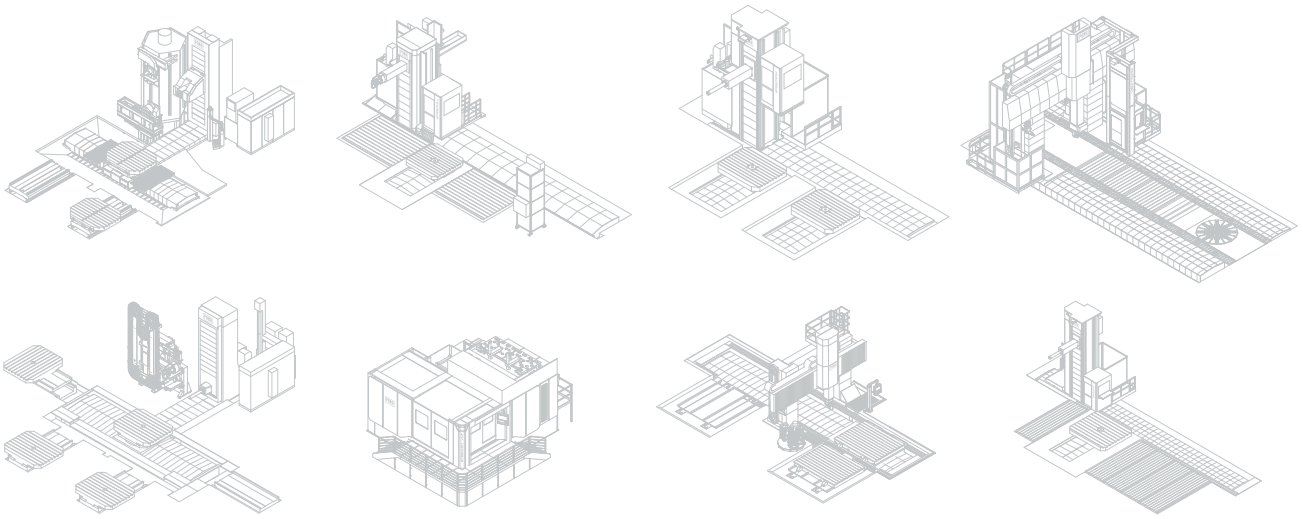
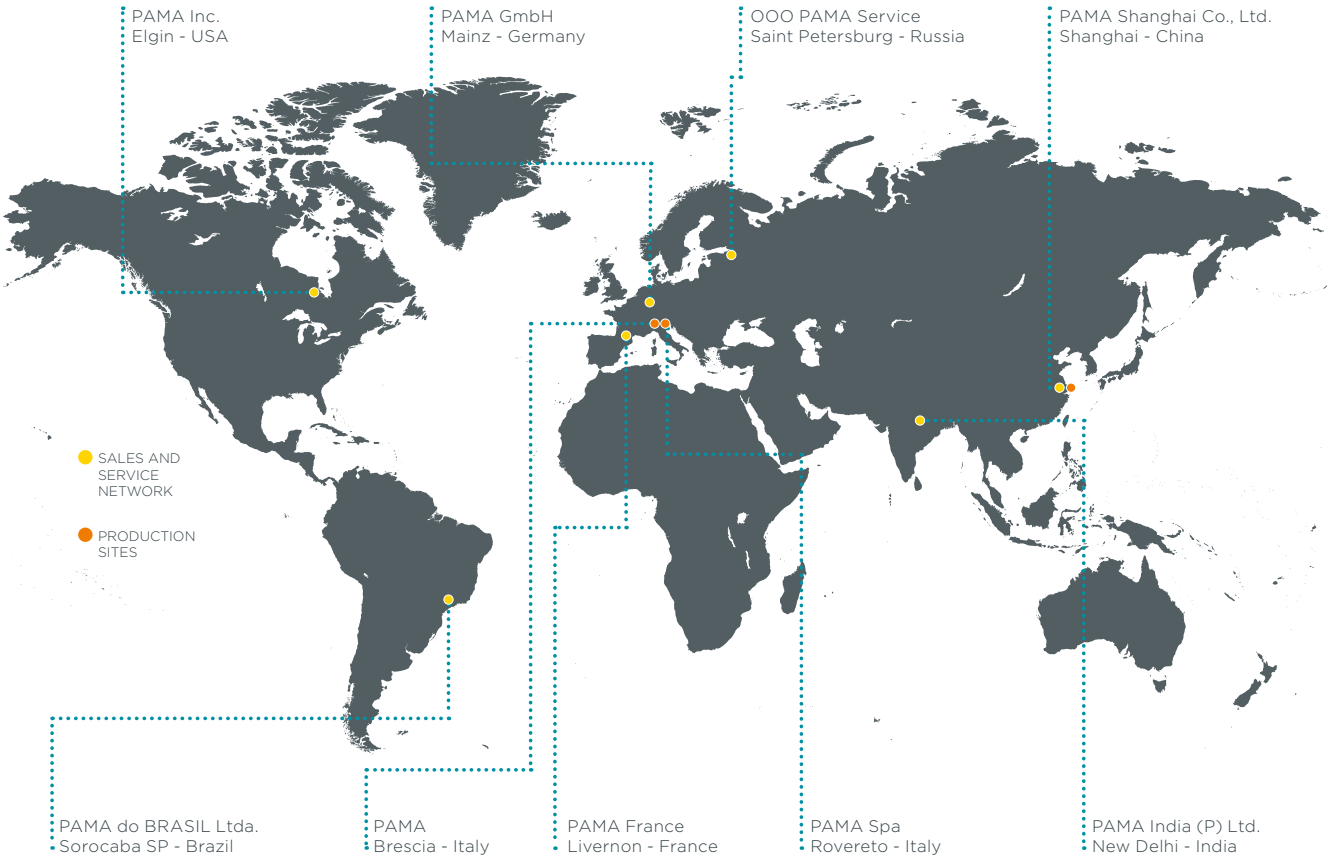
PAMA

COMPANY PROFILE



your
solution
provider

your solution provider



the partner for demanding customers

THE COMPANY

ROVERETO - ITALY

ROVERETO - ITALY

established in 1926
90 years of know-how in the field of
boring and milling machines
leader among machine tool manufacturers
quality qualified ISO 9001
over 80% of production is exported

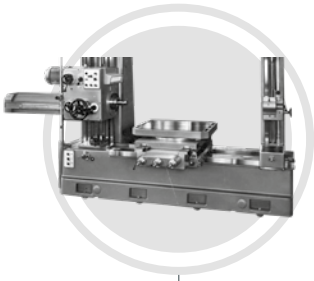
BRESCIA - ITALY

SHANGHAI - CHINA

TIMELINE

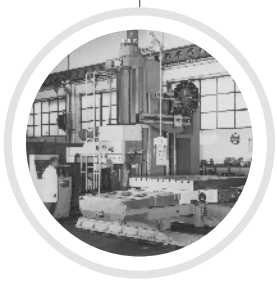
1926
established

1950



1960

1970



PAMA builds one of the first CNC machines

SPEEDRAM

1983

first contacts with the Chinese market

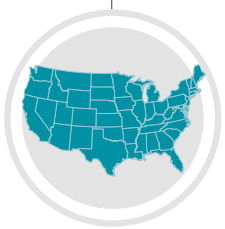
1988

new plant in Rovereto

1990

Service Center SHANGHAI

1996



Service Centers GERMANY USA

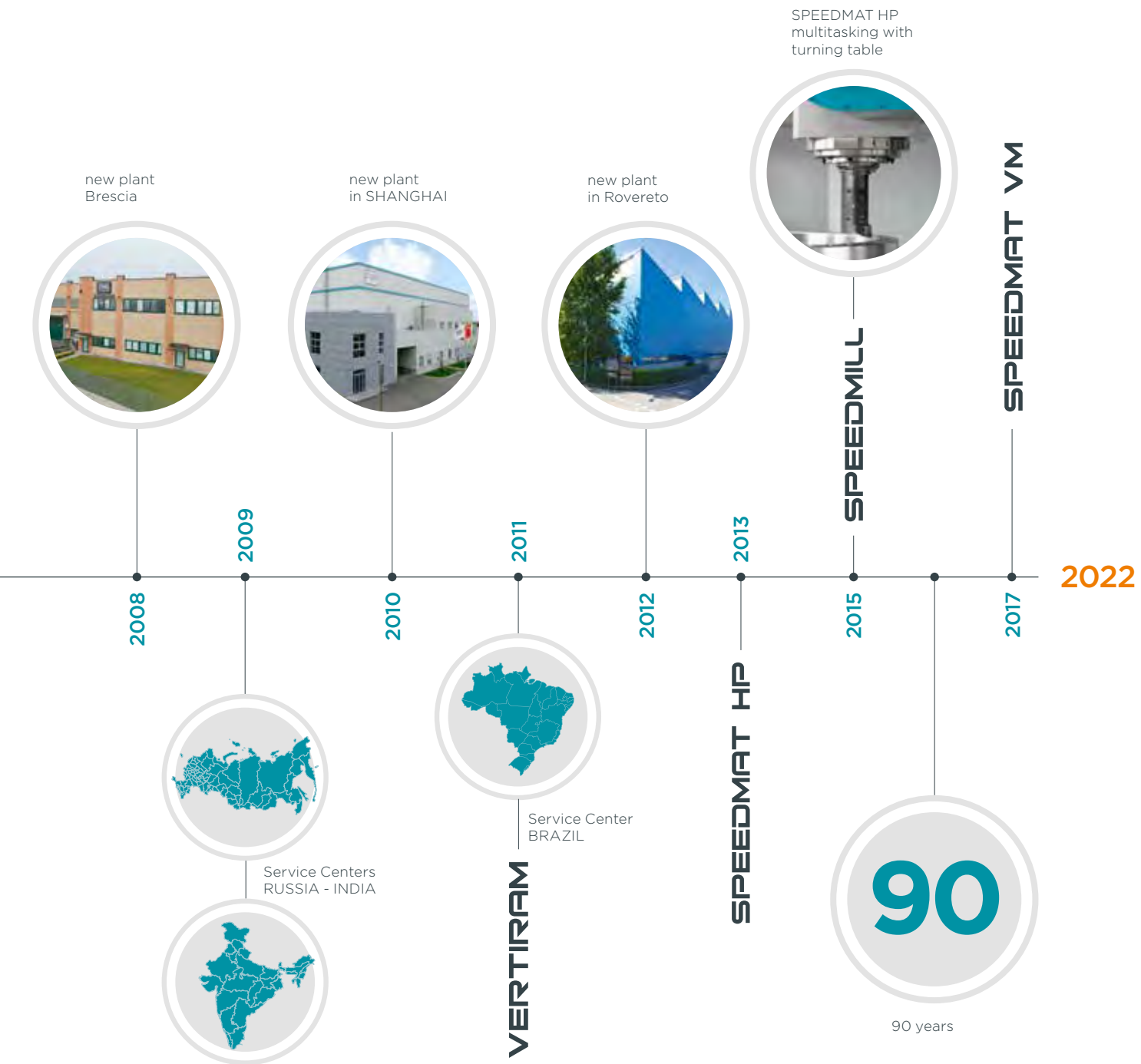
2001

SPEEDMAT

2003

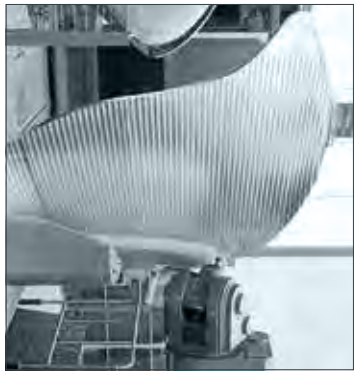
new offices and plant in Rovereto

2006


new plant
Brescia
new plant
in SHANGHAI
new plant
in Rovereto
SPEEDMAT HP
multitasking with
turning table
SPEEDMAT VM
SPEEDMILL
2008
2009
2010
2011
2012
2013
2015
2017
2022
Service Centers
RUSSIA - INDIA
Service Center
BRAZIL
VERTIRAM
SPEEDMAT HP
90
90 years

