

XY LINEAR ROLLER GUIDEWAYS
with Z BOX WAY or Z LINEAR GUIDEWAY

PRL BRIDGE MILL

HIGH SPEED PRECISION

EFFICIENT AND FAST CUTTING

- ▶ **Precision** - Accuracy positioning: $\pm 0.0002''$
repeatability: $\pm 0.0001''$
- ▶ **Speed** - XYZ rapid feedrates up to 472 / 472 / 590 ipm
- ▶ **Capacity** - XY travels up to 402" x 138"



*Great for large to extra
large workpiece machining*

VIPER



ISO 9001:2008

*Exceptional
Repeatability
Accuracy*

PRL Series

2216

3223

4226

5230

PRL-2216 ~ 4216 • Y-axis = 1600 mm

HIGH SPEED. FAST AND PRECISE.

PRL Series is built for efficiency, featuring both high speed and accuracy. With a linear guideway design which can achieve a long service life with high accuracy, PRL Series is an excellent solution for both efficient machining and fast cutting.



PRL



2 x 1.4m - 4 x 1.7m



1.7m / 2.1m

Linear Guide Series

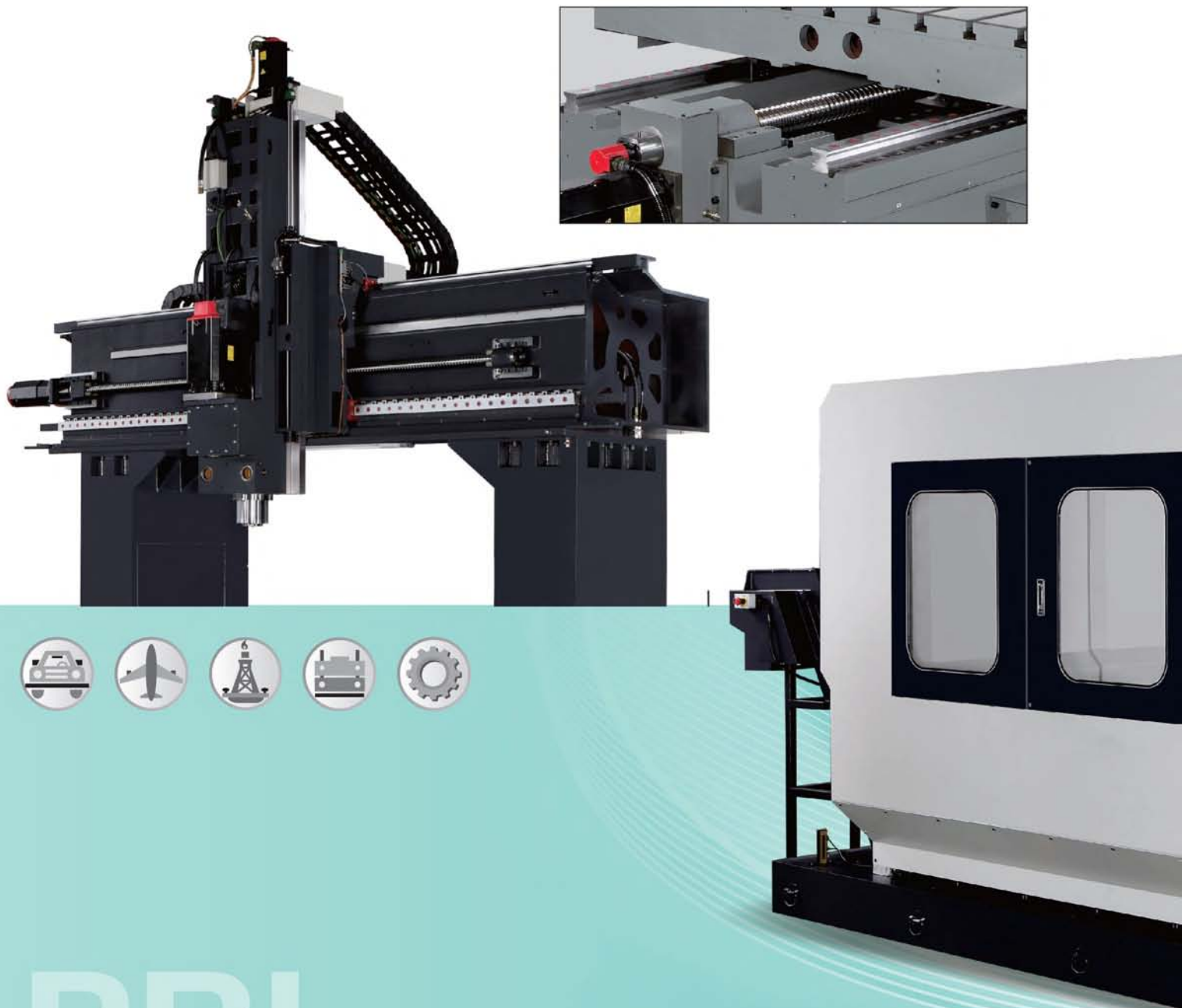


24 Tools optional

PRL-3223 ~ 6023 • Y-Axis = 2300 mm

GREAT PERFORMANCE.

Mighty Viper uses advanced design systems including FEA and 3D CAD modeling to design our machine. PRL Series is equipped with two sets of optimal R65 linear guideway in X and Y axis. It is not only reliable, but also represents high value and great performance.



PRL



3 x 2m - 6 x 2m



2.5m / 2.8m

Linear Guide Series

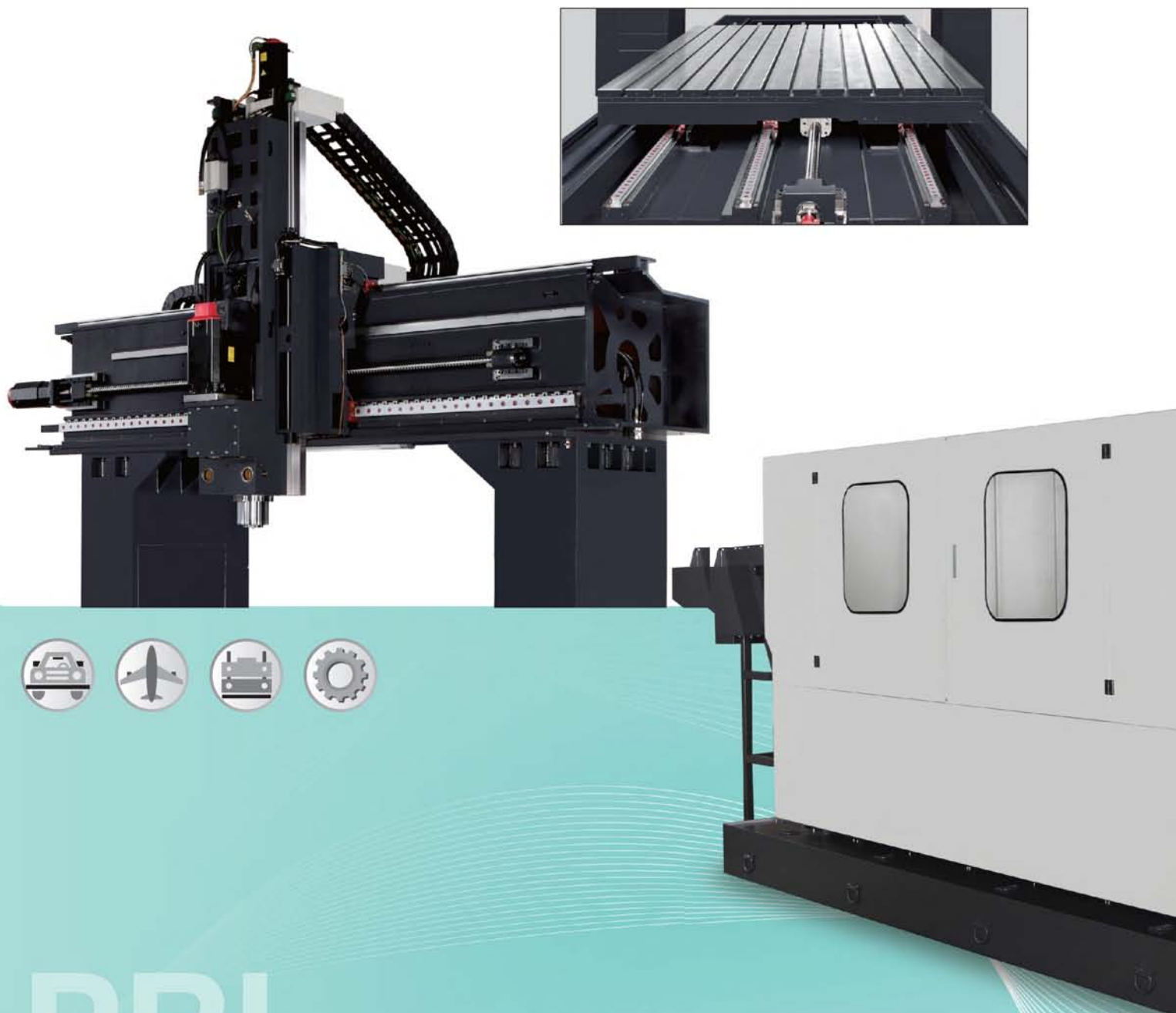


Fully enclosed splash guard with roof is optional

PRL-3226 ~ 10226 • Y-Axis = 2600 mm

STABLE IN ACCURACY. FLEXIBLE IN LENGTH.

