

# Vanad KOMPAKT Laser

**Economical high-speed machine for 2D cutting with fiber laser of metal sheets up to 2,000 × 6,000 mm in size.** Primarily designed for efficient cutting of structural steel, stainless steel, copper, aluminium, and brass. It can also cut **non-metal materials**, for instance cardboard, or klingerit.



More information about  
the Vanad KOMPAKT Laser

- **ACCURACY**
- **HIGH EFFICIENCY**
- **VARIABLE EQUIPMENT**
- **MAXIMUM LEVELS OF MATERIAL USAGE**
- **ENERGY SAVING**

## FEATURES

- Maximum precision of cut accuracy, minimum cutting kerf
- Rigid construction, excellent dynamic properties
- Allows for the option of cutting with compressed air reducing the costs
- Cutting of highly reflective materials
- Long laser source lifetime
- Fiber laser output up to 3 kW as a standard
- High precision optical measurement of the positioning
- Intuitive controls, minimum maintenance requirements
- Option of using residual material
- Remote servicing access to the machine control system – accelerated service response
- Function enabling return to an unfinished cutting program
- Extensive macro library
- Automatic suction of fumes via a system of independent sections
- High-performance operationally stable open B&R control system

## Standard equipment

- Autonomous cutting head collision avoidance system
- Controlled piercing for longer lifetime of consumables
- Precision capacity control of the height of the cutting head
- Linear guides in all movement axes
- Nozzle cleaning module
- Camera for the monitoring of cutting displaying images on a separate monitor
- Laser marking
- CAD/CAM software for the preparation of cutting data
- Manually extendable material grid

## Optional equipment

- Two hydraulically exchangeable grids enabling the minimisation of the preparation time
- Motor-powered extendable material grid
- Two manually extendable material grids
- Supplementary RotCUT device for processing of tubes and profiles



### RotCUT (optional equipment)

- For cutting into tubes and square tubes

### Additional control

- Remote machine control
- Cutting into tubes and profiles
- Roller blinds control

### Automated gas console

- N<sub>2</sub>, O<sub>2</sub>, air (automated switchovers)

### Refuse containers

- Variable placement

### RotCUT 1

- Maximum diameter of a processed tube: 250 mm
- Optional equipment: through-hole chuck
- The length of the processed tube corresponding with the machine dimensions





#### X & Y axis movement guides covers **6**

- Protective Kevlar bellows for considerably higher reliability as well as extended lifetime of the guides
- High temperature resistance

#### Signal beacon **7**

- To indicate the actual cutting stage

#### Control panel **8**

- 15" touchscreen, industrial keypad
- Variable placements, revolving arm
- Camera enabling the observation of the cut on a 24" monitor

#### Material table fitted with section extraction system **9**

- Automated flap control corresponding with the laser head position

#### Laser-head nozzle cleaning **10**

- Automatically controlled by the system
- Increasing the consumable parts lifetime

#### Exchangeable grids (optional equipment)

- With stop blocks enabling the placing of the metal sheets
- Guide with an independent drive

#### Optical barriers **5**

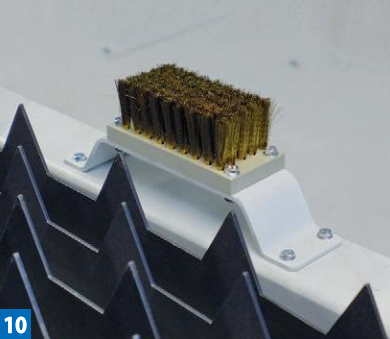
- Ensuring operator's safety during grid exchange

