

Vanad
CNC Thermal Cutting Machines

STADLERS CORP FZC

Over 20 years of the Machines Research & Development



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.

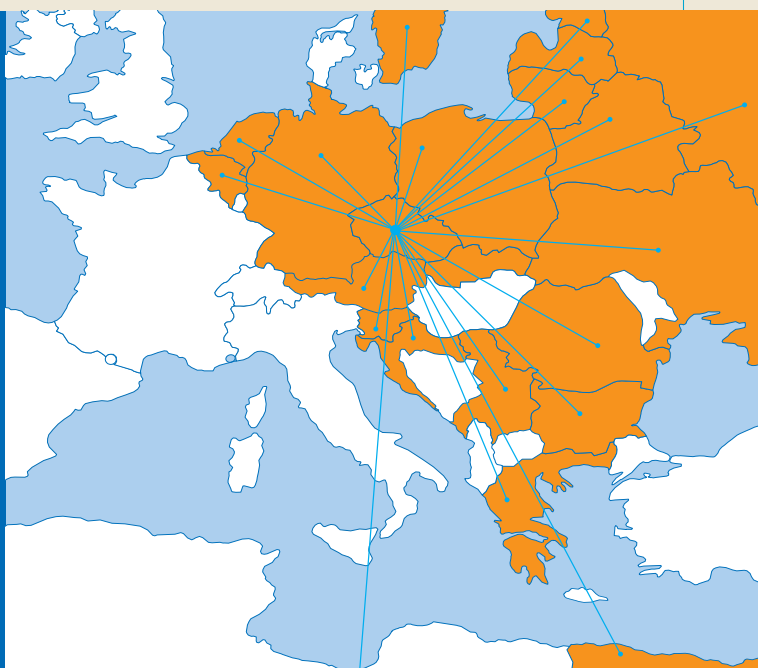
Our goal is to bring the maximum value to the end user. Thanks to permanent research and development supported by comprehensive know-how and experience of our employees, we continuously introduce new and innovative solutions for the cutting workplaces. The flexibility and variability enables us to adapt 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 guarantee and post-guarantee servicing.

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

- 2015** New technology **RotCut-Suprema**, **RotCut-Kompakt Laser** and **RotCut-Miron Laser**
- 2014** New machine **Vanad KOMPAKT Light**, **Vanad MIRON Laser** and **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



Our Sales Network:

- Europe
- Egypt
- South Africa
- GCC



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 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 cutting heads 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 registered office of the company was built in 2007 in the former textile company Technolen and offered extensive space for further development and unique Showroom, where you can see CNC cutting machines Vanad and cutting demonstrations.



Vanad BLUESTER

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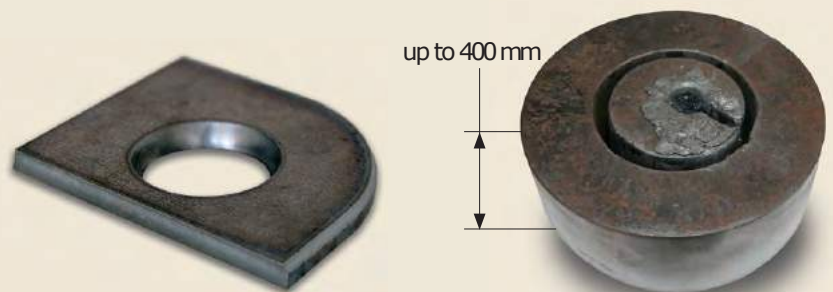
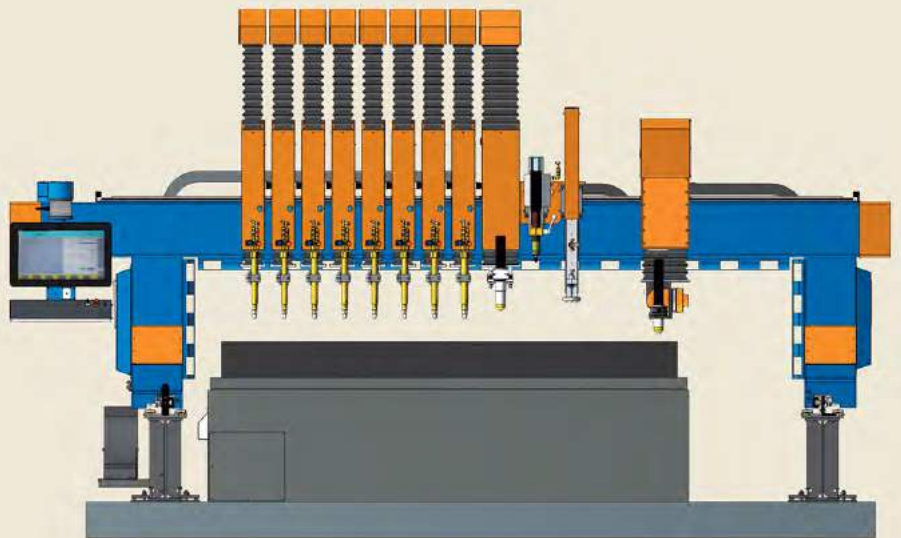
- > OXY-FUEL / PLASMA
- > HIGHEST PERFORMANCE
- > 3D PLASMA HEAD
- > HIGHEST QUALITY



Advantages

- Double-sided longitudinal travel path
- High lifting capacity - option for use up to 10 units
- 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

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.