PRL-3226 ~ 10226 base is equipped with three sets of R55 linear guide way, a wider working table and a prolonged X-travel up to 10,200mm. Our intention is to offer the customer another choice for medium to large size workpiece machining.



PRL

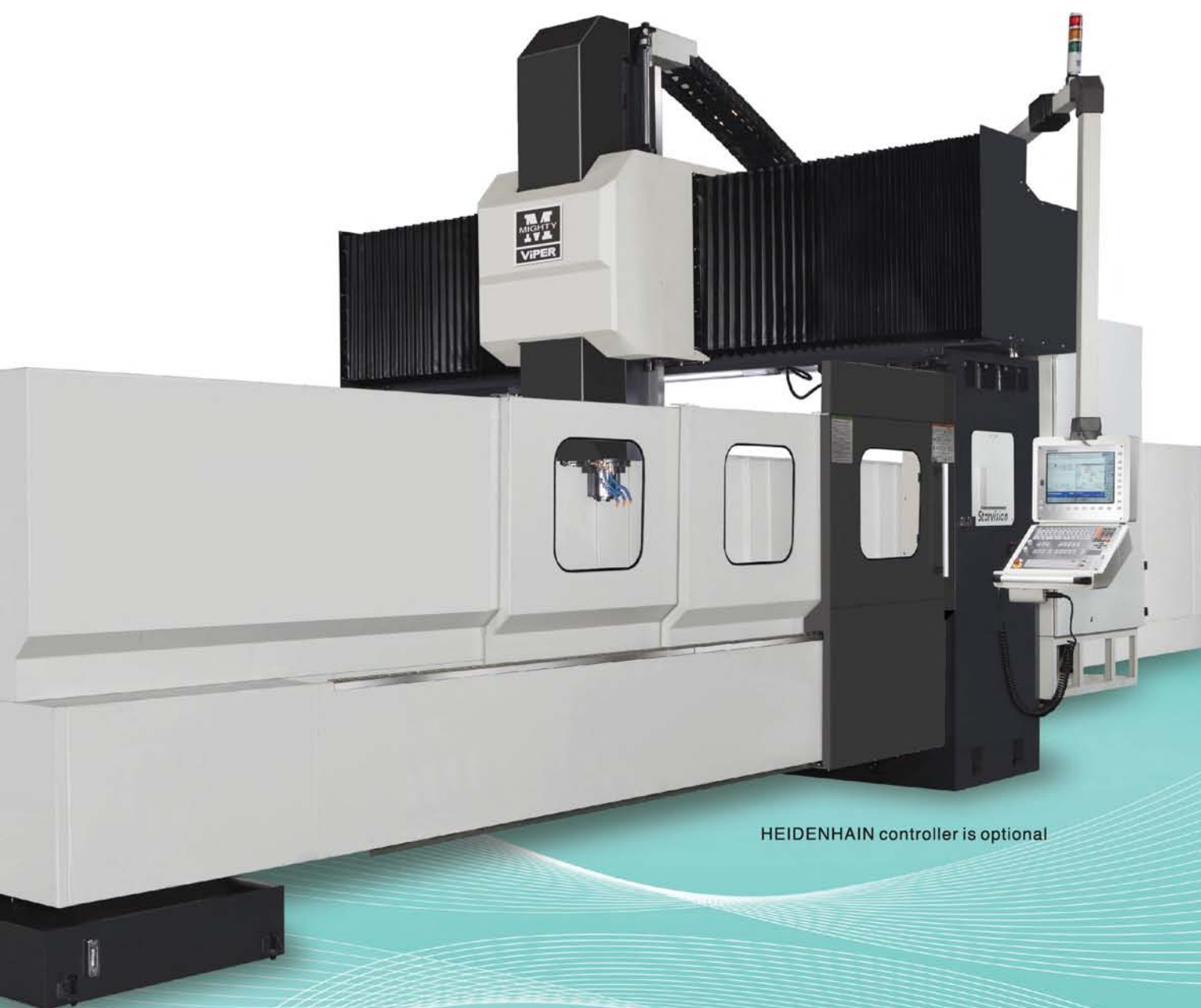


3 x 2.4m - 10 x 2.4m



2.8m

Linear Guide Series

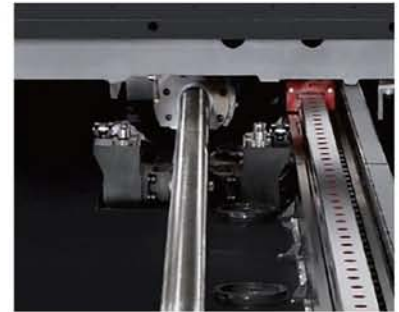


HEIDENHAIN controller is optional

PRL-4230 ~ 10230 • Y-Axis = 3000 mm

LARGE CAPACITY.

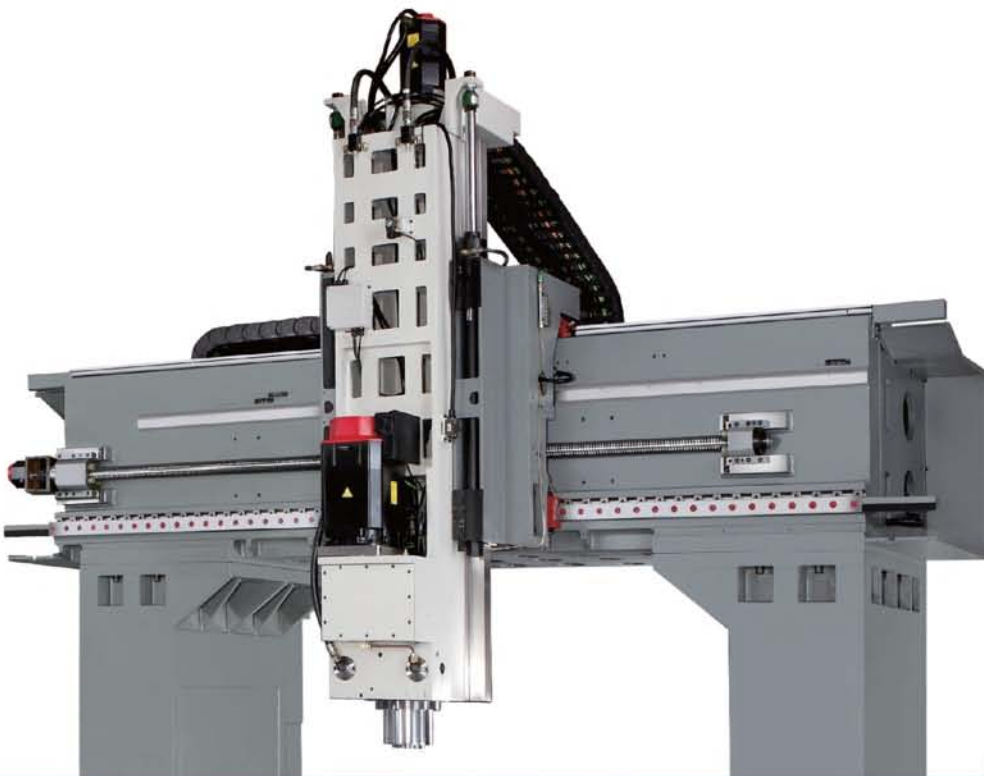
PRL-xx30 Series has a very rigid structure, with of R65 linear guideways on X-axis, ensuring a stable axial movement. It is an excellent choice for arge size workpiece machining and is suitable for all kinds of mold applications.



- Ball screw support unit for travel over 5m in X axis



- WITTENSTEIN alpha planetary gearhead represents stability and accuracy



PRL

Linear Guide Series



4 x 2.8m - 10 x 2.8m (3.5m opt.)



3.2m / 3.7m



Fully enclosed splash guard, AHS, V/H ATC, higher suspension type controller panel are optional

PRL-4235 ~ 10235 • Y-Axis = 3500 mm

EXTRA-LARGE CAPACITY. MORE OPTIONS. WIDER-RANGE OF APPLICATIONS.

PRL-xx35 Series has a very rigid structure, with **three sets** of R65 linear guideways on X-axis, ensuring a stable axial movement. It is your best choice for large to extra-large size workpiece machining and is suitable for all kinds of mold application.



