



OXY-FUEL, PLASMA & LASER

CNC cutting machines

VANAD 2000 a.s.

> VANAD 2000 a.s. – follower of CNC cutting machines production in the Czech Republic

The Company Vanad 2000 a.s. with the registered office in Golčův Jeníkov is a producer of modern design high performance CNC machines for shape cuttings with oxy-fuel, latest plasma technology and fiber lasers.

Since 1994 we are specialized in production and development of high performance CNC machines for thermal cuttings. The tradition of our production and know-how of our cutting machines follows a 40 year old history of producing cutting machines in former Czechoslovakia. Since our existence, we have produced and delivered cutting machines to hundreds of satisfied customers in the Czech Republic and abroad. We use our own resources to develop original software and construction paying attention to a high quality of the machines.

Our goal is to bring the maximum value to the end user. Thanks to permanent research and development supported by comprehensive know-how and experience of our employees, we continuously introduce new and innovative solutions for the cutting workplaces. The flexibility and variability enables us to adapt to the customer requirements and propose a complete individual solution. The complexity of the provided solutions ranks us amongst the leading suppliers of cutting machines not only on the domestic market. We naturally provide fast and professional warranty and post-warranty servicing. We are an authorized partner of recognized suppliers specializing in technologies for thermal cutting of material. We are an authorized partner of the most significant suppliers of technologies for thermal cutting. Our vision is to be a leading supplier of comprehensive solutions regarding the sheet metal processing whilst maintaining individual approach to our customers. Values of our company are priorities such as customers, ethical behaviour, environmental protection, team work, professionalism, open communication, loyalty, pride and commitment to the company, initiative, innovation and development.

History of company in dates

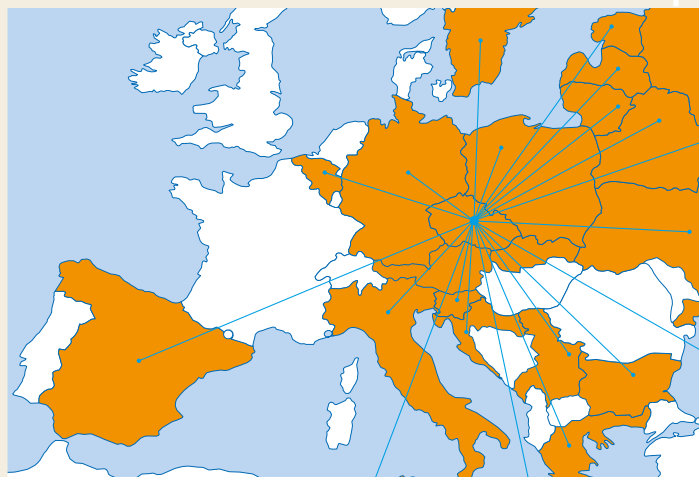
- 2014 New machine **Vanad KOMPAKT Light**
- 2013 New machines **Vanad BLUESTER** with automatic 3D plasma head and **Vanad SUPREMA**

- 2012 New machine **Vanad KOMPAKT Laser**
- 2011 Sold machine with serial number 1000
- 2010 Automatic rotation three-torch cutting head, **RotCut** – rotator for form cutting
- 2009 New machine **Vanad ARENA B&R**
- 2008 New range of machines with control system B&R, commencement of production in new plant
- 2007 Sold machine with serial number 800, new company head office
- 2006 Vision, mission and company values for the following years
- 2004 Sold machine with serial number 500
- 2003 Higher level of optimizing cutting workplaces regarding the production rate of the cutting costs and environmental protection
- 2002 Unified range of additional units Vanad
- 2001 New machine **Vanad KOMPAKT** assembled with material table, company's legal status changed to Vanad 2000 a.s.
- 2000 Export of new machines to the global market
- 1998 **PROXIMA** machine modification with application for HD plasma
- 1997 New machine **Vanad PROXIMA** – machine of highest class, construction of own production plant
- 1996 Export of machines to the European market
- 1995 Commencement of serial production of machines **Vanad MIRA** and **ARENA**
- 1994 Establishment of **Vanad s.r.o.**, reconstruction of older machines, development of own machine and control system



Vanad machines parameters

The Vanad machine parameters enable the processing of all common available materials designed for plasma and oxy-fuel cutting. The machines are recognized for their outstanding and yet simple operation and fast data preparation. They are equipped



Our sales network

- Europe
- Egypt
- India
- South Africa



with a number of special tools developed by our development team on the basis of many years of experience. Vanad machines are used for the purposes of highly demanding cutting procedure regarding the shape and accuracy. The uniqueness of our solutions provides our customers with wide range of utilization and subsequently the opportunity to acquire competition advantages within the market.

During the construction work and production, we apply to most recent technologies in order to guarantee a perfect functionality of the machine. High rigidity, great dynamics, maximum accuracy of the portal and supports leads with high quality wiping process of the guiding surfaces – these are the properties, which predetermine machines Vanad for utilization within highly demanding operations with maximum requirements regarding the production rate of the cutting process and cutouts quality.

The basic premise for achieving the dimensional accuracy, perpendicularity of the edges and the flame cuts structure, is the utilization of the most suitable



cutting technology, appropriately fine shift, constant speed, high acceleration, resistance to the oscillation of the torch, high accuracy and repeatability. Complying with such requirements is the prime measure for the construction of Vanad machines. The results include exceptionally rigid construction, accurate guiding, power drives, clearance-free gears and modern control system. The aforementioned matters enable to achieve the highest quality of the cutouts.

We lay great emphasis to supplies in spheres:

- Individual special designs of solutions for an optimum effects
- Pre-project consulting, designs of cutting workplaces
- The project of locating the workplace including the drawing of power inputs
- Organizing the workplace preparation
- Organizing the transport of the machine to the customer
- Portal CNC cutting machine

- Complete equipping of the cutting workplace (material table, suction, filtration)
- Plasma sources, including HD class plasma, torches for flame cutting
- Additional devices for optimizing the production efficiency
- Installation and commissioning of the cutting workplace
- Consumption material for plasma and oxygen cutting
- Complete product range of original spare parts
- Modernizing the cutting workplaces



Workplace before modernization



Workplace after modernization

Centre for thermal cutting of metal

We introduced a modified Centre for thermal cutting in development department of our company. With eight permanent workplaces it is the largest permanent demonstration exhibition of thermal cutting in our country.

The purpose of the centre is to help:

- Those interested to choose the best CNC machines, equipment and technology, demonstration of technological possibilities of our CNC cutting machines.
- With your current problems of practice, whether you cut using oxy, plasma or laser.
- Consult and possible training of CNC machines operators for cutting or data preparation.
- In cooperation with schools to demonstrate thermal cutting and also help students by leaving the school and coming to work.



New company head office rebuilt in 2007 in the former textile company Technolen.



Vanad **BLUESTER**

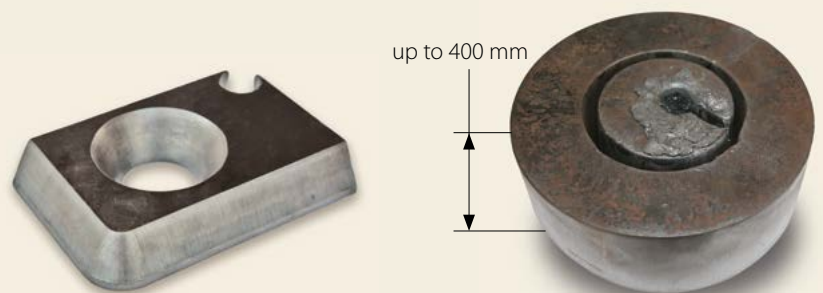
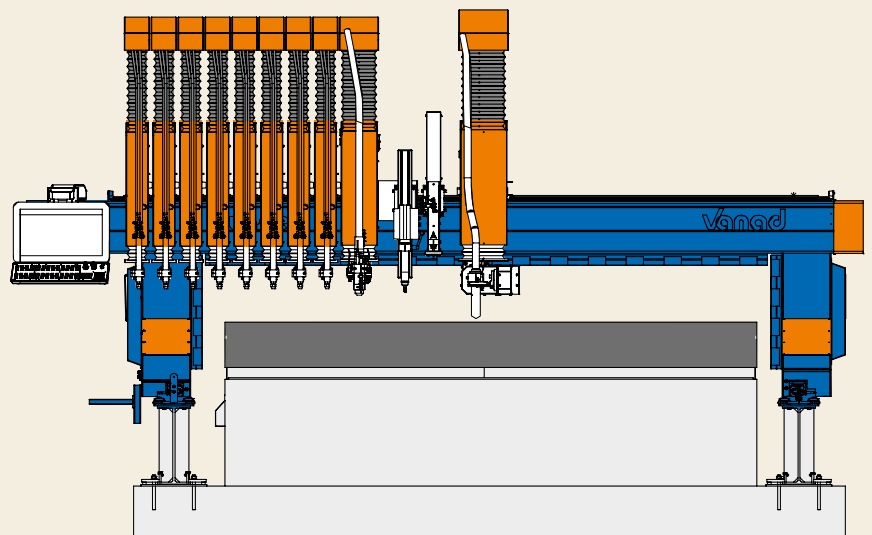
- > OXY-FUEL / PLASMA
- > HIGHEST PERFORMANCE
- > 3D PLASMA HEAD
- > HIGHEST QUALITY

