MCVIdly

Vertical machining center

Vertical machining centers

Pionowe centers of the ring

Mcv 754/1016 Quick

Mcv 750 / 1000 / 1270 rapid, sprint, speed, performance

Mcv 1000 5aX

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KOVOSVIT MAS
machine your future

Main features of the machine

- Linear and rolling guides of the X, Y, Z axes ensuring long-term high working accuracy
- Direct measuring - fast and accurate positioning
- Use of powerful tools with high pressure central cooling
- Quick change of tools - tool tray with mechanical hand - 24 positions
- Large working range with a minimal installation space of the machine
- Effective chip removal
- Waterproof cabin cover of the work area with left side glass door
- A wide range of special accessories
- Possibility of 4- and 5-axis machining using an additional rotary and folding table
- Power returned up to 45 kW
- Spindle speed 24,000 min^{-1}

Główne cegy maszyna

- Liniowe i toczne prowadnice osi X, Y, Z długotrwale złotyko dokładność wrocząbą
- Bezpośrednie odmierzanie - szybkie i pozycjonowanie
- The use of high-performance tools with a central cooling system
- Szybka wimnia żyęcie - zósobnik zzyęcznyś ręką - 24 pozycje
- Duży zakres pracy przy minimalnej prześci zabudowy maszyna
- True wiórów removal
- Wodoszchzelne kabiny przeszący próczycej z lewymi przeszklonym drzwie
- Szeroki assortiment oposzazenia specjalnego
- The possibility of four-sided and four-sided machining with the use of an additional rotating and rotating table
- Engine power up to 45 kW
- Speed of rotation wrzeciona 24,000 min^{-1}

Industry and applications //
Przemysł i zastowanie

Energetic//Energetic

-water turbine blades, steam turbine blades, stator and rotor wheels, impeller, pumps and compressors
-łopatki turbine parowych and gazowych, pumps and sprezwarki

Forms and tools//Forms and tools

-for wheel die casting, plastic injection, cutting tools
-do ciśnieniowego odlewania kolek, prasowanie wtryskowe twowyz sztucznych

Automotive and transport//Car and transport

-arms, engine parts, gearboxes
-engine elements, blocks, heads, gears

"A sea of possibilities..."

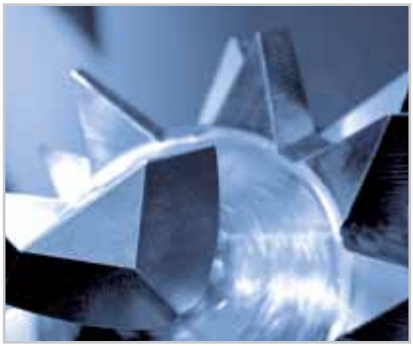
"Many possibilities..."

Aerospace

-turbine wheels, engine parts...
-turbine wheel, engine elements ...

Mining//Wydobywczy

-drill head
-kolczasty element głódzycy wiertniczej



Engineering//Ogólnomaszynowy

-cabinets, storage
-handles, wsporniki, konierze

Hydraulics and fittings//Hydraulics and fittings

-cubes, control and connecting elements, valves and industrial fittings
-zawory i armatury przemyślowe

Medical

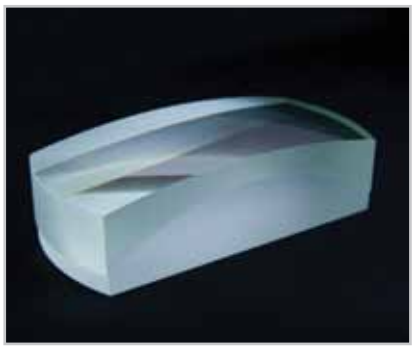
-joint replacements, prosthetics
-artificial joints, prostheses

Prototypes//Prototypes

-aluminium wheels
-aluminum rims

Optics//Optics

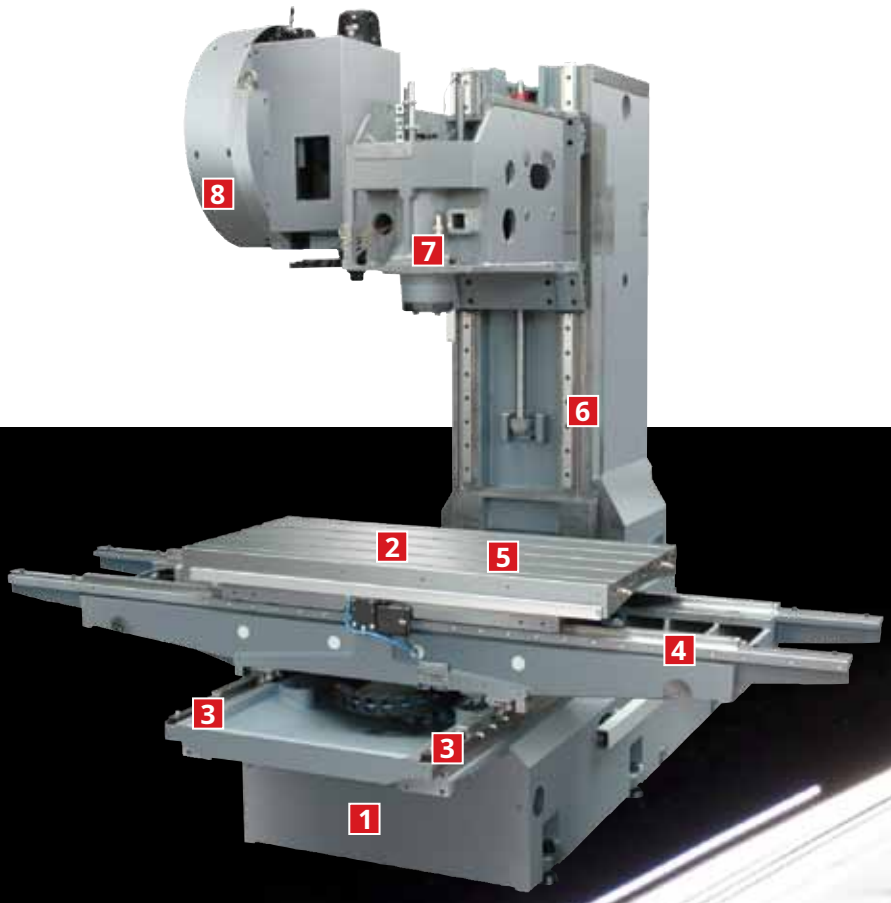
-optical elements
-optics



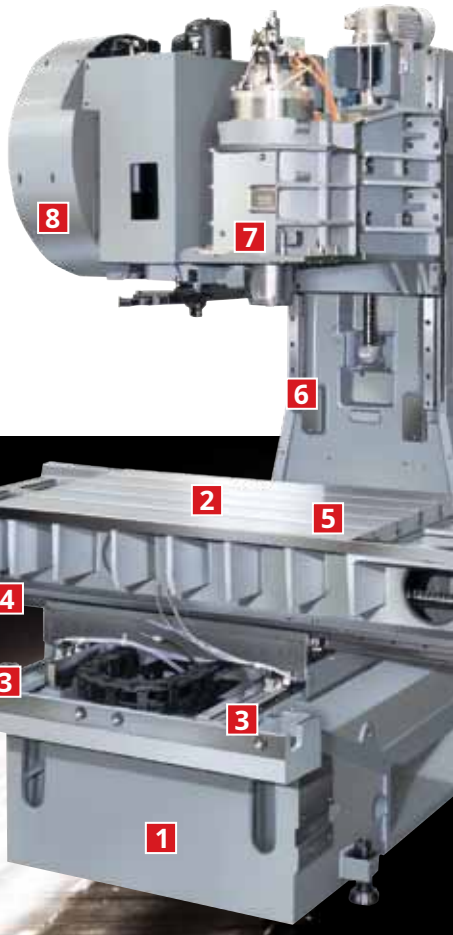
Basic concept of the machine // Podstawowa koncepcja maszyny

- The MCV series of machines is built on a C-shaped support frame. The arrangement and shape of the machine support frame castings is optimized with regard to the requirement for high rigidity and stability. The application of linear guidance in all linear axes guarantees precision and dynamics during machining.