PRL



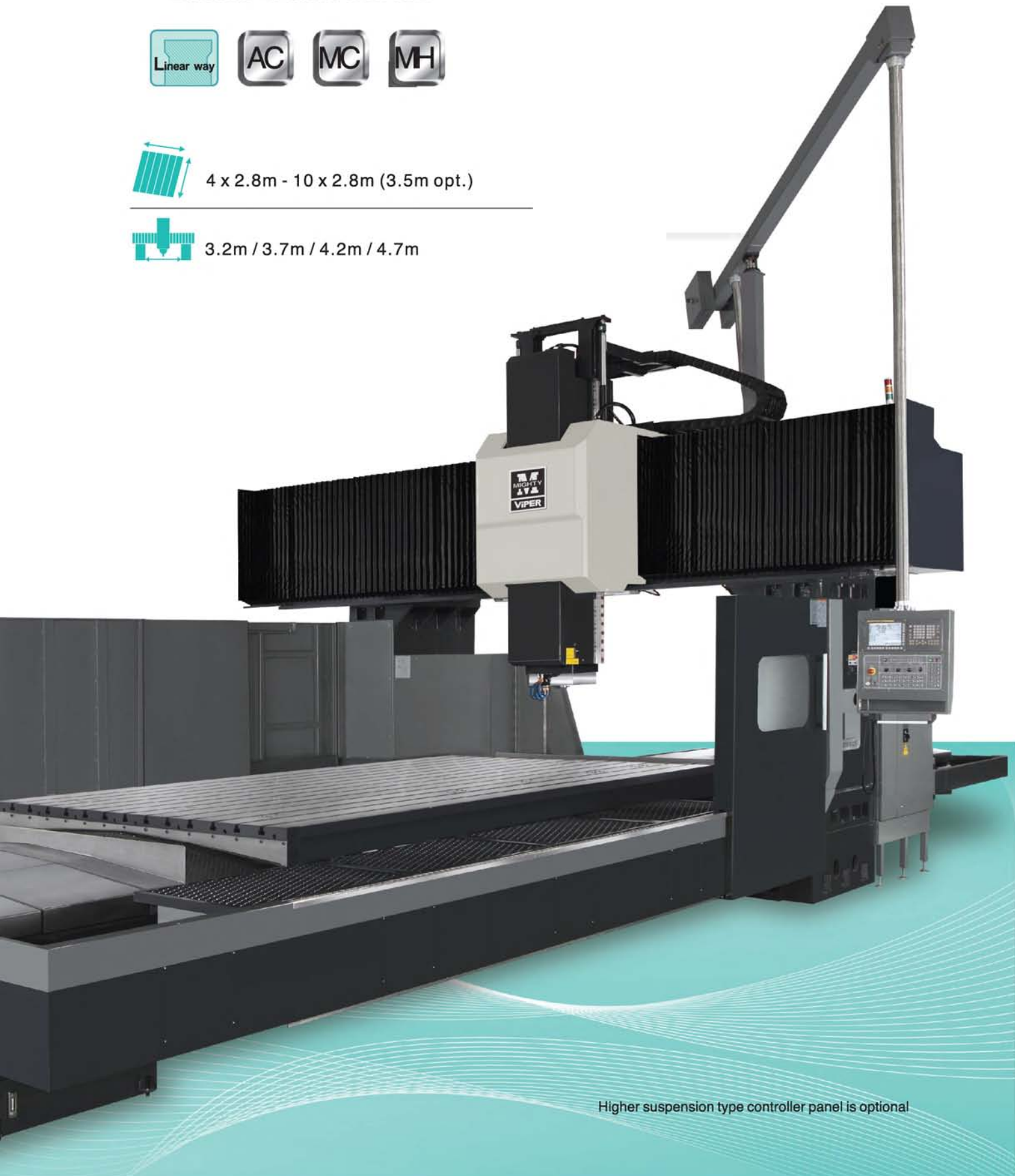
Linear Guide Series



4 x 2.8m - 10 x 2.8m (3.5m opt.)



3.2m / 3.7m / 4.2m / 4.7m

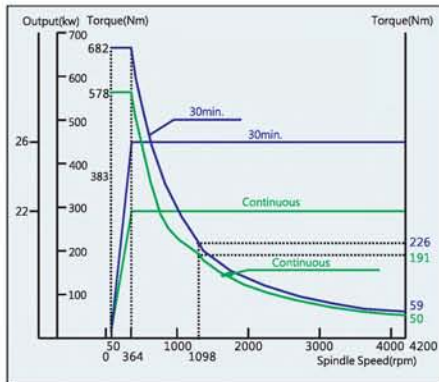


Higher suspension type controller panel is optional

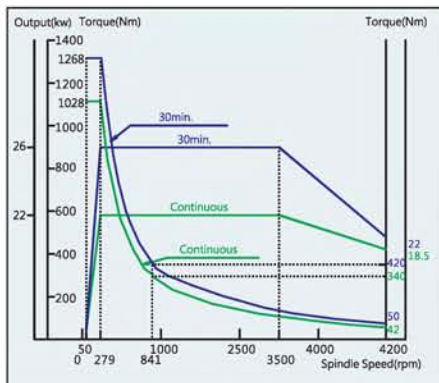
» Ballscrew Support

For X-travel over 5 meters (inclusive) and Y-travel over 3.5 meters (inclusive) machine, we will offer an extra ballscrew support for better support and to reduce the deformation. This device will also enhance the bearing life.

» Spindle Torque



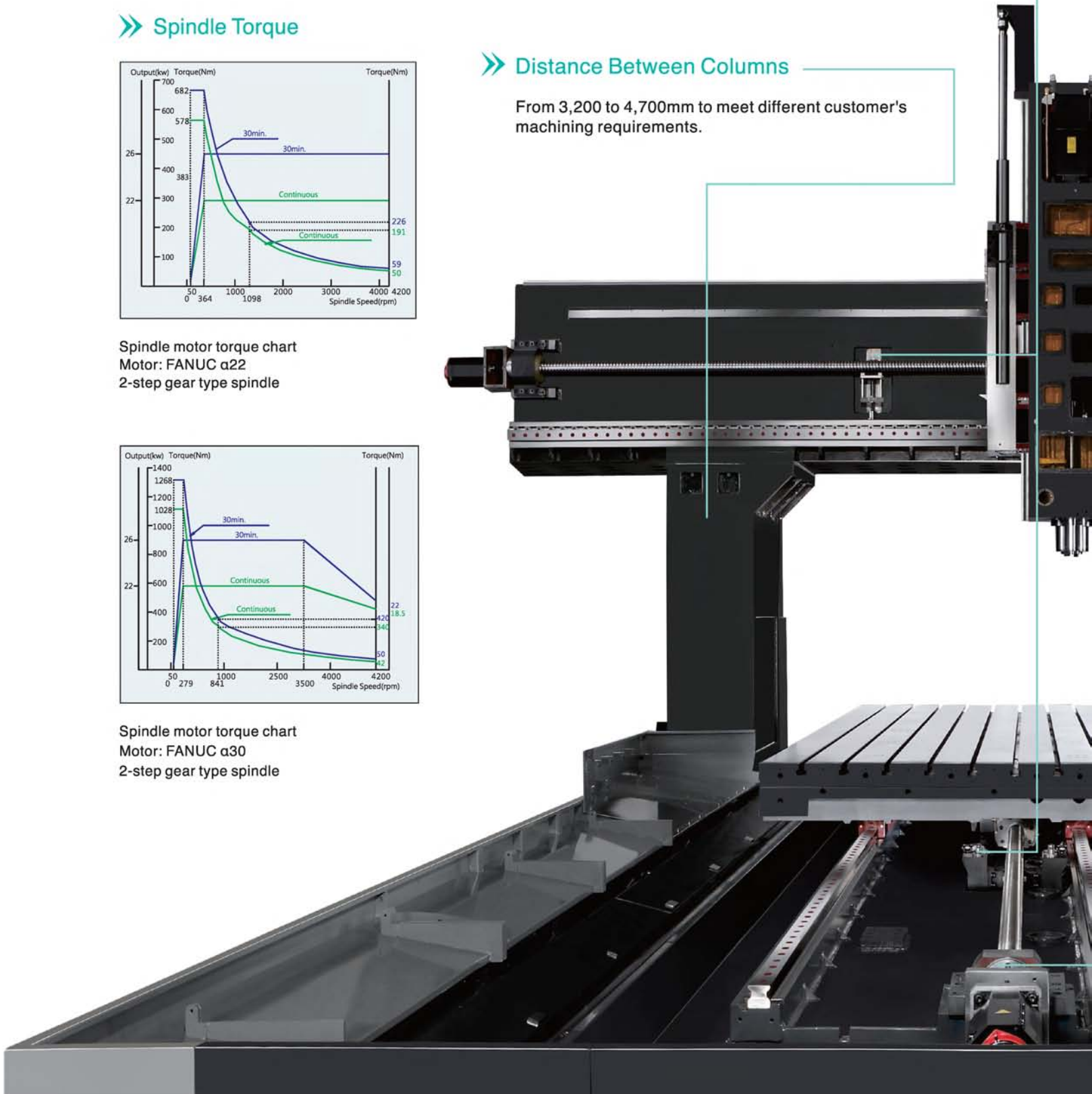
Spindle motor torque chart
Motor: FANUC α22
2-step gear type spindle



Spindle motor torque chart
Motor: FANUC α30
2-step gear type spindle

» Distance Between Columns

From 3,200 to 4,700mm to meet different customer's machining requirements.