HEAVY MACHINERY

DIE & MOLD



SHIPBUILDING

AEROSPACE

ENERGY

OIL & GAS

DIESEL ENGINES

GENERAL MACHINING

EARTH MOVING

the partner for

ALSTOM | ANDRITZ | ANSALDO ENERGIA | AREVA | AVIC | BAETTR | BHEL | BOSCH REXROTH | CATERPILLAR | DALIAN HEAVY INDUSTRY | DANIELI | DONG FANG TURBINES | DRESSER WAUKESHA | ENDAKI | ENGEL | FINCANTIERI | FOMAS | GENERAL ELECTRIC | HITACHI RAIL | JOHN DEERE | KOENIG & BAUER | KONAR | KRAUSS MAFFEI | KUMERA | LARSEN & TOUBRO | LIEBHERR

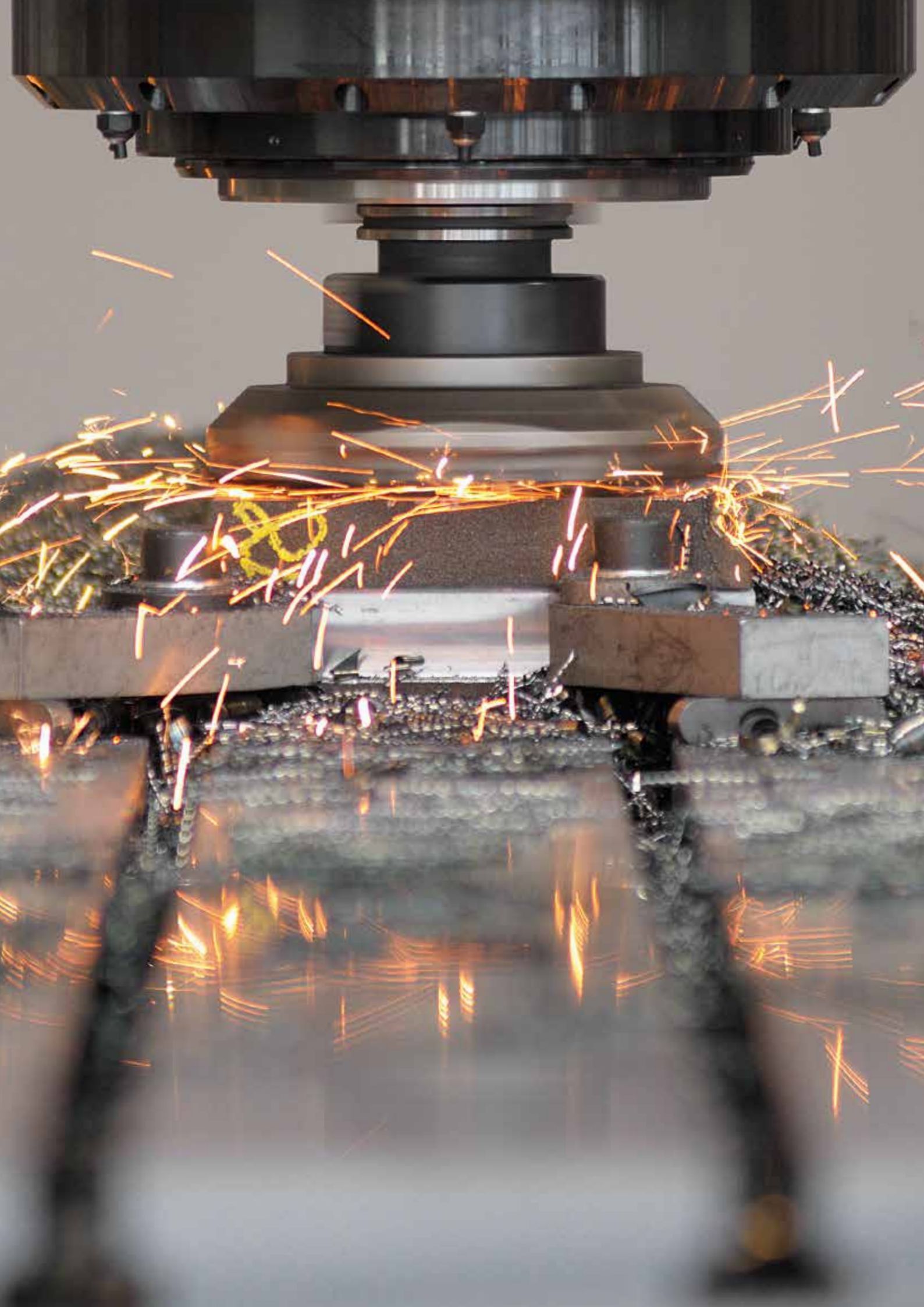
PAMA products can be customized to meet specific requirements for different application fields such as power generation, oil and gas, die & mold,earthmoving, heavy mechanical engineering, shipbuilding, large diesel engines and aerospace

demanding customers

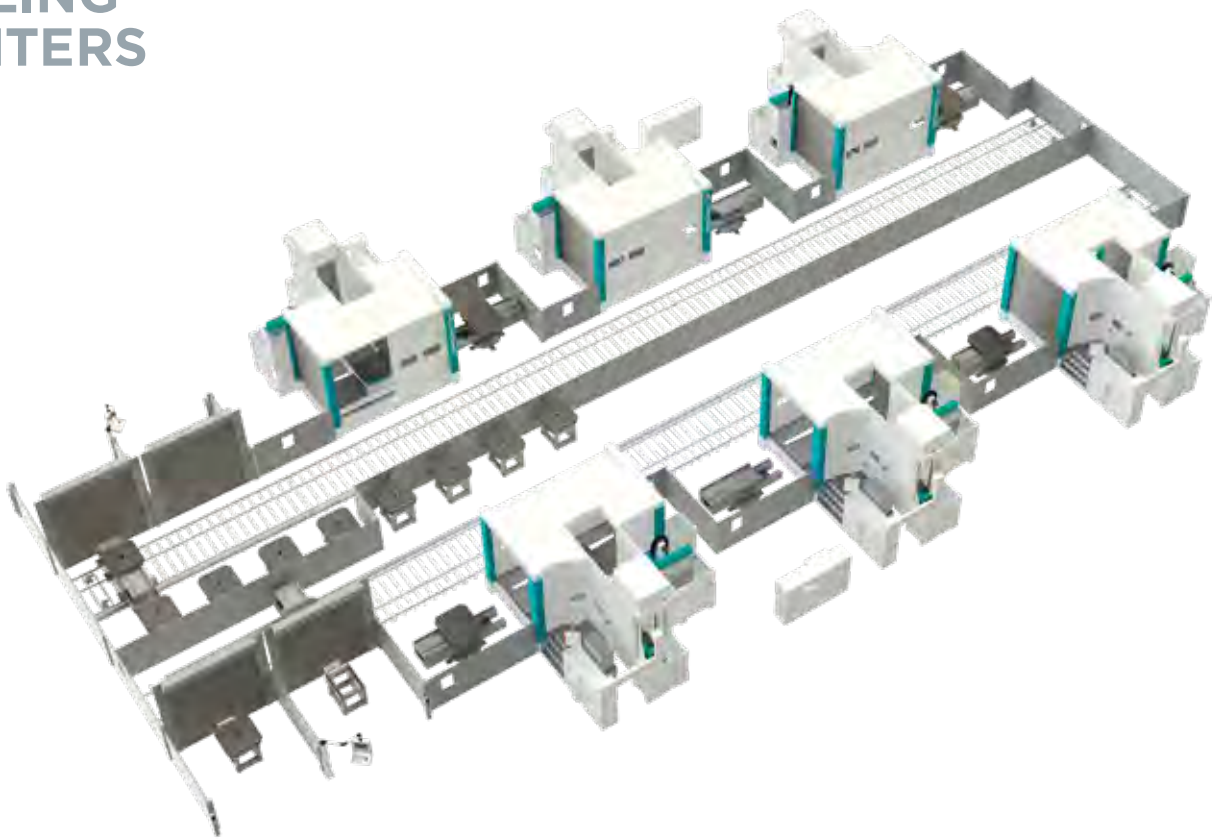
| MAN DIESEL & TURBO | MAN ENERGY | MESSIER DOWTY | NANJING HIGH SPEED | NAVAL GROUP | NORTHROP GRUMMAN | NUOVO PIGNONE (BAKER HUGHES) | OTO MELARA (LEONARDO) | F.LLI RIGHINI | ROLLS ROYCE | SACMA LIMBIATE | SACMI | SAFRAN | SHANGHAI STEAM TURBINES | SHW CASTING TECHNOLOGY | SIEMENS | SMS GROUP | TECNOSTAMPI | URALMASH | WESTINGHOUSE

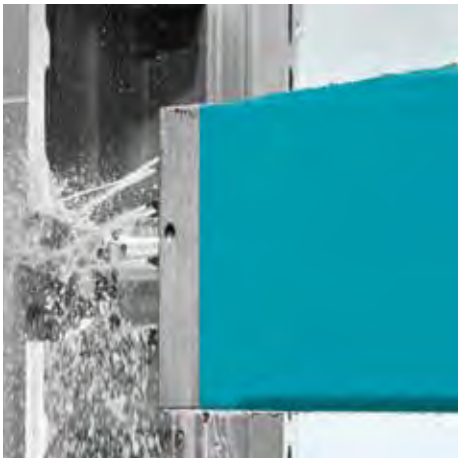
PRODUCTS

MULTITASKING MACHINING CENTERS,
FLOOR TYPE HORIZONTAL MILLING MACHINES,
FLOOR TYPE BORING AND MILLING MACHINES,
GANTRY TYPE MACHINING CENTERS,
BORING, MILLING AND TURNING CENTERS



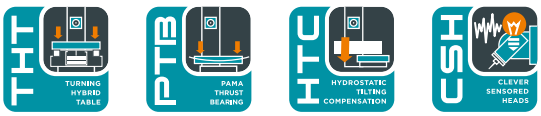
BORING AND MILLING CENTERS

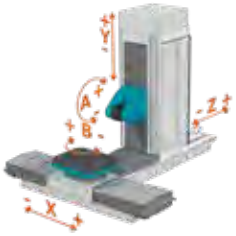




Speedmat HP technology provides the perfect solution for the most demanding machining application requiring utmost rigidity and precision even on the hardest materials. Multitasking capabilty allow for milling, boring and turning operation to be carried out in the same set up.