CNC thermal cutting machine Vanad BLUESTER is widely known as the most technologically advanced machine and it is designed for the toughest operations. This machine works on the largest format of metal sheets by using a number of oxy-fuel torches along with fully automatic bevelling. 3D plasma head is technologically designed for usage of the latest and most powerful plasma sources. This machine may be equipped with entire portfolio of additional devices.

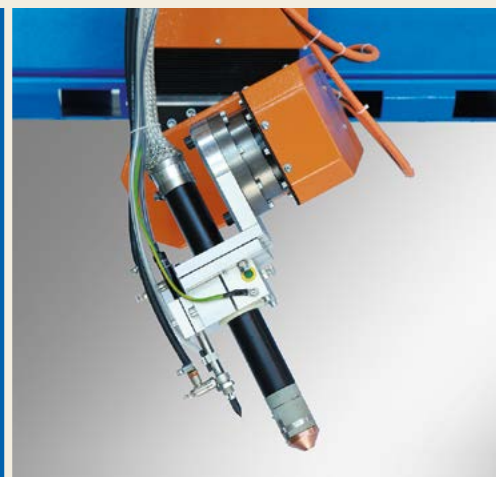


Advantages

- Double-sided longitudinal travel path
- High lifting capacity - option for use up to 10 supports
- Linear guiding in all axes
- 21,5" positionable touch panel with technological keyboard for easy control
- Exact control of the ignition and working height of the torch
- High accuracy of the positioning also after long-term operation
- Thickness of cut material up to 400 mm
- Excellent dynamic properties of the machine
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system



Cutting workplace BLUESTER 20x120 realized in 2014 with the plasma source Kjellberg HiFocus 360i and oxy-fuel technology.

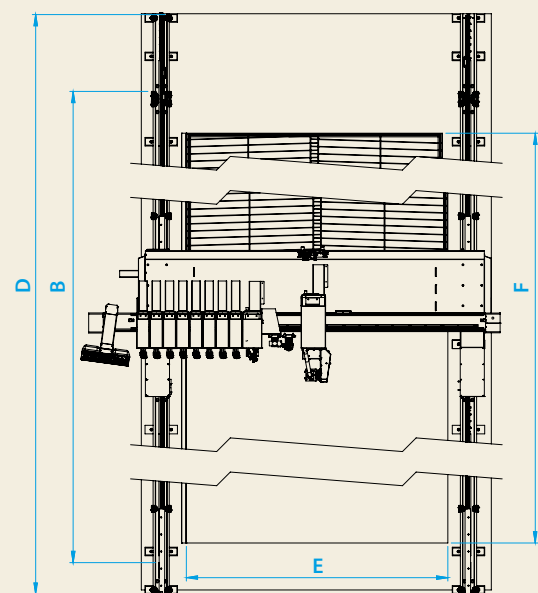
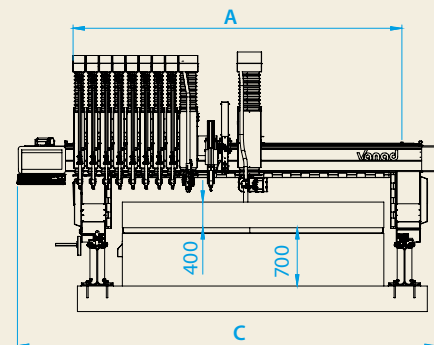


Standard equipment

- Sectional chassis for automatic portal set-up
- Longitudinal reinforced IPE beams
- Flexible energy chains
- Electric ignition of the oxy-fuel torch
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches
- Control system B&R

Optional equipment

- Support 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 – to cut thin sheets
- Oxy-fuel unit for cutting of bevels (V, X)
- CAD/CAM software for the 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 by 500	8134	
Working length of the machine	B	[m]		(3, 4, 6, 8, 10, 12, 14, max. 60)			then by 0,5	up to 60	
Total width of the machine	C	[mm]	3950	4450	4950	5450	then by 500	9950	
Total length of the machine	D	[m]		(5, 6, 8, 10, 12, 14, 16, max. 62)			then by 0,5	up to 62	
Loading width for metal sheet	E	[mm]	2100	2600	3100	3600	then by 500	up to 8100	
Loading length for metal sheet	F	[m]	according to working length of the machine						up to 60
Maximum travel speed		[m/min]	42,4						
Maximum number of supports	1x primary support, 1x secondary support (plasma), 8x secondary support (oxy-fuel), 2x additional device, 2x 3D-support, 1x three torch head rotating, 2x three torch head manual								



The machine can be delivered as a part of the complete delivery of the whole cutting workplace, i. e. including the plasma source and the consuming parts for plasma or oxy-fuel cutting, the compressor for the air supply, including air treatment, filter equipment for fumes originated during the thermal cutting of materials.



Vanad PROXIMA

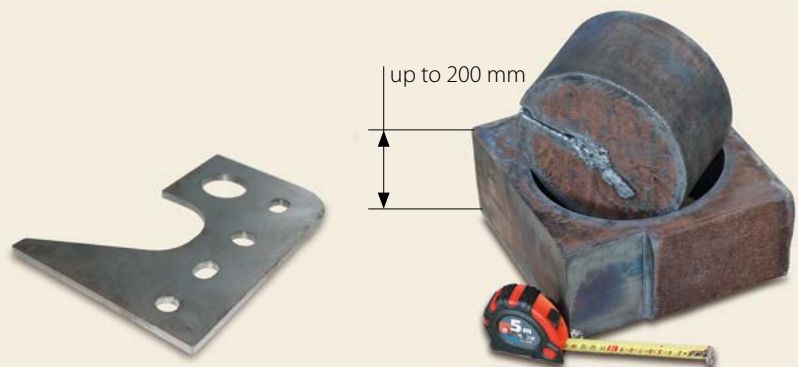
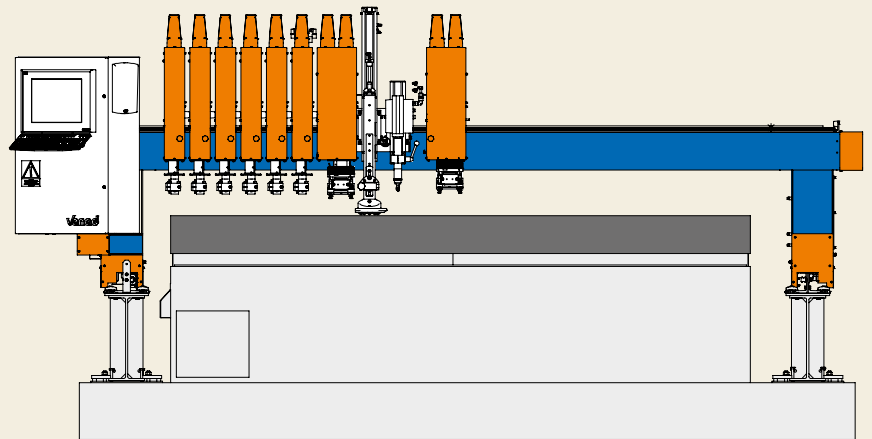
- > OXY-FUEL / PLASMA
- > HIGH PERFORMANCE
- > HIGH ACCURACY
- > ACCESSORIES
- > COMBINABLE WITH ROTCUT

CNC thermal cutting machine Vanad PROXIMA is a highly efficient device which is designed to be used by really challenging customers for heavy operations. The machine works perfectly on a large metal sheet and could be used with many oxy-fuel torches along, with manual or fully automatic bevelling. Installed plasma carriages are ideal for the usage of the latest and most efficient plasma sources. This machine can be also equipped with other additional devices.