- Machines from the MCV series are designed on a carrier frame in the shape of the letter C. The structure and shape of the frame of the carrier machine are optimized to take into account the wymogu vymogu stywności i stabilności. The use of liniowej prowadnicy we wszystkich osiach liniowych guarantees wymaganą dokładność a dynamikę podczas pochądze.



-MCV 754 QUICK

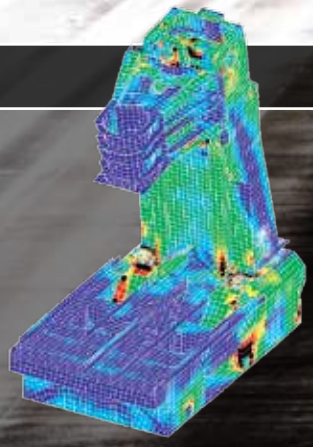


CV 750 SPRINT

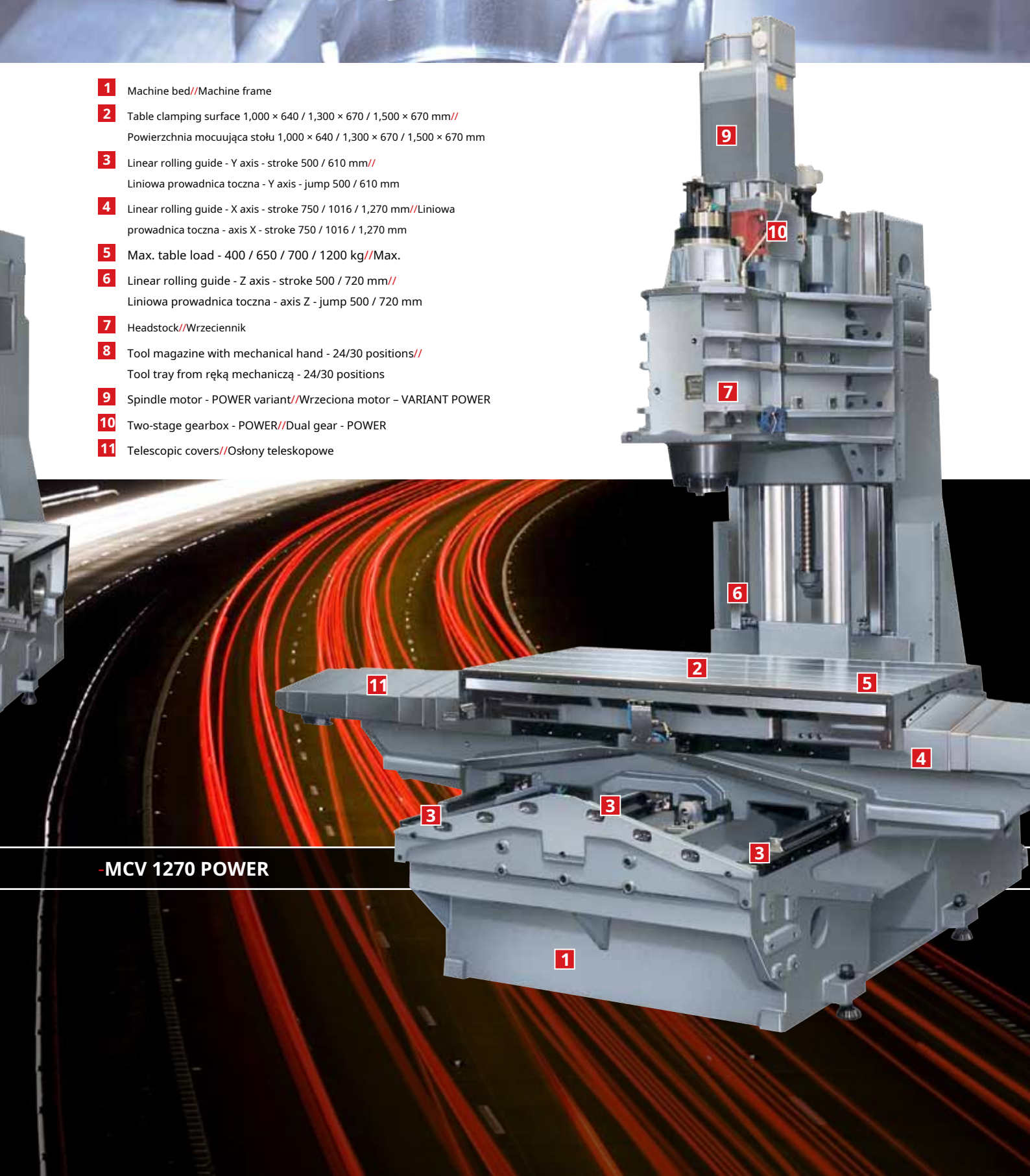
MKP - model

The supporting structure of the machines is optimized in terms of static stiffness and dynamic properties using the finite element method.

The bearing structure of the machine is optimized in terms of static stiffness and dynamic properties by the method of the last elements.



1. Machine bed//Machine frame
2. Table clamping surface 1,000 × 640 / 1,300 × 670 / 1,500 × 670 mm//
   Powierzchnia mocująca stołu 1,000 × 640 / 1,300 × 670 / 1,500 × 670 mm
3. Linear rolling guide - Y axis - stroke 500 / 610 mm//
   Liniowa prowadnica toczna - Y axis - jump 500 / 610 mm
4. Linear rolling guide - X axis - stroke 750 / 1016 / 1,270 mm//Liniowa prowadnica toczna - axis X - stroke 750 / 1016 / 1,270 mm
5. Max. table load - 400 / 650 / 700 / 1200 kg//Max.
6. Linear rolling guide - Z axis - stroke 500 / 720 mm//
   Liniowa prowadnica toczna - axis Z - jump 500 / 720 mm
7. Headstock//Wrzeciennik
8. Tool magazine with mechanical hand - 24/30 positions//
   Tool tray from ręką mechaniczą - 24/30 positions
9. Spindle motor - POWER variant//Wrzeciona motor – VARIANT POWER
10. Two-stage gearbox - POWER//Dual gear - POWER
11. Telescopic covers//Osłony teleskopowe