The Speedmat HP series consists of seven base models with:
pallet sizes from 1000 x 1000 mm up to 2000 x 2500 mm
with maximum load capacity from 4 to 35 t (metric ton)
maximum work piece swing diameter from 2200 to 4600 mm





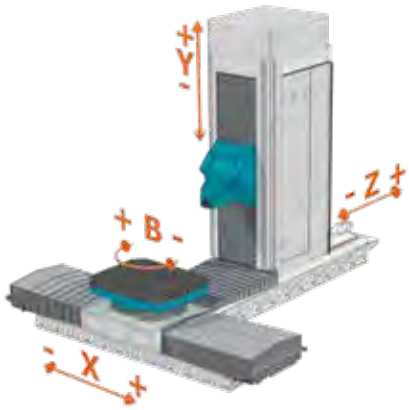
		HP1 HP2 HP3 HP4 HP5 HP6 HP7
WORKING AREA		
X axis (table)	mm	2200 - 4600
Y axis (headstock)	mm	1700 - 3500
Z axis (column)	mm	2000 - 3700
Max swing diameter	mm	2200 - 4600
TABLE		
Table or pallet size	mm	1000x1000 - 2000x2000
	mm	1250x1250 - 2000x2500
Table capacity	t*	6 - 25 (35)
Pallet capacity	t*	4 - 20 (32)
B axis feed/rapid	rpm	3.5 (2.5) - 10
Linear axes features (Headstock H - HV - AHD)		
X axis rapid traverse/feed rate	m/min	25 - 50
Y and Z axes rapid traverse/feed rate	m/min	30 - 50
X, Y, Z axes thrust	kN	20
Linear axes features (Headstock WD)		
X axis rapid traverse/feed rate	m/min	25 - 40
Y and Z axes rapid traverse/feed rate	m/min	30 - 40
X, Y, Z, W axes thrust	kN	20

		HPT1 HPT2 HPT3 HPT5
WORKING AREA		
X axis (table)	mm	2200 - 3800
Y axis (headstock)	mm	1700 - 3000
Z axis (column)	mm	2000 - 3200
Max swing diameter	mm	2200 - 3800
TURNING TABLE		
Table or pallet size	mm	1250 - 2500
Table/pallet capacity	t*	4 - 15
Max workpiece inertia	kg•m^2	4000 - 15000
B axis milling feed rate	rpm	5 - 10
Max spindle power (S1/S6)	kW	50 - 66
Max spindle torque (S1/S6)	kNm	5 - 25
Max turning speed	rpm	160 - 350

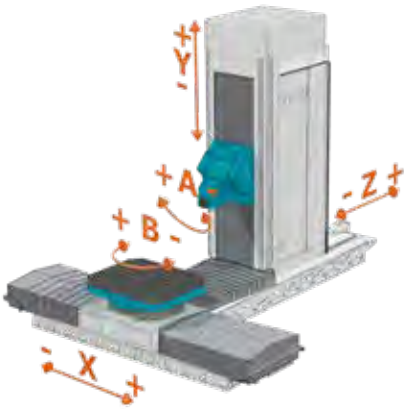
* t in metric ton

HEADSTOCKS

HV



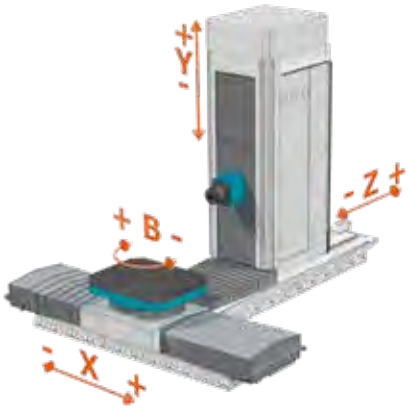
HVA



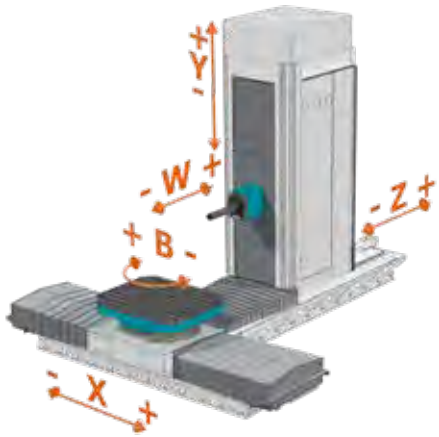
AHD

horizontal/vertical spindle orientation,
high dynamic performance
for easy machining of 5 sides of the
workpiece in one set-up

H



WD



HEADSTOCK

		H	HV	HVA	AHD
Max. spindle speed	rpm	4500 - 12500			
Max. spindle power (S1)	kW	50 - 105			
Max. spindle torque (S1)	Nm	286 - 1035			
A axis continuous torque (S1)	Nm	4000 - 8000			
A axis clamping torque	Nm	8000 - 12000			

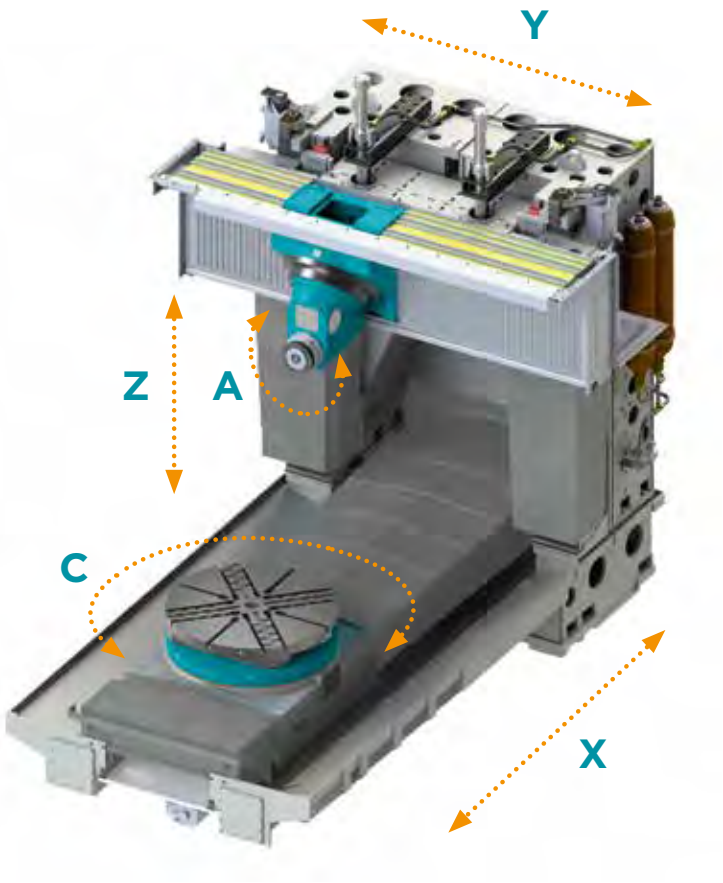
HEADSTOCK

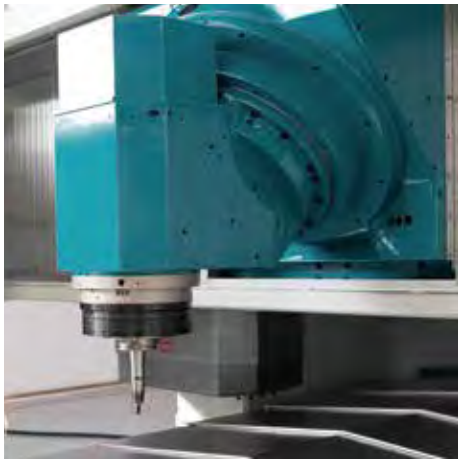
		WD 110	WD 130	WD 150	WD 160
Max. spindle speed	rpm	4000 - 5000			
Max. spindle power (S1)	kW	76 - 78			
Max. spindle torque (S1)	Nm	1500 - 2167			
Boring spindle diameter	mm	110 - 160			
W axis (boring spindle)	mm	500 - 800			
W axis feed / rapid	m/min	30			


PAMA


SPEEDMAT H

MACHINING CENTERS



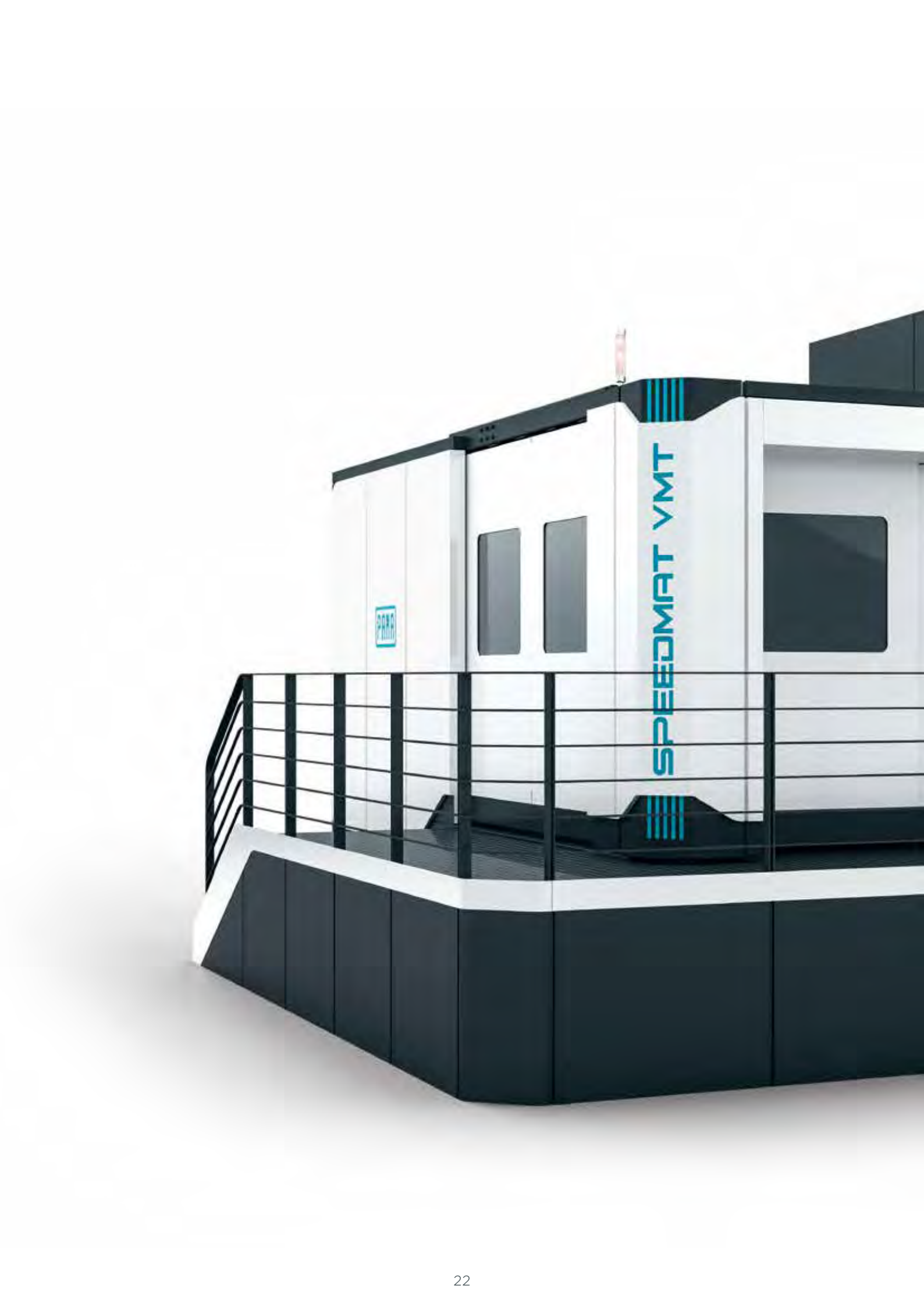


Speedmat VM technology provides the perfect solution for the most demanding machining applications requiring utmost rigidity and precision even on the hardest materials. Multitasking capabilty allows for milling, boring and turning operations to be carried out in the same set up.