Advantages

- Double-sided longitudinal travel path
- Linear guiding in all axes
- 15" touch panel with technological keyboard for easy control
- Thickness of cut material up to 200 mm
- High accuracy of the positioning also after long-term operation
- Excellent dynamic properties of the machine
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system
- High lifting capacity - option for use up to 8 supports



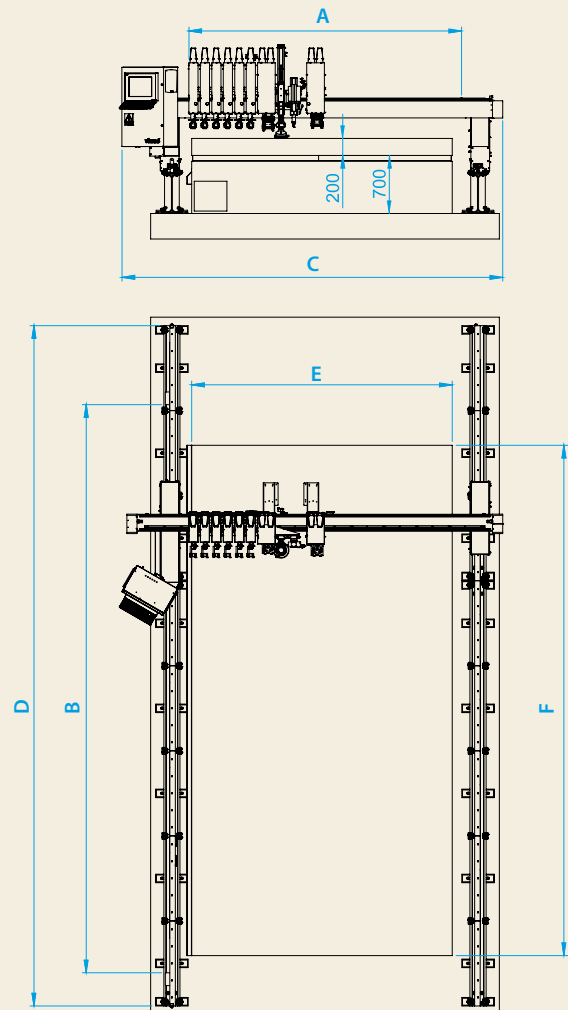
Cutting workplace PROXIMA realized in 2011. CNC cutting machine is equipped with plasma source Kjellberg HiFocus 280i and oxy-fuel technology.

Standard equipment

- Longitudinal reinforced IPE beams
- Flexible energy chains
- Electric ignition of the oxy-fuel torch
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches
- Control system B&R

Optional equipment

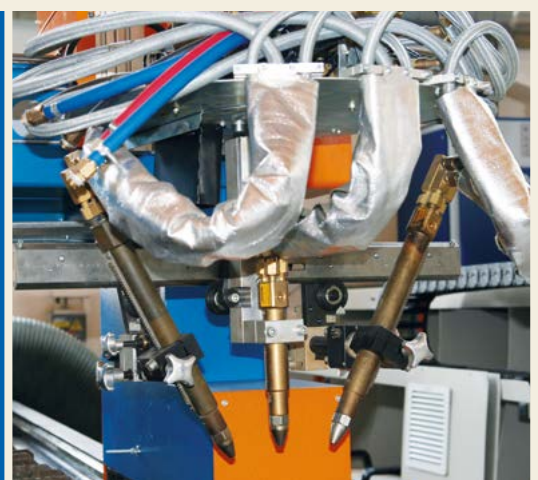
- Marking unit – plasma marking
- Marking unit – micro-punching
- Marking unit – drawing needle
- Drilling unit
- Unit for contact control of the height of the plasma torch – for cutting of thin sheets
- Oxy-fuel torch unit for cutting of bevels (V, X)
- CAD/CAM software for the preparation of cutting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



Vanad PROXIMA			15	20	25	30	...	up to 60	
Working width of the machine	A	[mm]	1634	2134	2634	3134	then by 500	6134	
Working length of the machine	B	[m]	(3, 4, 6, 8, 10, 12, 14, max. 24)				then by 0,5	up to 24	
Total width of the machine	C	[mm]	2990	3490	3990	4490	then by 500	7490	
Total length of the machine	D	[m]	(5, 6, 8, 10, 12, 14, 16, max. 26)				then by 0,5	up to 26	
Loading width for metal sheet	E	[mm]	1600	2100	2600	3100	then by 500	up to 6100	
Loading length for metal sheet	F	[m]	according to working length of the machine						up to 24
Maximum travel speed		[m/min]	35,4						
Maximum number of supports	1x primary support, 1x secondary support (plasma), 6x secondary support (oxy-fuel), 2x additional device, 1x three torch head rotating, 2x three torch head manual								



High-performance double portal cutting workplace PROXIMA realized in 2013 with the plasma source Kjellberg HiFocus 440i and oxy-fuel technology.



Vanad SUPREMA

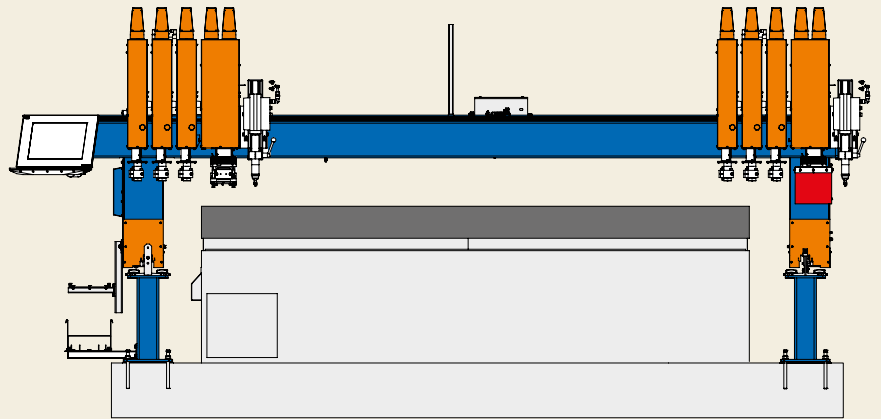
- > OXY-FUEL / PLASMA
- > GOOD VALUE
- > HIGHLY EFFICIENT
- > ACCURATE

CNC thermal cutting machine Vanad SUPREMA is great innovative option which meets all general requirements at the comprehensive operations. It is a great solution for processing large metal sheets with a number of oxy-fuel torches along with the option of manual bevelling. This machine is also designed for usage of modern and powerful plasma sources. There is also the option of additional devices which broaden the complex usage of this machine.



Advantages

- Linear guiding in all axes
- 15" touch panel with technological keyboard for easy control
- Motors with high torque movement and feedback – good dynamic properties of the machine
- Proportional gas distribution
- Thickness of cut material 175 mm
- LAN, USB connector for easy data transfer
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system



Cutting workplace SUPREMA realized in 2014. CNC cutting machine is equipped with plasma source Hypertherm Powermax 125 and oxy-fuel technology.