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

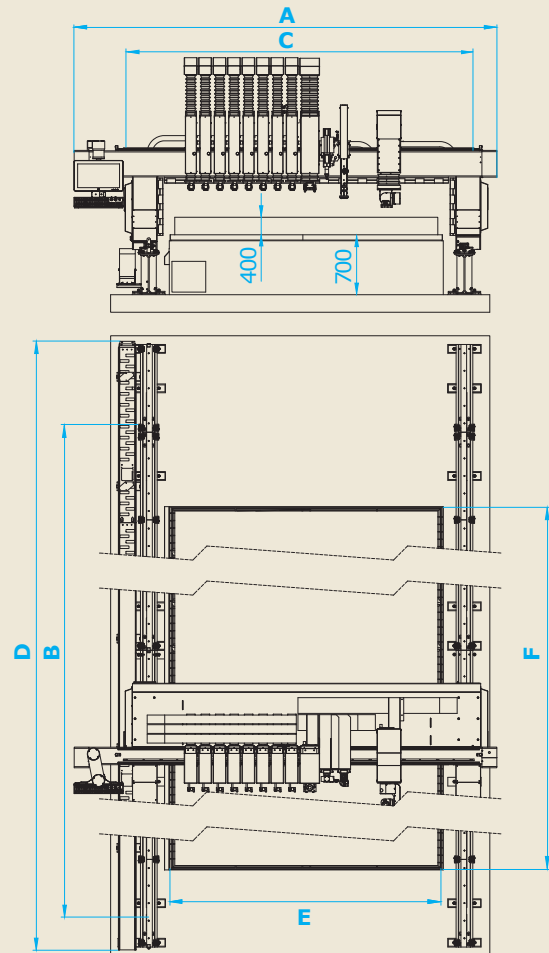
CNC centring unit can be used as a complement to cutting and effectively enhance their productivity or as an independent technology. It can also mark the places for next processing.

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

- 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 – 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 units		1× primary, 1× secondary (plasma), 8× secondary (oxy-fuel), 2× additional device, 2× 3D, 1× three torch head rotating, 2× three torch head manual						



3D automatic plasma head extends possibilities and intended use of CNC machine BLUESTER.



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

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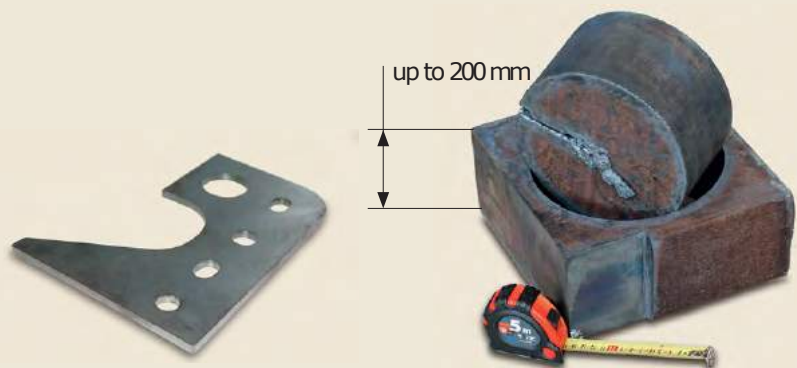
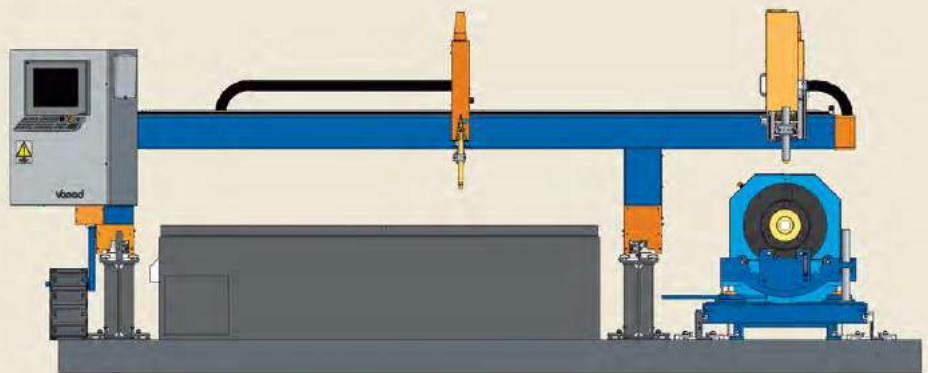
- > OXY-FUEL / PLASMA
- > HIGH PERFORMANCE
- > HIGH ACCURACY
- > ACCESSORIES
- > COMBINABLE WITH ROTCUT



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 units

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.



Complete cutting workplace PROXIMA realized in 2014. CNC machine is equipped with plasma source Kjellberg HiFocus 360i and oxy-fuel technology, filter equipment Tigemma and compressor Orlik.

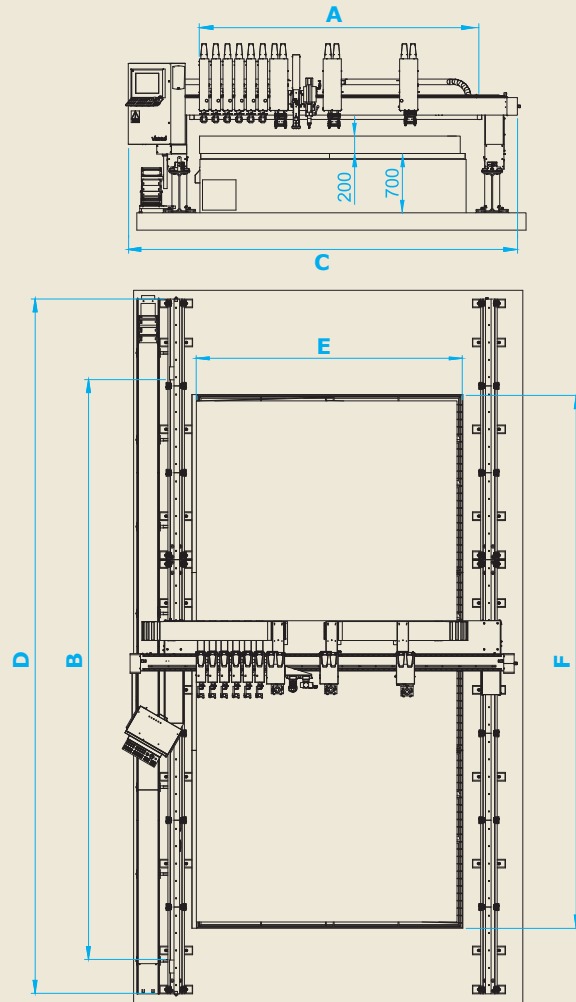
High-performance double portal cutting workplace PROXIMA realized in 2013 with the plasma source Kjellberg HiFocus 440i and oxy-fuel technology.