#### Refuse containers **4**

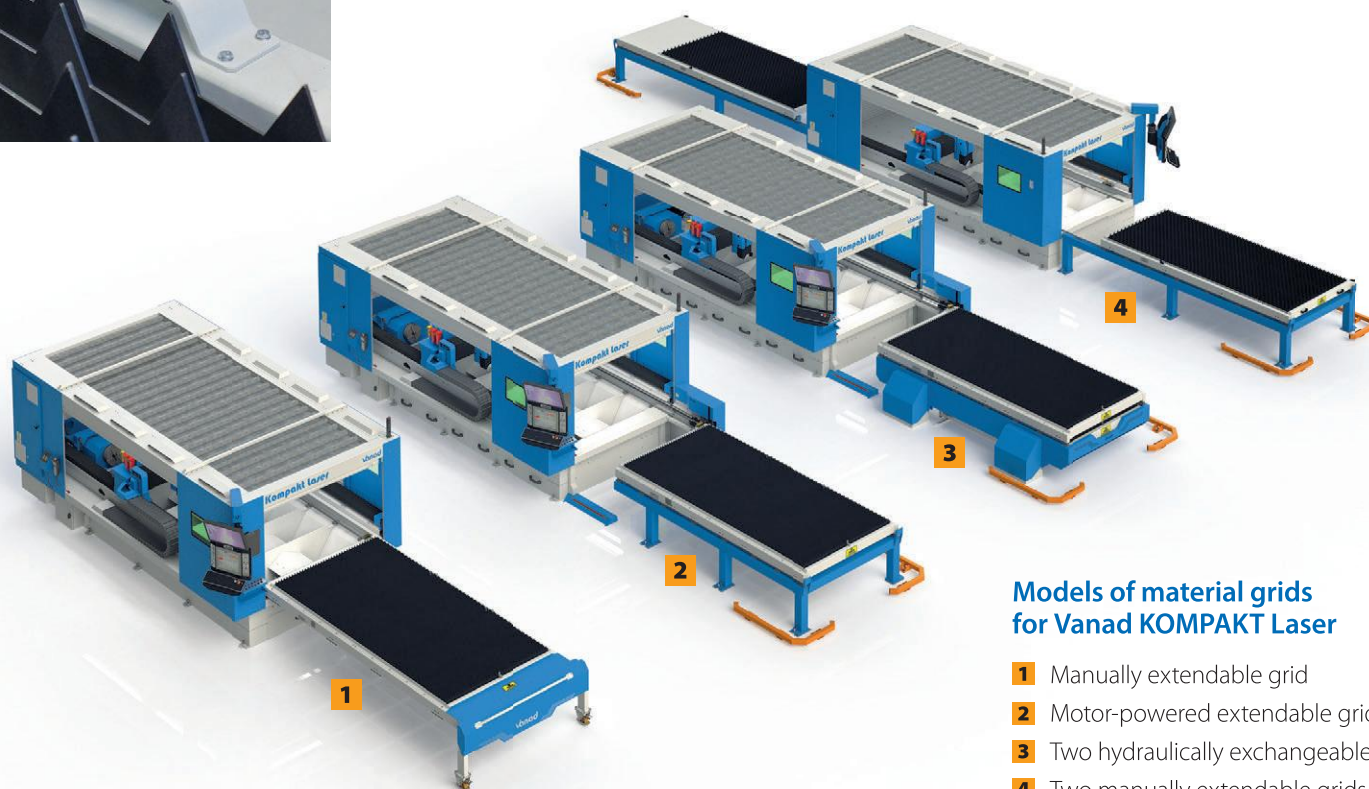
- Variable placement







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### Models of material grids for Vanad KOMPACT Laser

- 1** Manually extendable grid
- 2** Motor-powered extendable grid
- 3** Two hydraulically exchangeable grids
- 4** Two manually extendable grids

Vanad KOMPACT Laser		12,5/25	15/30				20/40			20/60	
Machine model		Manually extendable grid	Manually extendable grid	Two manually extendable grids	Motor-powered extendable grid	Two hydraulically exchangeable grids	Manually extendable grid	Motor-powered extendable grid	Two hydraulically exchangeable grids	Motor-powered extendable grid	Two hydraulically exchangeable grids
Overall machine width	[mm]	2850	3200	3200	3200	3200	3700	3700	3700	3700	3700
Overall machine length	[mm]	7800*	8900*		9300	9500	10900*	11500	11700	14900	15100
Overall machine height	[mm]	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Metal sheet format	[mm]	1250 × 2500	1500 × 3000	1500 × 3000	1500 × 3000	1500 × 3000	2000 × 4000	2000 × 4000	2000 × 4000	2000 × 6000	2000 × 6000
Grid height	[mm]	855	855	855	855	855	855	855	855	855	855
Maximum number of supports		1x support with a laser head									

\*) Dimensions with an extended grid



▲ Vanad KOMPACT Laser with two hydraulically exchangeable material grids and 2kW IPG laser source, installed in 2016



▲ Vanad KOMPACT Laser with a manually exchangeable material grid and 3kW IPG laser source, installed in 2017



▲ Vanad KOMPACT Laser with a motor-powered extendable material grid and 1kW IPG laser source, installed in 2017