

SPECIFICATIONS



Linear axes	X mm 4500	Y mm 2500	Z mm 1020
Axes of the Vivida head A B C W	360° continuous ± 135° ± 10 mm ± 10 mm		
Acceleration X, Y, Z A, B C W	4 m/s ² 60 rad/s ² ; 12 m/s ² @ TCP 40 m/s ² 12 m/s ²		
Precision (*) • according to VDI/DGQ 3441 standards	Positioning accuracy (Pa):		Repeatability (Ps):
Linear axes: - Standard version	0.06 mm		0.06 mm
- Optical scales version (optional)	0.03 mm		0.03 mm
Rotary axes	0.005°		0.005°
(*) the precision of the part depends on its type, size and pre-treatment, and on the conditions of application			
Maximum overall dimensions (excluding removable CNC and ancillaries)	Length mm 8200	Width mm 5250	Height mm 4100
Weight (basic machine)	~ 21000 kg		
Colours	Fixed parts: RAL 5012 - RAL 5001 Moving parts: RAL 2008		

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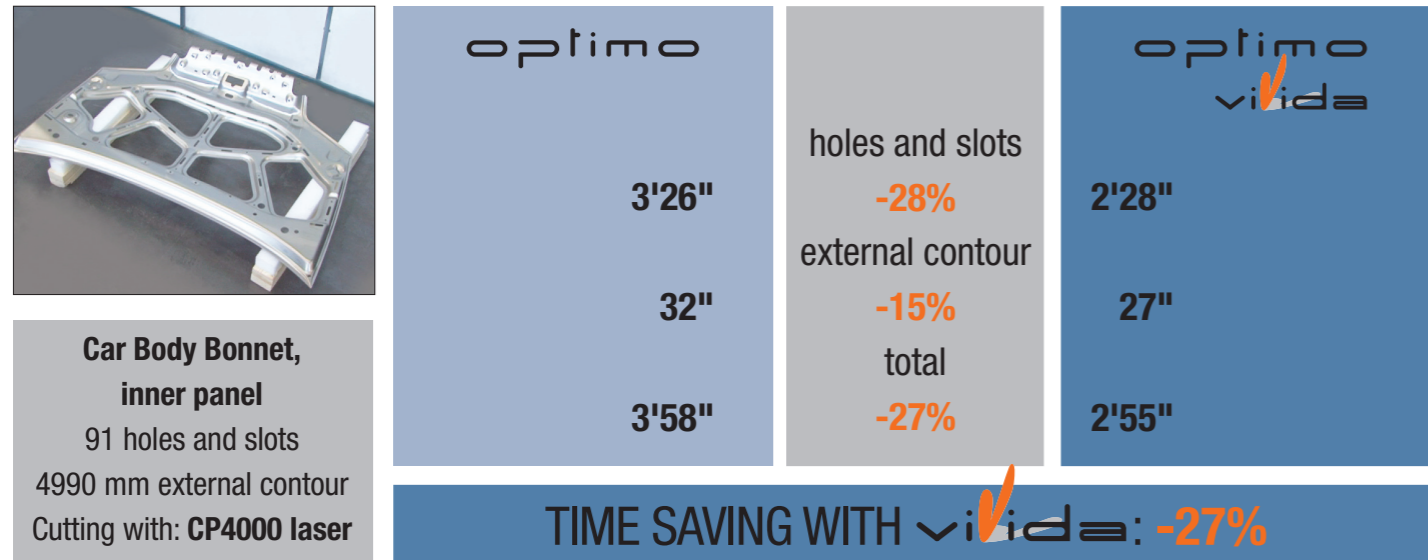


The "Full-of-Life" OPTIMO head



A SUBSTANTIAL LEAP FORWARD IN PRODUCTIVITY

Cycle time comparison between OPTIMO and OPTIMO-Vivida:



The Vivida benefits:

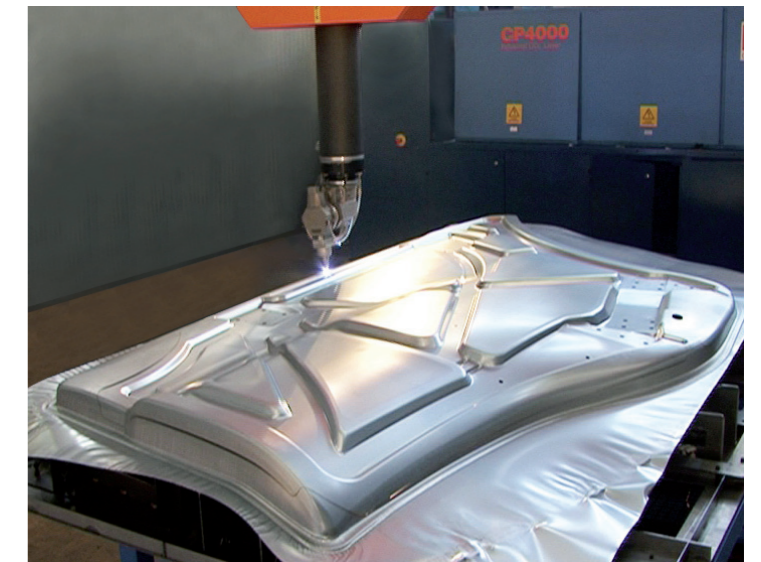
- astonishing cycle time reductions, up to 30% on typical Automotive components
- higher productivity and lower production costs
- possibility to execute complex shapes with both excellent accuracy and high speed
- improved reliability and efficiency thanks to smoothness of movements



NEW HORIZONS FOR 3D LASER CUTTING

New applications for the large, fast and accurate OPTIMO machine:

- Mass production of large Automotive parts.
- Sound abatement panels drilling in the Aerospace field.
- "Quasi remote" laser welding in the Mobility world.
- Filters, grids and decorations on large, thin 3D components.
- No limits to the productive use of the laser, even for oversized and intricate parts.



THE FREEDOM OF THE WIDEST MACHINE, THE JERK OF ITS REVOLUTIONARY HEAD.

The Vivida head is a true small machine within the large OPTIMO.

OPTIMO, the "main machine", moves and direct the laser tool in its wide working envelope (4500 x 2500 x 1020 mm). The Vivida head, the "small machine", performs short and very fast movements (12 m/s²). To this purpose it features an **additional linear axis (W)**, which is coordinated with the B and C axes of the conventional head, to generate the Vivida's own working volume (20 x 20 x 20 mm).

The CNC and its **innovative proprietary algorithms** let the two machines work simultaneously, and coordinate their movements, in order to always obtain the fastest and smoothest execution of the wished trajectory.

Far from being a simple end-effector (i.e. a device positioned by the main machine to accomplish its local job), **Vivida continuously shares the movements with OPTIMO**, according to their own peculiar skills.

The high dynamics movements are assigned to the small and light machine, and the stress on the main one is reduced, even when the highest performances are demanded.