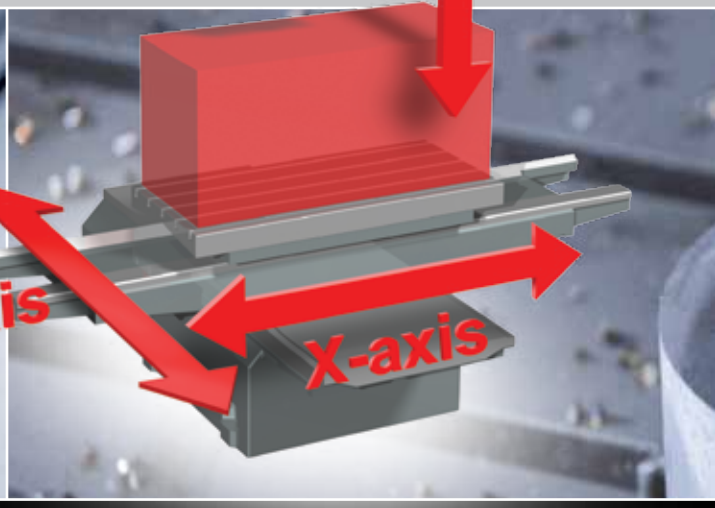


-MCV 1270 POWER

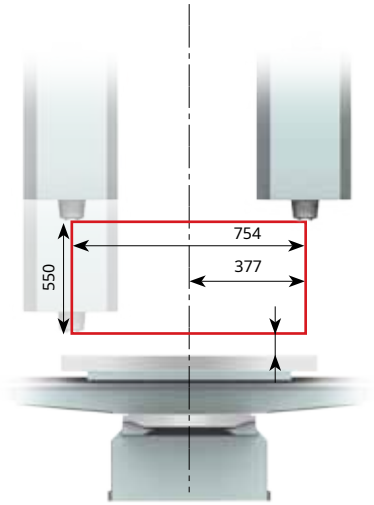
Workspace

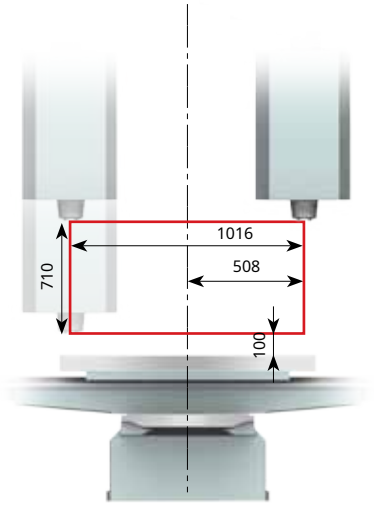
- Waterproof work area cabin
- Work space lighting
- Manual washing of the work area

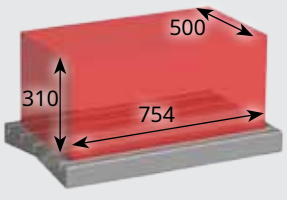
- Wodoszczelna kabina prześci wrzecznej
- Work space lighting
- Ręczne spłukiwanie prześci wrzecznej



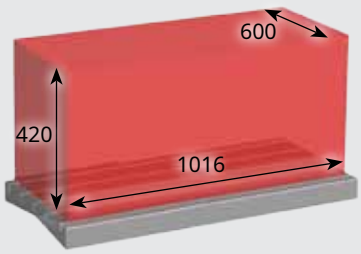
- MCV 754







kg 400

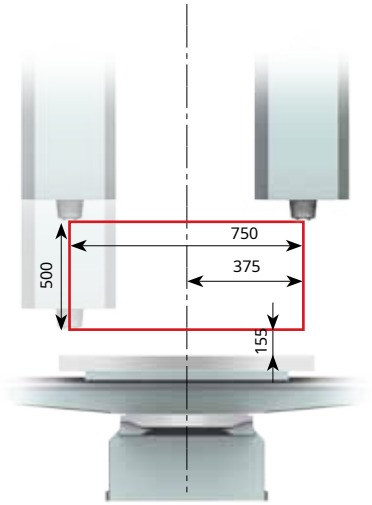


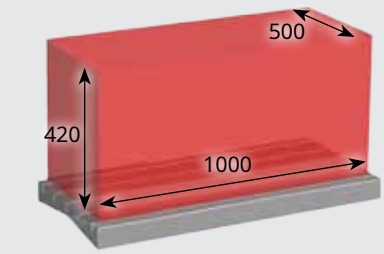
kg 700

up to work
toru is secured by sliding y which
allows to open the corner of the
machine and simply live
dimensional workpiece.
however, the arrangement of the enclosures
it can only be opened and
covered when inserting
parts, which greatly
improves user comfort.

Access to space
work they provide
przesuwane skuny, which
allow you to open the whole
narożną części maszyny iz
łacością zamocować
obrabiany przedmiot o
larger dimensions. Układ szóź
próżytą jedak odze otvorkiej
tylko części oświęcim przy
zamocowywaniu small elements,
what w big
increases the comfort of
operation by the user.

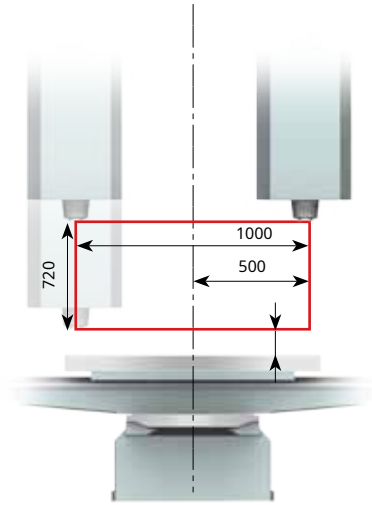
- MCV 750

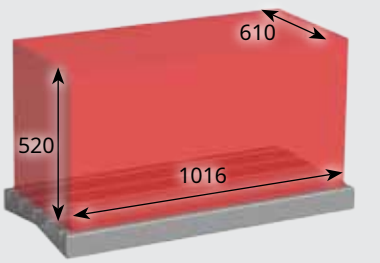




650

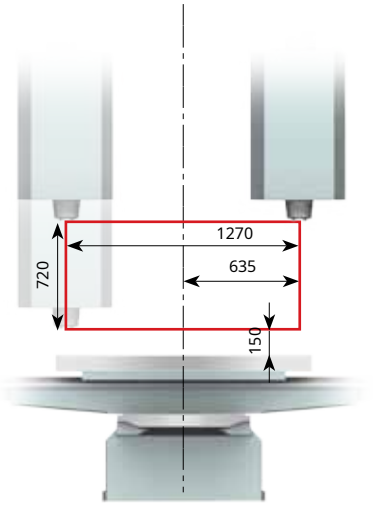
- 1000 MCV

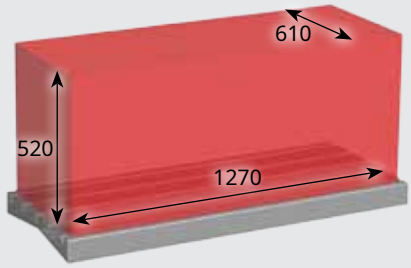




1,200

- MCV 1270





1,200

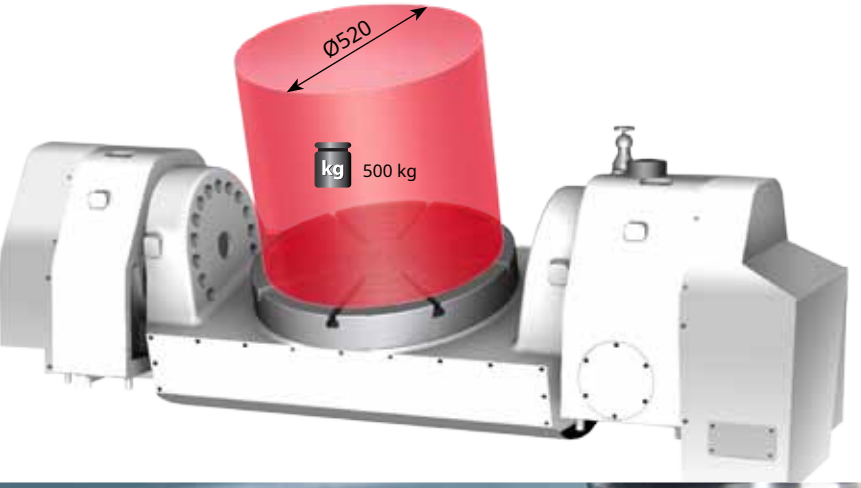
Technological possibilities of MCV machines // Mozligowści technologicne maszyn MCV