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 units		1x primary, 1x secondary (plasma), 6x secondary (oxy-fuel), 2x additional device, 1x three torch head rotating, 2x three torch head manual						



Automatic three torch cutting head is an optional device used for direct material cutting. Bevels made using three torch heads are often used as the weld surface.

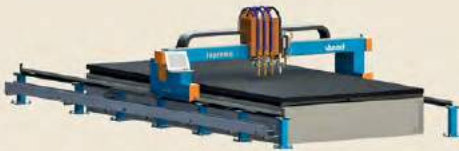
CNC thermal cutting machine PROXIMA can be fitted with up to 8 units – for example 6 oxy-fuel and 2 plasma for processing large metal sheets.



Vanad SUPREMA

STADLERS CORP. FZC

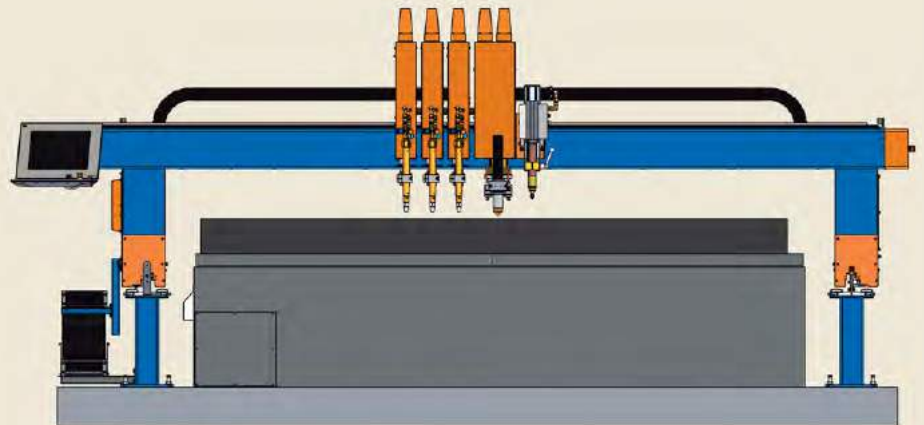
- > OXY-FUEL / PLASMA
- > GOOD VALUE
- > HIGHLY EFFICIENT
- > ACCURATE



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

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.



Cutting workplace SUPREMA realized in 2014. CNC cutting machine is equipped with plasma source Hypertherm Powermax 125 and oxy-fuel technology. This SUPREMA machine is also equipped with marking unit with following advantages: permanent marking, high speed, low cost, long term and machine readable marking.

Vanad SUPREMA

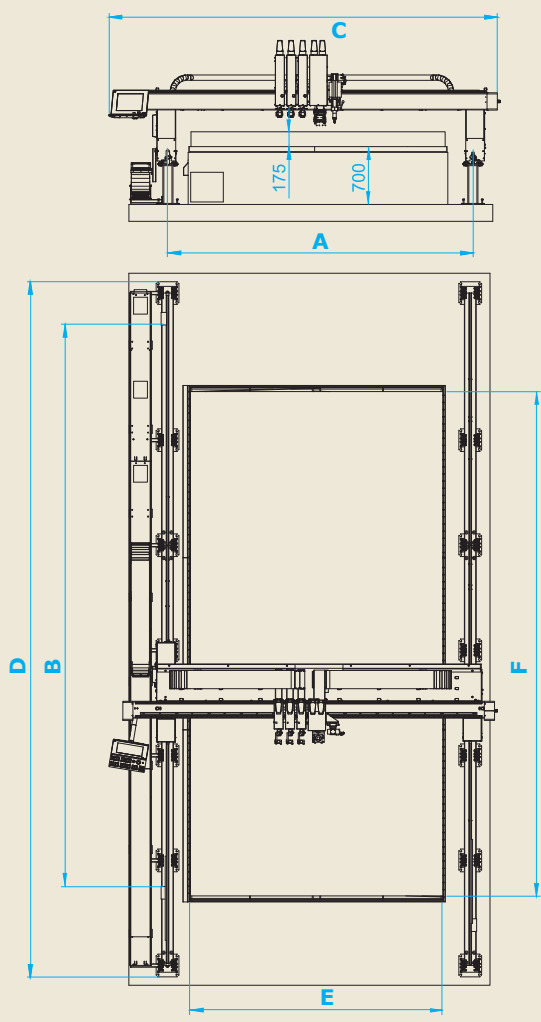


Standard equipment

- 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 pointer 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 units		1x primary, 3x secondary (oxy-fuel), 1x additional device			



On the picture you can see the position and detail of RotCUT equipment for SUPREMA machine.

Touch panel with technological keyboard fulf Is criteria water and dust protection IP 65.