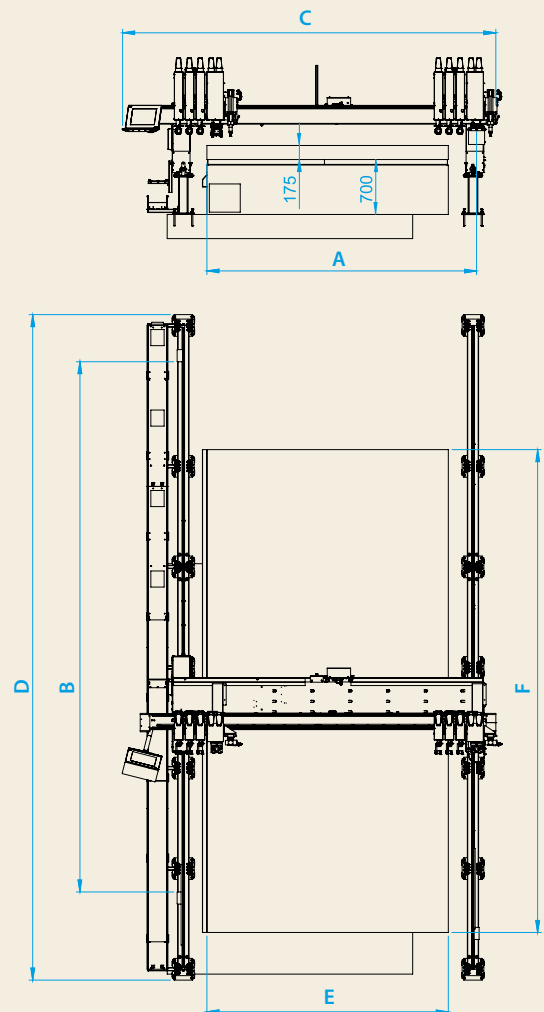


Standard equipment

- Double-sided longitudinal travel path
- Control system B&R
- Flexible energy chains
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torch

Optional equipment

- CAD/CAM software for the preparation of cutting data
- Laser sensor for setting of initial value of the position of the torch
- Electric ignition of the flame of the autogenous torch
- IHT capacity control of the height 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]		3000, 4000, 6000, 8000, 10000, 12000		
Total width of the machine	C	[mm]	3070	3570	4070	4570
Total length of the machine	D	[mm]		5000, 6000, 8000, 10000, 12000, 14000		
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 supports				1x primary support, 3x secondary support (oxy-fuel), 1x additional device		



CNC thermal cutting machine Vanad Suprema meets all general requirements at the comprehensive operations adapted to the needs of small and medium sized companies.



Vanad ARENA

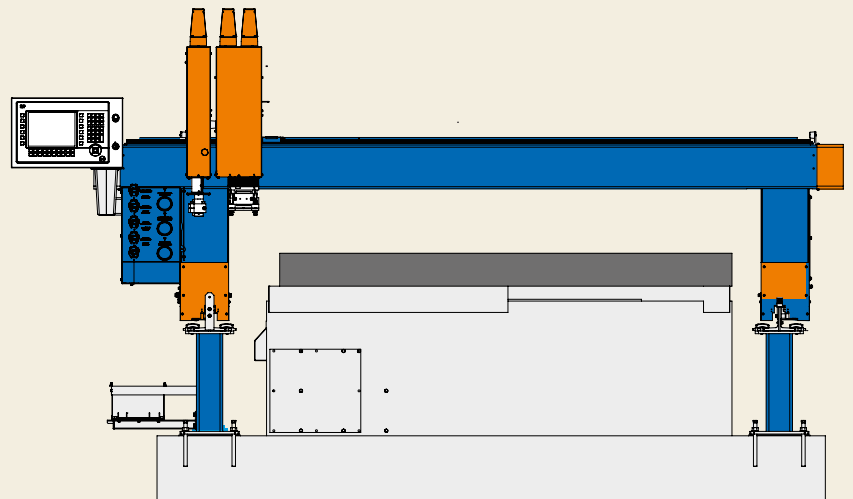
- > OXY-FUEL / PLASMA
- > ECONOMICAL
- > POWERFUL
- > USER-FRIENDLY

CNC thermal cutting machine Vanad ARENA is an optimal solution with a simple construction, which is appreciated in operations of medium production. This machine is suitable for processing standard metal sheets and it has been designed for the installation of either simple plasma or oxy-fuel technology. The machine is equipped with a touch screen and technology keyboard.



Advantages

- High accuracy of the positioning also after long-term operation
- 10,4" touch panel with technological keyboard for easy control
- Motors with high torque movement and feedback – good dynamic properties of the machine
- Thickness of cut material 150 mm
- LAN, USB connector for easy data transfer
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system



CNC cutting machine ARENA with new touch panel and oxy-fuel torch.

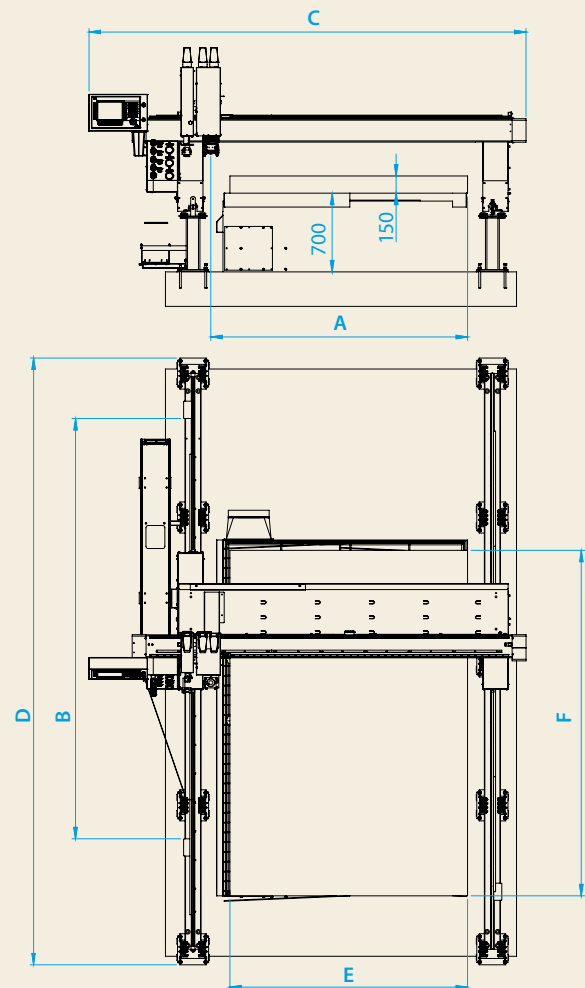


Standard equipment

- Double-sided longitudinal travel path
- Control system B&R
- Flexible energy chains
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches

Optional equipment

- Laser sensor for setting of initial value of the position of the torch
- CAD/CAM software for preparation of flame-cutting data
- Electric ignition of the flame of the oxy-fuel torch
- IHT capacity control of the height 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]		3000, 4000, 6000
Total width of the machine	C	[mm]	3300	3800
Total length of the machine	D	[mm]		5000, 6000, 8000
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 supports			1x primary support, 1x secondary support (oxy-fuel)	



Vanad MIRA

> OXY-FUEL / PLASMA

> SIMPLE

> USER-FRIENDLY

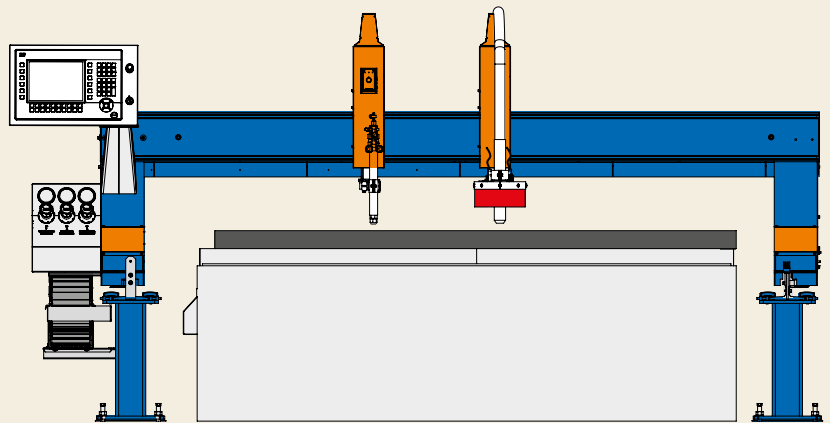
> EFFICIENT

CNC thermal cutting machine Vanad MIRA is absolutely remarkable for its simplicity and it is an ideal solution for small operations or beginners in thermal cutting. The construction of this machine has been designed in order to cope with standard size of metal sheets. It works perfectly combined with a simple plasma technology. It may have installed an oxy-fuel technology when there is a requirement for cutting metal sheets of higher thickness.