The Speedmat VM series consists of three base models with: pallet size from 1000 x 1000 mm up to 2000 x 2000 mm with maximum table load capacity up to 12 t (metric ton) and maximum work piece swing diameter up to 3000 mm.

		VM1 VM2 VM3	VMT1 VMT2 VMT3
WORKING AREA			
X axis (table)	mm	1700 - 2700	
Y axis (headstock)	mm	1500 - 2700	
Z axis (crossrail)	mm	1300 - 1700	
Max swing diameter	mm	1500 - 3000	
LINEAR AXES FEATURES			
X axes rapid traverse/feed rate	mm/min	40000 - 50000	
Y and Z axis rapid traverse/feed rate	mm/min	40000	
Max acceleration	m/s^2	3	
X, Y, Z axis thrust	kN	15	
TABLE			
Table or pallet size	mm	1000x1000 - 2000x2000 Ø 1500 - Ø 2200	
Table capacity	t	6 - 12	
Pallet capacity	t	4 - 10	
C axis feed/rapid	rpm	10	
TURNING TABLE			
Table or pallet size	mm	Ø 1250 - Ø 2200	
Table capacity	t	6 - 8	
Pallet capacity	t	4 - 7	
Max turning speed	rpm	200 - 350	
			ES
HVA HEADSTOCK			
Max spindle speed	rpm	8000/12500	
Max spindle power (S6-40%)	kW	84/85	
Max spindle torque (S6-40%)	Nm	901/450	
A axis max continuous torque	Nm	4000	
A axis max clamping torque	Nm	8000	
			ES
A HEADSTOCK			
Max spindle speed	rpm	8000/12500	
Max spindle power (S6-40%)	kW	84/85	
Max spindle torque (S6-40%)	Nm	901/450	
A axis max continuous torque	Nm	5000	
A axis max clamping torque	Nm	10000	

* t in metric ton


SPEEDMAT VMT

FLOOR TYPE HORIZONTAL MILLING MACHINES

PAMA Speedmill is the ideal solution for all application requiring high speed machining coupled with high precision multi axis contouring, with the advantage of an horizontal spindle chip evacuation. Our exclusive solution utilizing Direct Drive for the spindle allows to take advantage of today's latest tooling technology as well as it's ready for future tooling developments.

Speedmill series consists of two base models with vertical stroke up to 5000 mm and ram stroke of 2000 mm

TR 10 TR 16 TR 25 TR 35

ROTOTRAVERSING TABLES

Loading capacity	t*	10 - 35
Table surface - min.	mm	1250 x 1250 - 2000 x 2000
Table surface - max.	mm	1600 x 1600 - 2500 x 2500
V axis longitudinal travel	mm	1500 - 4000

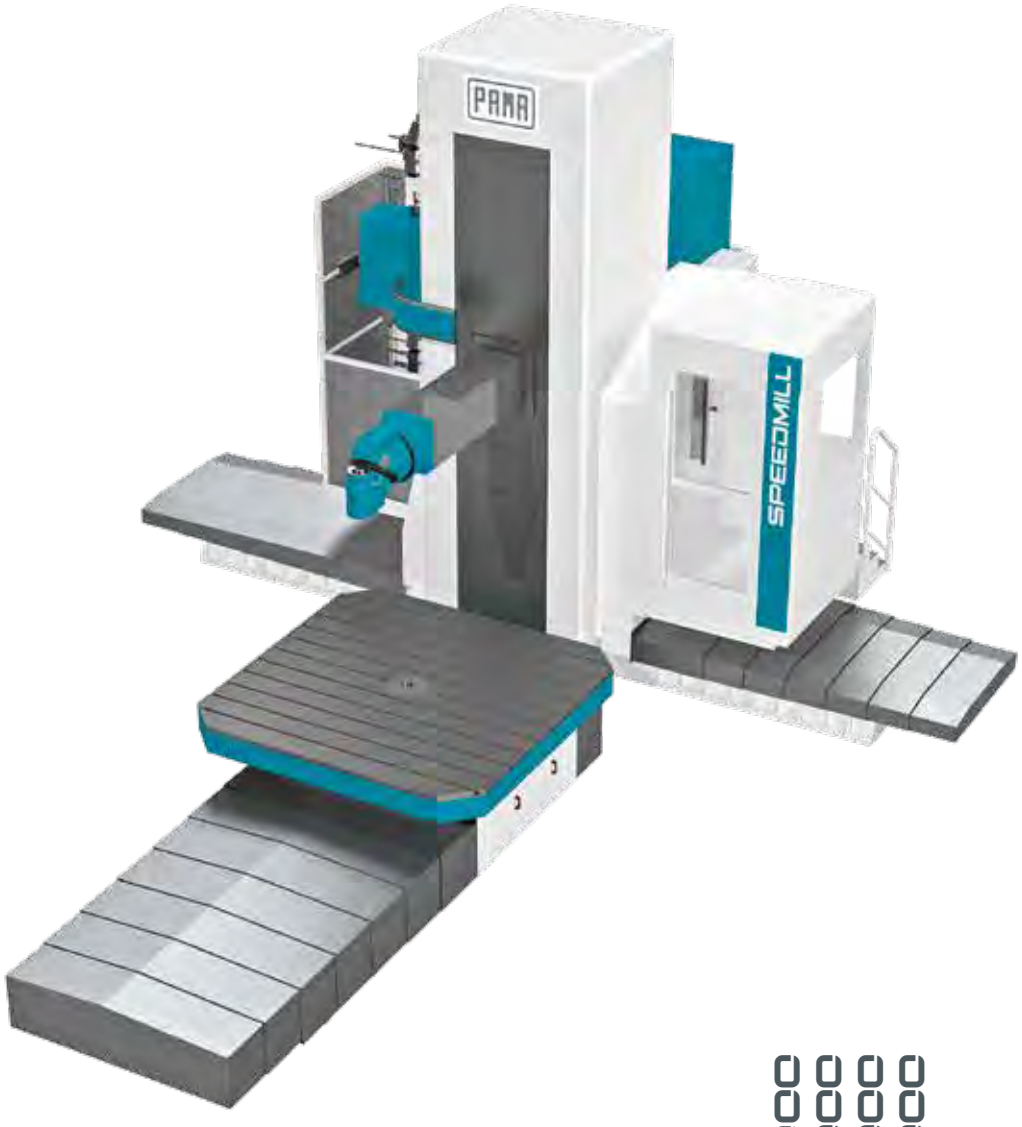
TH 50 TH 65 TH 80 TH 100

HYDROSTATIC ROTOTRAVERSING TABLES

Loading capacity	t*	50 - 100
Table surface - min.	mm	2000 x 2000 - 3000 x 3000
Table surface - max.	mm	3000 x 3000 - 4500 x 4500
V axis longitudinal travel	mm	1500 - 4500

* t in metric ton

SPEEDMILL



1000
2000
3000
4000

WORKING AREA

X axis (column)	mm	5000
	mm	+N x 1000
Y axis (headstock)	mm	2000 - 5000
Z axis (ram)	mm	1200 - 2000

HEADSTOCK

Ram section	mm	430 x 430 - 500 x 500
Trasmission		Direct Drive
Max. spindle speed	rpm	4000 - 6000
Max spindle power (S1)	kW	66 - 82
Max spindle torque (S1)	Nm	819 - 2494

AXES FEED RATES

X,Y,Z,W axis rapid traverse / feed rate	m/min	up to 35


PAMA


PAMA
SPEEDMILL

FLOOR TYPE BORING AND MILLING MACHINES

Speedmill B technology is the perfect solution for the most demanding machining applications of large and heavy components, with tough to cut materials and important stock removal, calling for rigidity and power without forgetting precision.

Speedmill B floor type boring and milling machines with boring spindle diameter up to 160 mm, ram stroke up to 2000 mm and vertical stroke up to 5000 mm.

ROTOTRAVERSING TABLES

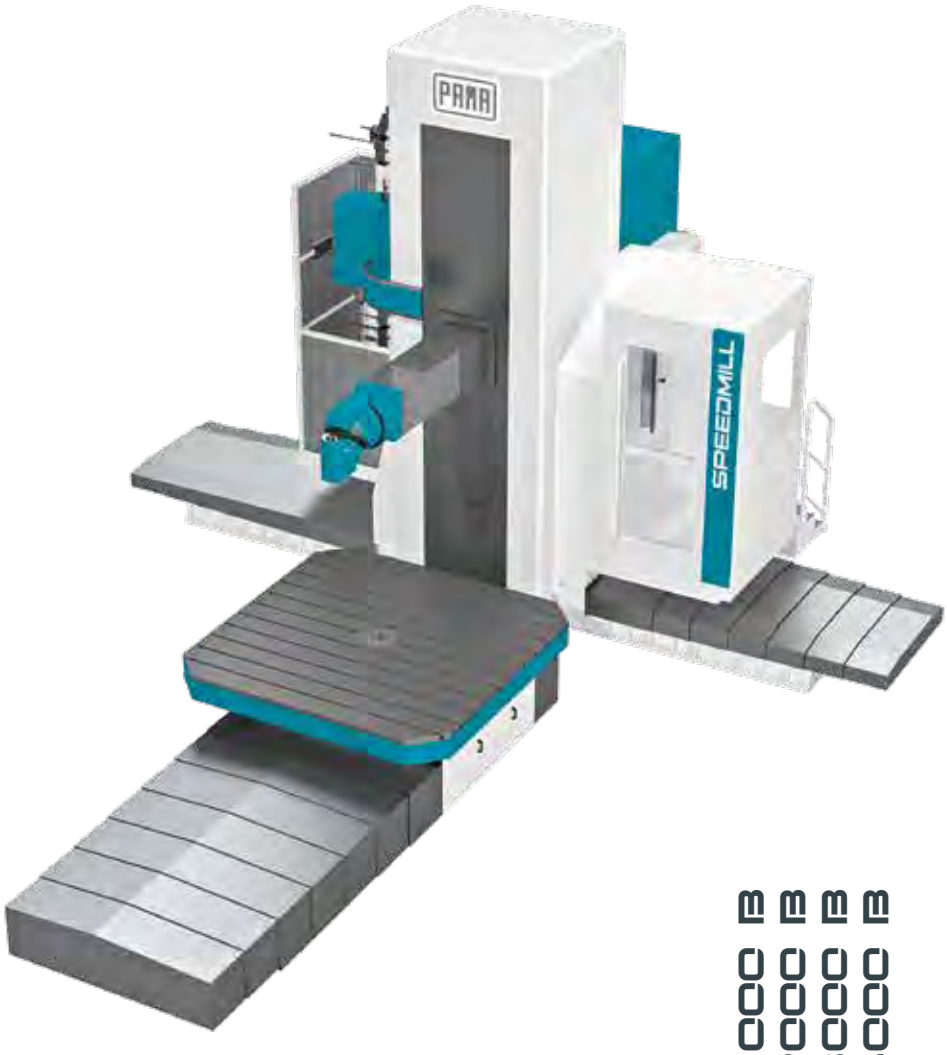
		TR 10	TR 16	TR 25	TR 35
Loading capacity	t*	10 - 35			
Table surface - min.	mm	1250 x 1250 - 2000 x 2000			
Table surface - max.	mm	1600 x 1600 - 2500 x 2500			
V axis longitudinal travel	mm	1500 - 4000			

