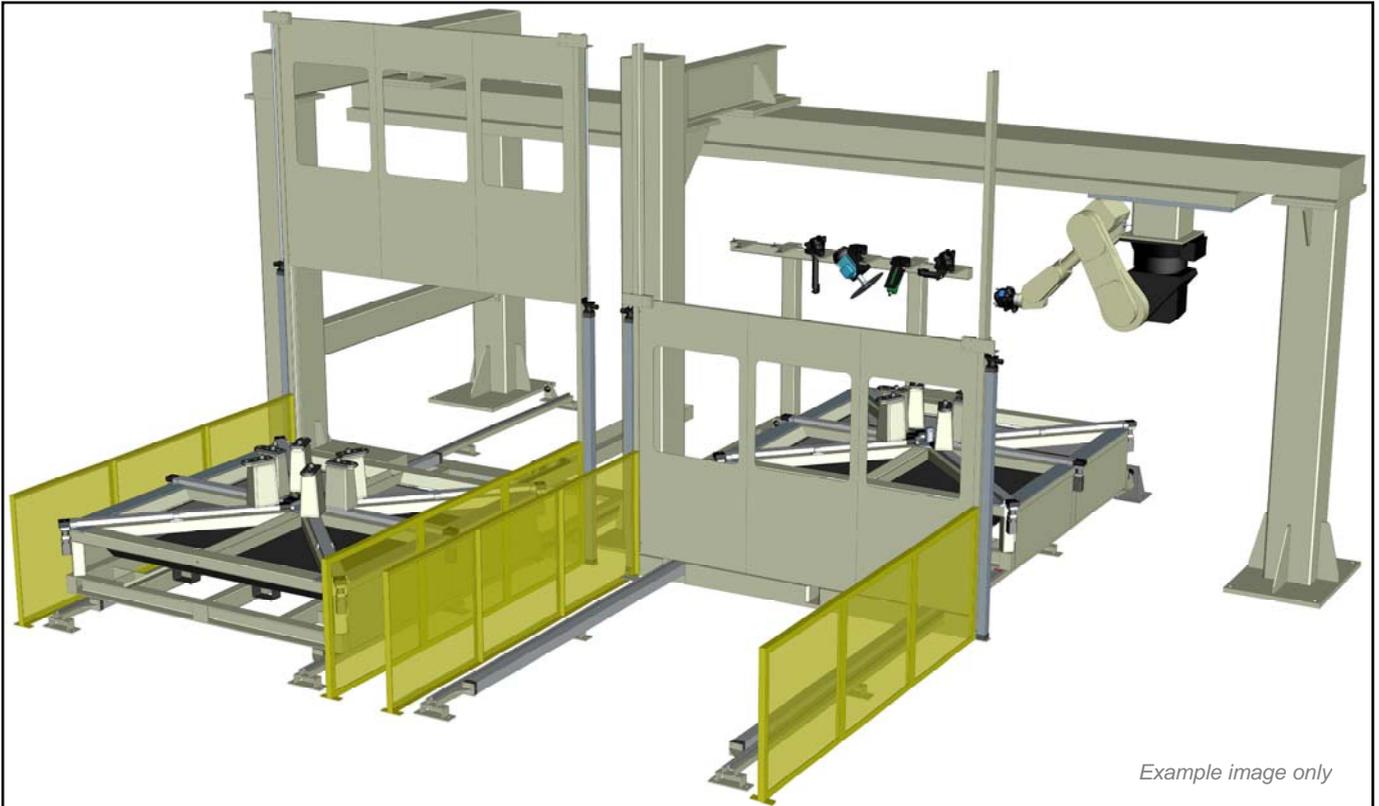


RT-02-06 ROBO-TRIM



Example image only

The RT-02 Robotic Trimming System is designed to give maximum productivity and flexibility. The 6 axis robot is more versatile than a multi-axis CNC system, and the use of custom designed cutting tools enables the machine to carry out all cutting operations. Two product tables ensure that the robot can be continuously cutting, and product loading and unloading does not stop production. 6 product location axes move quickly between programs and enable easy product loading with a secure vacuum holding system. Programming can be carried out off-line giving a minimum of machine downtime for program testing.

MACHINE SPECIFICATION

ELEMENT	SPECIFICATION
Machine Capabilities	Maximum product size: 2300 x 2000 x 550mm Maximum cutting speed (saw): 180mm/s (finish cut) 300mm/s (scrap cut) Maximum cutting speed (router): 80mm/s Cutting times: 50mm hole in 5 seconds 35 seconds (standard trim rectangular bath)
Machine Construction	Main frame: Rolled steel sections – BS EN 10025 material Casing: Sheet steel – BS EN 10025 material Paint finish: Textured powder coating
Robot	Robot type: Panasonic Panarobo VR-032 Capacity: 32kg Number of axis: 6 Repeatability: ±0.2mm or less Maximum speed: 2m/s
Saw Cutting Head	Blade: 400mm diameter tungsten carbide Cutting speed: 2820 rpm Cutting motor power: 3 kW
Router Cutting Head	Cutting spindle power: 1kW Cutting speed: 20,000 rpm Speed control: Inverter
Optional Cutting Head	Air powered router head for access to restricted areas. Cutting power: 570W Cutting speed: 15,000 rpm
Robot Shifter Axis	Driven with AC brushless servo-motor using rack and pinion. Motor power: 3.5 kW Maximum speed: 60m/min Precision track with roller bearings. Automatic lubrication for ease of maintenance. Harmonised with robot to give a total of 7 axes.
Product Location	Specially designed location blocks to suit application. 6 Axes location block positioning system. Slide units: Self contained, sealed unit, belt driven with precision linear slides Drive type: AC brushless servo-motors and gearbox Motor rating: 500 W Maximum speed: 375mm/s
Product Holding	Pneumatically operated vacuum system. Vacuum cup holds onto product. Pneumatic cylinder pulls product tight onto the location blocks.
Table Movement	Driven with AC brushless servo-motor using rack and pinion. Motor power: 1.5 kW Maximum speed: 500mm/s

Tool Changer	6 station tool stand with location pins and sensors. Pneumatically operated tool lock mechanism with fail-safe. Tool change time: Up to 10 seconds
Control System	PLC controlled sequence. Touch screen user interface. Standard hole cut programs included. Robot programming via teach pendant. Offline programming option.
Dust Extraction	Specified and supplied separately.
Enclosure	Modular unit with sliding door recommended. Specified and supplied separately.
Electricity	3 Phase supply + Neutral + Earth: 380/415V @ 50Hz Maximum power consumption: 30 kW

example specification only - specification may be subject to change without notice

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