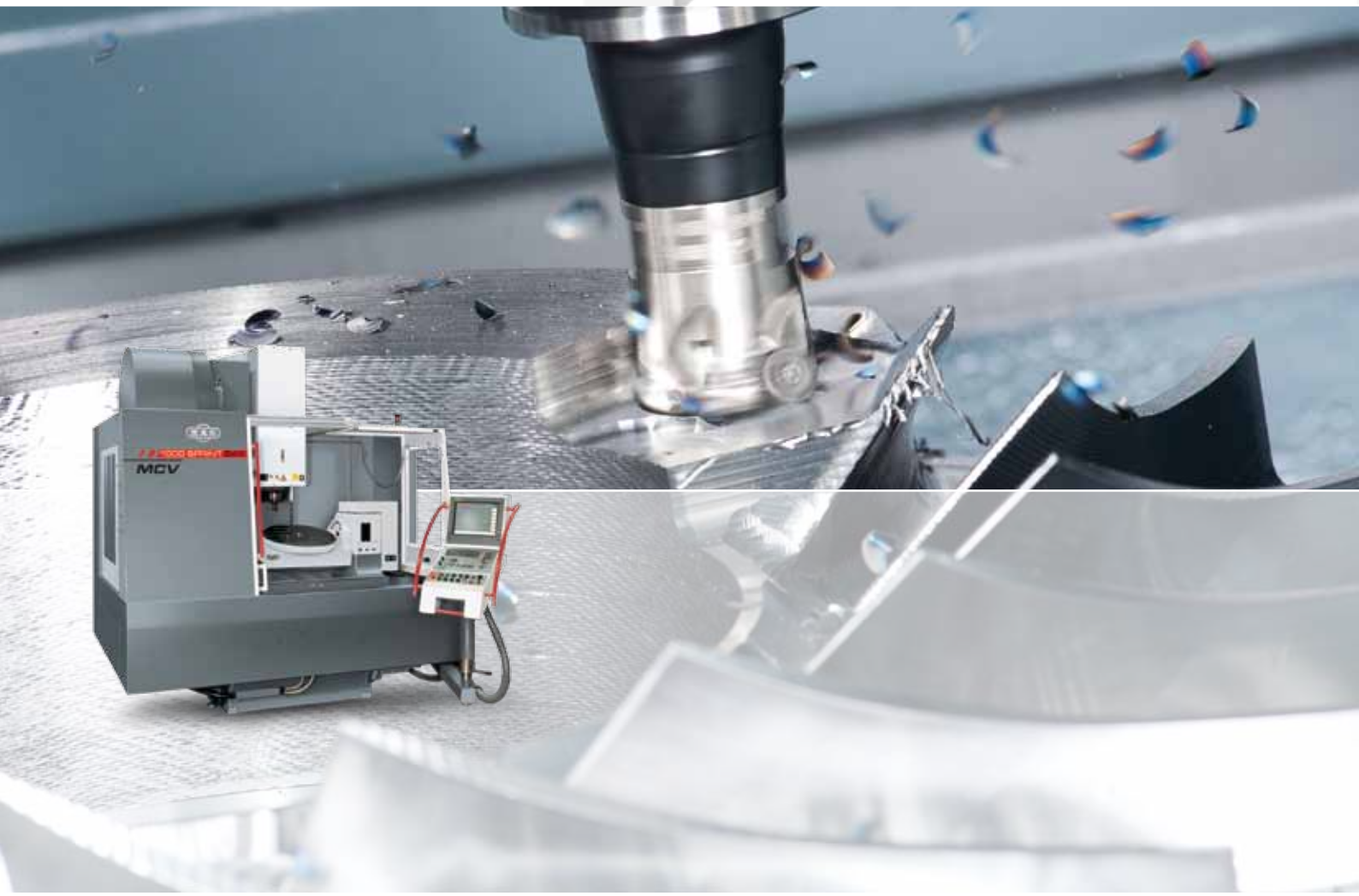
	Material// Material	Material collection// Material collection	Tool// Tools	Spindle speed// Speed of rotation wrzecona	Cutting speed// Cutting speed	Tool shot// Working width tools	Shift// Przesuw
		cm_3/ min	mm	min^{-1}	m/min	(with×h)//(width×length) mm	mm / min
MCV 1000, 1270 SPEED							
milling//milling	carbon steel//stood coal 60 - 70 kg / mm_2	975	end mill Ø 52-6 teeth-45°//to freeze czołowy Ø 52-6 zębów-45°	1,800	293	50×5	3,900
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	160
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990
MCV 1000, 1270 PERFORMANCE							
milling//milling	carbon steel//stood coal 60 - 70 kg/mm_2	1,440	end mill Ø 63-6 teeth-45°//to freeze czołowy Ø 63-6 zębów-45°	900	178	60×20	1,200
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	160
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990
MCV 1000, 1270 SPRINT							
milling//milling	carbon steel//stood coal 60 - 70 kg/mm_2	975	end mill Ø 50-5 teeth-45°//to freeze czołowy Ø 50-5 zębów-45°	1,500	157	48×5	4,063
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	160
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990
MCV 750 SPEED							
milling//milling	carbon steel//stood coal 60 - 70 kg/mm_2	808	end mill Ø 63-6 teeth-45°//to freeze czołowy Ø 63-6 zębów-45°	1,500	297	60x3.5	3,850
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	160
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990
MCV 750 SPRINT							
milling//milling	carbon steel//stood coal 60 - 70 kg/mm_2	745	end mill Ø 50-5 teeth-45°//to freeze czołowy Ø 50-5 zębów-45°	1,800	157	48×4	3,880
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	990
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990
MCV 750 RAPID							
milling//milling	carbon steel//stood coal 60 - 70 kg/mm_2	504	end mill Ø 50-5 teeth-45°//to freeze czołowy Ø 50-5 zębów-45°	1,800	157	48×3	3,500
drilling//wiercenie		-	HM insert drill Ø 45//wiertło HM Plates Ø 45	1,061	150	-	990
thread cutting// gwintowanie		-	taper//gwintownik HM to M 24	330	22	-	990

MCV 1000 SPRINT 5AX

It is designed for accurate and fast machining of complex surfaces and shapes in five axes and enables drilling, reaming, reaming, thread cutting and milling of workpieces from five sides. Automatic magazine tool change enables work in an automatic cycle. With the use of special accessories, the machine enables the deployment of productive tools with a central coolant supply.

The center is designed for accurate and quick machining of complex shapes and sizes in five axes, and enables cutting, cutting, cutting, threading and milling of workpieces. Automatic exchange of tools from the magazine enables working in an automatic cycle. Przy zastosowaniu specjalnego osprzętu the maszyna enables the use of efficient tools with środkwym doprowadzeniem płynu chłodzącego.