Linear Guide Series

» Headstock

Box in box structure design with square type ribs inside which not only efficiently reduces the weight of headstock but also enhances the geometric and thermal stability of the machine, showing excellent machining rigidity. With an upper mounted spindle motor design, we can install a bigger motor to receive more powerful torque without worrying the possible machining interference.

- Headstock size: 500x500mm
- Standard 1,000mm Z-travel with 2x R65 roller type linear guide ways
- Optional 1,200/1,500mm Z-travel with 4x roller type linear guide ways (size R55 and R65)

» Linear Guideway

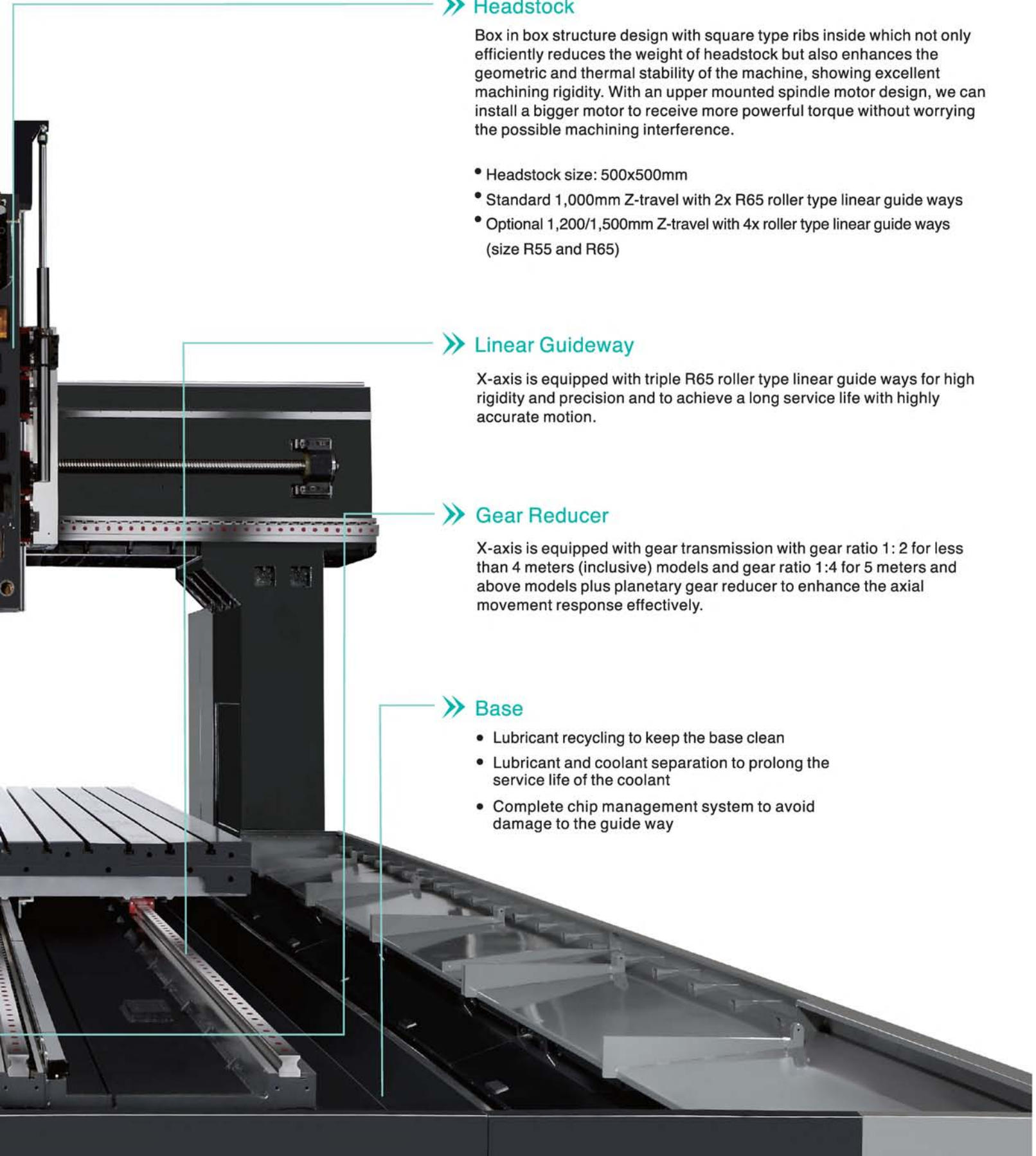
X-axis is equipped with triple R65 roller type linear guide ways for high rigidity and precision and to achieve a long service life with highly accurate motion.

» Gear Reducer

X-axis is equipped with gear transmission with gear ratio 1:2 for less than 4 meters (inclusive) models and gear ratio 1:4 for 5 meters and above models plus planetary gear reducer to enhance the axial movement response effectively.

» Base

- Lubricant recycling to keep the base clean
- Lubricant and coolant separation to prolong the service life of the coolant
- Complete chip management system to avoid damage to the guide way





High Precision Spindles

Various spindle motor selection, featuring high torque, low temperature-rise and long service life, meets different customers' machining requests.



Long nose

Gear drive spindle



Short nose

Gear drive spindle



Direct drive spindle BT 50



Direct drive spindle BT 40

(Big ceramic bearing)



2-step Gearbox

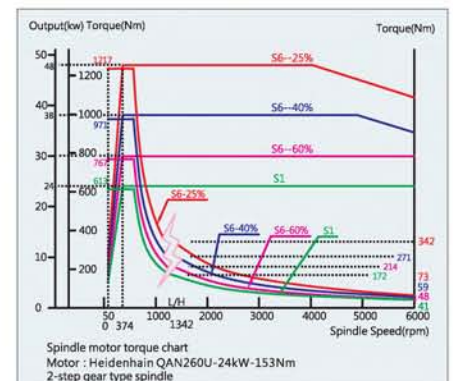
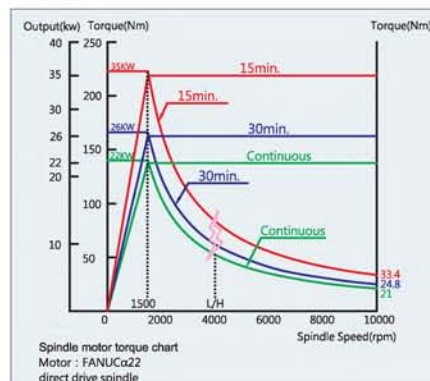
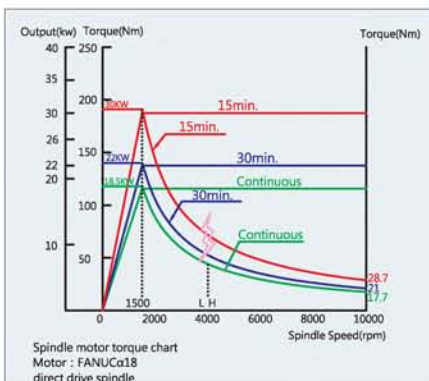
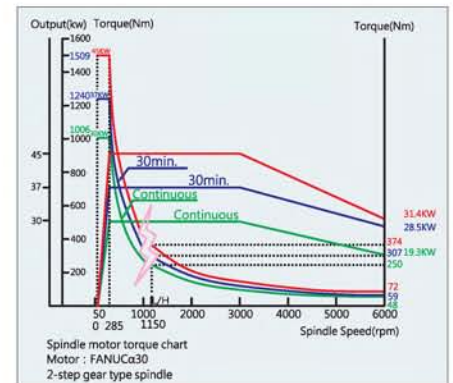
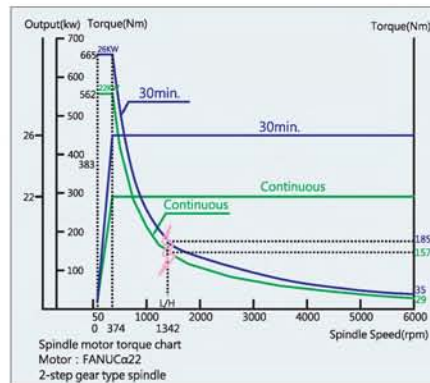
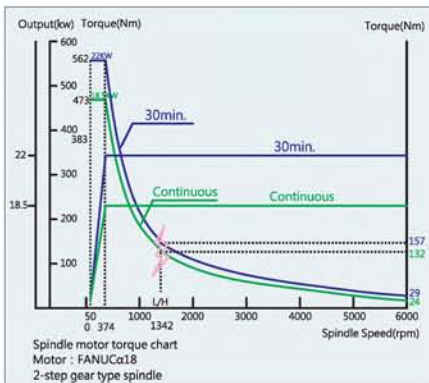
- Using made in Japan JIS Class 0 gears
- High efficiency power transmission
- Great torque output
- All the bearings, gears and spindle have forced lubrication system to ensure a smooth operation of the gearbox and to make sure a constant temperature at all times