Vanad ARENA

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



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

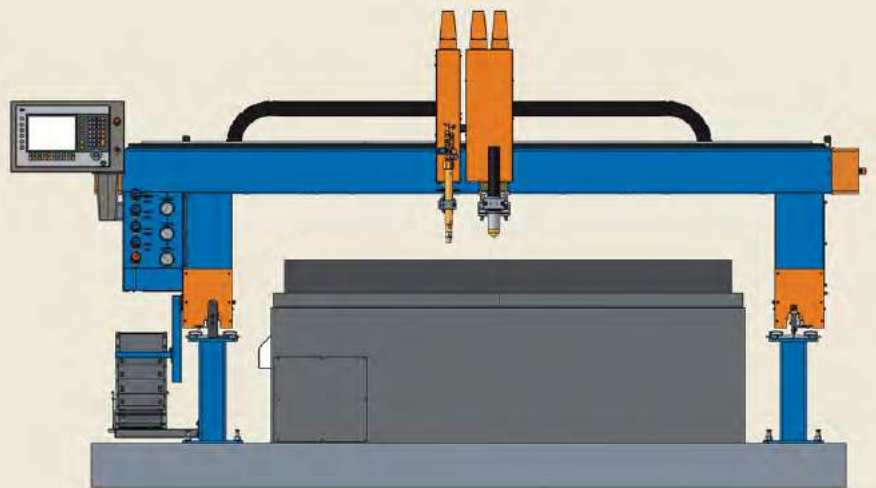
Thickness of cut material 150 mm

LAN, USB connector for easy data transfer

Elimination of any unproductive time during operation

High-performance, stable, user-friendly CNC system

CNC 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.



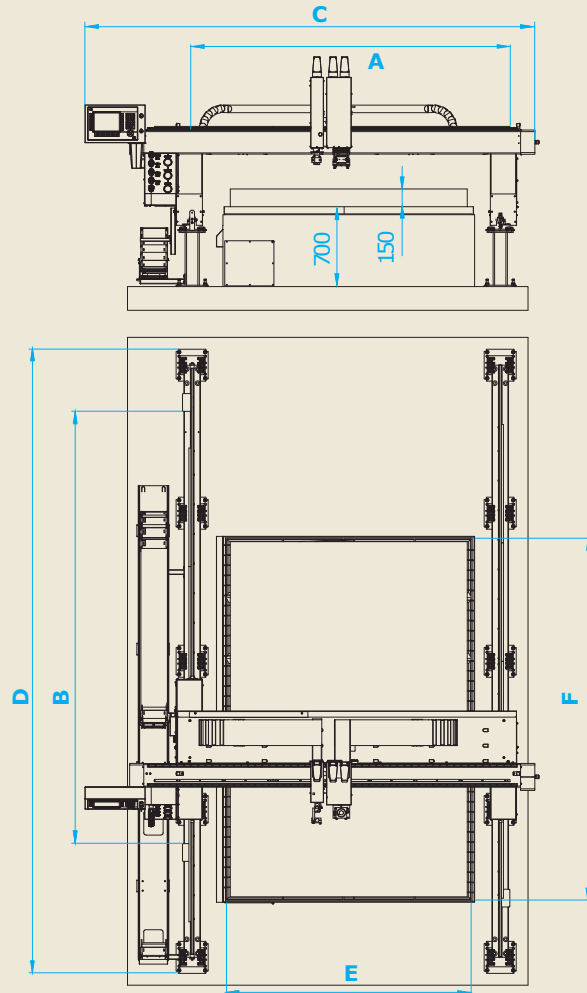
CNC cutting machine ARENA with new touch panel and oxy-fuel torch. Oxy-fuel torch is equipped with IHT height control systems with capacitive sensor.

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 pointer 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 units			1x primary, 1x secondary (oxy-fuel)	



Mobile touch panel is variant solution for machine control.

Complete cutting workplace ARENA implemented in 2014. CNC machine of size 2 x 4 meters is equipped with plasma and oxyfuel technology for cutting up to 150 mm, with IHT capacity height control and centring unit.



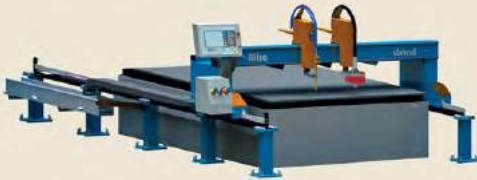
Vanad MIRA

> OXY-FUEL / PLASMA

> SIMPLE

> USER-FRIENDLY

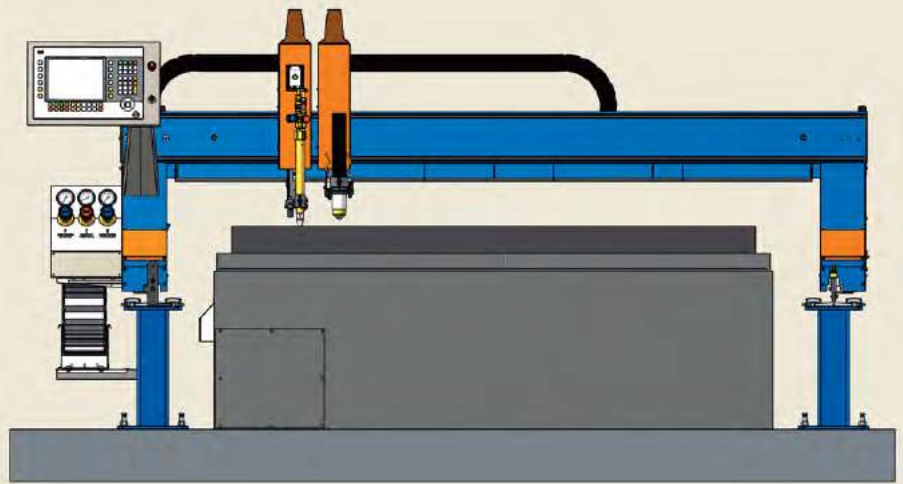
> EFFICIENT



Advantages

- Double-sided longitudinal travel path
- 10,4" touch panel with technological keyboard for easy control
- Motors with High 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 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.



CNC cutting machine MIRA is equipped with oxy-fuel technology, laser pointer and electric ignition of the flame. You can see machine MIRA piercing the 100 mm structural steel by one of our customers, that is maximum thickness for this machine.

CNC cutting machine MIRA is also installed in our showroom, where you can see and try it during your visit.