HYDROSTATIC ROTOTRAVERSING TABLES

		TH 50	TH 65	TH 80	TH 100
Loading capacity	t*	50 - 100			
Table surface - min.	mm	2000 x 2000 - 3000 x 3000			
Table surface - max.	mm	3000 x 3000 - 4500 x 4500			
V axis longitudinal travel	mm	1500 - 4500			

* t in metric ton

SPEEDMILL B



1000 B
2000 B
3000 B
4000 B

WORKING AREA

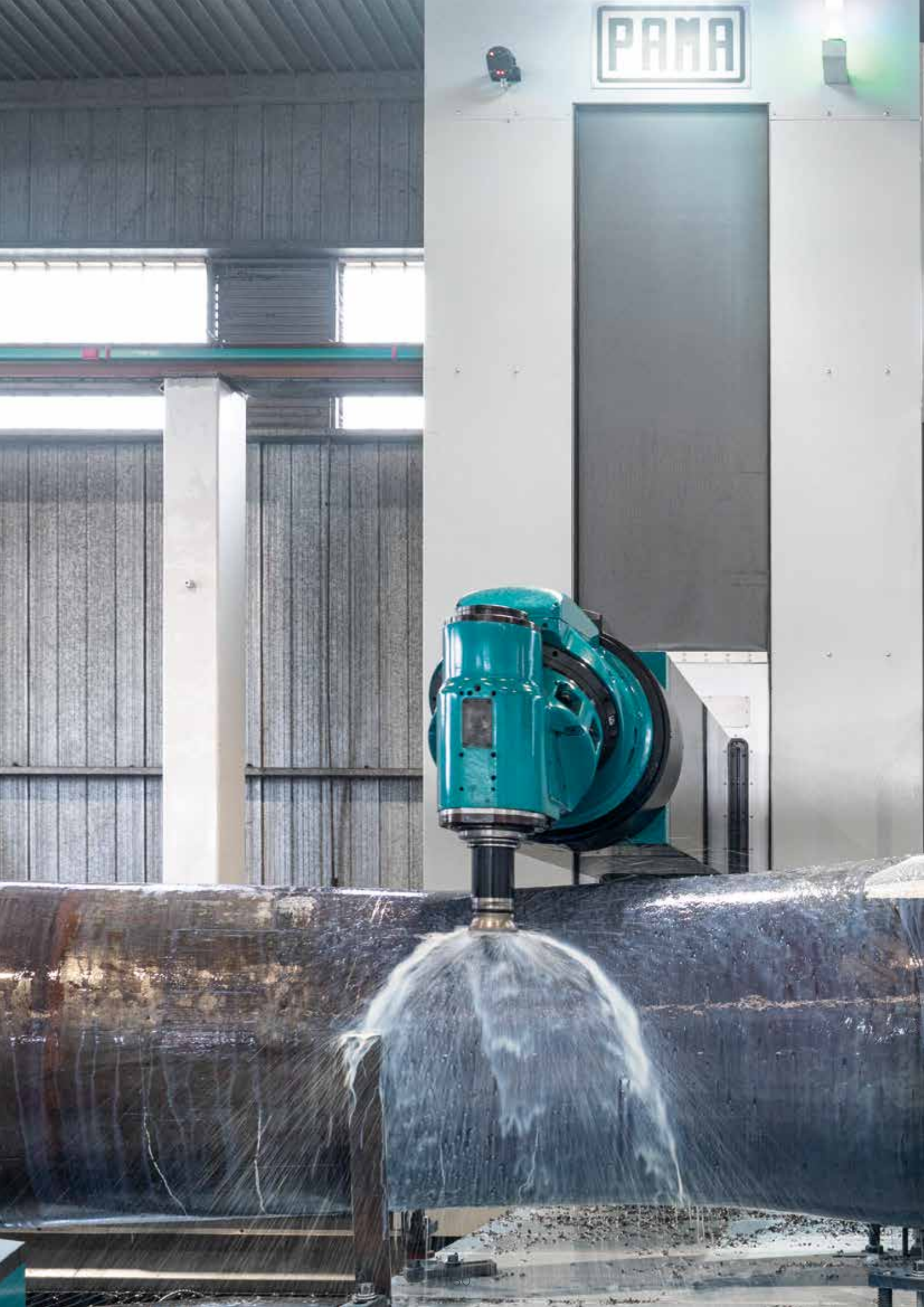
X axis (column)	mm	5000
	mm	+N x 1000
Y axis (headstock)	mm	2000 - 5000
Z axis (ram)	mm	1200 - 2000
W axis (boring spindle)	mm	600 - 1000
Z+W axes	mm	1800 - 3000

HEADSTOCK

Ram section	mm	430 x 430 - 500 x 500
Trasmission		Direct Drive
Boring spindle diameter	mm	120 - 160
Max. spindle speed	rpm	4000 - 5000
Max spindle power (S1)	kW	66 - 82
Max spindle torque (S1)	Nm	1175 - 2494

AXES FEED RATES

X,Y,Z,W axis rapid traverse / feed rate	m/min	up to 35


PAMA

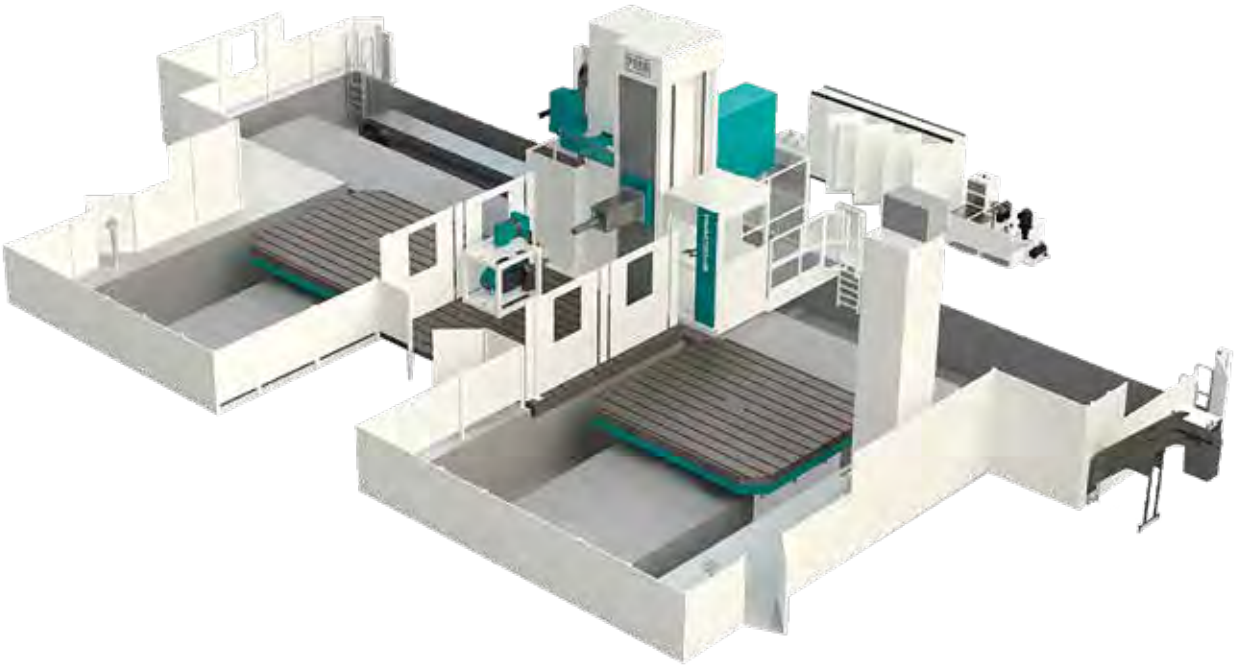

PEEDMILL
CARROPONTE
IN
MANOVRA

FLOOR TYPE BORING AND MILLING MACHINES

Speedram HP line is designed for high precision, power and structural rigidity, providing the perfect machining solution for the most demanding applications on all heavy, medium to large size components, requiring high material removal rate coupled to high precision and superior finishing even in hard-to-cut materials.

Speedram HP product range consists of 6 models of horizontal boring and milling machines with boring spindle diameter from 120 mm to 180 mm and vertical stroke from 2000 mm to 10000 mm.

