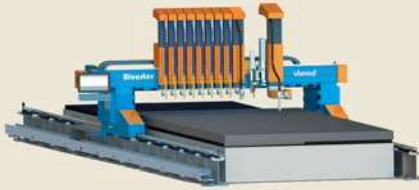


# Vanad BLUESTER

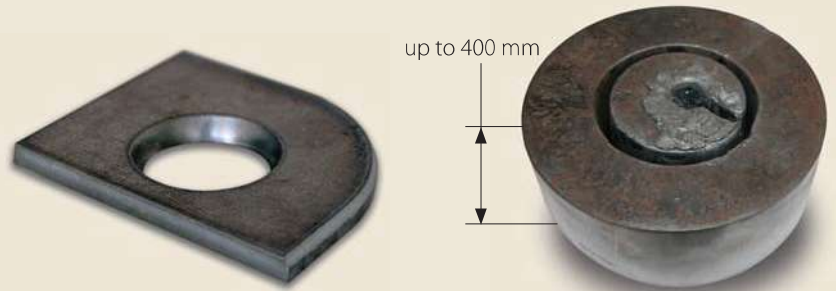
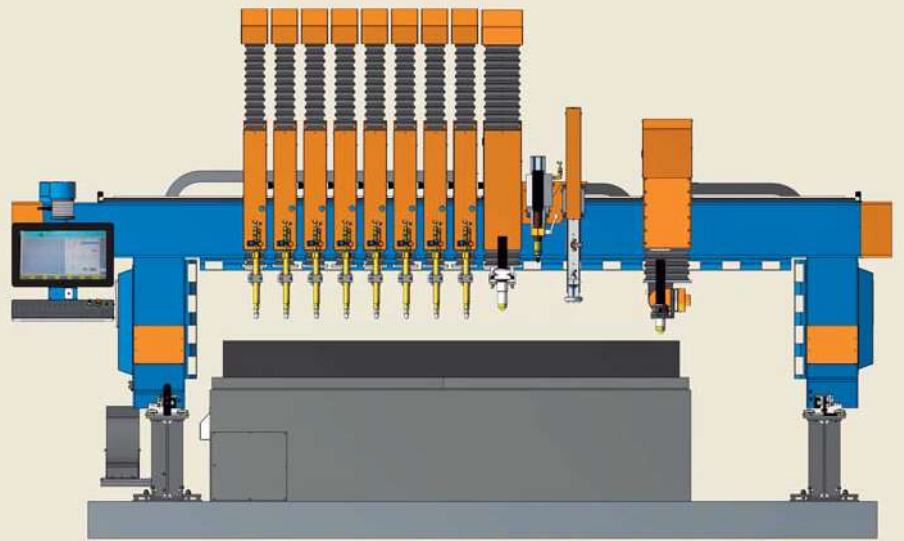
- > OXY-FUEL / PLASMA
- > HIGHEST PERFORMANCE
- > 3D PLASMA HEAD
- > HIGHEST QUALITY



## Features

- Double-sided longitudinal travel
- High lifting capacity of the gantry – up to 10 units applicable
- Linear guides in all movement axes
- New set of adjustable large format touch screens with a technological keyboard
- Standard thickness of the cut material up to 400 mm
- Precise control of the ignition and working height of the torch
- High positional accuracy also during long-term operations
- Outstanding dynamic properties of the CNC machine
- High-performance, operationally stable, user-friendly CNC system
- Elimination of downtime during operation
- Digital measurement of positions EnDat
- Automatic adjustment of the portal (if necessary)

The CNC thermal cutting machine Vanad BLUESTER presents a state-of-the-art device available on the market. It is designed for the toughest operations. This machine is used for processing of very large formats of metal sheets with oxy-fuel and plasma technology, including the automatic bevel cutting with the fully automatic 3D head. The machine may be equipped with a number of supplementary devices.



◀ Cutting station BLUESTER 45 x 120 built in 2014 with the Kjellberg HiFocus 440i plasma system and oxy-fuel technology

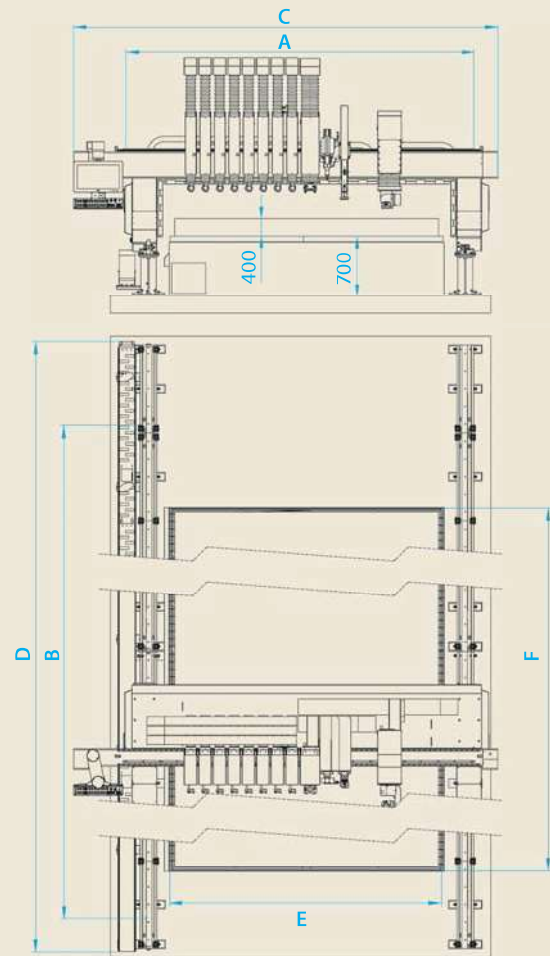
▶ The drilling unit is used for marking sites for further processing. It can be used as a supplement effectively increasing productivity or as an independent technology

### Standard equipment

- Sectional chassis for automatic portal settings
- Longitudinal reinforced IPE beams of the guide rails
- Flexible energy chains
- Electric flame ignition of the oxy-fuel torch
- Transfer of cutting plans via the USB or LAN network
- Precise control of the ignition and working height of the torch
- B&R control system

### Optional equipment

- Technology for robotic 3D plasma cutting
- Marking unit – plasma marking
- Marking unit – micro-punching
- Marking unit – drawing needle
- Drilling unit
- Unit for contact control of the plasma torch height – for cutting of thin metal sheets
- Oxy-fuel unit for straight bevel cuts (V, X)
- CAD/CAM software for preparation of cutting data