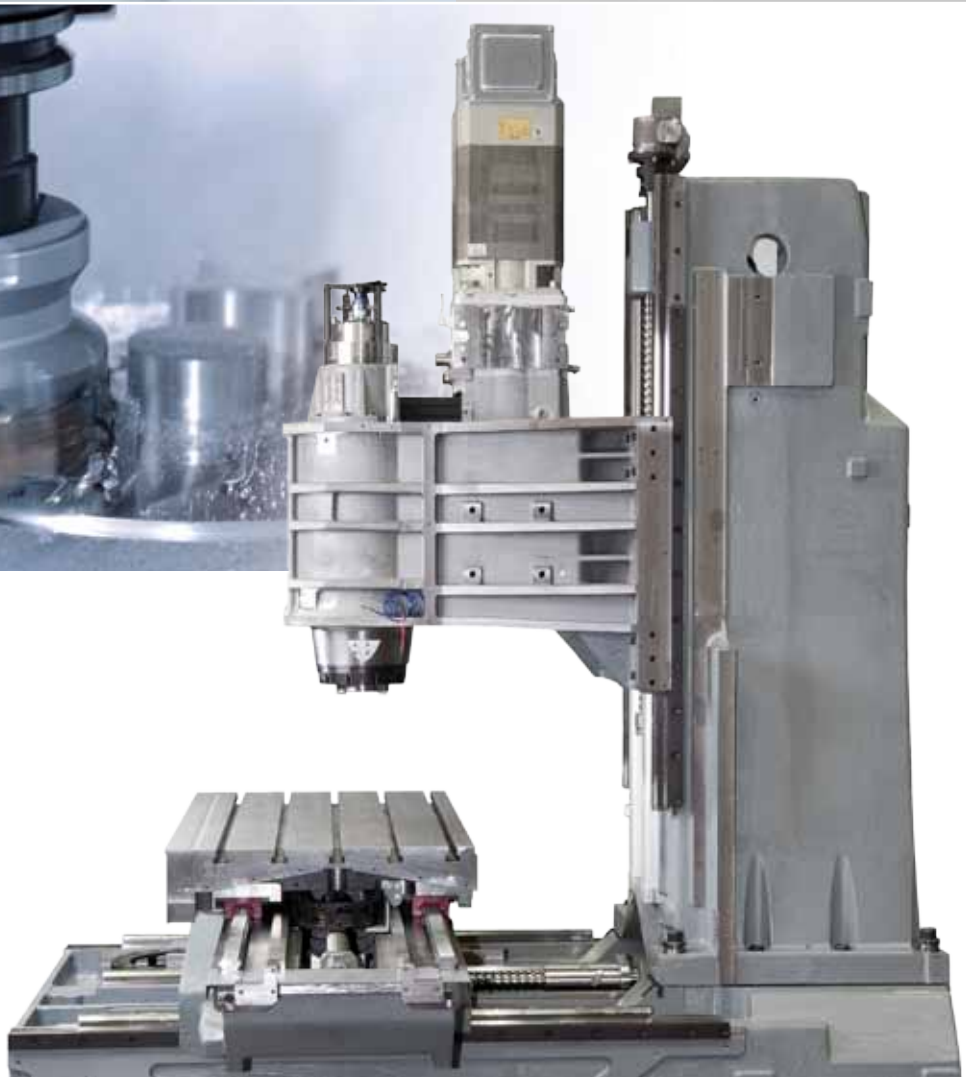




Spindle, the heart of the machine // Wrzeciono, serce maszyny

- A wide range of spindles from power to high-speed
- State-of-the-art spindles with integrated ("built-in") drive
- Flow-through water cooling of the spindles with its own cooling unit with high cooling capacity
- Continuous speed regulation
- Configurable tool magazine, standard from 24 to 64 depending on the spindle taper, more positions on request

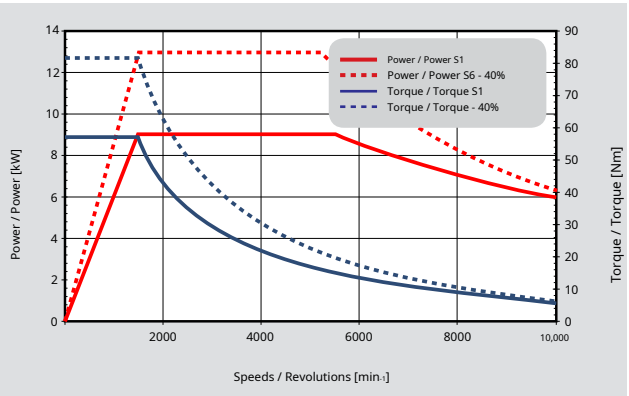
- Szeroka gama wrzecion from siłowych to wysokoobrotowe
- Najnowocrzejszejsze wrzeciona with integrated drive ("built-in")
- Przepływowe chładzanie wrzecion wrzecion wrodą z oświęcija agregatu chłodniczego o high capacity chładzanie
- Ciągła regulacja obrotów
- Nastawny magazynek wrzeciona, standardowo 24 to 64 według stożka wrzeciona, więcej pozię na ządzienie



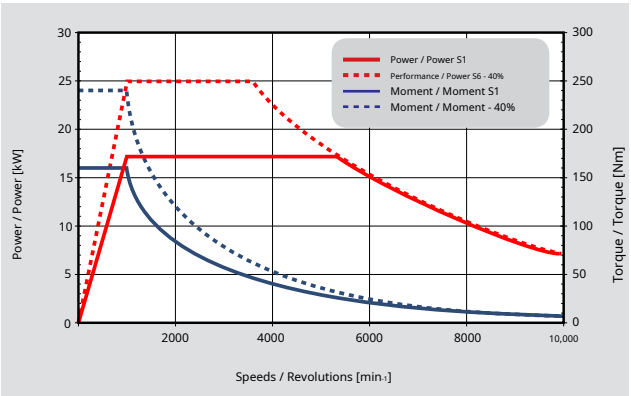
Power and torque characteristics of spindle motors // Charakterystyka mocy i momentów silników wrzecion

Spindle type//Type of wrzecon	Maximum speed//Maximum turnover	Cone//Hundred
POWER SUPPLY	10,000 min-1	ISO 50
SPEED	12,000 min-1	ISO 40, HSK-A63
SPRINT	18,000 min-1	HSK-A63
QUICK	24,000 min-1	HSK-A63
quick	10,000 min-1	ISO 50