SPEEDRAM HP



1000 HP
2000 HP
3000 HP
4000 HP
5000 HP
6000 HP

WORKING AREA

X axis (column)	mm	5000
	mm	+N x 1000
Y axis (headstock)	mm	2000 - 10000
Z axis (ram)	mm	1200 - 2500
W axis (boring spindle)	mm	600 - 1000
Z+W axes	mm	1800 - 3500

HEADSTOCK

Ram section	mm	430x430 - 600x600
Boring spindle diameter	mm	120 - 180
Max spindle power (S1)	kW	66 - 108
Max spindle torque (S1)	Nm	1175 - 3900
Max spindle speed	rpm	3000 - 5000
Transmission		Direct Drive

AXES FEED RATES

X-Y-Z-W axes rapid traverse / feed rate	m/min	up to 30

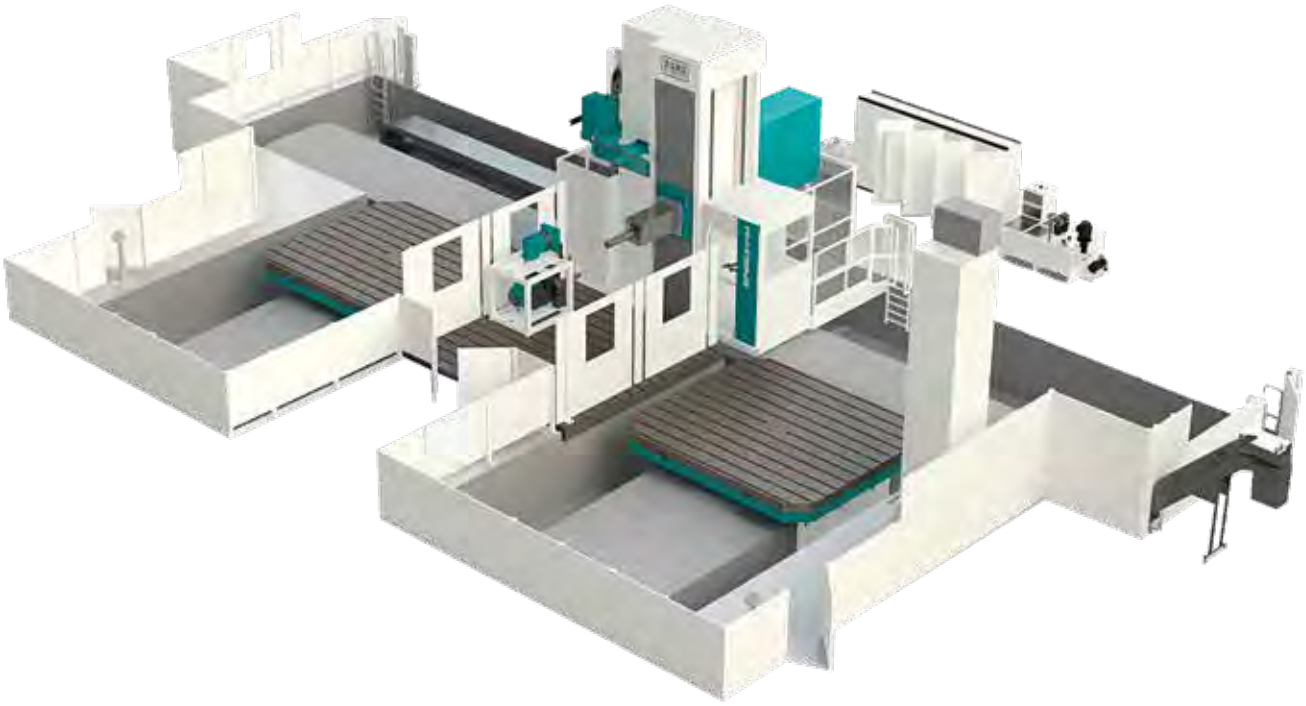

SPEEDRAM HP

FLOOR TYPE BORING AND MILLING MACHINES

Speedram line is designed for high precision, power and structural rigidity, providing the perfect machining solution for the most demanding applications on all heavy, medium to large size components, requiring high material removal rate coupled to high precision and superior finishing even in hard-to-cut materials.

Speedram product range consists of five models of horizontal boring and milling machines with boring spindle diameter from 130 mm to 300 mm and vertical stroke from 2000 mm to 10000 mm.

SPEEDRAM



1000 2000 3000 4000 5000

WORKING AREA

X axis (column)	mm	5000
	mm	+N x 1000
Y axis (headstock)	mm	2000 - 10000
Z axis (ram)	mm	1200 - 2000
W axis (boring spindle)	mm	800 - 1600
Z+W axes	mm	2000 - 3600

HEADSTOCK

Ram section	mm	430x430 - 600x600
Boring spindle diameter	mm	130 - 300
Max spindle power (S1)	kW	41 - 138
Max spindle torque (S1)	Nm	1389 - 18551
Max spindle speed	rpm	1500 - 4000
Spindle gear ranges		2 - 3

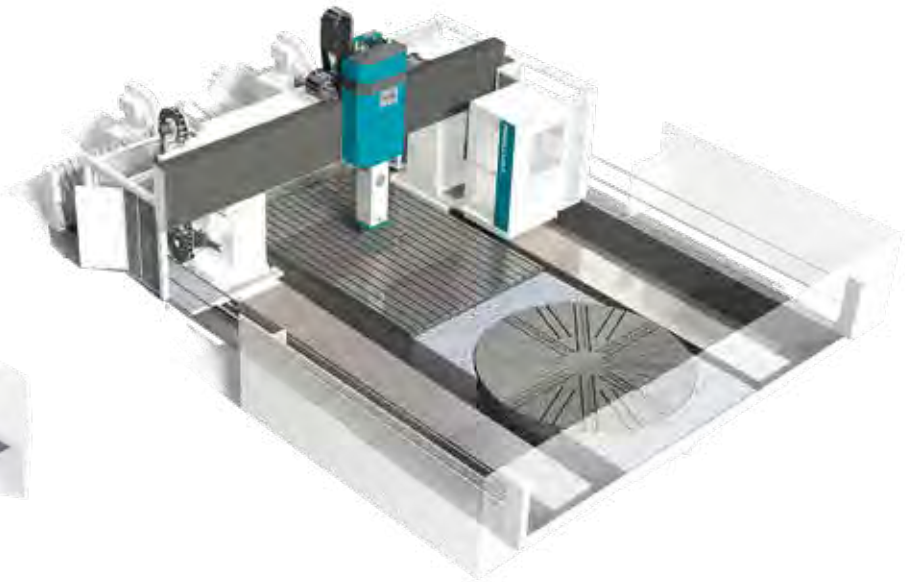
AXES FEED RATES

X-Y-Z-W axes rapid traverse / feed rate	m/min	up to 30


PAMA
SPEEDRAM

VERTICAL MACHINING CENTERS

VERTIRAM TT with turning table



VERTIRAM GT with floor plates and turning table

Vertiram 3000-4000 is designed to be the perfect solution for large or heavy components whose machining is best performed in the vertical spindle plane. An unlimited number of boring, milling and turning operations can be performed in single set-up configuration.

The Vertiram 3000-4000 range of portal machining centers is available in movable gantry type (GT) and movable table type (TT) models, both of which can be provided with fixed or movable crossrail and turning table options.

Wide range of clearance between the columns, from 3100 to 10100 mm. Clearance under spindle from 2500 to 6000 mm. Ram Z-axis stroke from 1500 to 4000 mm.

VERTIRAM 3000-4000

WORKING AREA

		3000 TT 4000 TT	3000 GT 4000 GT
Clearance between columns	mm	3100 - 5100	3100 - 10100
Clearance under spindle (AL200)	mm	2500 - 6000	2500 - 6000
X axis (table)	mm	5000 - 13000	
X axis (gantry)	mm		5000
	mm		+N x 1000
Y axis (headstock)	mm	4600 - 6600	4600 - 11600
Z axis (ram)	mm	1500 - 4000	1500 - 4000
V axis (cross-rail - option)	mm	1100 - 3600	1100 - 3600

TABLE

Table width	mm	2000 - 4000	
Table length	mm	4000 - 12000	
Loading capacity	t*	30 - 200	

FLOOR PLATES

Floor plates width	mm		2000 - 9000

HEADSTOCK

Ram section	mm	590 x 590	590 x 590
Max. spindle speed	rpm	4000	4000
Spindle transmission		Direct Drive / Gearbox	Direct Drive / Gearbox
Max spindle power (S1)	kW	90 - 103	90 - 103
Max spindle torque (S1)	Nm	3000 - 10730	3000 - 10730
C axis positions		720 x 0,5°	720 x 0,5°

AXES FEED RATES

X,Y,Z rapid traverse/feed rate	mm/min	up to 25000	up to 25000
V axis rapid traverse/feed rate	mm/min	3000	3000

GUIDEWAYS

Configuration		full hydrostatic	full hydrostatic

* t in metric ton


PAMA
VERTIRAM


VERTIRAM

VERTICAL MACHINING CENTERS

Vertiram 2000 is designed to be the perfect solution for large or heavy components whose machining is best performed in the vertical spindle plane. An unlimited number of boring, milling and turning operations can be performed in single set-up configuration.

The Vertiram 2000 range of portal machining centers is available in movable gantry type (GT) and movable table type (TT) models, both of which can be provided with fixed or movable crossrail and turning table options.

Wide range of clearance between the columns, from 2600 to 6100 mm. Clearance under ram face from 2350 to 3850 mm. Ram Z-axis stroke from 1600 to 2000 mm.

DSD DIRECT SPINDLE DRIVE

ATC AUTOMATIC THERMAL COMPENSATION

HCC HYDRAULIC CROSSRAIL COMPENSATION

		2000 - TT	2000 - GT
WORKING AREA			
Clearance between columns	mm	2600 - 4600	3100 - 6100
Clearance under ram face (AL200)	mm	2350 - 3850	2350 - 3850
X axis (gantry)	mm	-	5000
	mm	-	+N x 1000
X axis (table)	mm	5000 - 11000	-
Y axis (headstock)	mm	3600 - 5600	4100 - 7100
Z axis (ram)	mm	1600 / 2000	1600 / 2000
V axis (cross-rail - option)	mm	1100 - 2100	1100 - 2100
TABLE (FLOOR PLATES)			
Table width	mm	1500 - 3500	2000 - 5000
Table length	mm	4000 - 10000	-
Loading capacity	t*	15 - 50	-
AXES FEED RATES			
X,Y,Z, rapid traverse / feed rate	mm/min	up to 30000	up to 30000
V axis rapid traverse / feed rate	mm/min	4000	4000
GUIDEWAYS			
Configuration		roller/hydrostatic	roller/hydrostatic

* t in metric ton

VERTIRAM TT with turning table

VERTIRAM GT with floor plates and turning table

HEADSTOCK (ram without integrated C axis)

Ram section	mm	500 x 500
Spindle trasmission		Direct Drive / Gearbox
Max spindle power (S1)	kW	66 - 81
Max. spindle speed	rpm	4000 - 6000
Max spindle torque (S1)	Nm	1175 - 5810

HEADSTOCK (ram with continuos C axis)

Ram section	mm	500 x 500
Spindle trasmission		Direct Drive
Max spindle power (S1)	kW	66
Max. spindle speed	rpm	6000
Max spindle torque (S1)	Nm	1175
C axis continous		±200°
C axis speed	rpm	30
C axis continous torque	Nm	4500
C axis clamping force	Nm	10000

HEADSTOCK (ram with boring bar)

Ram section	mm	500 x 500
Spindle trasmission		Direct Drive
Boring bar diameter	mm	130 - 160
Max spindle power (S1)	kW	76 - 82
Max spindle speed	rpm	4000 - 5000
Max spindle torque (S1)	Nm	1743 - 2494
W axis (boring bar)	mm	800
W rapid traverse/feed rate	mm/min	up to 20000


PAMA

BORING AND MILLING CENTERS

Speedmat technology is the perfect solution for all the most demanding machining applications requiring precise boring.

the Speedmat series consists of four base models with:
boring spindle diameter of 130 or 160 mm
pallet sizes from 1250 x 1250 mm up to 2000 x 2500 mm
with maximum table load capacity from 10 to 25 t (metric ton)
maximum work piece swing diameter from 2600 to 4600 mm