Vanad BLUESTER		20	25	30	35	...	up to 80	
Working width of the machine	A [mm]	2134	2634	3134	3634	then at 500 mm intervals	8134	
Working length of the machine	B [mm]	(4035, 5035, 7035, 9035, 11035, 13035, 15035, max. 61035)				then at 500 mm intervals	up to 61035	
Total width of the machine	C [mm]	3950	4450	4950	5450	then at 500 mm intervals	9950	
Total length of the machine	D [mm]	(5044, 6044, 8044, 10044, 12044, 14044, 16044, max. 62044)				then at 500 mm intervals	up to 62044	
Loading width for metal sheet	E [mm]	2100	2600	3100	3600	then at 500 mm intervals	up to 8100	
Loading length for metal sheet	F [mm]	according to working length of the machine						up to 60000
Maximum travel speed	[m/min]	42,4						
Maximum number of units		10 (in combinations of 1 main, 1 secondary (plasma) unit, 8 secondary (oxy-fuel) units, 2 supplementary devices, 2x 3D unit, 1 rotating three-torch head, 2 manual three-torch heads)						



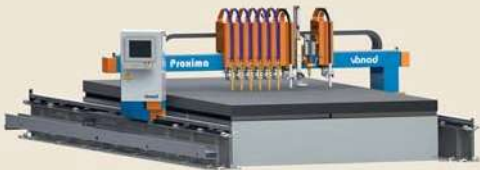
▶ The 3D automatic plasma head extends the usage possibilities of the BLUESTER CNC machine

▶ The Vanad BLUESTER CNC cutting machine can be delivered also as part of a comprehensive cutting station with a plasma system and consumables for plasma or oxy-fuel cutting, a compressor for compressed air supply, including its treatment for cutting as well as extraction and filter system for the exhaust of smoke and fumes from the thermal cutting of materials



# Vanad PROXIMA

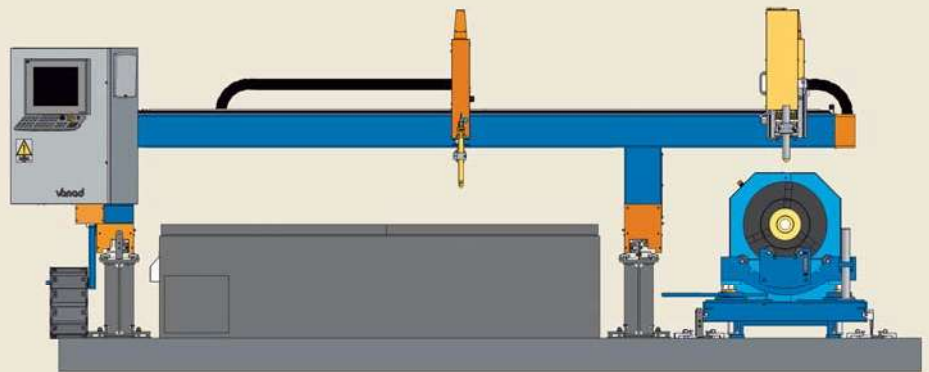
- > OXY-FUEL / PLASMA
- > HIGH PERFORMANCE
- > HIGH ACCURACY
- > EXTENSIVE ACCESSORIES
- > SUPPLEMENTARY DEVICE  
RotCUT



## Features

- Double-sided longitudinal travel
- Linear guides in all movement axes
- New set of adjustable large format touch screens with a technological keyboard
- Standard thickness of the cut material up to 200 mm
- High positional accuracy also during long-term operations
- Outstanding dynamic properties of the CNC machine
- Elimination of downtime during operation
- High-performance, operationally stable, user-friendly CNC system
- High lifting capacity of the gantry – option for use up to 8 cutting units

The Vanad PROXIMA presents a cutting edge high-performance CNC cutting machine designed for tough operations and demanding customers. The Vanad PROXIMA works perfectly on large metal sheets with multiple oxy-fuel torches attached, including manual or fully automatic bevelling. Installed plasma carriages are ideal for the usage of the latest and most effective plasma systems. This machine can also be equipped with other supplementary devices, including RotCUT for processing of tubes and profiles.



▶ Comprehensive cutting station PROXIMA built in 2014. CNC cutting machine is equipped with the Kjellberg HiFocus 360i plasma system, oxy-fuel technology, Tigemma filter system and Orlik compressor

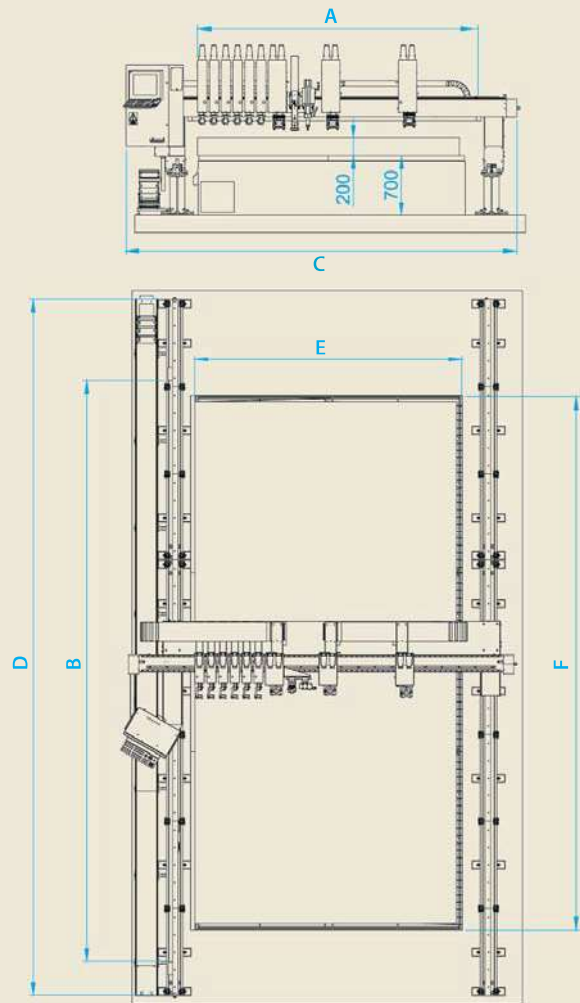
▶ High-performance double portal cutting station PROXIMA implemented in 2013 with the Kjellberg HiFocus 440i plasma system and oxy-fuel technology

### Standard equipment

- Longitudinal reinforced IPE beams
- Flexible energy chains
- Electronic control of the torch height
- Transfer of cutting plans via the USB or LAN network
- Exact control of the ignition and working height of the torch
- B&R control system

### Optional equipment

- Marking unit – plasma marking
- Marking unit – micro-punching
- Marking unit – drawing needle
- Drilling unit
- Unit for contact control of the plasma torch height – for cutting of thin sheets
- Oxy-fuel unit for straight bevel cuts (V, X)
- Electric flame ignition of the oxy-fuel torch
- CAD/CAM software for preparation of cutting data