Linear Guide Series



All New Headstock Design Offers Various Spindle Torques

Spindle Torque



VARIOUS MILLING HEADS

Automatic Clamping



AC



AC5
Automatic
90° Milling Head



AC300
Automatic Extended
Milling Head



AC2
Automatic 2-axis
Milling Head



Automatic Indexing & Manual Clamping



MC



MC5
Semi-automatic
90° Milling Head



MC2
Semi-automatic
2-axis Milling Head



Manual Head



MH



MHK2
Manual 2-axis
Milling Head
(8,000 rpm)



MH5
Manual 90 Degree
Milling Head



MH2
Manual 2-axis
Milling Head



MH300
Manual Extended
Milling Head



MH500
Manual Extended
Milling Head



MHB480
Manual Boring
and Milling Head

Splash Guard Selection



Semi Splash Guard



Fully Enclosed Splash Guard Without Roof



Fully Enclosed Splash Guard With Roof

Linear Guide Series



Testing Machine

We have this special testing machine to make sure every milling head you purchased is carefully assembled and fully tested at Starvision. Moreover, this machine is also participated in continuing development and improvement of our milling heads.

AC Series Milling Heads

With AHS Automatic head station, a fully automatic solution realizes optimum machining efficiency.

- AHS(H) - one head and one cover at operator side
- AHS(S) - multi heads and one cover at ATC side





Organized Electrical Cabinet

- Conforms to CE safety regulation.
- Fully enclosed design.
- Equipped with a heat exchanger to maintain stable temperature.
- Alarm message and self-diagnosis functions provide safety protection during operation and maintenance.



Convenient Quick Plug

- One step connection
- Easy maintenance
- Great protection



Energy Saving Z-Axis Balance System

Z-axis movement is counter-balanced by twin hydraulic cylinder and nitrogen accumulator. An bladder accumulator can equilibrate hydraulic pulsation caused pressure, such as hysteresis caused overcut. When abnormal power outage occurs, the Z-axis position can be secured. The whole system not only enhances the sensitivity of the Z-axis micro-movement, showing great flexibility and best dynamic stability, but also ensures the machine's optimal repeatability. In addition, it helps the energy saving up to 30%.

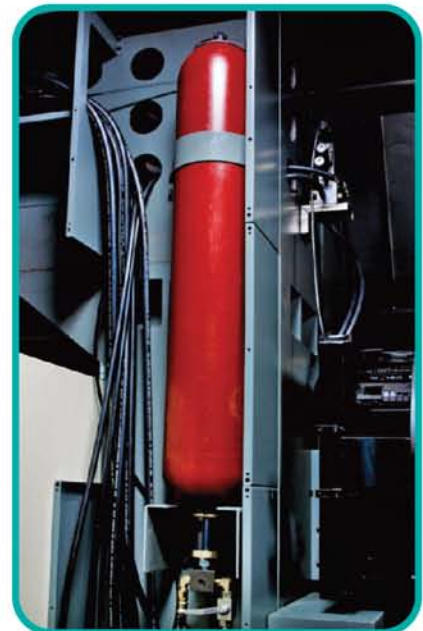
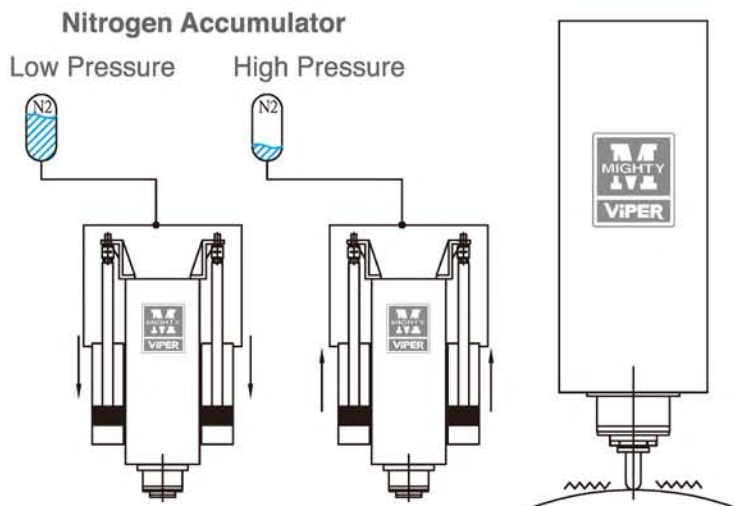
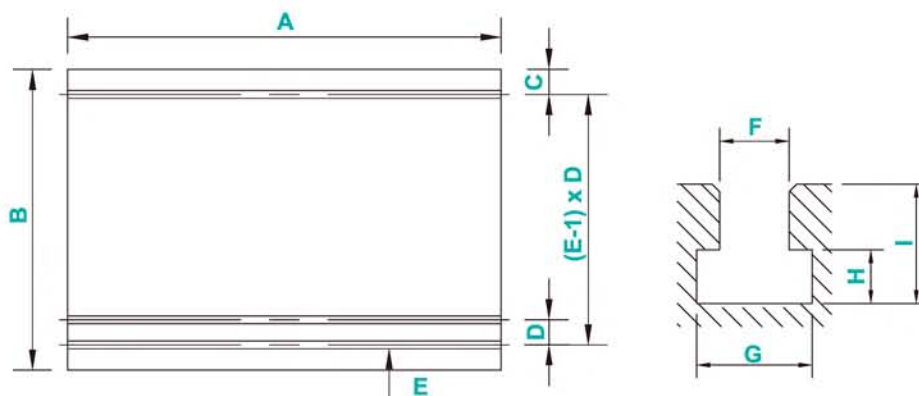


Table and T-Slot Dimensions

Work Table Size



Model	Unit	A	B	C	D	E	F	G	H	I
PRL-2216	mm	2,000	1,400	160	180	7	22H8	38	16	38
PRL-2716	mm	2,500	1,400	160	180	7	22H8	38	16	38
PRL-3216	mm	3,000	1,400	160	180	7	22H8	38	16	38
PRL-4216	mm	4,000	1,400	160	180	7	22H8	38	16	38
PRL-2220	mm	2,000	1,700	130	180	9	22H8	38	16	38
PRL-2720	mm	2,500	1,700	130	180	9	22H8	38	16	38
PRL-3220	mm	3,000	1,700	130	180	9	22H8	38	16	38
PRL-4220	mm	4,000	1,700	130	180	9	22H8	38	16	38
PRL-3223	mm	3,000	2,000	100	180	11	28H8	48	22	52
PRL-4223	mm	4,000	2,000	100	180	11	28H8	48	22	52
PRL-5223	mm	5,000	2,000	100	180	11	28H8	48	22	52
PRL-6023	mm	6,000	2,000	100	180	11	28H8	48	22	52
PRL-3226	mm	3,000	2,400	120	180	13	28H8	48	22	52
PRL-4226	mm	4,000	2,400	120	180	13	28H8	48	22	52
PRL-5226	mm	5,000	2,400	120	180	13	28H8	48	22	52
PRL-6226	mm	6,000	2,400	120	180	13	28H8	48	22	52
PRL-8226	mm	8,000	2,400	120	180	13	28H8	48	22	52
PRL-10226	mm	10,000	2,400	120	180	13	28H8	48	22	52
PRL-4230/35/40/45	mm	4,000	2,800	400	200	13	28H8	48	22	52
PRL-5230/35/40/45	mm	5,000	2,800	400	200	13	28H8	48	22	52
PRL-6230/35/40/45	mm	6,000	2,800	400	200	13	28H8	48	22	52
PRL-8230/35/40/45	mm	8,000	2,800	400	200	13	28H8	48	22	52
PRL-10230/35/40/45	mm	10,000	2,800	400	200	13	28H8	48	22	52