Vanad MIRON

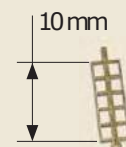
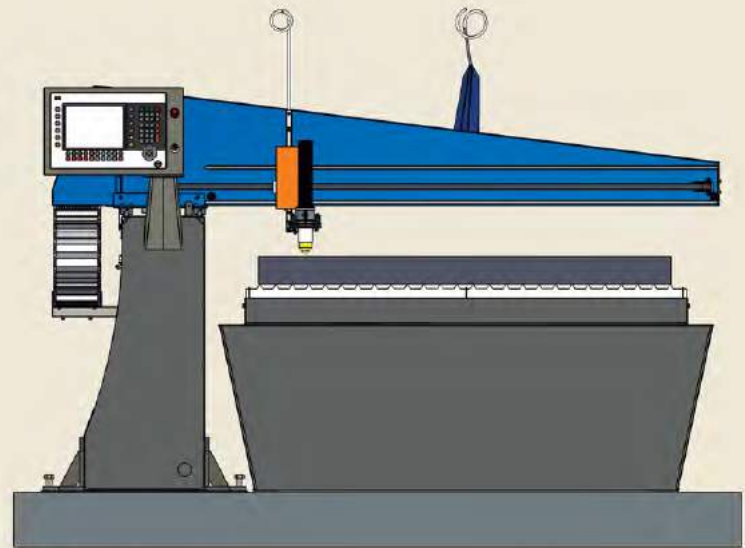
- > OXY-FUEL / PLASMA / LASER
- > ACCESSIBLE
- > SMALL
- > COMBINABLE WITH ROTCUT



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
- 10.4" touch panel with technological keyboard for easy control
- 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

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 proportions it is suitable for processing larger metal sheets or even irregular shapes. This is possible thanks to the open access to the portal. This machine can be armed with all three thermal cutting technologies: 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.



MIRON Laser is an efficient CNC cutting machine equipped with fiber laser, which successfully cut metallic and non-metallic materials eg. mica plates, sheets of HSS, klingerit, mirelon, polyethylene foam, cardboard, cardboard boxes, corrugated cardboard, cork, plate, brass, bronze, copper.

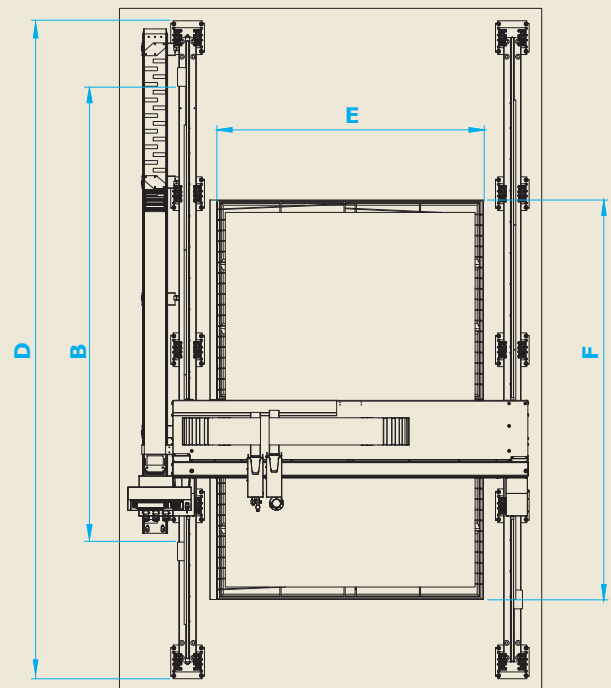
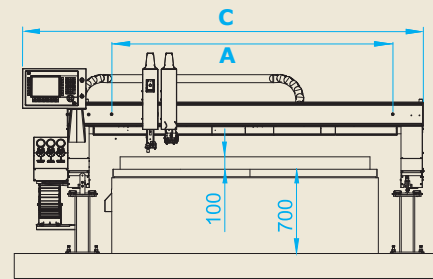
The laser cutting allows cutting with air, which not only greatly reduces the cost of cutting, but also provides additional benefits in cutting aluminum, stainless steel and structural steel.

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 pointer 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 units		plasma + oxy-fuel OR oxy-fuel + oxy-fuel	



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

Detail of cutting head with oxy-fuel torch, which is equipped with IHT height control capacitive system.

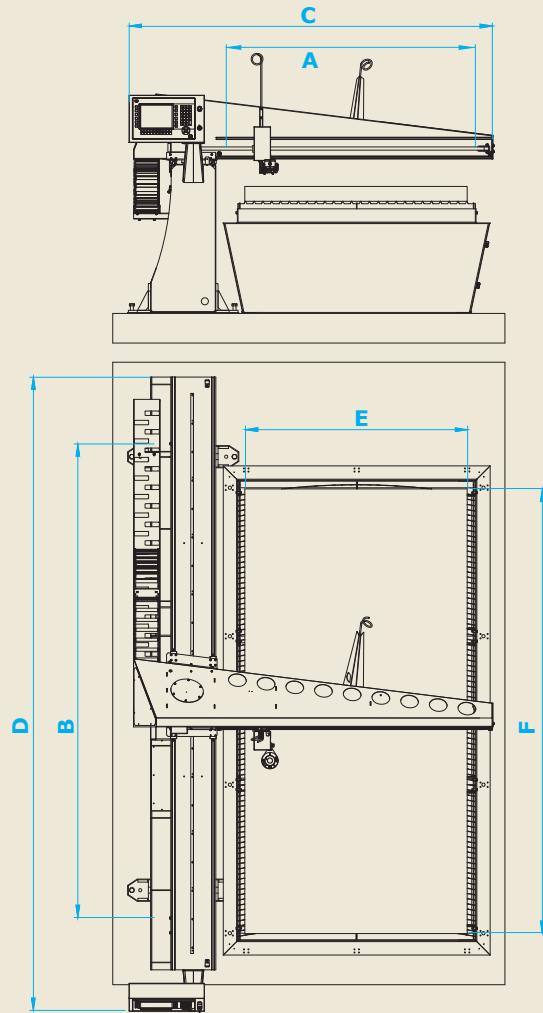


Standard equipment

- Control system B&R
- 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 pointer 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]	1100	1600
Working length of the machine	B [mm]		2000, 3000
Total width of the machine	C [mm]	1920	2420
Total length of the machine	D [mm]		3000, 4000
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		1x technology	



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, for compressed air supply including it's treatment for cutting, filter equipment for the exhaustion of fumes originated during the thermal cutting of materials.