SPEEDMAT

		2600/10	3000/10	3000/16	3800/16	3800/25	4600/25
WORKING AREA							
X axis (table)	mm			2600 - 5000			
Y axis (headstock)	mm			2000 - 3000			
Z axis (column)	mm			2300 - 2700			
W axis (boring spindle)	mm			800			
Max. swing diameter	mm			2600 - 4600			
TABLES							
Table sizes	mm			1400 x 1600 - 2000 x 2500			
Table capacity	t*			10 - 25			
Pallet size	mm			1250 x 1250 - 2000 x 2500			
Pallet capacity	t*			8 - 20			
AXIS FEEDS							
X axis rapid traverse/feed rate	m/min			20 - 25			
Y,Z,W rapid traverse/feed rate	m/min			25			
B axis feed rate/rapid traverse	rpm			3 - 5			
HEADSTOCK W130							
Boring spindle diameter	mm			130			
Max spindle speed	rpm			4000			
Spindle speed ranges				2			
Max spindle power (S1)	kW			37			
Max spindle torque (S1)	Nm			1530			
HEADSTOCK W150 / W160							
Boring spindle diameter	mm			150 / 160			
Max spindle speed	rpm			3500			
Spindle speed ranges				2			
Max spindle power (S1)	kW			52			
Max spindle torque (S1)	Nm			2396			

* t in metric ton


PAMA


SPEEDMAT
SPEEDMAT

HEAD ATTACHMENTS, AUTOMATIC ATTACHMENT CHANGERS, STEADY RESTS, TOOL MAGAZINES, ROTOTRAVERSING AND TURNING TABLES

HEAD ATTACHMENTS

the versatility of PAMA machines is further enhanced by the wide range of attachments available, all capable of being automatically loaded / unloaded for maximum efficiency

TL TW TU TS UT AL



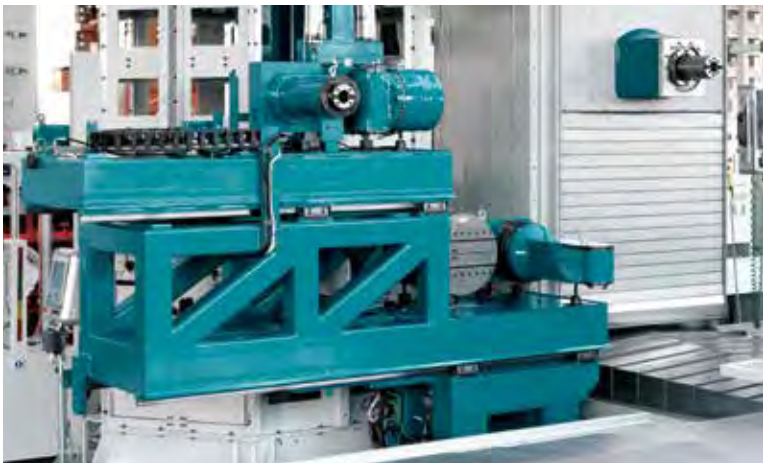


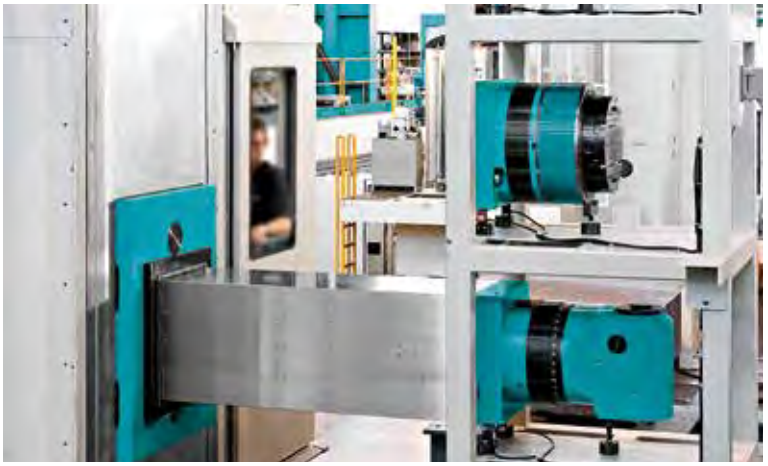






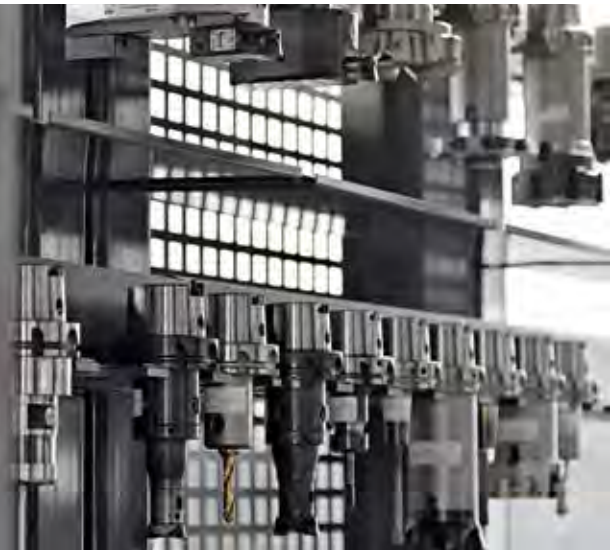

AUTOMATIC ATTACHMENT CHANGERS





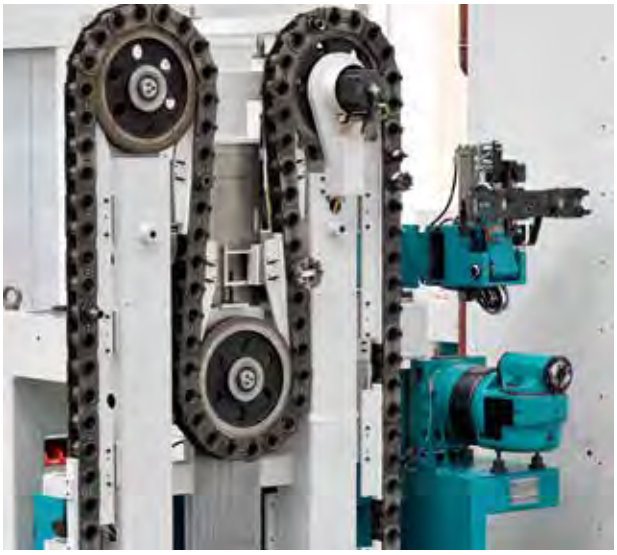
TRUNNIONS AND STEADY RESTS

AUTOMATIC TOOL CHANGERS



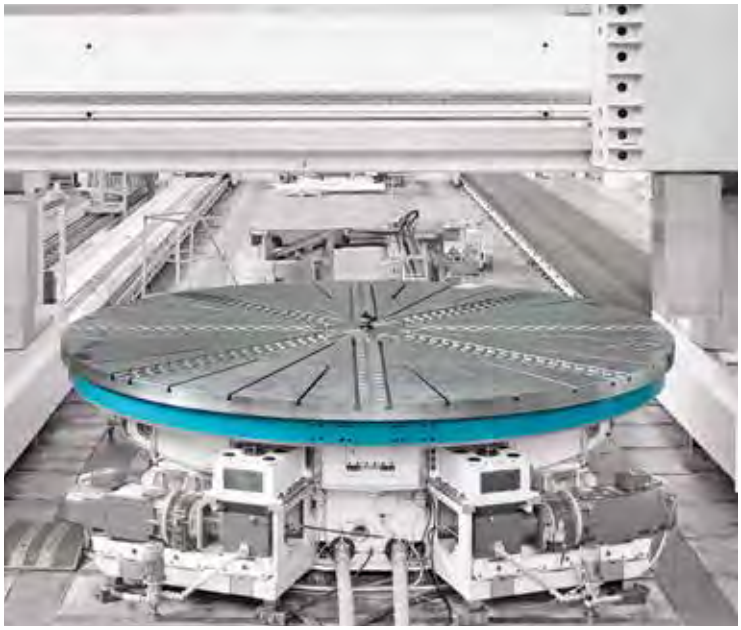



PAMA machines can be equipped with a variety of automatic tool change handling and tool storage solutions to fulfill any customer needs.
Other tooling options can include tool coding systems, tool length measurement and tool taper cleaning to further enhancement of the automation control.



ROTOTRAVERSING TABLES AND TURNING TABLES



PAMA produces a wide range of hydrostatic rototraversing tables naturally complementing the Speedram machines. Optimal integration of machines and tables is achieved thanks to the commonality of technology and solutions used

ROTOTRAVERSING TABLES

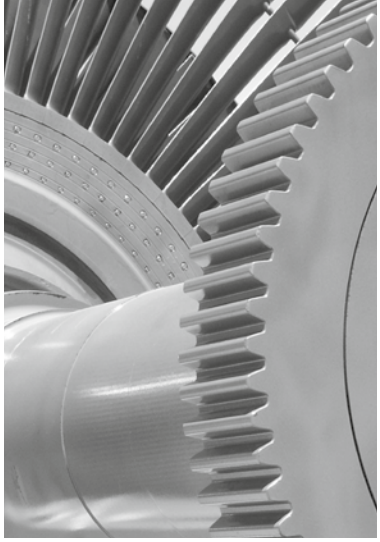
		TR10 TR16 TR25 TR35	TH 50 TH 65 TH 80 TH 100 TH 120 TH 160 TH 250 TH 300 TH 600
Lloading capacity	t*	10 - 35	50 - 600
Table surface - min.	mm	1250 x 1250 - 2000 x 2000	2000 x 2000 - 5000 x 6000
Table surface - max.	mm	1600 x 1600 - 2500 x 2500	3000 x 3000 - 5000 x 10000
V axis longitudinal travel	mm	1500 - 4000	1500 - 8000
V axis guideways		roller	hydrostatic
B axis axial bearing		hydrostatic	hydrostatic