Machining Examples

Industry specific parts machining

Automotive Industry



Aerospace Industry



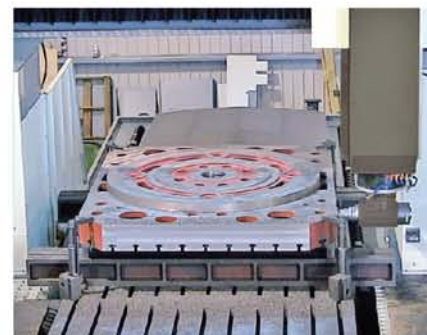
Electronics Industry



Mold Industry

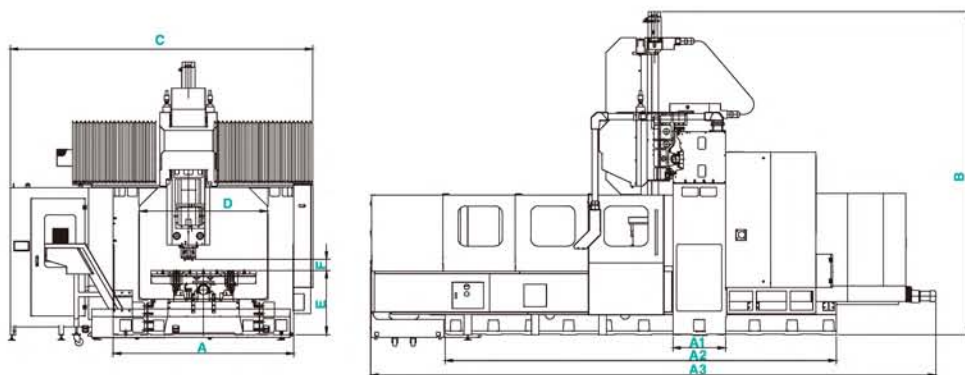


Industrial Machining



Machine Dimensions

PRL-xx16
PRL-xx20



Model	Unit	A	B	C	D	E	F	A1	A2	A3
PRL-2216	mm	2,400	4,700	4,100	1,700	850	150	700	4,200	6,700
PRL-2716	mm	2,400	4,700	4,100	1,700	850	150	700	5,200	7,700
PRL-3216	mm	2,400	4,700	4,100	1,700	850	150	700	6,200	8,700
PRL-4216	mm	2,400	4,700	4,100	1,700	850	150	700	8,200	10,700
PRL-2220	mm	2,800	4,700	4,500	2,100	850	150	700	4,200	6,700
PRL-2720	mm	2,800	4,700	4,500	2,100	850	150	700	5,200	7,700
PRL-3220	mm	2,800	4,700	4,500	2,100	850	150	700	6,200	8,700
PRL-4220	mm	2,800	4,700	4,500	2,100	850	150	700	8,200	10,700

Machine Specifications

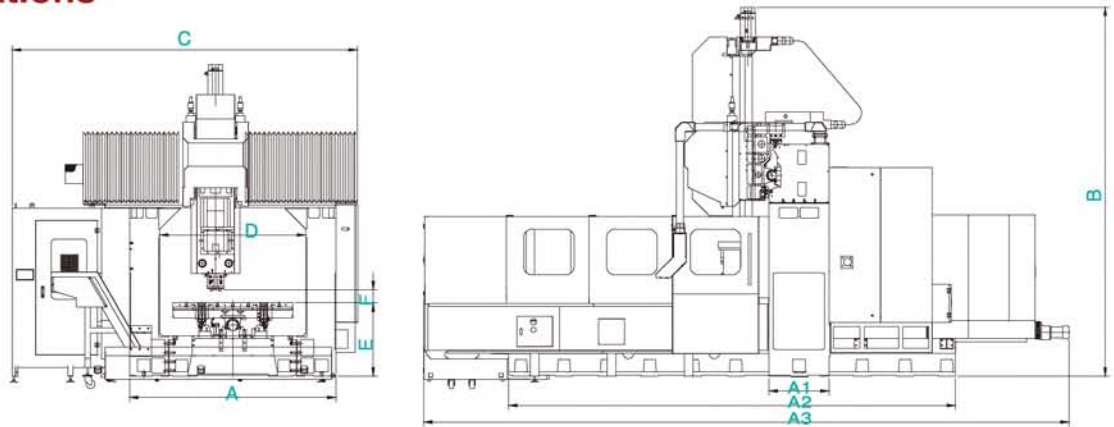
* All specifications are subjected to change without prior notice. * Approximate value

MODEL	Unit	PRL-2216/20	PRL-2716/20	PRL-3216/20	PRL-4216/20
Travel					
X axis	mm	2,200	2,700	3,200	4,200
Y axis	mm	1,600 / 2,000			
Z axis	mm	800 (1,000 opt.)			
Spindle nose to table	mm	150 - 950 (150 - 1,150 opt.)			
Distance between columns (max. workpiece width)	mm	1,700 (1,650) / 2,100 (2,050)			
Table					
Table dimensions (L)	mm	2,000	2,500	3,000	4,000
Table dimensions (W)	mm	1,400 / 1,700			
T-slot (width x number x pitch)	—	22 x 7 x 180 / 22 x 9 x 180			
Max. table load	kg	8,000	9,000	10,000	12,000
Spindle					
Spindle motor (cont. / 30 minute rated)	kW	18.5 / 22 (22 / 26 opt.)			
Spindle speed (gear box)	rpm	4,500 (6,000 opt.)			
Spindle taper		BT-50 / ISO-50 / CAT-50			
Feed					
Rapid feed-rate (X / Y / Z)	M/min	12 / 12 / 15 (24 / 24 / 15 opt.)			10 / 12 / 15 (18 / 24 / 15 opt.)
Cutting feed-rate	mm/min	7,000 (10,000 opt.)			
Accuracy					
Positioning accuracy	mm	±0.005 / 300 ; ±0.015 / full travel			
	mm	P0.03		P0.035	
Repeatability	mm	±0.003			Ps0.028
	mm	Ps0.025			
ATC					
Tool storage capacity	pcs	32T (24T / 40T / 60T opt.)			
Max. tool length	mm	350			
Max. tool weight	kg	20			
Tool size (full tools)	mm	Ø125			
Max. tool size (next pockets empty)	mm	Ø245			
Other					
Power consumption	kVA	65			
Compressed air	kg/cm²	6.5			
Machine weight (approx.)	tons	19 / 21	21 / 23	23 / 25	27 / 29
Machine floor space (L x W x H)*	M	8.4 x 5.1 (5.5) x 4.7	9.4 x 5.1 (5.5) x 4.7	10.4 x 5.1 (5.5) x 4.7	12.4 x 5.1 (5.5) x 4.7

Machine Specifications

Machine
Dimensions

PRL-xx23
PRL-xx26



MODEL	Unit	A	B	C	D	E	F	A1	A2	A3
PRL-3223	mm	3,500	5,400	5,500	2,500	950	150	1,000	6,200	8,700
PRL-4223	mm	3,500	5,400	5,500	2,500	950	150	1,000	8,200	11,300
PRL-5223	mm	3,500	5,400	5,500	2,500	950	150	1,000	10,200	13,100
PRL-6023	mm	3,500	5,400	5,500	2,500	950	150	1,000	11,200	15,000

MODEL	Unit	PRL-3223	PRL-4223	PRL-5223	PRL-6023
Travel					
X axis	mm	3,200	4,200	5,200	6,000
Y axis	mm	2,300 / 2,6			
Z axis	mm	1,000 (1,200 opt.)			
Spindle nose to table	mm	150 - 1,150 (150 - 1,350 opt.)			
Distance between columns (max. workpiece width)	mm	2,500 (2,450)			
Table					
Table dimensions (L)	mm	3,000	4,000	5,000	6,000
Table dimensions (W)	mm	2,000			
T-slot (width x number x pitch)	—	28 x 11 x 180			
Max. table load	kg	13,000	15,000	17,000	19,000
Spindle					
Spindle motor (cont. / 30 minute rated)	kW	18.5 / 22 (22 / 26 opt.)			
Spindle speed (gear box)	rpm	4,500 (6,000 opt.)			
Spindle taper	—	BT-50 / ISO-50 / CAT-50			
Feed					
Rapid feed-rate (X / Y / Z)	M/min	12 / 12 / 12	10 / 12 / 12		8 / 12 / 12
Cutting feed-rate	mm/min	7,000			
Accuracy					
Positioning accuracy	mm	±0.005 / 300 ; ±0.015 / full travel			
	mm	P0.035		P0.045	
Repeatability	mm	±0.003			Ps0.03
	mm	Ps0.028			
ATC					
Tool storage capacity	pcs	32T (24T / 40T / 60T / 90T opt.)			
Max. tool length	mm	350			
Max. tool weight	kg	20			
Tool size (full tools)	mm	Ø125			
Max. tool size (next pockets empty)	mm	Ø245			
Other					
Power consumption	kVA	65			
Compressed air	kg/cm²	6.5			
Machine weight (approx.)	tons	34	38	44	49
Machine floor space (L x W x H)*	M	10.4 x 6.5 x 5.4	13.0 x 6.5 x 5.4	14.8 x 6.5 x 5.4	16.7 x 6.5 x 5.4