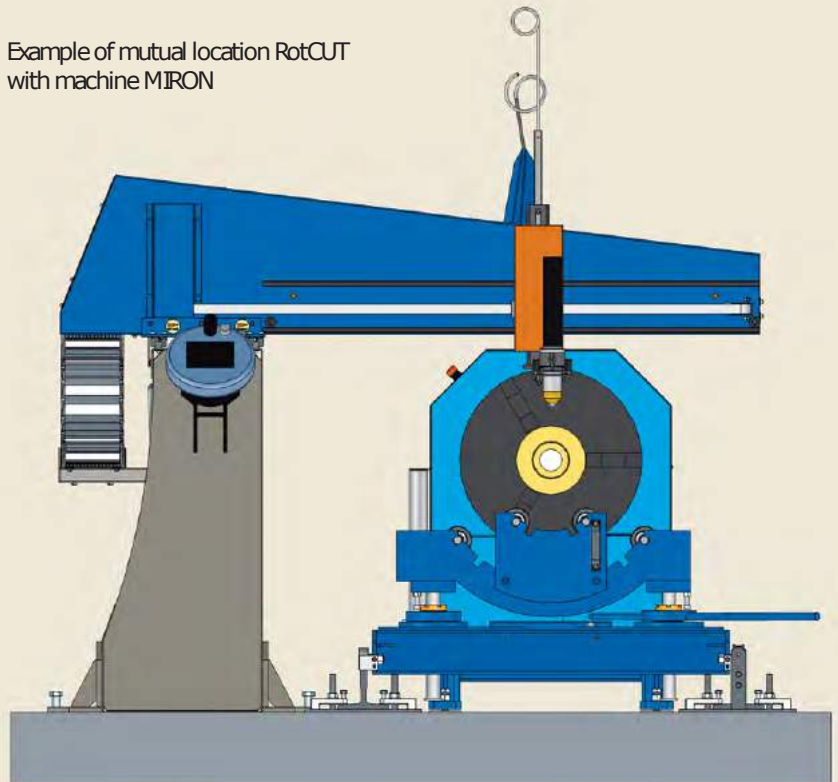
Vanad RotCUT

- > OXY-FUEL / PLASMA / LASER
- > TUBES & PROFILES
- > CUSTOMIZED SOLUTIONS
- > 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 construction 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.

Example of mutual location RotCUT with machine MIRON



Advantages

- Approved construction 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



RotCUT for pipes and profiles cutting can be used also in combination with other machines, such as machines PROXIMA, SUPREMA, MIRON, MIRON Laser and KOMPAKT Laser.

We produce two types of RotCUT for PROXIMA with servo motors:

- RotCUT Mini – with maximal tube diameter 314 mm
- RotCUT – with tube diameter range 60–1000 mm.

Combination options RotCUT

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

RotCUT + Vanad MIRON

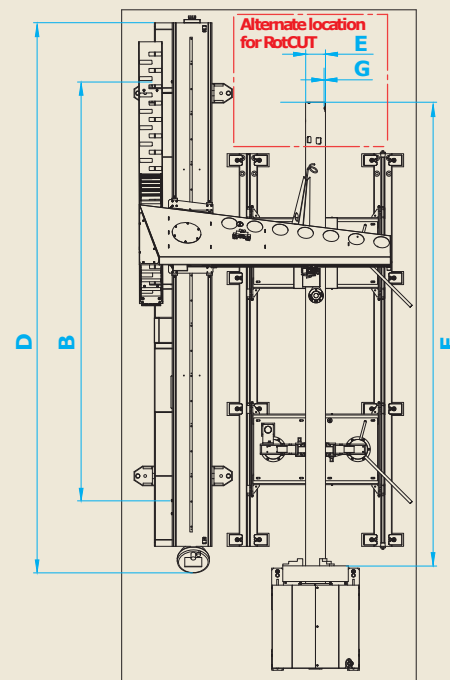
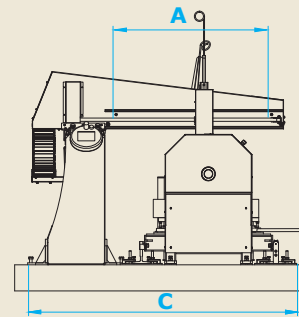
RotCUT + Vanad PROXIMA

RotCUT + Vanad KOMPAKT Laser

RotCUT + Vanad SUPREMA



Example of mutual location RotCUT with machine MIRON



		MIRON + RotCUT	PROXIMA + RotCUT	KOMPAKT Laser + RotCUT	SUPREMA + RotCUT Mini
Tube diameter	E [mm]	60 – 600	60 – 1000	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			

We prepared special solution to satisfy needs of our customer producing tubes – MIRON Laser machine with laser source SPI 500 W and RotCUT Mini equipment, filter equipment Kemper and compressor Orlik.