Vanad PROXIMA			15	20	25	30	...	up to 60
Working width of the machine	A	[mm]	1634	2134	2634	3134	then at 500 mm intervals	6134
Working length of the machine	B	[mm]	(3490, 4490, 6490, 8490, 9490, 10490, 12490, 15490, max. 24490)				then at 500 mm intervals	up to 24490
Total width of the machine	C	[mm]	2990	3490	3990	4490	then at 500 mm intervals	7490
Total length of the machine	D	[mm]	(5044, 6044, 8044, 10044, 12044, 14044, 16044, max. 26044)				then at 500 mm intervals	up to 26044
Loading width for metal sheet	E	[mm]	1600	2100	2600	3100	then at 500 mm intervals	up to 6100
Loading length for metal sheet	F	[mm]	according to working length of the machine					up to 24000
Maximum travel speed		[m/min]					35,4	
Maximum number of units	8 (in combinations of 1 main, 1 secondary (plasma) unit, 6 secondary (oxy-fuel) units, 2 supplementary devices, 1 rotating three-torch head, 2 manual three-torch heads)							



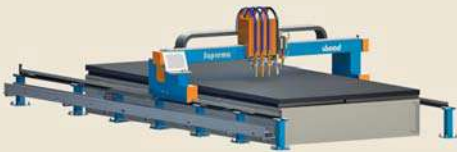
▶ Semi-automatic three-torch head is an optional device used for direct cutting of the material used for bevel cutting of materials. Created bevels are often used for subsequent welding

▶ The CNC thermal cutting machine PROXIMA can be fitted out with up to 8 units – for example 6 oxy-fuel and 2 plasma units for processing large metal sheets



# Vanad SUPREMA

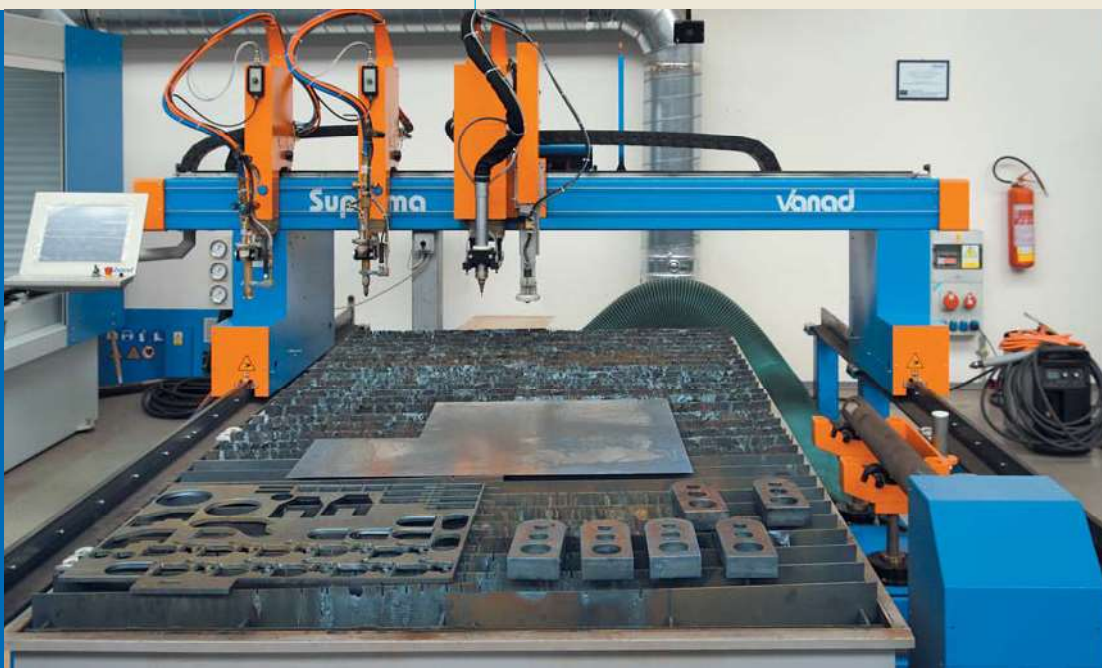
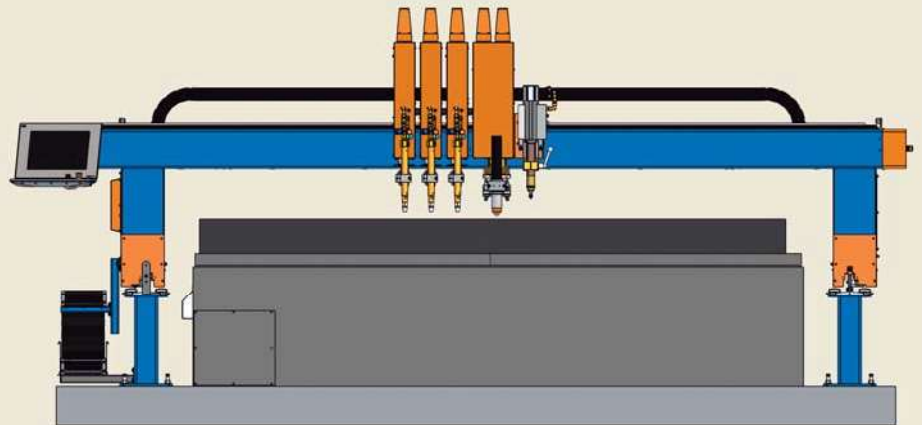
- > OXY-FUEL / PLASMA
- > HIGH EFFICIENCY
- > MAXIMUM PRECISION
- > HIGH PERFORMANCE



## Features

- Linear guides in all movement axes
- New range of adjustable large format touch screens with a technological keyboard
- Motors with high torque features – outstanding dynamic properties of the machine
- Proportional gas distribution
- Standard thickness of the cut material up to 175 mm
- Transfer of cutting plans via the USB or LAN network
- Elimination of downtime during operation
- High-performance, operationally stable, user-friendly CNC system

The CNC thermal cutting machine Vanad SUPREMA is an excellent innovative CNC cutting machine which meets all general requirements. It is a great solution for processing large metal sheets with a number of oxy-fuel torches along with the option of manual bevelling. The Vanad SUPREMA is also designed for usage of modern and powerful plasma systems. The machine can also be equipped with supplementary devices which extend its overall utilisation.



◀ SUPREMA cutting station built in 2014. The CNC cutting machine is equipped with the Hypertherm Powermax 125 plasma system and oxy-fuel technology.