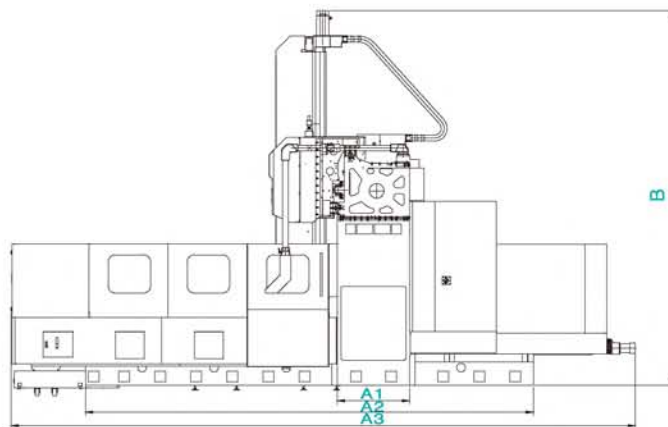
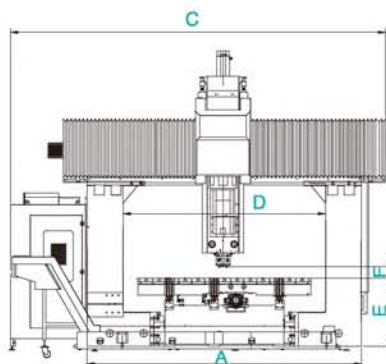
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Machine Specifications

Machine Dimensions

PRL-xx26

*Wider table
400mm larger
across Y-axis*



MODEL	Unit	A	B	C	D	E	F	A1	A2	A3
PRL-3226	mm	3,800	5,400	5,800	2,800	950	150	1,000	6,200	8,700
PRL-4226	mm	3,800	5,400	5,800	2,800	950	150	1,000	8,200	11,300
PRL-5226	mm	3,800	5,400	5,800	2,800	950	150	1,000	10,200	13,100
PRL-6226	mm	3,800	5,400	5,800	2,800	950	150	1,000	12,200	15,600
PRL-8226	mm	3,800	5,400	5,800	2,800	950	150	1,000	16,200	20,000
PRL-10226	mm	3,800	5,400	5,800	2,800	950	150	1,000	20,200	24,400

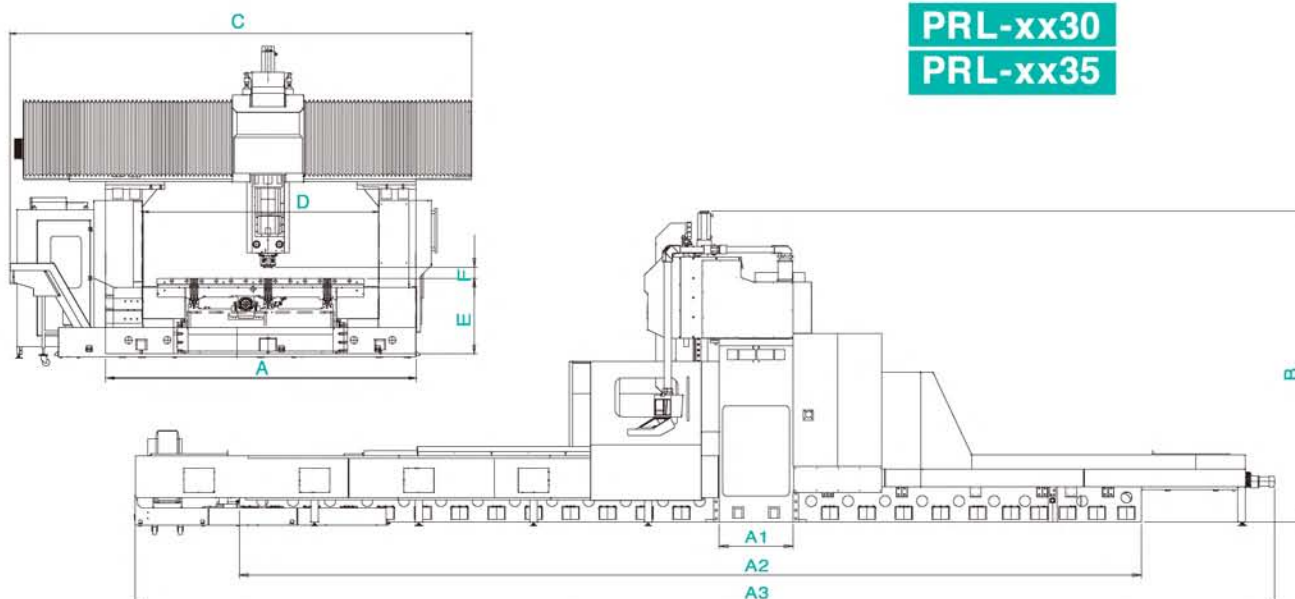
MODEL	Unit	PRL-3226	PRL-4226	PRL-5226	PRL-6226	PRL-8226	PRL-10226
Travel							
X axis	mm	3,200	4,200	5,200	6,200	8,200	10,200
Y axis	mm	2,600					
Z axis	mm	1,000 (1,200 opt.)					
Spindle nose to table	mm	150 - 1,150 (150 - 1,350 opt.)					
Distance between columns (max. workpiece width)	mm	2,800 (2,750)					
Table							
Table dimensions (L)	mm	3,000	4,000	5,000	6,000	8,000	10,000
Table dimensions (W)	mm	2,400					
T-slot (width x number x pitch)	—	28 x 13 x 180					
Max. table load	kg	11,000	13,000	15,000	17,000	21,000	25,000
Spindle							
Spindle motor (cont. / 30 minute rated)	kW	18.5 / 22 (22 / 26 opt.)					
Spindle speed (gear box)	rpm	4,500 (6,000 opt.)					
Spindle taper	—	BT-50 / ISO-50 / CAT-50					
Feed							
Rapid feed-rate (X / Y / Z)	M/min	15 / 15 / 12	12 / 15 / 12		8 / 12 / 12		
Cutting feed-rate	mm/min	7,000					
Accuracy							
Positioning accuracy	mm	±0.005 / 300 ; ±0.015 / full travel					
	mm	P0.035		P0.045			
Repeatability	mm	±0.003				Ps0.03	
	mm	Ps0.028					
ATC							
Tool storage capacity	pcs	32T (24T / 40T / 60T / 90T opt.)					
Max. tool length	mm	350					
Max. tool weight	kg	20					
Tool size (full tools)	mm	Ø125					
Max. tool size (next pockets empty)	mm	Ø245					
Other							
Power consumption	kVA	65					
Compressed air	kg/cm²	6.5					
Machine weight (approx.)	tons	38	42	48	53	63	83
Machine floor space (L x W x H)*	M	10.4 x 6.8 x 5.4	13.0 x 6.8 x 5.4	14.8 x 6.8 x 5.4	17.3 x 6.8 x 5.4	21.7 x 6.8 x 5.4	26.1 x 6.8 x 5.4

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Machine Specifications

Machine Dimensions

PRL-xx30
PRL-xx35



MODEL	Unit	PRL4230	PRL-5230	PRL-6230	PRL-8230	PRL-10230
Travel						
X axis	mm	4,200	5,200	6,200	8,200	10,200
Y axis	mm	3,000				
Z axis	mm	1,000 (1,200 opt.)				
Spindle nose to table	mm	150 - 1,150 (150 - 1,350 opt.)				
Distance between columns (max. workpiece width)	mm	3,200 (3,150) / 3,700 (3,650)				
Table						
Table dimensions (L)	mm	4,000	5,000	6,000	8,000	10,000
Table dimensions (W)	mm	2,800 (3,500 opt.)				
T-slot (width x number x pitch)	—	28 x 13 x 200 (28 x 17 x 200 opt.)				
Max. table load	kg	20,000	24,000	28,000	32,000	40,000
Spindle						
Spindle motor (cont. / 30 minute rated)	kW	18.5 / 22 (22 / 26 opt.)				
Spindle speed (gear box)	rpm	4,500 (6,000 opt.)				
Spindle taper	—	BT-50 / ISO-50 / CAT-50				
Feed						
Rapid feed-rate (X / Y / Z)	M/min	10 / 10 / 12		8 / 10 / 12		
Cutting feed-rate	mm/min	7,000				
Accuracy						
Positioning accuracy	mm	±0.005 / 300 ; ±0.015 / full travel				
	mm	P0.045				
Repeatability	mm	±0.003				
	mm	Ps0.03				
ATC						
Tool storage capacity	pcs	32T (40T / 60T / 90T opt.)				
Max. tool length	mm	350				
Max. tool weight	kg	20				
Tool size (full tools)	mm	Ø125				
Max. tool size (next pockets empty)	mm	Ø245				
Other						
Power consumption	kVA	65				
Compressed air	kg/cm²	6.5				
Machine weight (approx.)	tons	55 / 57	63 / 65	71 / 73	87 / 89	101 / 103
Machine floor space (L x W x H)*	M	13.8 x 7.3 (7.8) x 5.4	15.8 x 7.3 (7.8) x 5.4	17.3 x 7.3 (7.8) x 5.4	21.7 x 7.3 (7.8) x 5.4	26.1 x 7.3 (7.8) x 5.4

* All specification are subjected to change without prior notice.