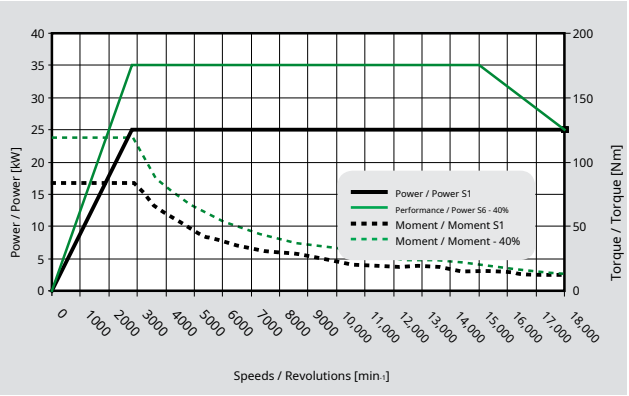
MCV 754 FAST



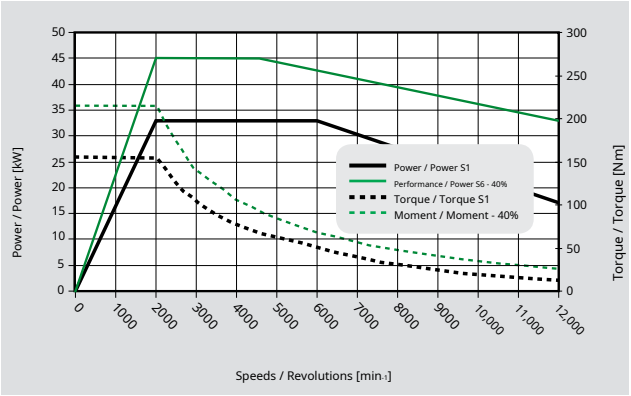
MCV 1016 FAST



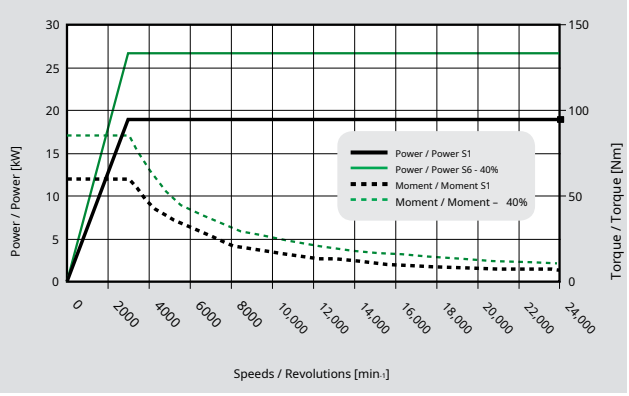
Sprint



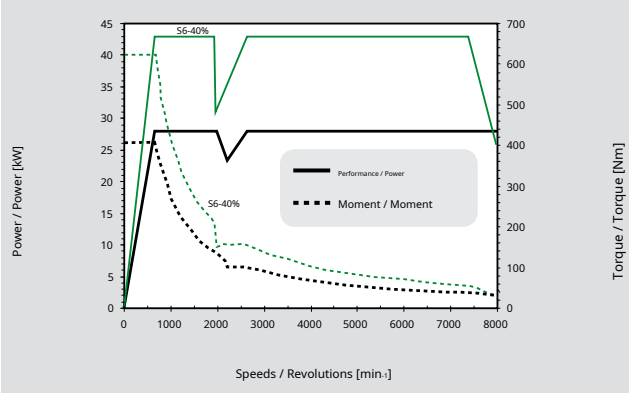
Speed



quick



Power supply



Technical data // Dane techniczne
MCV 754, 1016, 750, 1000, 1270

TECHNICAL DATA//TAXES TECHNICALLY		MCV 754 **QUICK**	MCV 1016 **QUICK**	MCV 750 SPEED	MCV 750 **SPRINT**	MCV 750 **QUICK**
Table//Table						
Table clamping surface//Table surface	mm	1000x500	1300×600	1000x640		
T-slots (number×width×spacing)//Rowki T-owe (ilość×szerokość×rozstaw)	mm	3×18×125	5×18×125	4×18×125		
Maximum table load//Max. table load	kg	400	700	650		
Working scope//Scope of processing						
X-axis//X axis	mm	754	1016	750		
Y-axis//Y axis	mm	500	610	500		
Z-axis//Z axis	mm	550	710	500		
Distance of the front wall from the clamping surface of the table//Odległość między czołem wrzeciona a powierzchnią stołu	mm	100–650	100–810	145–645	155–655	155–655
Spindle//Wrzeciono						
Conical spindle cavity//Stożek we wrzecionie	-	ISO 40	ISO 40	HSK A63 / ISO 40	HSK A63	
Max. revolutions//Max. wrzeciona speed	min-1	10,000	10,000	12,000	18,000	24,000
Speed change//Speed change	-	continuously variable//continued		continuously variable//continued		
Shift//Shift						
Work feed X, Y, Z//Robot movements X, Y, Z	mm.min-1	1-15,000	1-15,000	1-15,000		
Rapid traverse X, Y, Z//Quick move X,Y,Z	m.min-1	30	30	45		
Toolbox//Tool tray						
Number of places in the stack//Number of storage spaces	-	24	24	24		
Max. tool length//Max. tool length	mm	250	300	225/250	225	
Max. tool diameter//Max. tool diameter	mm	75	75	77		
Max. tool diameter, omitting neighboring tools//Max. diameter przy pustym sąsiednim gnieździe	mm	120	120	150		
Neighbor tool replacement time//Time to change the tool	with	3	3	3		
Max. mass instruments//Max. waga tools	kg	6.5	6.5	6.5		
Engine//Highway						
SIEMENS spindle motor power (S1/S6 - 40%)//SIEMENS heather motor (S1/S6 40%)	kW	9/13	17/25	33/45	25/35	19 / 26.7
Rated torque (S1/S6 - 40%)//Nominal torque skrękający (S1/S6 - 40%)	Nm	57/83	162/239	157/215	86/120	60/86
Max. total power of the machine//Max. całkowity power consumption	kVA	25	40	30		
Accuracy ČSN ISO 230 - 2//Dokładność ČSN ISO 230 - 2						
Measuring X,Y,Z//X, Y, Z measurement system	-	primary//direct		primary//direct		
Accuracy of positioning//Dokładność setting the position	mm	0.012	0.012	0.01	0.01	0.01
Repeatability of positioning//Powtarzalność setting position	mm	0.005	0.005	0.004		
Working air pressure//Ciśnienie rożęcie pneumatycznego	MPa	0.55 - 0.6	0.55 - 0.6	0.55 - 0.6		
Machine dimensions (L×W×H)//Wymiary maszyny (L×W×W)	mm	2320× 2590×2560	2700x 3080× 2940	3700 x 2220 x 2735		
Machine weight//Machine mass	kg	4000	5,500	5,100		

1000 MCV POWER SUPPLY	1000 MCV SPEED	1000 MCV SPRINT	1000 MCV QUICK	MCV 1270 POWER SUPPLY	MCV 1270 SPEED	MCV 1270 SPRINT	MCV 1270 QUICK
1300×670				1500×670			
5×18×125				5×18×125			
1,200				1,200			
1,016				1,270			
610				610			
720				720			
120–840	150–870			120–840	150–870		
ISO 50 / ISO 40	HSK A63 / ISO 40	HSK A63		ISO 50 / ISO 40	HSK A63 / ISO 40	HSK A63	
8,000	12,000	18,000	24,000	8,000	12,000	18,000	24,000
2 degrees// 2 gears	continuously variable//continued			2 degrees// 2 gears	continuously variable//continued		
1-15,000				1-15,000			
40				40			
24/30	30			24/30	30		
260/350	350			400/350	350		
125/80	80			125/80	80		
175/125	125			175/125	125		
5/3	3			5/3	3		
15 / 6.5	6.5			15 / 6.5	6.5		
28/43	33/45	25/35	19 / 26.7	28/43	33/45	25/35	19 / 26.7
406/623	157/215	86/120	60/86	406/623	157/215	86/120	60/86
55				55			
primary//direct				primary//direct			
0.01				0.01			
0.004				0.004			
0.55 - 0.6				0.55 - 0.6			
4600 x 3600 x 3330				5000 x 3600 x 3330			
10,500				11,000			

The machine conforms to//The machine is compatible with

Due to the continuous development and innovation of machines, the data in this promotional material is non-binding.//Due to the continuous development or innovation of maszyn, the data contained in niniejszym materiale reklamowym nie są wiążące.