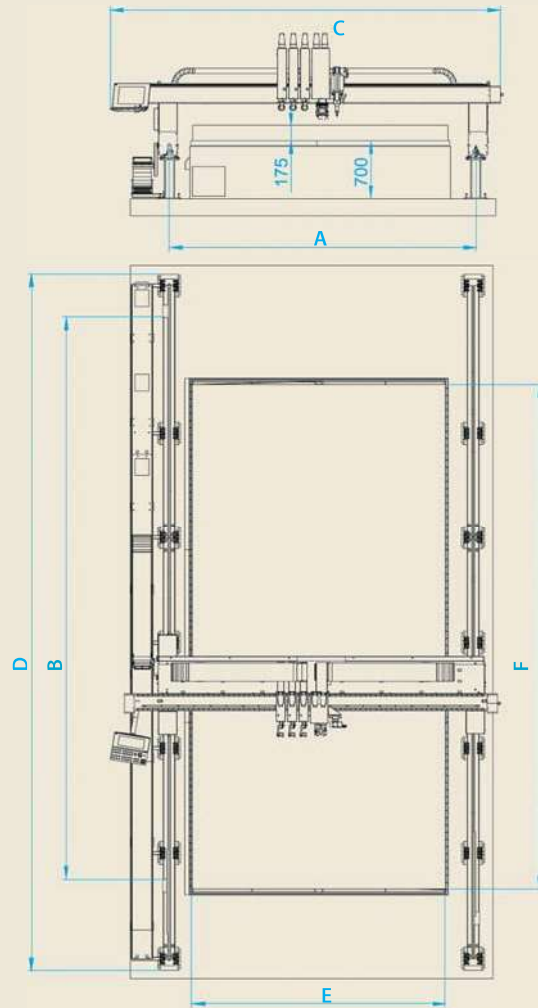
The SUPREMA in the picture is also fitted with a marking unit with several advantages: permanent marking, high speed, low costs, long-term machine-readable marking

### Standard equipment

- Double-sided longitudinal travel
- B&R control system
- Flexible energy chains
- Transfer of cutting plans via the USB or LAN network
- Exact control of the ignition and working height of the torch

### Optional equipment

- Laser pointer for setting the initial torch position
- CAD/CAM software for preparation of cutting data
- Electric flame ignition of the oxy-fuel torch
- IHT capacitive height control of the oxy-fuel torch



Vanad SUPREMA			15	20	25	30
Working width of the machine	A	[mm]	1634	2134	2634	3134
Working length of the machine	B	[mm]		3580, 4580, 6580, 8580, 10580, 12580		
Total width of the machine	C	[mm]	3070	3570	4070	4570
Total length of the machine	D	[mm]		5270, 6270, 8270, 10270, 12270, 14270		
Loading width for metal sheet	E	[mm]	1600	2100	2600	3160
Loading length for metal sheet	F	[mm]		3000, 4000, 6000, 8000, 10000, 12000		
Maximum travel speed		[m/min]		14,1		
Maximum number of units			1 main unit, 3 secondary (oxy-fuel) units, 1 supplementary device			



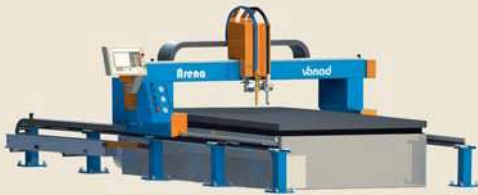
◀ Positioning and the detail of the supplementary device RotCUT for the SUPREMA cutting machine

▶ Touch screen with a technological keyboard fulfils IP65 criteria for the resistance against water and solid particles



# Vanad ARENA

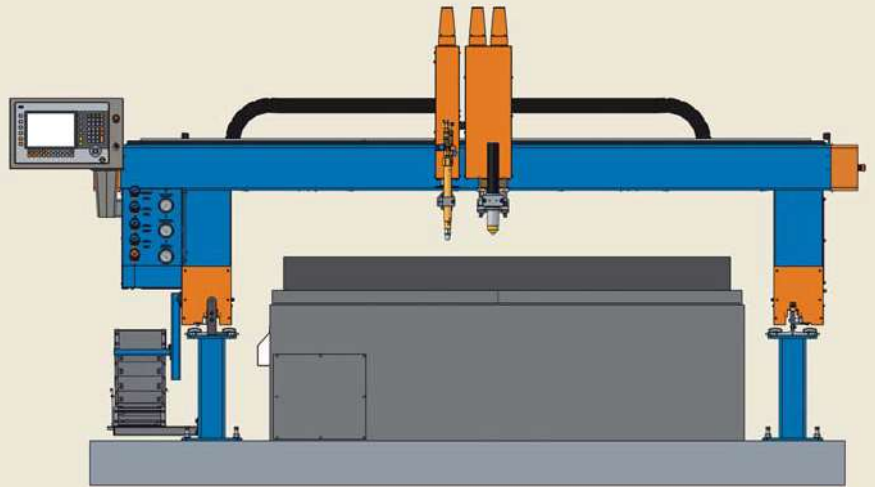
- > OXY-FUEL / PLASMA
- > EFFICIENT OPERATION
- > GREAT PERFORMANCE
- > EASY TO OPERATE



## Features

- High positioning accuracy, even during long-term operation
- Power Panel 500 touch screen with a technological keyboard for easy operation control
- Motors with high torque features – good dynamic properties
- Standard thickness of the cut material up to 150 mm
- Transfer of cutting plans via the USB or LAN network
- Elimination of downtime during operation
- High-performance, operationally stable, user-friendly CNC system

The Vanad ARENA CNC cutting machine is an optimal solution with a simple design. It is designed mainly for medium-sized enterprises. The machine is intended for the processing of standard metal sheets and has been designed for the installation of either simple plasma or oxy-fuel technology. The machine is equipped with a touch screen with a technological keyboard.



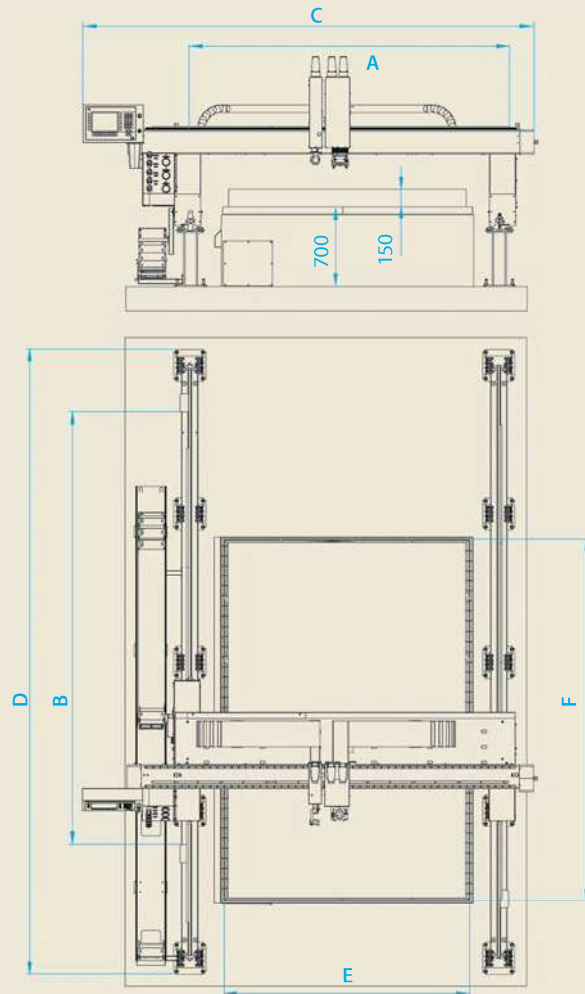
- ◀ The ARENA CNC cutting machine with a touch panel and oxy-fuel torch. The oxy-fuel torch is equipped with IHT height control system. Tigemma exhaust and filter unit form a part of the station