Machine Specifications

Model	Unit	A	B	C	D	E	F	A1	A2	A3
PRL-4230	mm	4,300 / 4,800	5,400	6,300 / 6,800	3,200 / 3,700	1,020	150	1,000	8,200	12,100
PRL-5230	mm		5,400			1,020	150	1,000	10,200	14,100
PRL-6230	mm		5,400			1,020	150	1,000	12,200	15,600
PRL-8230	mm		5,400			1,020	150	1,000	16,200	20,000
PRL-10230	mm		5,400			1,020	150	1,000	20,200	24,400
PRL-4235	mm	4,300 (4,800 / 5,300 / 5,800)	5,400	6,300 (6,800 / 7,300 / 7,800)	3,200 (3,700 / 4,200 / 4,700)	1,020	150	1,100	8,200	12,100
PRL-5235	mm		5,400			1,020	150	1,100	10,200	14,100
PRL-6235	mm		5,400			1,020	150	1,100	12,200	15,600
PRL-8235	mm		5,400			1,020	150	1,100	16,200	20,000
PRL-10235	mm		5,400			1,020	150	1,100	20,200	24,400

MODEL	Unit	PRL-4235	PRL-5235	PRL-6235	PRL-8235	PRL-10235
Travel						
X axis	mm	4,200	5,200	6,200	8,200	10,200
Y axis	mm	3,500				
Z axis	mm	1,000 (1,200 / 1,500 opt.)				
Spindle nose to table	mm	150 - 1,150 (150 - 1,350 / 150 - 1,650 opt.)				
Distance between columns (max. workpiece width)	mm	3,200 (3,150) / 3,700 (3,650) / 4,200 (4,150) / 4,700 (4,650)				
Table						
Table dimensions (L)	mm	4,000	5,000	6,000	8,000	10,000
Table dimensions (W)	mm	2,800 (3,500 opt.)				
T-slot (width x number x pitch)	—	28 x 13 x 200 (28 x 17 x 200 opt.)				
Max. table load	kg	20,000	24,000	28,000	32,000	40,000
Spindle						
Spindle motor (cont. / 30 minute rated)	kW	22 / 26				
Spindle speed (gear box)	rpm	4,200				
Spindle taper	—	BT-50 / ISO-50 / CAT-50				
Feed						
Rapid feed-rate (X / Y / Z)	M/min	10 / 10 / 12		8 / 10 / 12		
Cutting feed-rate	mm/min	7,000			6,000	
Accuracy						
Positioning accuracy	mm	±0.005 / 300 ; ±0.015 / full travel				
	mm	P0.045				
Repeatability	mm	±0.003				
	mm	Ps0.03				
ATC						
Tool storage capacity	pcs	32T (40T / 60T / 90T opt.)				
Max. tool length	mm	350				
Max. tool weight	kg	20				
Tool size (full tools)	mm	Ø125				
Max. tool size (next pockets empty)	mm	Ø245				
Other						
Power consumption	kVA	65				
Compressed air	kg/cm²	6.5				
Machine weight (approx.)	tons	60 / 63 / 66 / 69	68 / 71 / 74 / 77	76 / 79 / 82 / 85	92 / 95 / 98 / 101	106 / 109 / 112 / 115
Machine floor space (L x W x H)*	M	13.8 x 7.3 (*) x 5.4	15.8 x 7.3 (*) x 5.4	17.3 x 7.3 (*) x 5.4	21.7 x 7.3 (*) x 5.4	26.1 x 7.3 (*) x 5.4

* All specification are subjected to change without prior notice. * Approximate value



ACCESSORY LIST

Category	Description	xx16	xx23	xx26	xx30	xx35
Controller	FANUC 0i-MF controller	●	●	●	●	●
	FANUC 31i-MB controller	○	○	○	○	○
	MITSUBISHI M70 controller	○	○	○	○	○
	SIEMENS 840D controller	○	○	○	○	○
	HEIDENHAIN TNC640 controller	○	○	○	○	○
Spindle	18.5/22 kW spindle motor	●	●	●	●	X
	22/26 kW spindle motor	○	○	○	○	●
	4,200 2-step gear drive spindle	X	X	X	X	●
	4,500 2-step gear drive spindle	●	●	●	●	X
	6,000 2-step gear drive spindle	○	○	○	○	X
	8,000/10,000rpm direct drive spindle	○	○	○	○	○
Z travel extension / higher column	Z travel 800 mm	●	X	X	X	X
	Z travel 1,000 mm	○	●	●	●	●
	Z travel 1,200 mm	X	○	○	○	○
	Z travel 1,500 mm	X	X	X	X	○
	100mm higher column (standard Z travel)	X	○	○	X	X
	200mm higher column (standard Z travel)	○	○	○	○	○
	300mm higher column (standard Z travel)	○	○	○	X	X
	400mm higher column (standard Z travel)	X	○	○	○	○
ATC	Automatic tool changer 32 tools	●	●	●	●	●
	Automatic tool changer 24 tools	○	○	○	X	X
	Automatic tool changer 40 / 60 tools	○	○	○	○	○
	Automatic tool changer 90 / 120 tools	X	○	○	○	○
Milling head function	Manual: 90° angular milling head / high-speed 2-axis head / 2-axis head / extend head / boring head	○	○	○	○	○
	Semi-automatic: 90° angular milling head / 2-axis head / extend head / boring head (Vertical / Horizontal ATC and AHS inapplicable)	○	○	○	○	○
	Automatic: 90° angular milling head / 2-axis head / extend head / boring head	X	○	○	○	○
	Vertical / Horizontal automatic tool changer (40 / 60 / 90 tools)	X	○	○	○	○
	Manual head station (Table type)	○	○	○	○	○
	Manual head station (Arm type)	○	○	○	○	○
	Automatic head station	X	○	○	○	○

Optional = ○ Standard = ● N/A = X Depending on the model = ★



ACCESSORY LIST

Category	Description	xx16	xx23	xx26	xx30	xx35
Splash guard	Semi splash guard	☉	☉	★	●	●
	Fully enclosed splash guard (roof excluded)	●	●	★	☉	☉
	Fully enclosed splash guard (roof included)	☉	☉	★	X	X
Mechanical	X / Y / Z axes absolute pulse coder	●	●	●	●	●
	Rigid tapping	●	●	●	●	●
	Twin hydraulic cylinders	●	●	●	●	●
	Nitrogen balancing system	●	●	●	●	●
	Automatic lubrication system	●	●	●	●	●
	Spindle oil cooler	●	●	●	●	●
	Air blast through spindle	●	●	●	●	●
	Manual pulse generator	●	●	●	●	●
	Working lamp	●	●	●	●	●
	3-color alarm lamp	●	●	●	●	●
	RS-232 interface	●	●	●	●	●
	Heat exchanger for electrical cabinet	●	●	●	●	●
	Water gun and air gun interface	●	●	●	●	●
	Cutting coolant unit	●	●	●	●	●
	Twin auger chip removal system	●	●	●	●	●
	Belt type chip conveyor with cart	●	●	●	●	●
	Sub-table	☉	☉	☉	☉	☉
	3 axes manual pulse generator for mold processing	☉	☉	☉	☉	☉
	Coolant through spindle at 20 / 40 / 70 bar	☉	☉	☉	☉	☉
	Coolant through tool holder interface	☉	☉	☉	☉	☉
	Air conditioner for electrical cabinet	☉	☉	☉	☉	☉
	Oil skimmer	☉	☉	☉	☉	☉
	Transformer	☉	☉	☉	☉	☉
	Oil mist device	☉	☉	☉	☉	☉
Measurement	HEIDENHAIN linear scale	☉	☉	☉	☉	☉
	Automatic tool measuring system	☉	☉	☉	☉	☉
	Automatic work piece measuring system	☉	☉	☉	☉	☉
4th axis function	CNC rotary table	☉	☉	☉	☉	☉
	4th axis preparation	☉	☉	☉	☉	☉
Others	Leveling bolts & blocks	●	●	●	●	●
	Tool box	●	●	●	●	●
	CE norm	☉	☉	☉	☉	☉

MIGHTY VIPER

Over 45 years, **Mighty Viper** has sold more than 25,000 machines nationwide, resulting in a world of satisfied customers and a wealth of feedback that has added to our arsenal of experience and fine craftsmanship. In keeping with our commitment to provide only the highest quality machining centers, every available resource is utilized to maintain a state-of-the art manufacturing process and to continue the delivery of cutting edge technologies.

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