Advantages

- Double-sided longitudinal travel path
- 10,4" touch panel with technological keyboard for easy control
- Motors with constant torque movement
- Good dynamic properties of the machine
- Thickness of cut material 100 mm
- LAN, USB connector for easy data transfer
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system



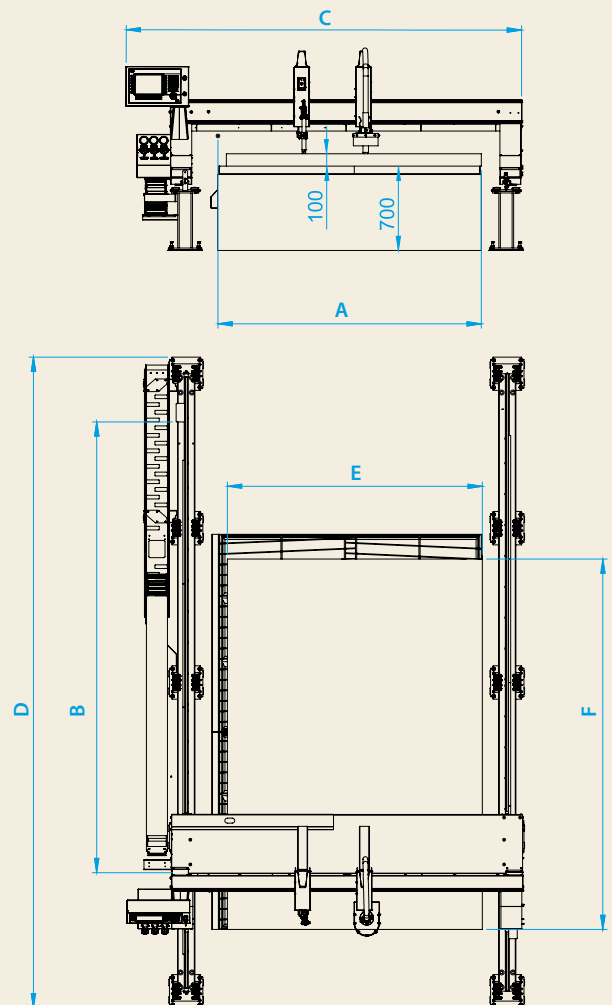
CNC cutting machine MIRA is also installed in our Showroom.

Standard equipment

- Control system B&R
- Flexible energy chains
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches

Optional equipment

- Laser sensor for setting of initial value of the position of the torch
- CAD/CAM software for preparation of flame-cutting data
- Electric ignition of the flame of the oxy-fuel torch
- IHT capacity control of the height 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]		1000, 3000, 4000, 6000
Total width of the machine	C	[mm]	2710	3210
Total length of the machine	D	[mm]		3000, 5000, 6000, 8000
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 supports			plasma + oxy-fuel OR oxy-fuel + oxy-fuel	



Cutting workplace
 MIRA realized in 2013
 with plasma source
 Hypertherm
 Powermax 105.



Vanad MIRON

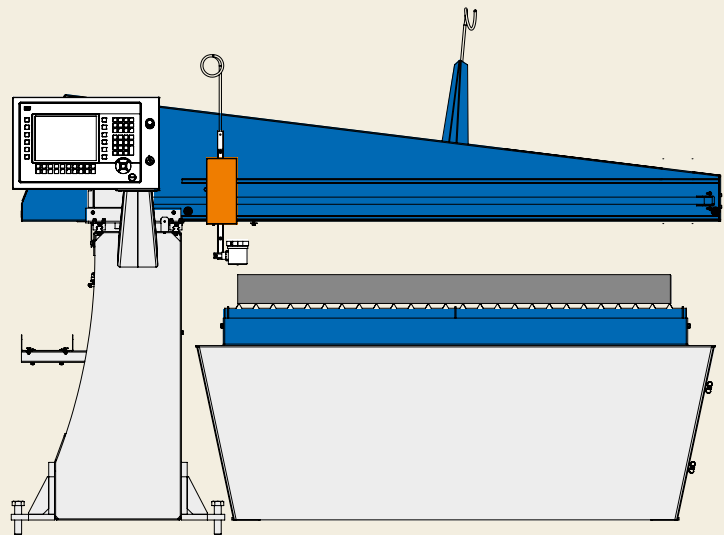
- > OXY-FUEL / PLASMA / LASER
- > ACCESSIBLE
- > SMALL
- > COMBINABLE WITH ROTCUT

The CNC thermal cutting machine Vanad MIRON is a superb device with simple construction and also with the advantage of a quick and simple installation. Despite its small in proportions it is suitable for processing larger metal sheets or even irregular shapes. This is possible thanks the open access to the portal. This machine can be armed with all three thermal cutting technology: oxy-fuel, plasma and also fiber laser. Basic supplied models are MIRON with plasma or oxy-fuel technology, MIRON RotCut for cutting tubes and profiles and MIRON Laser.



Advantages

- Possibility to fit all three types of thermal cutting – oxy-fuel, plasma and laser
- Small installation length and width compared to portal construction
- Easy side access to the table
- Fiber laser power up to 1 kW
- User friendly
- Rigid construction of separate block path
- Thickness of cut material 100 mm (oxy-fuel)
- Minimum kerf, possibility of common cut (laser)
- Elimination of any unproductive time during operation
- High-performance, stable, user-friendly CNC system



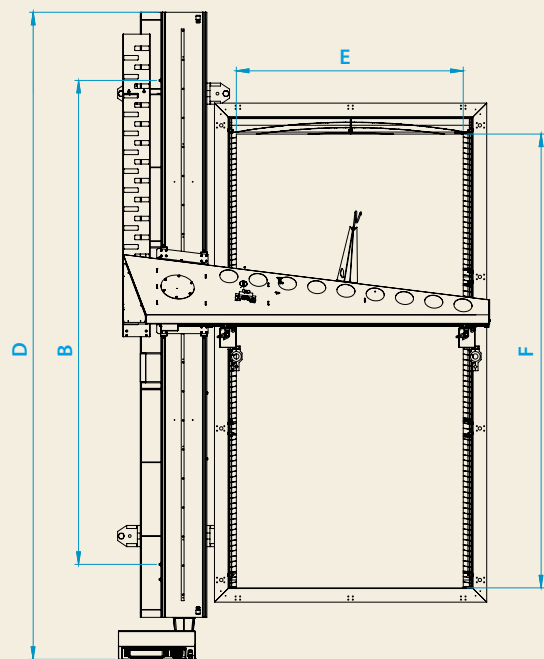
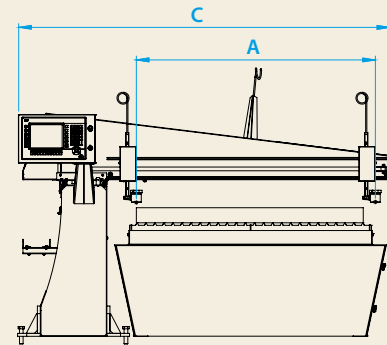
MIRON can be delivered as a part of the complete delivery of the cutting workplace, i. e. including the plasma and laser source and the consuming parts for oxy-fuel, plasma or laser cutting, the compressor for the air supply, including air treatment, filter equipment for the exhaustion of fumes originated during the thermal cutting of materials.

Standard equipment

- Control system B&R
- 10,4" touch panel with technological keyboard for easy control
- Flexible energy chains
- Two linear guiding for one-sided drive of the longitudinal travel
- Motors with constant torque movement – high quality cutouts
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches

Optional equipment

- Laser sensor for setting of initial value of the position of the torch
- IHT capacity control of the height of the oxy-fuel torch
- CAD/CAM software for preparation of flame-cutting data



Vanad MIRON

			10	15
Working width of the machine	A	[mm]	1 100	1 600
Working length of the machine	B	[mm]		2 000, 3 000
Total width of the machine	C	[mm]	1 920	2 420
Total length of the machine	D	[mm]		3 000, 4 000
Loading width for metal sheet	E	[mm]	1 000	1 500
Loading length for metal sheet	F	[mm]		2 000, 3 000
Maximum travel speed		[m/min]		12,7
Maximum number of supports				1x support



Assembly of the MIRON machine with plasma source Hypertherm Powermax 125.