### Standard equipment

- Double-sided longitudinal travel
- B&R control system
- Flexible energy chains
- Transfer of cutting plans via the USB or LAN network
- Exact control of the ignition and working height of the torch

### Optional equipment

- Laser pointer for setting of the initial torch position
- CAD/CAM software for preparation of cutting data
- Electric flame ignition of the oxy-fuel torch
- IHT capacitive height control of the oxy-fuel torch



Vanad ARENA			15	20
Working width of the machine	A	[mm]	1634	2134
Working length of the machine	B	[mm]		3230, 4230, 6230
Total width of the machine	C	[mm]	3300	3800
Total length of the machine	D	[mm]		5270, 6270, 8270
Loading width for metal sheet	E	[mm]	1600	2100
Loading length for metal sheet	F	[mm]		3000, 4000, 6000
Maximum travel speed		[m/min]		12,7
Maximum number of units			1 main unit, 1 secondary (oxy-fuel) unit	



◀ Mobile touch panel is an optional solution for the machine operation control

▶ Comprehensive cutting station ARENA implemented in 2014. The CNC machine of the size 2 x 4 m is equipped with plasma and oxy-fuel technology for cutting up to 150 mm, with IHT capacitive height control and drilling unit. The Kemper exhaust and filter unit forms a part of the station





# Vanad MIRA

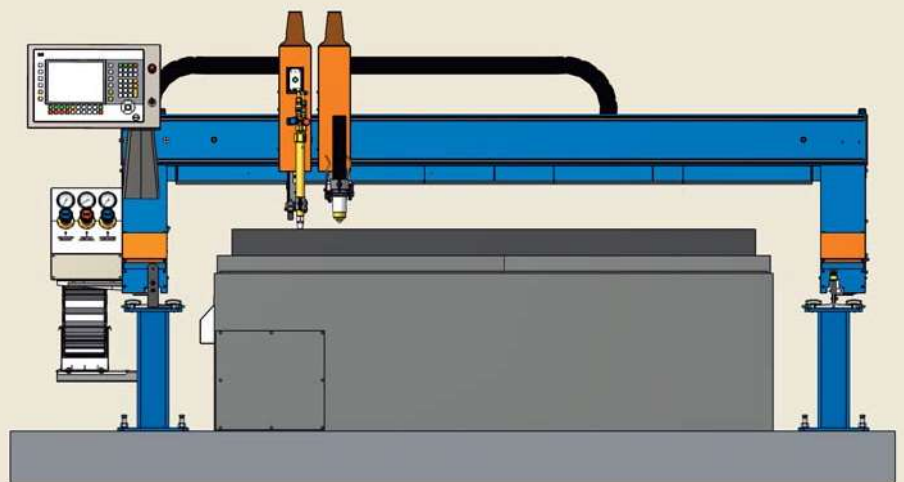
- > OXY-FUEL / PLASMA
- > SIMPLE
- > USER-FRIENDLY
- > EFFICIENT



## Features

- Double-sided longitudinal travel
- Touch screen Power Panel 500 with a technological keyboard for easy operation
- Motors with high torque features
- Outstanding dynamic properties of the CNC machine
- Standard thickness of the cut material up to 100 mm
- Transfer of cutting plans via the USB or LAN network
- Elimination of downtime during operation
- High-performance, operationally stable, user-friendly CNC system

The CNC cutting machine Vanad MIRA is distinguished by its simplicity. It is an ideal solution for both smaller operations and companies starting with thermal cutting of materials. The construction of the machine is designed so that it could easily machine standard metal sheet formats. The CNC machine works perfectly with simple plasma. For cutting of thicker metal sheets, the machine is fitted with an oxy-fuel cutting unit.



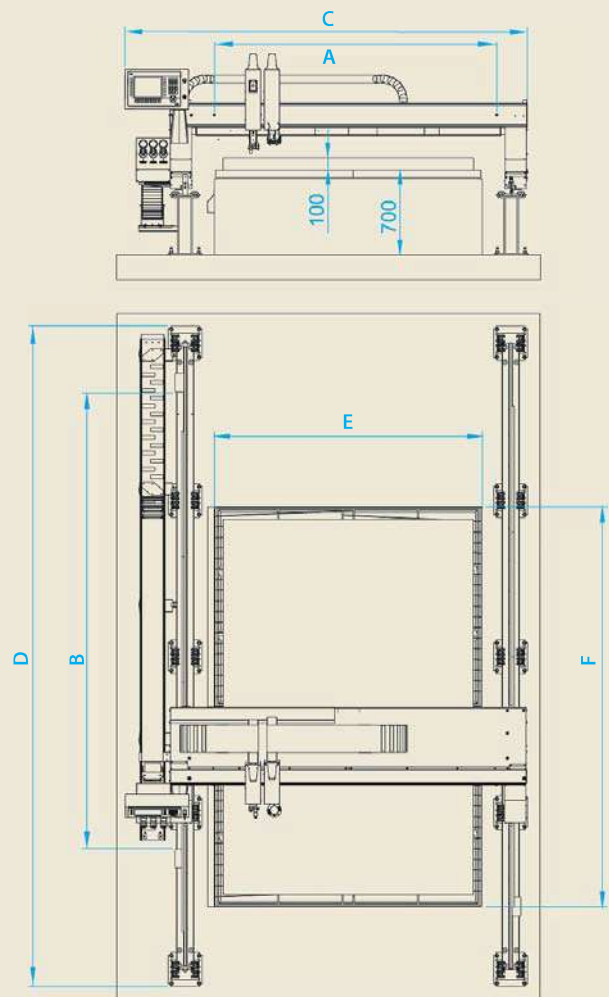
◀ The CNC cutting machine Vanad MIRA is equipped with oxy-fuel technology, laser pointer and electric flame ignition of the oxy-fuel torch. The picture shows the piercing of 100 mm structural steel. The CNC machine MIRA is also installed in our showroom, where you can see and try it

### Standard equipment

- B&R control system
- Flexible energy chains
- Transfer of cutting plans via the USB or LAN network
- Precise control of the ignition and working height of the torch

### Optional equipment

- Laser pointer for setting the initial torch position
- CAD/CAM software for preparation of cutting data
- Electric ignition of the oxy-fuel torch
- IHT capacitive height control of the oxy-fuel torch