> **OXY-FUEL / PLASMA**

> **COMPACT**

> **QUICK**

> **EASY INSTALLATION**

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

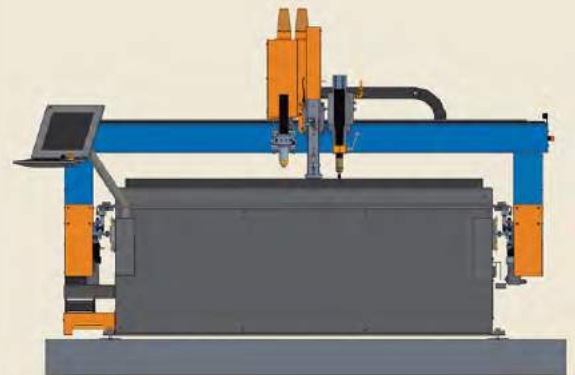
High-performance, stable, user-friendly CNC system

Elimination of any unproductive time during the operation

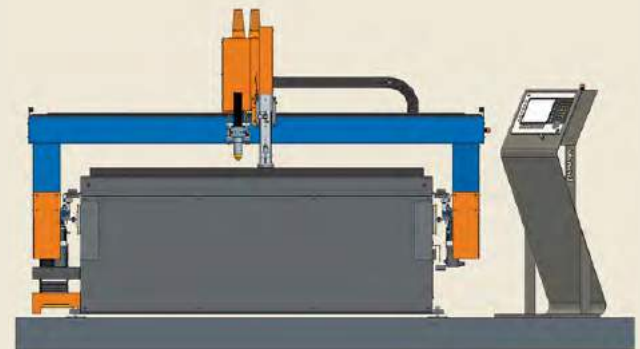
CNC thermal cutting machine Vanad **KOMPAKT** and **KOMPAKT Light** are bringing a great compact solution, assembled with a material table, with the advance of an easy installation and handling. The construction allows us really easily process regular sizes of metal sheets and fully satisfy the criteria 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.**



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.

This machine is equipped with plasma technology and marking unit. Vanad **KOMPAKT** can have up to 2 additional devices.

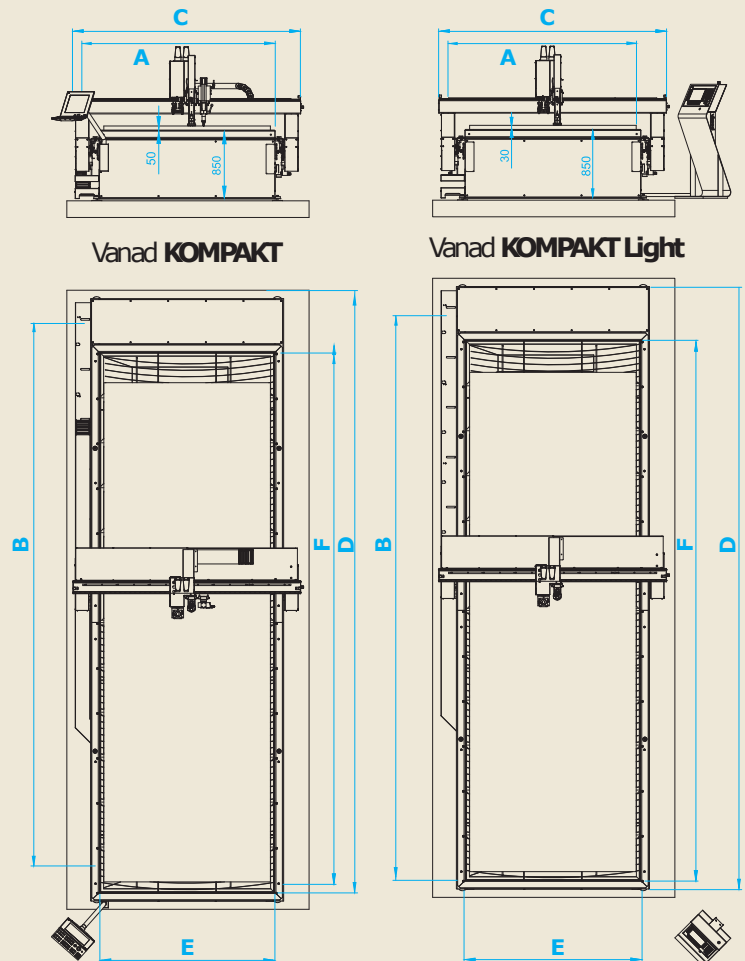


Standard equipment

- 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				
		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× primary + 2× additional device						1× primary + 1× additional device				

Vanad KOMPACT Light represents sophisticated solution, which is designed for use of medium performance plasma sources. It's also possible to equip this machine with other optional devices.

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



Vanad KOMPAKT LASER



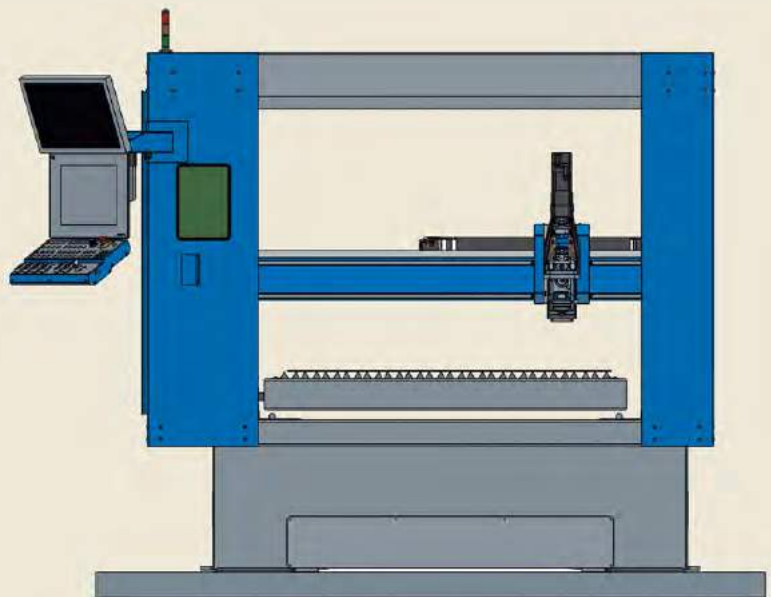
- > LASER
- > FASTEST
- > ACCURATE
- > ENERGY EFFICIENT



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
- 15"(21") Positionable touch panel with technological keyboard
- Laser marking
- 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

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.