Technical data // Dane techniczne
MCV 1000 5AX

Technical data//TECHNICAL TAXES		1000 MCV POWER 5AX	1000 MCV SPEED 5AX	1000 MCV Sprint 5AX
Swivel and folding table//Turntable and tilting table				
Diameter of turntable plate//The diameter of the table top	mm	520		
Tilt axis A//Pivot axis A	°	± 110°		
Pivot axis C//Axis of rotation C	°	360°		
T-slots (number x width)//Rowki T-owe (ilość×szerokość)	-	5×14		
Max. table load//Max. table load	kg	300		
Height above table//The height of the table from the floor	mm	1250		
Working scope//Scope of processing				
X-axis//X axis	mm	900		
Y-axis//Y axis	mm	590		
Z-axis//Z axis	mm	520		
Distance of the front wall from the clamping surface of the table//Odległość między czołem wrzeciona a powierzchnią stołu	mm	20–540		
Spindle//Wrzeciono				
Conical spindle cavity//Stożek we wrzecionie	-	ISO 50 / ISO 40	HSK A63 / ISO 40	HSK A63
Max. revolutions//Max. wrzeciona speed	min-1	8,000	12,000	18,000
Speed change//Speed change	-	2 degrees// 2 gears	continuously variable//continued	
Shift//Shift				
Work feed X, Y, Z//Robot movements X, Y, Z	mm.min-1	1-15,000		
Rapid traverse X, Y, Z//Quick move X,Y,Z	m.min-1	40		
Max. A-axis revolutions//Max. revolutions - axis A	min-1	12		
Max. C axis revolutions//Max. revolutions - axis C	min-1	20		
Toolbox//Tool tray				
Number of places in the stack//Number of storage spaces	-	24/30	30	30
Max. tool length//Max. tool length	mm	300	300	350
Max. tool diameter//Max. tool diameter	mm	80		
Max. tool diameter, omitting neighboring tools//Max. diameter przy pustym sąsiednim gnieździe	mm	125		
Neighbor tool replacement time//Time to change the tool	with	4		
Max. mass instruments//Max. waga tools	kg	6.5		
Engine//Highway				
SIEMENS spindle motor power (S1/S6 - 40%)//Silnika wrzeciona SIEMENS (S1/ S6 40%)	kW	28/43	33/45	25/35
Rated torque SIEMENS (S1/S6 - 40%)//Nominal torque skrękający SIEMENS (S1/S6 - 40%)	Nm	406/623	157/215	86/120
Max. total power of the machine//Max. całkowity power consumption	kVA	75		
Accuracy ČSN ISO 230 - 2//Dokładność ČSN ISO 230 - 2				
Measuring X,Y,Z//X, Y, Z measurement system	-	primary//direct		
Accuracy of positioning//Dokładność setting the position	mm	0.01		
Repeatability of positioning//Powtarzalność setting position	mm	0.004		
Working air pressure//Ciśnienie rożęcie pneumatycznego	MPa	0.55 - 0.6		
Machine dimensions (L×W×H)//Wymiary maszyny (L×W×W)	mm	4600 x 3600 x 3300		
Machine weight//Machine mass	kg	11,000		

Accessories // Wyposażenie

NORMAL ACCESSORIES // WYPOSAŻENIE STANDARDOWE	MCV 754 QUICK	MCV 1016 QUICK	MCV 750 POWER,sPRINT, speed, RaPId	1000 MCV POWER,sPRINT, speed, RaPId	MCV 1270 POWER,sPRINT, speed, RaPId	1000 MCV 5AX POWER,sPRINT, Speed
Electrical equipment 3 × 400V/50Hz//Electrical equipment 3x400V/50Hz	-	-	-	-	-	-
CNC system HEIDENHAIN iTNC 530//CNC system HEIDENHAIN iTNC 530	-	-	-	-	-	-
Digital AC control drives for spindle and axis X,Y,Z,A,C - HEIDENHAIN//Cyfrowe regulacyjne układy pozawowe na prąd zmienie wrzeciona i axis X,Y,Z,A,C - HEIDENHAIN	-	-	-	-	-	-
Direct measurement of the positions of linear and circular axes//Bezpośrednie odmierzanie pozisi liniowych i rogunnych axis	-	-	-	-	-	-
MAS swivel and folding table//Stół obrotowy a przechylany MAS	-	-	-	-	-	-
Pneumatic strengthening of table axes//Pneumatyczne zblokowanie table axis	-	-	-	-	-	-
Cooling unit for external cooling//Aggregat chłodzący do chlodzenie oczennogo	-	-	-	-	-	-
Central tool clamping//Central tool mocowanie	-	-	-	-	-	-
Automatic lubrication of moving parts//Automatyczne smarowanie elemento ruchomych	-	-	-	-	-	-
Hand wheel//Hand wheel	-	-	-	-	-	-
ETHERNET card//ETHERNET card	-	-	-	-	-	-
A set of tools for the operator//Set of tools for operation	-	-	-	-	-	-
Accompanying documentation in Czech//Documentation in the Czech language	-	-	-	-	-	-
Spindle circulation cooling//Obiegowe chlodzenie wrzeciona	-	-	-	-	-	-
Chip conveyor//Przenośnik wiórów	-	-	-	-	-	-
Two-speed gearbox (POWER version)//Dwubiegowa przekładnia (versja POWER)	-	-	-	-	-	-
Tool magazine with mechanical hand//Magazine of tools z ręką mechaniczą	-	-	-	-	-	-
Temperature compensation//Temperature compensation	-	-	-	-	-	-
Dialog system//Dialog system	-	-	-	-	-	-

NORMAL ACCESSORIES // WYPOSAŻENIE STANDARDOWE						
Central cooling 2 Mpa- Type AD//Układ chlodzenia centralnego 2 MPa – Type AD	-	-	-	-	-	-
Chip conveyor//Przenośnik wiórów	-	-	-	-	-	-
3D probe - infrared - HEIDENHAIN//Probe 3D on podczerwień - HEIDENHAIN	-	-	-	-	-	-
3D probe -infra- RENISHAW//Probe 3D on podczerwień - RENISHAW	-	-	-	-	-	-
3D probe OMP 40-2 + tool probe OTS-Renishaw//3D OMP 40-2 probe + OTS-Renishaw tool probe	-	-	-	-	-	-
Instrument Probe - Renishaw//Tool probe - Renishaw	-	-	-	-	-	-
Tool probe - HEIDENHAIN//Tool probe - HEIDENHAIN	-	-	-	-	-	-
Machine status signaling (beacon)//Sygnalizacja stanu maszyny (cock)	-	-	-	-	-	-
LOSMA coolant belt filter//LOSMA tape filter	-	-	-	-	-	-
Manual washing of the work area//Układ ręcznego spłukiwania prześci wrzecznej	-	-	-	-	-	-
Rotary table Hofmann-RW/NC160+4. controlled axis//Hofmann-RW/ NC160 rotary table + 4. sterowana axis	-	-	-	-	-	-
Rotary table Hofmann-RW/NC 220+4. controlled axis//Hofmann-RW/ NC220 rotary table + 4. sterowana axis	-	-	-	-	-	-
Rotating and folding table Hofmann RS/NC 160/160//Hofmann RS/NC 160/160 rotary table	-	-	-	-	-	-
The outer blow of the tool//Zewnętrzny układ zdmuchiwania utiliza	-	-	-	-	-	-
Aerosol extractor - Filtermist FX//Aerosol sprayer - Filtermist FX	-	-	-	-	-	-
Remote diagnostics//Układ remote diagnostics	-	-	-	-	-	-
MAS machine monitor//MAS machine monitor	-	-	-	-	-	-
MAS GSM monitor//Monitor MAS GSM	-	-	-	-	-	-
Switchboard air conditioning//Klimatyzacja szafy rozdzielczej	-	-	-	-	-	-
DXF import//DXF import	-	-	-	-	-	-
AFC adaptive feed control//Adaptive control for AFC	-	-	-	-	-	-

Remote diagnostics-an additional service that saves your money
Remote diagnosis-dodatkowa usluga, which will save money

- The fastest technical and technological customer service
- Direct contact with the customer's machines "on-Line" Cheap a
- reliable technical solution
- An experienced team of diagnostics and application engineers - technologies

