



MESSER 
Cutting Systems

OmniMat Fiber OmniMat Combo

State of art, Innovative cutting solution

OmniMat Fiber

Minimum Maintenance
Maximum Cut Performance

The compact Messer Fiber Laser...
High efficiency, Highest reliability, low maintenance cost

Global Controller



Precitec Laser Head



Advantages

- Higher efficiency of the fiber laser of approx. 35% (CO2 Laser : approx. 10%)
- Positive bilateral longitudinal drives for good acceleration
- Reliable automatic height sensing
- 50m/min drive speed save time between cuts for OmniMat Fiber
- No moving parts in the laser resonator
- Laser Head equipped with
 - Adaptive Auto focus unit
 - Laser Power Monitor
 - Smart lifter
 - Auto Height Setting

Max cutting thickness

Fiber laser power*	1000W	2000W	3000W	4000W
Mild steel	8mm	16mm	22mm	25mm
Stainless steel	5mm	8mm	12mm	15mm
Aluminum alloy	5mm	8mm	12mm	15mm

* Other laser power source are available on request.

To ensure the Max. cutting capacity, the machine should be kept in good condition and maintained as per Messer guidelines. The assisted gas purity & metal plates quality etc. should meet Messer's requirements as per the installation and user manual.

OmniMat Combo

Plasma and Laser Combo

State of art, Innovative cutting solution

Combining power of Plasma & Laser

Laser and Plasma processes have their own advantage.

Straight Plasma Cutting



Bevel Plasma Cutting



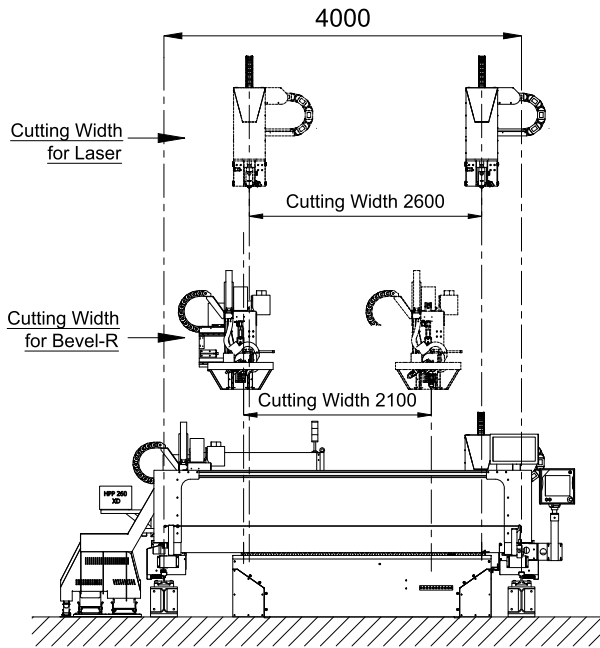
Advantage

- Messer Omnimat Combo combines both processes – Plasma and laser.
- Allows critical internal contours to be cut with fiber laser and external contours with plasma torch in the same machine.
- Plasma + Laser combination cutting on the same part increases productivity.
- Messer Hole Technology for accurate inner contours during plasma cutting.
- User-friendly CNC control Global Control for quick set-up and easy changeover between Laser / Plasma processes.
- 50m/min drive speed save time between cuts for OmniMat Combo
- Choice of high definition plasmas of Kjellberg (Germany) / Hypertherm (USA).
- Bevel plasma
 - Rotation of the unit +/- 460° at a rate of 50rpm about its own axis
 - Swift and agile light weight rotator

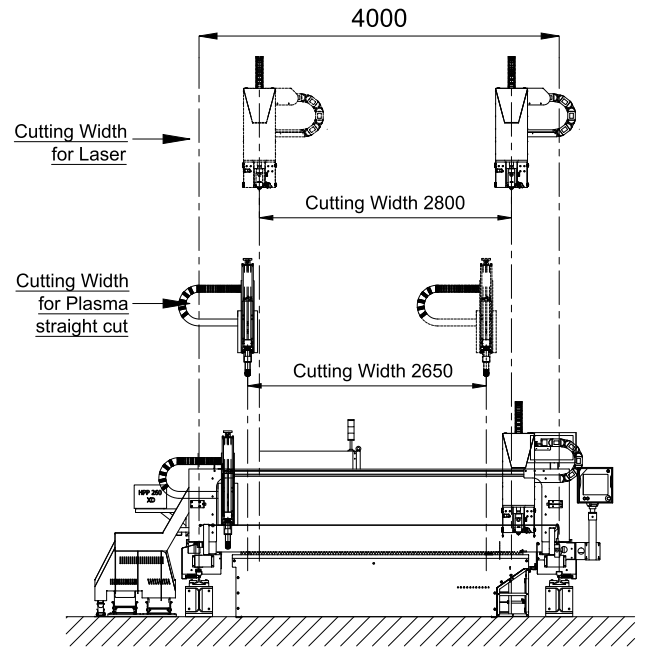
Cutting Samples



Working width for Omnimat Combo

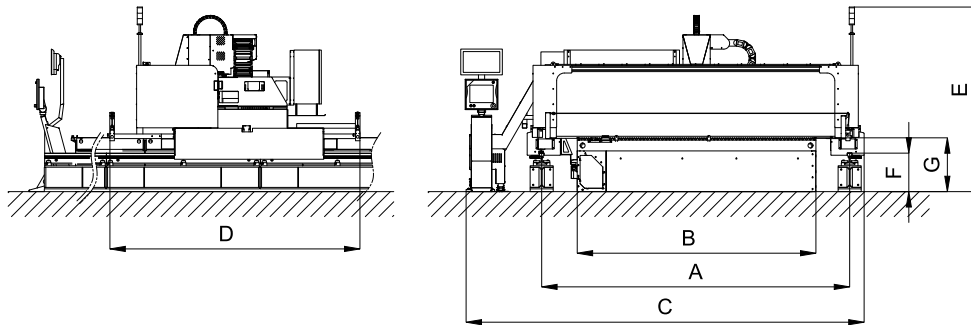


Straight Plasma with Laser



Bevel Plasma with Laser

Working width for Omnimat Fiber



A	Track length	4000mm
B	Working width	3000mm
C	Overall width	5200mm
D	Length	3250mm
E	Height	2400mm
F	Track height	500mm
G	Table height	730mm

The descriptions, technical data and illustrations contained in this document are provided for guidance purposes only and are non-binding. The manufacturer reserves the right to make alterations to products without notices.

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