Vanad MIRA		15	20
Working width of the machine	A [mm]	1634	2134
Working length of the machine	B [mm]		1820, 3820, 4820, 6820
Total width of the machine	C [mm]	2710	3210
Total length of the machine	D [mm]		3270, 5270, 6270, 8270
Loading width for metal sheet	E [mm]	1600	2100
Loading length for metal sheet	F [mm]		1000, 3000, 4000, 6000
Maximum travel speed	[m/min]		12,7
Maximum number of units		plasma+oxy-fuel or oxy-fuel+oxy-fuel	



◀ The Vanad MIRA cutting station built in 2013 with the Hypertherm Powermax 105 plasma system

▶ Details of the cutting unit with oxy-fuel torch which is equipped with IHT capacitive height control system



# Vanad MIRON

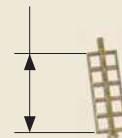
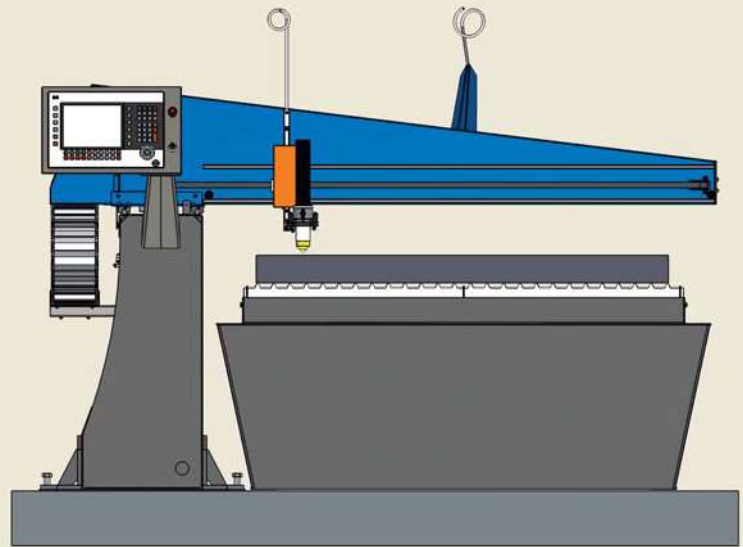
- > OXY-FUEL / PLASMA / LASER
- > EASY ACCESS
- > SMALL SIZE
- > SUPPLEMENTARY DEVICE  
RotCUT



## Features

- Suitable for combining with any of the thermal cutting technologies (oxy-fuel, plasma, laser)
- Small installation length and width compared to portal construction
- Easy access to the table from the side
- Performance of the fiber laser up to 1 kW
- Touch screen Power Panel 500 with a technological keyboard, model MIRON Laser with the 15" adjustable touch screen with a technological keyboard and 24" screen for monitoring of cutting observation
- Easy control of operation
- Solid construction of separate track block
- Standard thickness of the cut material up to 100 mm
- Cutting of highly reflective materials
- Minimum kerf
- Possible common line cutting
- Elimination of downtime during operation
- High-performance, operationally stable, user-friendly CNC system

The Vanad MIRON Laser CNC cutting machine is a top-ranking device with a simple construction. Its advantage is a quick and simple installation. Thanks to an open access it can process larger or non-standard metal sheets despite its small dimensions. This machine can be fitted with three types of thermal cutting technologies: oxy-fuel, plasma and also fiber laser. The basic models available are MIRON with plasma or oxy-fuel technology, MIRON RotCUT for processing of tubes and profiles, and MIRON Laser.



◀ MIRON Laser is an efficient CNC cutting machine equipped with fiber laser, which effortlessly cuts metal and non-metal materials such as mica plates, HSS sheets, klingerit, mirelon, polyethylene foam, anti-vibration rubber sheets, cardboard, cork, brass, bronze, copper and tar paper.

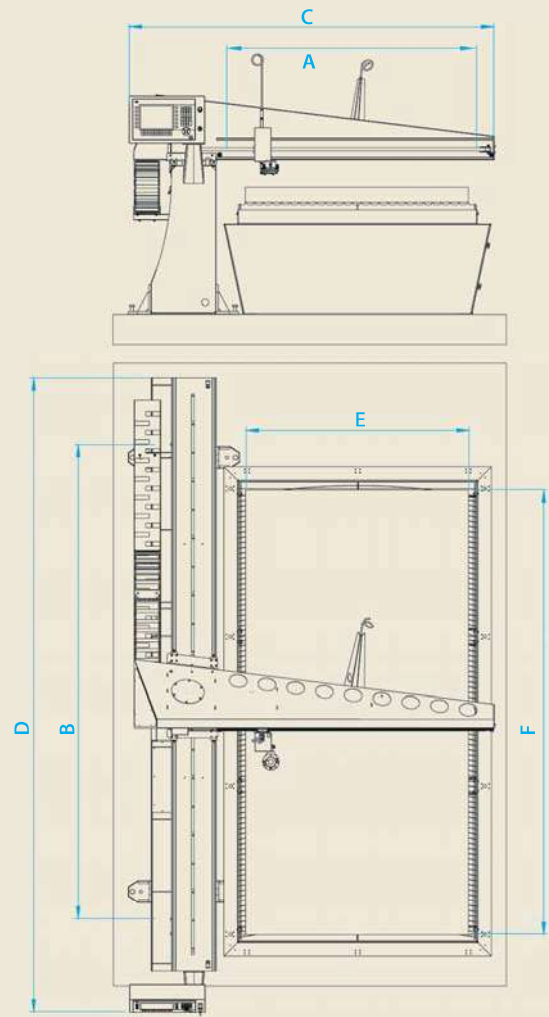
The machine also allows for cutting with compressed air, which greatly reduces not only the cutting costs, but also provides additional benefits for cutting of aluminium, and stainless as well as structural steel

### Standard equipment

- B&R control system
- Flexible energy chains
- Two linear guides for the single-side longitudinal travel
- Motors with constant torque – high quality cut parts
- Transfer of cutting data via the USB or LAN network
- Precise control of the plasma torch height

### Optional equipment

- Laser pointer for setting of the initial torch position
- IHT capacitive height control
- CAD/CAM software for preparation of the cutting data



Vanad MIRON		10	15
Working width of the machine	A [mm]	1100	1600
Working length of the machine	B [mm]		2150, 3150
Total width of the machine	C [mm]	1920	2420
Total length of the machine	D [mm]		3278, 4278
Loading width for metal sheet	E [mm]	1000	1500
Loading length for metal sheet	F [mm]		2000, 3000
Maximum travel speed	[m/min]		12,7
Maximum number of units			1 cutting unit



The Vanad MIRON may be delivered as part of a comprehensive cutting station, including oxy-fuel technology or a plasma or laser system and consumables, with a compressor for air supply, including its treatment as well as extraction and filter system for the exhaust of smoke and fumes from thermal cutting of materials