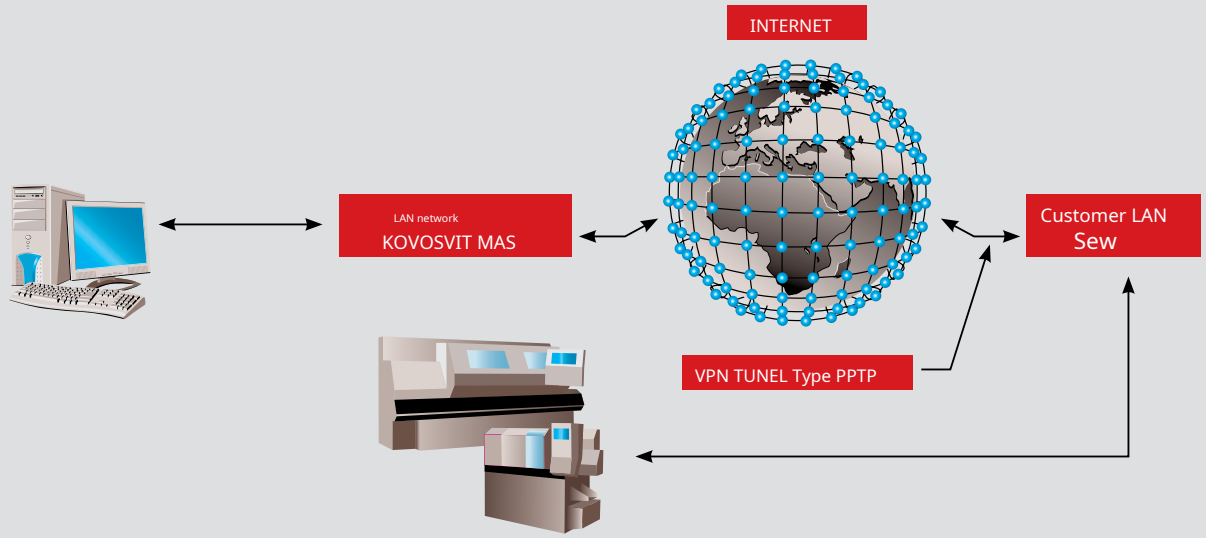
Remote diagnosis is the analysis of machine status through communication software by the diagnostician. With the help of communication software, the screen is made available remotely on the Internet and through the menu of the control system. The communication software itself does not include any diagnostic tools. The service technician only remotely uses the internal diagnostic options of the control system. The screen and dialog menu of the CNC is made available to the service technician's computer at any distance. The technician not only monitors the current status of the machine via his screen, but uses the keyboard of his computer to control the CNC menu, transmits practically all data bilaterally and conducts a dialogue with the operator using the CHAT function. When analyzing a machine fault, the technician uses all the diagnostic functions integrated in the CNC.

The goal of Remote Diagnostics is to shorten machine downtime by ensuring that the subsequent service activity is already precisely targeted. This brings with it, above all, a reduction in customer losses caused by machine downtime.

- The fastest technical and technological service for the recipient
- Direct contact from maszyną recipient "on-Line"
- A cheap and nezawodne teknische solution
- Doświadczony szempol diagnostików and inżynierów-technologów

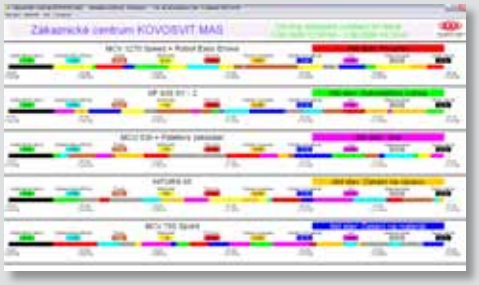
Remote diagnostics is an analysis of the maszyny state przez diagnostics behind the communication software pośrenictwem. Oprogramowania komunikacyjnego za pośrenictwe Internet zadalnie provides the screen and dialog menu of the sterującego system. Samo prowawannym komunikacyjne nie zawiera w sobie nieczny wyłęcie diagnostycznych. Technik serwisowy wyrzeczyce zadalnie jedynie internejne powięciej systemu sterującego. A screen and a CNC dialog menu are available at any distance to the service technician's computer. The technician not only monitors the current state of the machine on his screen, but uses the keyboard of his computer to control the CNC menu, transfer practically all data, and use the CHAT function to conduct a dialogue with the service. Do analyzy nadzornościąści maszyny technik korzysta ze wszystkich zespolonych w CNC funkcji diagnostycznych.

Zadaniem diagnostiksi zdalnej jest skrócenie czasu odstawienie maszyny dziły temu że następna szerwisowa jest ukirenkowana za zadniem. To przynosi dőbócicy przede wszystkim przysztowie przez objezenie strat, powstających wskutek odstawienie maszyny z rukh..



MACHINE MONITOR

-a tool to increase the productivity of your operation!
-a tool that increases productivity



MAS MACHINE MONITOR is a software product that allows customers to monitor the time use of a machine during a shift online, or to view the history of operating conditions and thus subsequently take measures in production and logistics. All this is possible in the visualization program that is installed on the customer's PC.

MACHINE MONITOR means a demonstrable leap in the productivity of your operation = YOUR WAY TO INCREASING COMPETITIVENESS THROUGH MAS!

Basic functions of MAS MACHINE MONITOR:

- Monitoring the use of any number of machines, the possibility of classifying machines into groups (workplaces)
- View machine status online or browse historical usage
- The number of manufactured pieces, display of the interval of use of power circuits - measures to save electricity
- Summary statistics for individual machines
- Important information for company management and production management

MAS MACHINE MONITOR option is MAS GSM MONITOR-setting of selected machine statuses via the mobile operator's network to selected telephone numbers in the form of an SMS message. The worker can thus immediately react to the event, even if he is not currently present at the machine.

Be independently and realistically informed about the progress of your orders directly from the machines even during your physical absence from the company!

GSM MONITORING - functions of the GSM MODULE:

Using the touch panel, up to 5 phone numbers can be defined, which can be used for monitoring and controlling the machines.

SMS messages are then sent to the entered phone numbers about the change in the status of the Na machine

the current status of the machine can also be queried by sending SMS messages in the form "STATUS"

SMS can be sent optionally even if certain conditions are met (e.g. a certain number, a certain number of pcs, etc.)

Up to 2 user signals can be controlled using SMS from a predefined number. In this way, the behavior of the machine can be controlled remotely (for example, stopping the machine after the completion of the current part, changing production to a different type of part, etc.)

MAS MACHINE MONITOR is a software product that enables users to use online czas wykorzystania maszyny podczas zmiany bięb umożśiwia wgląd do historije stanów eksploatacyjnych, a duży temu nastękjępętski produkać zabiępgi do. plan. To wszystko poładowice sopranowannym vizualizacyjne, zainstałwane w computerze objecicy.

MAS MACHINE MONITOR oznacza udokumentowane skokowe poniesienie eksploatycyjnej obnocicy = dROgA dO pOdNIESIENIA jEgo zdOlNOśCI konkuRENCyjNEj dzIękI MAS!

Basic functions of MAS MACHINE MONITOR:

- Śledzenie wykorzystania dowolnej liczby maszyn, śledzenie łączenia maszyn (stanowisk pracy) w grupy
- Wiślanie stanu maszyn online bięb prześwanie historii ich wykorzystanie
- Ilość produktennych sztuk, wyświetlenie przedziału czasu zwiczenia obwodów siłowych - zębręce mający na celu oszpędność energiy elektrycznej
- Statystyka zbiorcza dla szczecin maszyn
- Important information for company management and product management

The MAS MACHINE MONITOR option is MAS GSM MONITOR-monitoring of selected machine statuses via the mobile network operator on selected telephone numbers in the form of SMS communications. Pracownik może natychmiast reagować na wydarzenie, nawet kiedy nie ma go przy maszynie.

Otrzymasz independent and real information about the order run directly from the maszyny rączą podczas twojej nieobecności w firmie!GSM MONITORING - functions of the GSM MODULE: Via the touch panel, you can enter up to 5 numbers that can be used to track the machine and control it. On the given telephone number, SMS notifications about changes to the machine's status can be sent to the machine's current status.

Via SMS from any selected number, 2 user signals can be controlled. In this way, you can control the machine remotely (e.g. stopping the machine after completing the current element, changing the production of an element of another type, etc.)

KOVOSVIT MAS
machine your future

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