Vanad RotCUT

- > OXY-FUEL / PLASMA / LASER
- > TUBES & PROFILES
- > UNIQUE
- > ACCURATE

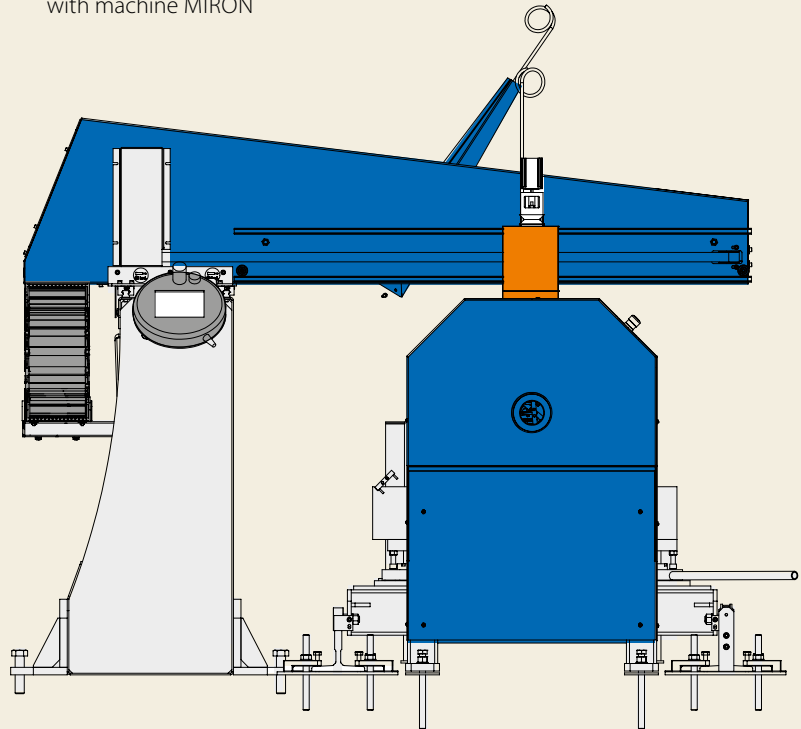
RotCUT is a modern and efficient equipment supplied with Vanad machines for processing of tubes and profiles. It is intended for production of steel constructions components in industry. It features a unique precision, reliability and performance. The device is always tailored to each customer in order to maximize the range of diameters and high productivity. A part of RotCUT equipment are supporting steadies and track for their fast moving.



Advantages

- Approved mechanical design and easy operation
- Robust construction for high precision end products
- Reliable, user friendly control system
- Together with a cutting machine creates a universal workplace
- Variability of creating cutting plans
- Minimum investment costs
- Can be used with the CNC control unit of the cutting machine Vanad PROXIMA and MIRON
- Transfer of the movement from axis "Y" program to the rotary axis "R_c" during cutting

Example of mutual location RotCUT with machine MIRON



RotCUT for pipes and profiles cutting can also be used in combination with other machines, such as machine SUPREMA or KOMPACT Laser.



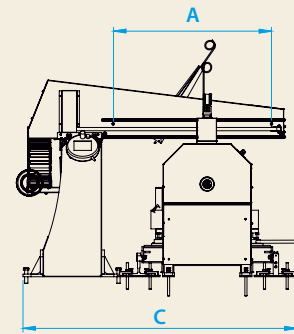
Combination options RotCUT

RotCUT device for processing pipes and profiles can be combined with these CNC machines:

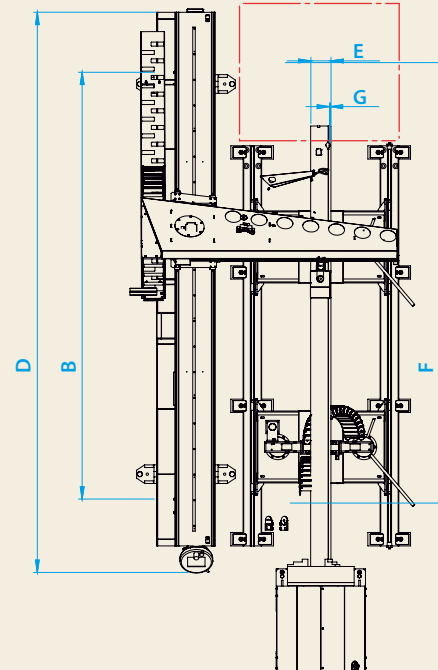
- RotCUT + Vanad MIRON
- RotCUT + Vanad PROXIMA
- RotCUT + Vanad KOMPAKT Laser
- RotCUT + Vanad SUPREMA



Example of mutual location RotCUT with machine MIRON



Alternate location for RotCUT



Stroj		MIRON + RotCUT	PROXIMA + RotCUT	KOMPAKT Laser +RotCUT	SUPREMA + RotCUT Mini
Tube diameter	E [mm]	60 – 600	60 – 1 000	max. 246	max. 314
Tube length	F [mm]	max. 3000	max 6000	dle délky stroje (15x30 = 2500)	max. 3000
Tube wall thickness	G [mm]	max. 20	max. 20	max. 20	max. 20
Drive		Servo motor with planetary gearbox			Stepper motor with planetary gearbox
Equipment construction		steel, mounted			
Tube fastening		3 or 4 clamping chucks			
Control system		B&R			



Vanad KOMPAKT / KOMPAKT Light

> OXY-FUEL / PLASMA

> COMPACT

> QUICK

> EASY INSTALLATION

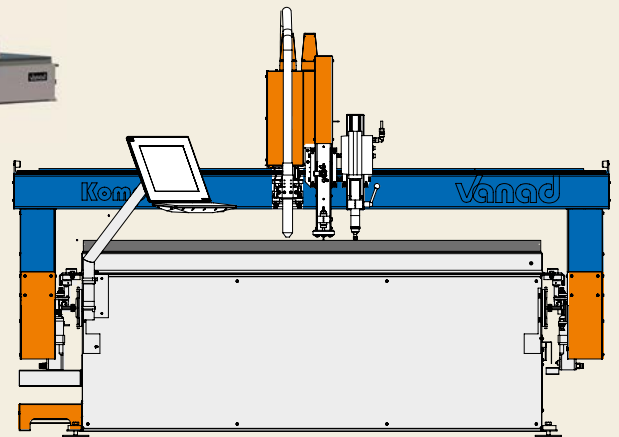
CNC thermal cutting machine Vanad KOMPAKT and KOMPAKT Light are bringing a great compact solution, assembled with a material table, with the advance of an easy installation and handling. The construction allows us really easily process regular sizes of metal sheets and fully satisfy the criteria on a highly efficient workplace. KOMPAKT machines thanks to the solid construction, may be equipped with modern and powerful plasma sources. It is also possible to equip this machine with other optional devices.

Advantages

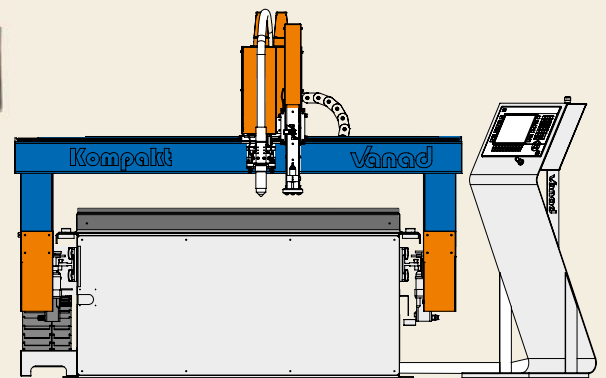
- Complete range of machines for processing the most common metal sheet formats
- Rigid construction of the exhausted material table with an integrated travel path for the portal technology carrier
- Double-sided longitudinal travel path
- Linear guiding in all axes
- 15" positionable touch panel with technological keyboard for easy control, Light version with 10,4" touch panel and integrated computer
- Precise control of the ignition and working height of the torch
- High accuracy of the positioning also after long-term operation
- Thickness of cut material up to:
 - KOMPAKT 50 mm (70 mm oxy-fuel)
 - KOMPAKT Light 30 mm (50 mm oxy-fuel)
- Excellent dynamic properties of the machine
- High-performance, stable, user-friendly CNC system
- Elimination of any unproductive time during the operation



Vanad KOMPAKT



Vanad KOMPAKT Light



Vanad KOMPAKT is an integral part of our showroom and is also frequently lent to demonstrate quality cutouts at exhibitions at home and abroad.