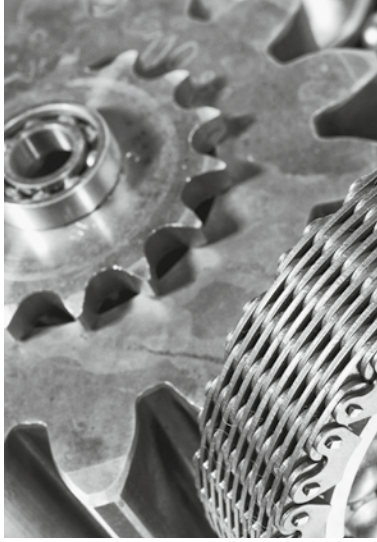
TURNING TABLES

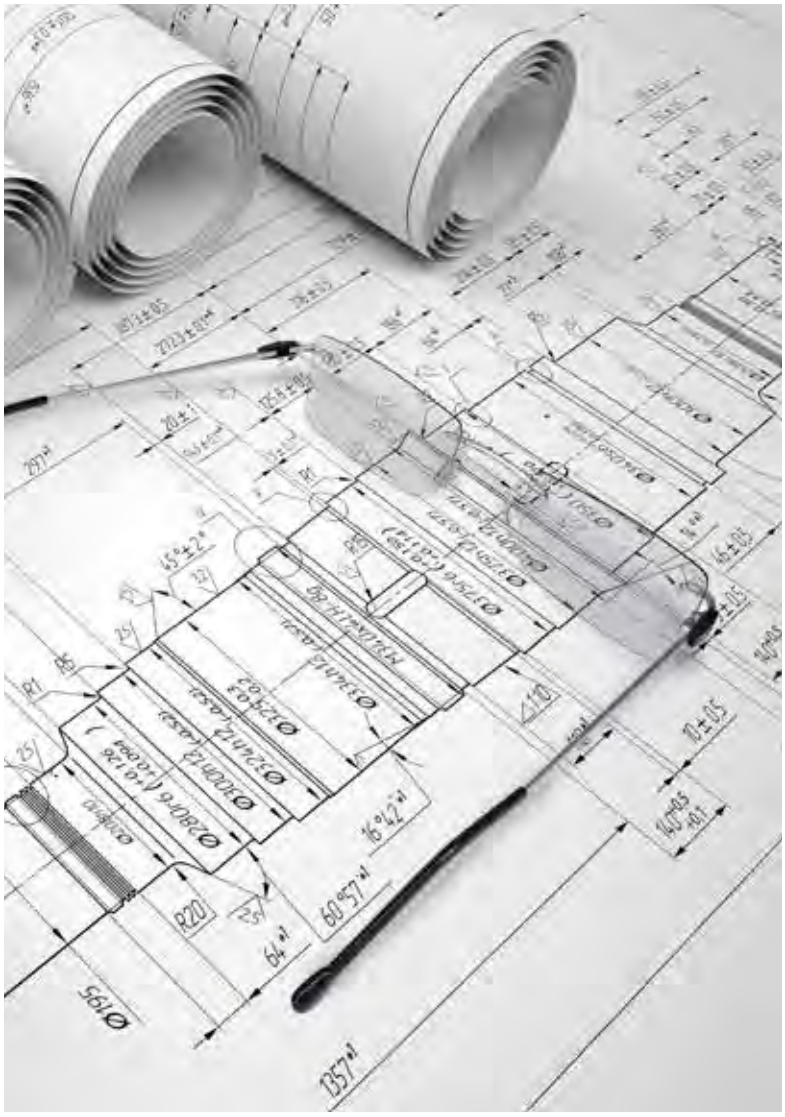
		TRT 4 TRT 6 TRT 10 TRT 15	TTH 30 TTH 60 TTH 100 TTH 150 TTH 200 TTH 300
Table diameter	mm	1250 - 2500	3000 - 8000
Max loading capacity	t*	4 - 15	30 - 300
Turning power	kW	50 - 62	66 - 186
Max turning speed	rpm	160 - 350	20 - 150
Max turning torque	Nm	5000 - 16000	30000 - 500000
Axial bearing		combined hydrostatic / roller	hydrostatic

* t in metric ton

PAMA
ACADEMY,
PAMA
TECHNOLOGY
CENTER,
APPLICATIONS,
CUSTOMER
SERVICE,
PR2 SUITE,
PAMA
MAINTENANCE
PROGRAM,
PAMA
GLOBAL
EFFICIENCY

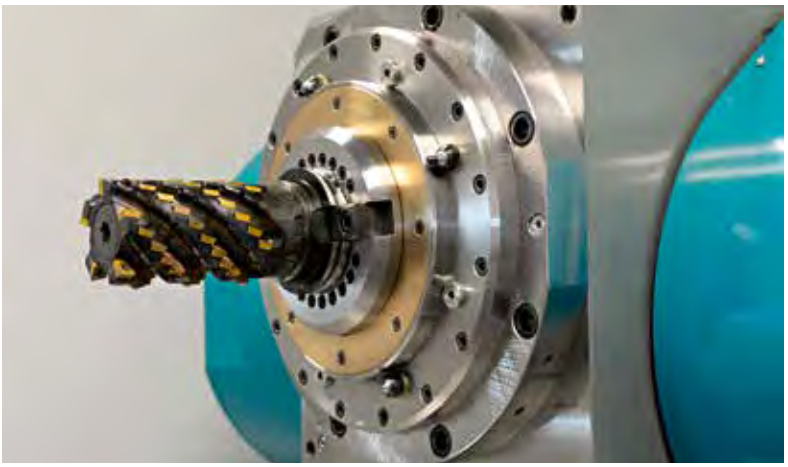




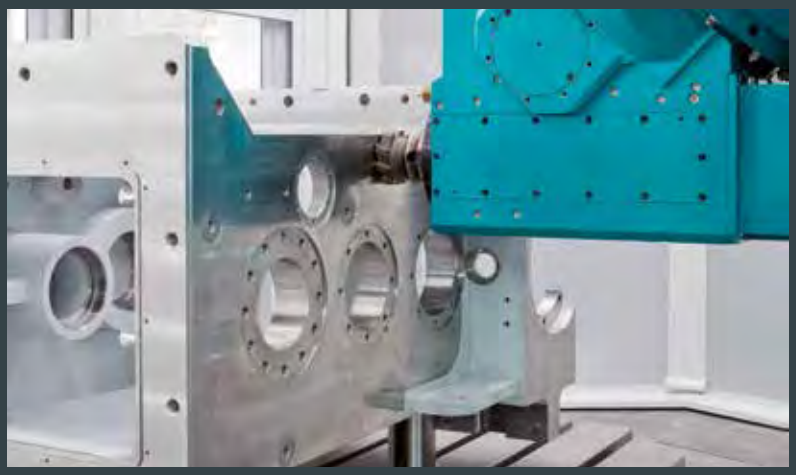





your solution



provider



APPLICATIONS






SPEEDRAM









PANA


SPEEDRAM

PANA







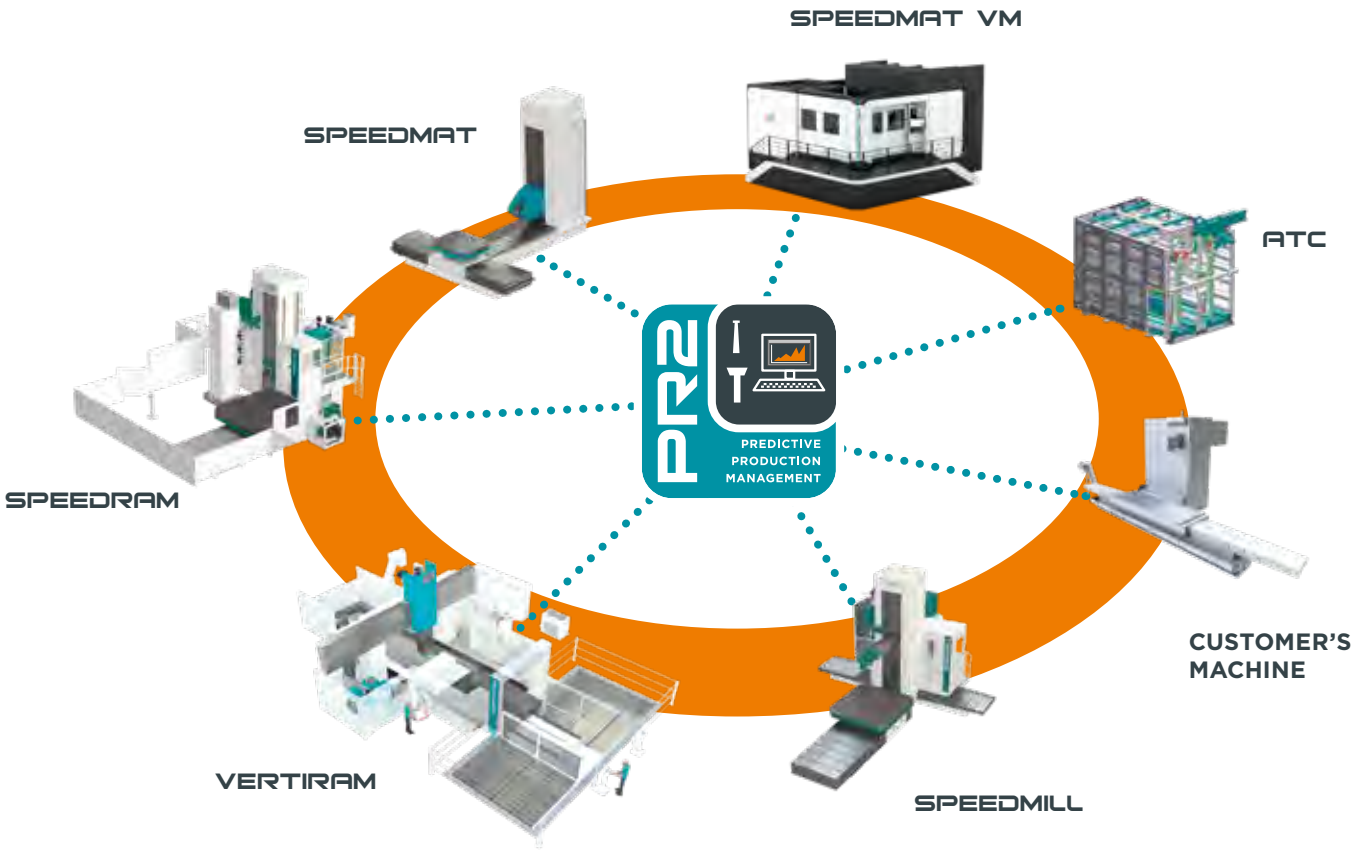


CUSTOMER SERVICE

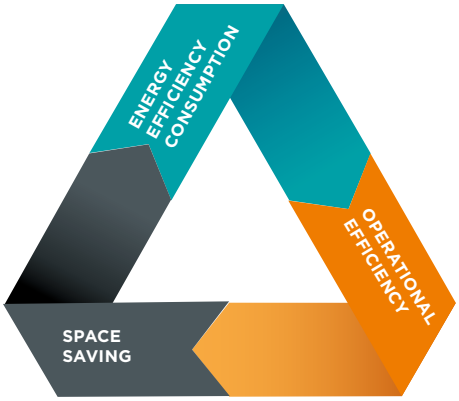
MAINTENANCE CONTRACTS,
HOT-LINE & REMOTE CONTROL,
PREVENTIVE CHECK-UP,
MACHINE CALIBRATION,
SPARE PARTS,
MACHINE RETROFITTING,
ASSEMBLY REPAIR AND SERVICE,
MACHINE TRANSFER

PR2 SUITE

multi-level, applications integrated software developed by PAMA, designed to bring our clients to a higher level of efficiency and profit, thanks to our intuitive user interface, management of the production units in real time with predictive approach in both manned or unmanned conditions.



energy saving: low friction guides, use of direct drive technology, regenerating drives, intelligent use of all auxiliary units



space saving: compact design, wide choice of tool changer, pallet changer and chip conveyors

operational efficiency: multitasking configuration, machine reliability, PMP, MSM machine sensor monitoring and predictive maintenance, PR2 SUITE to optimize efficiency

PMP PAMA MAINTENENCE PROGRAM

PGE PAMA GLOBAL EFFICIENCY

Grafiche Antiga spa
08/22

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