

TECHNICAL SPECIFICATIONS

domino
EVOLUZIONE

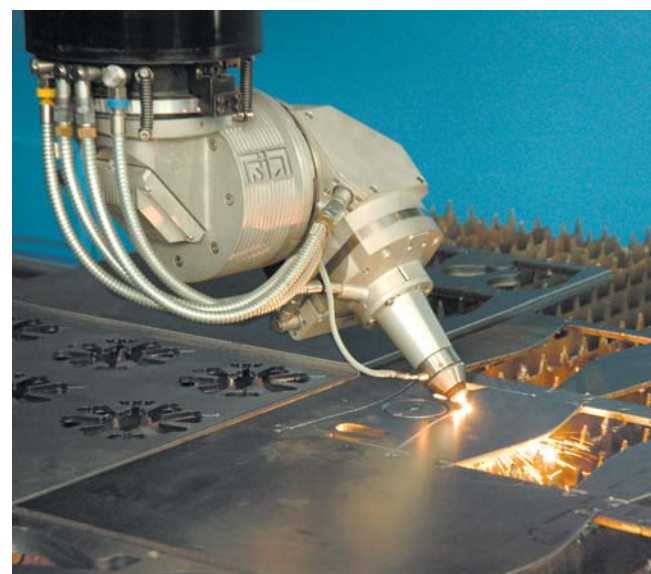
Axis strokes	X mm 3000	Y mm 1500	Z mm 400
Rotary axes:	A B	360° continuous (without limitation) ± 135° continuous (with respect to the vertical)	
Maximum speed:	X, Y Z A, B	100 m/min } maximum combined speed of axes: 150 m/min 50 m/min } 540°/s (1.5 revs per second)	
Maximum acceleration	X, Y, Z A, B	1.2 g 0.8 g @ TCP	
Linear axis resolution	0.001 mm		
Accuracy (*): • according to VDI/DGQ 3441 standards • measurement length: complete stroke	X, Y, Z A, B	positioning accuracy (Pa): 0.03 mm 0.015°	repeatability (Ps): 0.03 mm 0.005°
Optional rotary axis (lathe) for round, square and rectangular tubes: - minimum diameter (manual/pneumatic) - maximum diameter - workpiece diameter	25/38 mm 300 mm from 38 mm to 300 mm		
Maximum overall dimensions (Basic machine with automatic pallet changer, including protection cabin, excluding water chiller, air dryer and photocells)	Length mm 9500	Width mm 3450	Height mm 3400
Weight (basic machine)	~12,000 kg		
Colours	Fixed parts: RAL 5012 - RAL 5001 Moving parts: RAL 2008		

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**Challenging endless evolution:
keep the lead with PRIMA**





Peerless flexibility, with even more accuracy and reliability

EVOLUTION IN FLEXIBILITY

The fastest 2D and 3D laser machine in the market
Eccellence both in flat cutting and in three-dimensional processing
Just one simple machine for a wide variety of cutting and welding applications

EVOLUTION IN PERFORMANCES

Optimized structure of the carriages
Doubled mechanical rigidity
Incomparable precision and dynamics on the market
Increased productivity (cycle times reduced of 20%)

EVOLUTION IN RELIABILITY

PRIMACH-20L numerical control now on DOMINO EVOLUZIONE, the same controlling the whole PRIMA INDUSTRIE range of laser machines
New handbox and console for making programming as easy as a game
TOB (Technology On Board), all the PRIMA INDUSTRIE expertise at a click

EVOLUTION IN FLEXIBILITY

DOMINO EVOLUZIONE is the fastest 2D/3D laser machine in the world.
That is not enough to be the best: you also need accuracy, reliability and flexibility.
PRIMA INDUSTRIE has combined into DOMINO EVOLUZIONE all the know how acquired with such a highly-successful 2D machine as PLATINO, with its absolutely distinctive expertise of 3D machines. It is the ideal solution to achieve, 2D and 3D cutting and welding, bevel cutting and tube processing, all in one system.
DOMINO EVOLUZIONE is a machine designed for today's industrial reality that dictates high productivity, great efficiency, extreme versatility, maximum accuracy and all at low costs.

FASTER AND MORE ACCURATE

The DOMINO EVOLUZIONE direct-drive head is characterized by great dynamics, high accuracy, excellent quality of movements, collision protection system, no back-lash and wear.
DOMINO EVOLUZIONE has a monolithic structure, the bed has high structural rigidity thanks to the use of special materials (synthetic granite).
Maximum speed movement for each axis: 100m/min.
Maximum combined speed of axis X, Y, Z: 150m/min (the highest for a 5 axis machine).
Acceleration of axis X, Y, Z: 12 m/s².

MORE FLEXIBLE, MORE ACCESSIBLE, SAFER

DOMINO EVOLUZIONE is extremely versatile: there are no limits to the applications it can handle. It is the only 3D machine having a dedicated axis for the automatic control of the focal position: great flexibility in production without any manual adjustment throughout the entire work area (continuous processing of different materials and thicknesses, and accurate process control).
Thanks to the two focal length lenses provided (5" and 7.5") and to the fast tool change system, DOMINO EVOLUZIONE adapts to all types of 2D and 3D processing.
One typical application is the bevel cutting even on thick sheets as weld preparation.
The open and accessible configuration of DOMINO EVOLUZIONE allows the use of devices for high productivity such as the automatic pallet changer, the turntable for the fast sheetmetal and workpieces load/unload, and all the automatic systems of the Server product line.

MORE POWERFUL AND SIMPLER

DOMINO EVOLUZIONE is equipped with the latest generation PRIMACH 20-L control with high performances, advanced control algorithms, technological parameters on board, HMI with Web technology, 15" touch-screen and trackball.
The intuitive handbox with graphics interface and joystick.