# Vanad RotCUT

- > OXY-FUEL / PLASMA / LASER
- > TUBES AND PROFILES
- > CUSTOMISED SOLUTIONS
- > HIGH ACCURACY

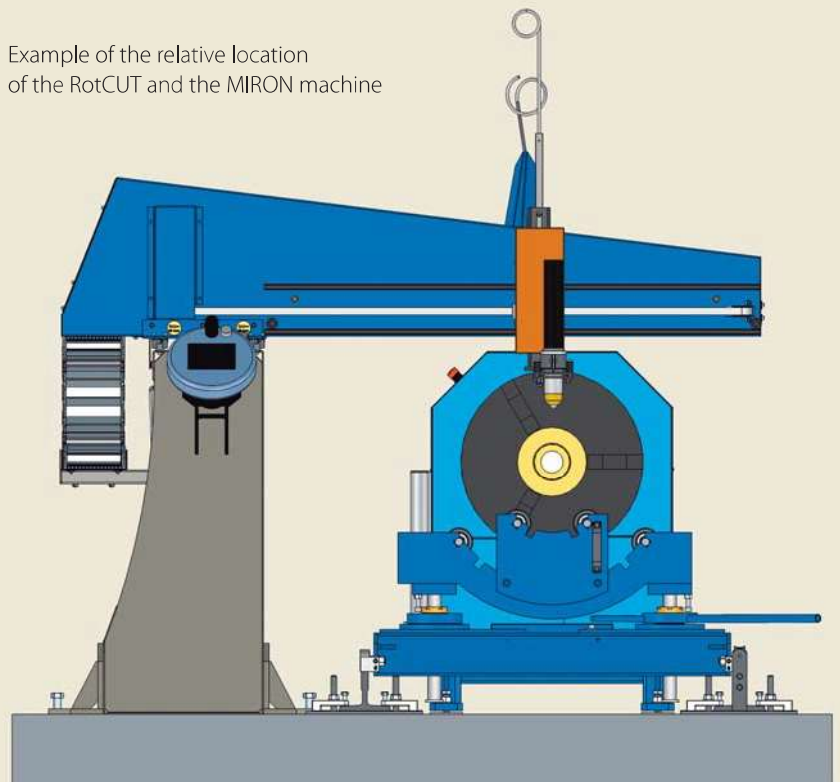


## Features

- Proven reliable robust construction allowing for achievement of high accuracy of fabricated shapes
- Ease of operation
- Reliable and user-friendly control system
- High versatility of the station in connection with a standard Vanad cutting machine
- Variable creating of cutting plans
- Minimum investment costs
- Transfer of the movement from axis "Y" program to the rotary axis "Rc" during cutting

The RotCUT is a modern, highly effective supplementary device for precise tube and profile processing, delivered together with Vanad machines. The RotCUT is designed for the production of steel construction components. The RotCUT device is distinguished by its remarkable accuracy, reliability and performance. The device is always tailor-made to meet requirements of each customer in order to achieve the maximum range of diameters and high productivity. Supporting steadies and the track for their fast transfer are included in RotCUT.

Example of the relative location of the RotCUT and the MIRON machine



◀ The supplementary RotCUT device for processing of tubes and profiles may be used in combination with other machines, e.g. Vanad BLUESTER, PROXIMA, MIRON, SUPREMA, MIRON Laser and KOMPAKT Laser

Two models of RotCUT with servo motors are available:

- RotCUT with a maximum tube diameter of 314 mm
- RotCUT with a tube diameter range of 60–1,000 mm

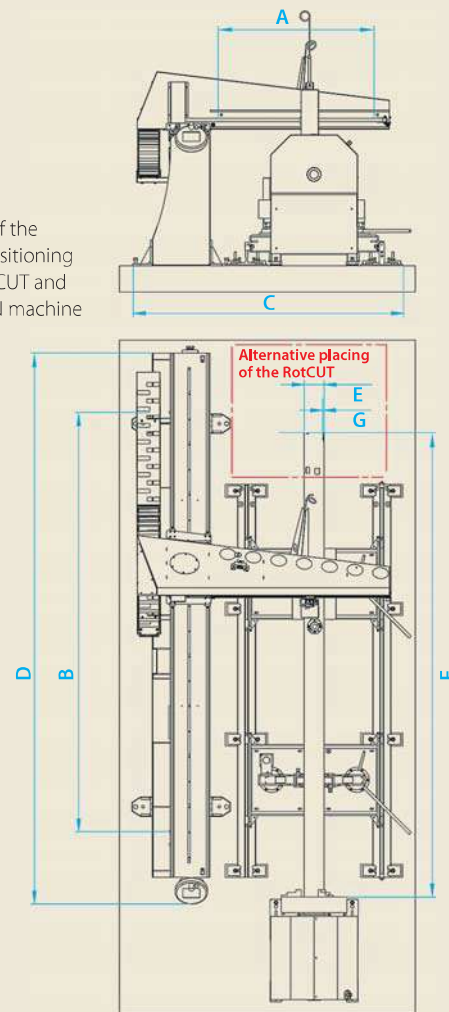
### Possible combinations of the RotCUT device

The RotCUT device for processing of tubes and profiles may be combined with the following Vanad CNC machines:

- RotCUT + BLUESTER, PROXIMA, MIRON, SUPREMA
- RotCUT Laser + KOMPAKT Laser, MIRON Laser



Example of the relative positioning of the RotCUT and the MIRON machine



		MIRON + RotCUT	PROXIMA + RotCUT	KOMPAKT Laser + RotCUT	SUPREMA + RotCUT
Tube diameter	E [mm]	60 – 600	60 – 1000	max. 246	max. 314
Tube length	F [mm]	max. 3000	max. 6000	in relation to the machine length (15x30 = 2500)	max. 3000
Tube wall thickness	G [mm]	max. 20	max. 20	max. 20	max. 20
Drive			servo motor with epicyclic gear		stepping motor with epicyclic gear
Construction of the device				steel, assembled	
Tube clamping				three-, or four-jaw chuck	
Control system				B&R	

We have developed a special solution tailor-made to meet our customers' special requirements regarding machining tubes – e.g. MIRON Laser machine with the solid state laser system SPI 500 W, supplementary RotCUT device, Kemper filter system and Orlik compressor