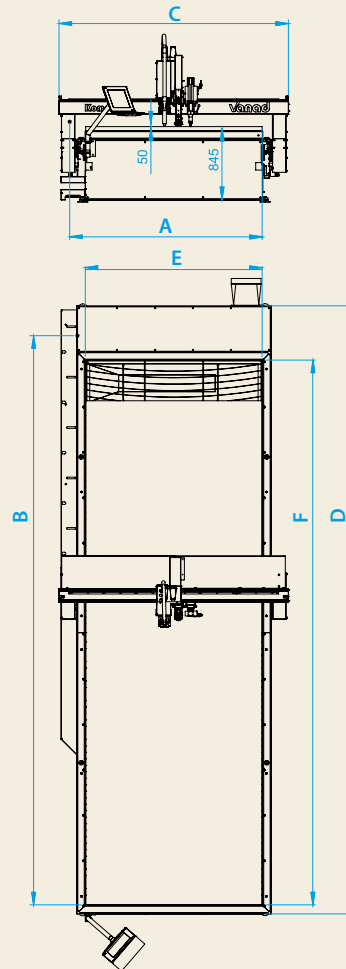
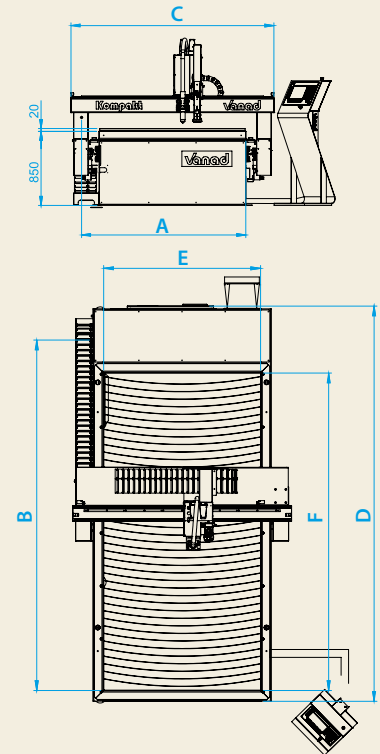


Standard equipment

- Flexible energy chains
- Control system B&R
- Electric ignition of the oxy-fuel torch
- Transfer of cutting plans by USB or LAN network
- Exact control of the height of the torches

Optional equipment

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

Vanad **KOMPAKT**Vanad **KOMPAKT Light**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 supports		1x primary support + 2x additional device						1x primary support + 1x additional device					



Vanad **KOMPAKT** – by customers very popular CNC cutting machine for excellent characteristics, easy handling and quick assembly.



Vanad KOMPAKT LASER

> LASER

> FASTEST

> ACCURATE

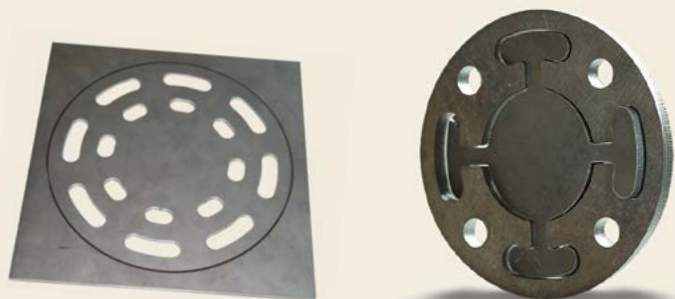
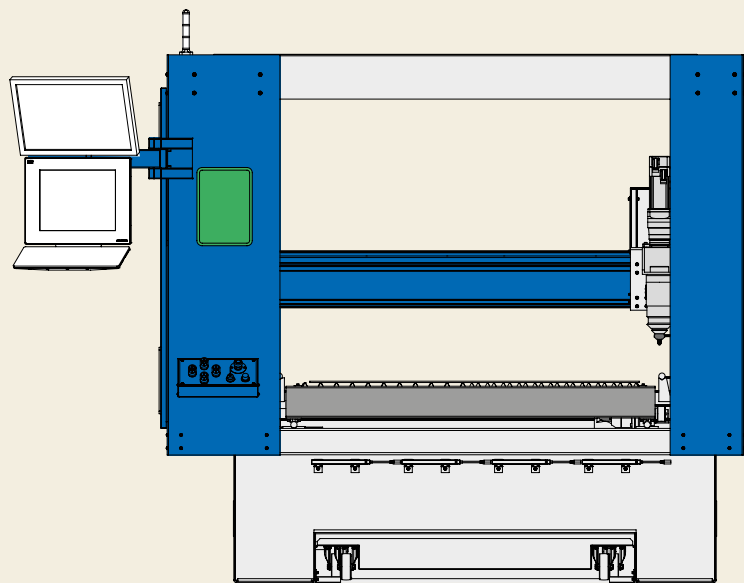
> ENERGY EFFICIENT

CNC thermal cutting machine Vanad KOMPAKT LASER brings latest compact solution for using the most modern fiber lasers. Thanks to its solid construction, assembled with material table, it exceeds in very easy installation and handling. The construction of this machine allows us easily process regular sizes of metal sheets and fully meets the criteria on a highly efficient workplace. The machine offers in standard – camera for tracking kerf on a separate monitor, security loopholes and automatic roll-tops.



Advantages

- Excellent dynamic properties of the machine
- Rigid construction of the route block and table
- Double-sided longitudinal travel drive
- Optical measurement of position
- High precision of the positioning after long operation
- Fiber laser power up to 3 kW
- Cutting even highly reflective materials
- Minimum kerf, possibility of common cut
- High-performance, operation-stable and user friendly CNC system
- Elimination of unproductive time during operation
- Minimum maintenance demands
- Low energy consumption and saving of the environment



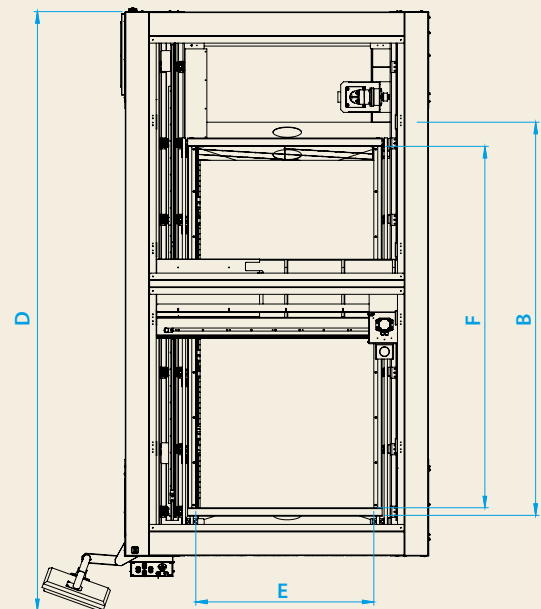
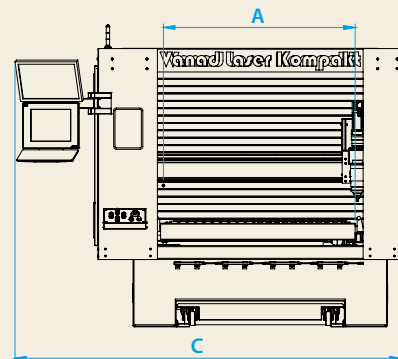
The design of the machine table allows to solve variably solve ejecting of the grid front or back for loading material and location conveyor for dumping the waste out of cutting area based on the workplace or customer requirements.