The design of the machine table allows to solve variably 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.

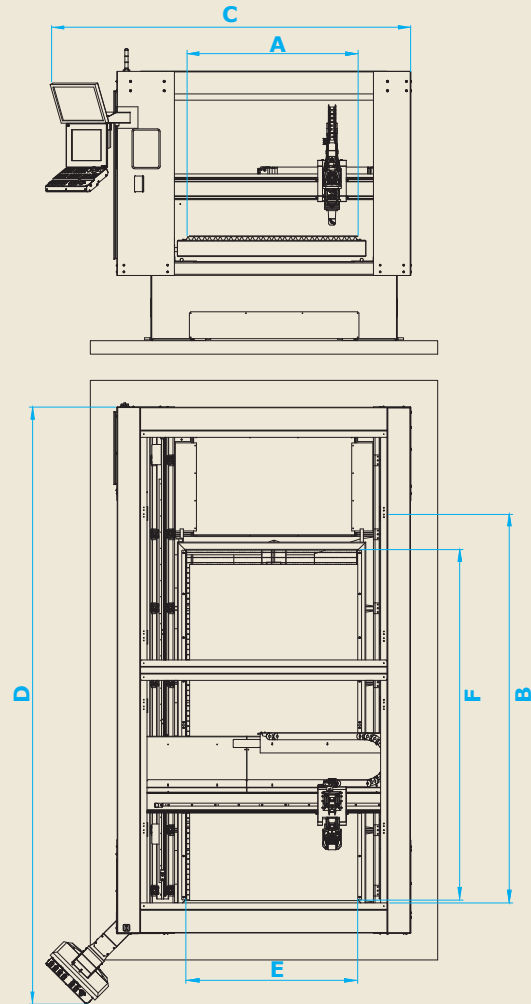


Standard equipment

- 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
- 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
- Laser pointer

Optional equipment

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



Vanad KOMPACT LASER			12,5x25	15x30	20x40
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 units				1x laser	



Pull-out box for cutouts

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, for compressed air supply including it's treatment for laser cutting, filter equipment for the exhaustion of fumes originated during the thermal cutting of materials.

Manually movable grid



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

We can provide service & assistance with our in-house trained engineers. Call us at +971 4 2382844 or email at sales@stadlerscorp.com

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 – WRYKRYIS, SAPS, LANTEK, MTC NESTING.



Supplies

We are an authorized partner of thermal cutting major suppliers – **Hypertherm**, **Kjellberg**, **Formica**, **SPILaser**, **IPG**, **Messer**, **GCE**, **B&RAutomation**, **Kemper**, **Tigemma** and **Vanterm**. 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.

Consumable parts

Original consumable parts are the only way to ensure long-term high performance and accuracy of your cutting system. It also increases the productivity through higher cutting speeds and significantly longer service life while maintaining high reliability.

The plasma sources: consumable supply of plasma sources Kjellberg, Hypertherm and Formica – type of burner OTC and MAXIMIZER.

Oxyacetylene torches to: deliver consumer DIY machine torch for oxygen cutting Messer, GCE and Harris acetylene, propane, natural gas, and mixed flammable gases MAPP, Apache, ethylene.

Complementary technologies

Drilling unit

The pneumatic drilling unit is placed on a carriage with a separate drive. Drilling can be used as a supplement or as a separate firing technology. The thickness of the drilled material depends on the limited stroke, cooling method, type of material and the like.



We deliver original consumables for laser, plasma and oxy-fuel cutting. We can help you optimize the cutting quality and costs, contact us at vanad@vanad.com, with specific data about your cutting demands.



Three torch cutting head

Solid construction with three burners is an optional device that is used for direct material cutting with manual adjustment of the cutting angle and distance mechanically adjustable working height.

Automatic three torch cutting head

Automatic rotating head three torch is intended to make cutouts as weld elements. Shapes are fitted sideways – diagonal cut desired size. Bewels made using three torch heads are in this case used as the weld surface.

3D automatic plasma head

Nearly half of the worlds production of cut-outs is bevelled, especially for welding purpose. Through use of robotic libraries and transformation it allows 3D automatic plasma head completely 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 is 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.

Micro-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 of the cutting machines VANAD with control system B&R over other systems:

- Increased productivity
- Reduced start-up burner on nearby holes
- Reducing speed on the circles and curves
- Reducing the cutting current at the corners and curves
- Elaborate on and of the plasma arc
- Increase the lifetime of plasma consumables
- Movable higher speed
- Communication with the environment (USB, Ethernet TCP/IP, VNC, FTP, even a remote connection over the Internet)
- User-friendly and intuitive machine control via touch screen and membrane keypad
- More kerf correction values (for circuit holes and different diameters – better cutouts)
- Resistance to electromagnetic interference (communication between different segments of the system, a fieldbus Ethernet Powerlink 100Mb/s)
- Sophisticated system diagnostics and display error messages and thereby quickly and easily removed any errors
- High system reliability and fault tolerance (both hardware components and software solutions)
- Large space for user data (cutting programs)
- Low power consumption of electronic components and therefore high heat resistance (components work in ambient temperature of +55 °C)
- Modularity design machinery, equipment only necessary components with the possibility of later expansion (lower price)
- Panel and keypad cover IP65.

Additional services

Training of CNC cutting machines operators

Training CAD / CAM software for preparing of cutting plans

Individually resolved payment terms (by instalments or lease, or by appointment)

Individually agreed guarantee

Professional services (guarantee, post-guarantee, express, preventive inspections, equipment modernization and repair of plasma sources, consultancy and training activities, service over the telephone).





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.

STADLERS CORP FZC

P.O. Box: 231229

Dubai, U.A.E.

Tel: +971 4 2382844

Fax: +971 4 2382855

Email: info@stadlercorp.com

Website: www.stadlerscorp.com