# Vanad KOMPAKT / KOMPAKT Light

- > OXY-FUEL / PLASMA
- > COMPACT
- > QUICK
- > EASY INSTALLATION

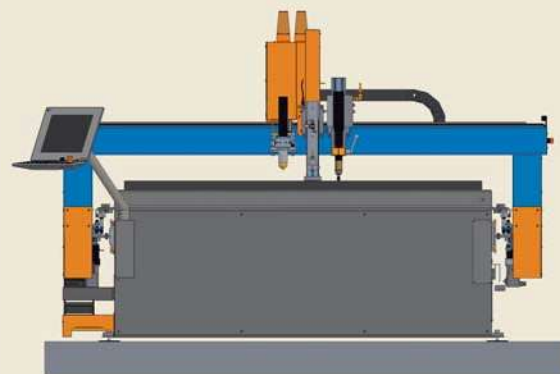
## Features

- Complete range of machines for processing of the most frequently used formats of metal sheet
- Rigid construction of the extraction table with an integrated travel path for the portal technology carrier
- Double-sided longitudinal travel
- Linear guides in all movement axes
- New range of adjustable large format touch screens with a technological keyboard; KOMPAKT Light model with the Power Panel 500 mobile touch screen with a technological keyboard
- Precise control of the ignition and working height of the torch
- High positioning accuracy, even during long-term operation
- Standard thickness of the cut material:
  - KOMPAKT 50 mm (70 mm oxy-fuel)
  - KOMPAKT Light 30 mm (50 mm oxy-fuel)
- Outstanding dynamic properties of a CNC machine
- High-performance, operationally stable, user-friendly CNC system
- Elimination of downtime during operation

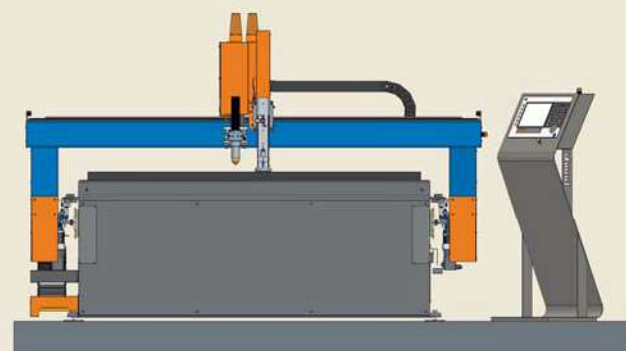
The CNC thermal cutting machines Vanad KOMPAKT and KOMPAKT Light present a great compact solution with easy assembly and handling. Their construction enables customers to machine the most common formats of metal sheet and fully meets all requirements for a high-performance station. Thanks to its solid construction the Vanad KOMPAKT machine may be fitted up with a modern powerful plasma system as well as oxy-fuel technology. The Vanad KOMPAKT Light is designed for the use of standard air plasma systems. It also allows for the installation of supplementary devices.



Vanad **KOMPAKT**



Vanad **KOMPAKT Light**



◀ The Vanad KOMPAKT machine is integral to our centre for thermal cutting and is also often lent to demonstrate quality cut parts at exhibitions in the Czech Republic and abroad.

The machine is equipped with plasma technology and marking unit. The Vanad KOMPAKT may be fitted up with two supplementary devices

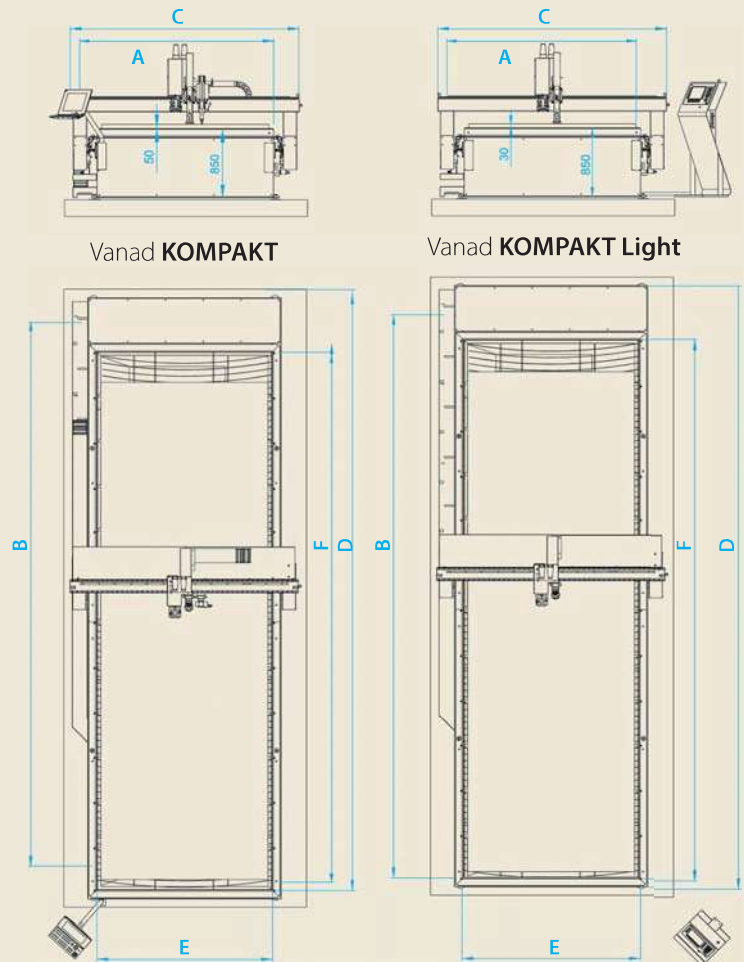


### Standard equipment

- Double-sided longitudinal travel
- Flexible energy chains
- B&R control system
- Transfer of cutting data via the USB or LAN network
- Precise control of the plasma torch height
- Pneumatic-electric control of the ignition height of the plasma torch

### Optional equipment

- Marking unit – plasma marking
- Marking unit – micro-punching
- Marking unit – drawing needle
- Drilling unit
- Unit for contact control of the plasma torch height (for cutting of thin sheets)
- CAD/CAM software for preparation of cutting data



		Vanad KOMPAKT						Vanad KOMPAKT Light				
		10×20	15×30	15×60	20×30	20×40	20×60	10×20	15×30	15×60	20×40	20×60
Working width of the machine	A [mm]	1200	1700	1700	2200	2200	2200	1200	1700	1700	2200	2200
Working length of the machine	B [mm]	2290	3290	6530	3290	4290	6530	2290	3290	6530	4290	6530
Total width of the machine	C [mm]	1730	2230	2230	2730	2730	2730	1730	2230	2230	2730	2730
Total length of the machine	D [mm]	3140	4140	7380	4140	5140	7380	3140	4140	7380	5140	7380
Loading width for metal sheet	E [mm]	1100	1600	1600	2100	2100	2100	1100	1600	1600	2100	2100
Loading length for metal sheet	F [mm]	2160	3240	6480	3240	4320	6480	2160	3240	6480	4320	6480
Maximum travel speed	[m/min]	42,4						14,1				
Maximum number of units		1 main unit + 2 supplementary devices						1 main unit + 1 supplementary device				



◀ The Vanad KOMPAKT Light is a sophisticated solution designed for use of standard air plasma systems. The machine may be equipped with one supplementary device

▶ The Vanad KOMPAKT CNC cutting machine is very popular among our customers for its excellent properties, easy operation and quick assembly