Standard equipment

- Flexible energy chains in longitudinal axes
- Linear guiding on all axes
- Control system B&R
- Transfer of cutting data through LAN network, Wi-Fi or USB
- Precise control of the height of the cutting head
- 15"(21") Fix touch panel with technological keyboard Laser marking
- Capacity setting of the ignition height of the cutting head
- Protective filter on loophole size A4 – 297x210 mm
- CAD/CAM software for preparation of cutting data

Optional equipment

- Laser pointer
- Optical curtain around the exposed grid
- Conveyor belt
- Large format side windows
- Movable grids for minimisation preparation time

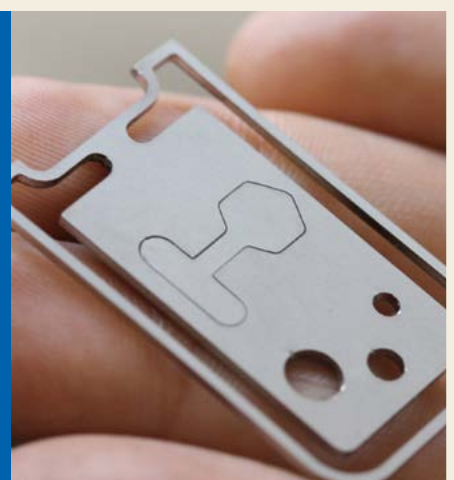


Vanad KOMPAKT LASER

			12,5×25	15×30	20×40
Working width of the machine	A	[mm]	1350	1650	2150
Working length of the machine	B	[mm]	2580	3100	4100
Total width of the machine	C	[mm]	2030	2440	2940
Total length of the machine	D	[mm]	3830 (+ transfer grid)	4600 (+ transfer grid)	5600 (+ transfer grid)
Loading width for metal sheet	E	[mm]	1250	1500	2000
Loading length for metal sheet	F	[mm]	2500	3000	4000
Maximum travel speed		[m/min]		45,3	
Maximum number of supports				1x laser support	



The machine can be delivered as a part of the complete delivery of the whole cutting workplace, i. e. including the laser source and the consuming parts for laser cutting, the compressor for the air supply, including air treatment, filter equipment for the exhaustion of fumes originated during the thermal cutting of materials.



Service, Assembly, Technologies

Service

We provide service for CNC cutting machines and plasma sources. We also provide guarantee and post-guarantee service, preventive controls, modernization of machines and repair of plasma sources including consultancy and professional services on the phone.

We provide superior service for our CNC machines **Vanad ARENA**, **Vanad PROXIMA** and **Vanad KOMPAKT**.

Guarantee service

We carry out repairs unless the defect is caused by others guilt (machine collision with another device by operator fault by operator fault, foreign objects in track of machine, etc.). Prompt arrival of the service technician in case of defect, which prevents machine operation. Other problems we solve after agreement.

Repairs of plasma sources

We are authorized service partner for all plasma source suppliers.

Modernization of machines

Replacing of worn ridges, machine guidance, gearboxes remanufacturing, replacement of worn bearings, **installation of additional devices**, replacement gas distribution, exchange of torches, reducing valves and control system etc.

Consulting

We train CNC machines operators, provide them with information about maintenance, additional devices and cutting technology.

Service on the phone

We provide telephone assistance in troubleshooting the machine (simple repairs). Daily from 6 – 20 hours also at weekends.

(+420) **603 287 860** at 6–20 hours

(+420) **569 400 411** at 6–14.³⁰ hours

Assembly

Modern technology, high quality materials and careful assembly guarantee high accuracy and long life of Vanad CNC cutting machines. Part of the machine assembly is the training machine operators for thermal cutting technology and CAD/CAM software for creation of cutting plans.

CAD/CAM software

Quality CNC cutting machine can't stand without quality and efficient data preparation, including easy data transfer into machine. Vanad Machines use different software products – WRYKRY, SAPS, LANTEK, MTC NESTING.



Supplies

We are an authorized partner of thermal cutting major suppliers – **Hypertherm, Kjellberg, Formica, SPI Laser, IPG, Messer, GCE, B&R Automation, Kemper, Tigemma** and **Van-ter**.. Our machines can be supplied as part of complete cutting workplace – CNC cutting machine, plasma or laser source, torches, suction material table, compressor, filter device and more.

Consumables

For plasma sources: we deliver consumables for plasma sources **Kjellberg, Hypertherm** and **Formica** – torch type OTC, MAXIMIZER.

For oxy-fuel torches: we deliver consumables for machine oxy-fuel torches **Messer, GCE** and **Harris** for acetylene, propane, natural gas and mixed flammable gases MAPP, APACHI, ETHYLEN

Delivery time

If the parts are available in stock, your order will be processed immediately. Otherwise will be sent to you as soon as possible.



We deliver original consumables for plasma and laser sources and oxy-fuel torches.



Complementary technologies

CNC Centring unit

The pneumatic centring unit is located on a support with an independent driving. Drilling operations can be used as a complement to cutting or as an independent technology. Material thickness is restricted by lifting, method of cooling, type of material, etc.

- AFD215 pneumatic drive/feed
- Motor power 0.22 kW (0.30 hp)
- Dynamic thrust 400 N (90 lbf)
- Rotational speed 650–18 700 rpm
- Working stroke 90 mm (3.43 in)

Three torch cutting head

Rigid construction of support with three torches is additional equipment which is used for cutting material, with manually settings of cutting angles and mechanical setting of working high.

Automatic three torch cutting head

Automatic rotary three torch plasma head is intended for making cutouts as for example welding elements. Cutouts are bevelled – diagonal cut of desired proportion. Bevels made using three torch cutting head are used as weld surface.

3D automatic plasma head

Nearly half of the world production of cutouts is bevelled, especially for welding purpose. Through use of robotic libraries and transformation allows 3D automatic plasma head fully automatic angle settings, kerf corrections, recalculations of plasma arc and height control, thereby significantly expands use and increases performance of cutting machines. Head design utilizes for rotational axis 2 cycloid gearboxes which excel in high precision, rigidity, carrying capacity and compact size. The accuracy and the required dynamics of head movements is ensured by using top quality components.



Milling cutter

Milling cutter are used as a supplement of cutting or as main application on machine intended for specific production task. Based on many years of experience we design table construction and needed characteristics for milling cutters.

Marking unit

The Pneumatic unit with carbide tang movement provides compressed air. Marking depth depends on the hardness of the labelled material. The unit can be used with machines **BLUESTER**, **PROXIMA**, **SUPREMA** or **KOMPAKT** for marking metallic materials such as e. g. steel or aluminium. Marking is used in all industrial fields (logo, date, time, serial number, tags, and simple graphics).

Advantages: permanent marking, high speed, low cost, difficult counterfeiting, long term and machine readable markings.

Marking depth is adjusted by air pressure (reducing valve) and by the distance of the material. The entire device can be slide in travel path of the baseplate and adjust perpendicularity using set screws.

Technical parameters:

- Compressed air 2–8 bar, operating temperature 1–40 °C
- Stroke of the pneumatic cylinder is 200 mm
- Weight 24 kg

Additional services

- Operators training CNC cutting machine.
- CAD/CAM software training for cutting plans preparation.
- Individually resolved payment terms – instalment payment or leasing or as agreed.
- Individually agreed guarantee period.
- Professional service (warranty, after warranty or express service, preventive controls, machine modernization, plasma sources repairs, consulting and training, service on phone).



Dealers training of Vanad cutting machines in Centre of thermal cutting in Golčův Jenkov.





Visit the largest permanent Thermal cutting centre in the Czech Republic

All those interested are cordially invited to visit the largest permanent centre of thermal cutting in development department of Vanad 2000 a.s.

In the **Thermal cutting centre**, you can see technological possibilities of CNC cutting machines. Currently are installed 8 permanent CNC machines in the Centre, representing three methods of thermal cutting – Oxy-fuel, plasma and fiber laser for standard sheet format.

The purpose of the centre is to help all to choose the best CNC machines, equipment and technology. We will help you to solve your current problems of practice, whether you cut with oxy-fuel, plasma or laser. We will train your staff to operate our CNC cutting machines and data preparation programs.

Vanad 2000 a.s.

Riegrova 824

Golčův Jeníkov 582 82

Czech Republic

E-mail: vanad@vanad.com

Phone: (+420) 569 400 411

Fax: (+420) 569 400 444

www.vanad.com



Consumables Dpt.:

Phone: (+420) 569 400 411

Mobil: (+420) 736 755 438

E-mail: Tesinova@vanad.com

Sales Dpt.:

Phone: (+420) 569 400 442

Phone: (+420) 569 400 440

Service & Assembly Dpt.:

Phone: (+420) 569 400 434

Mobil: (+420) 603 287 860

E-mail: Michal@vanad.com