HYUNDAI WIA

MACHINE TOOLS

LINE-UP

HYUNDAI WIA

Advanced Production

Amazing Crystallizations From Precision Machine Technology

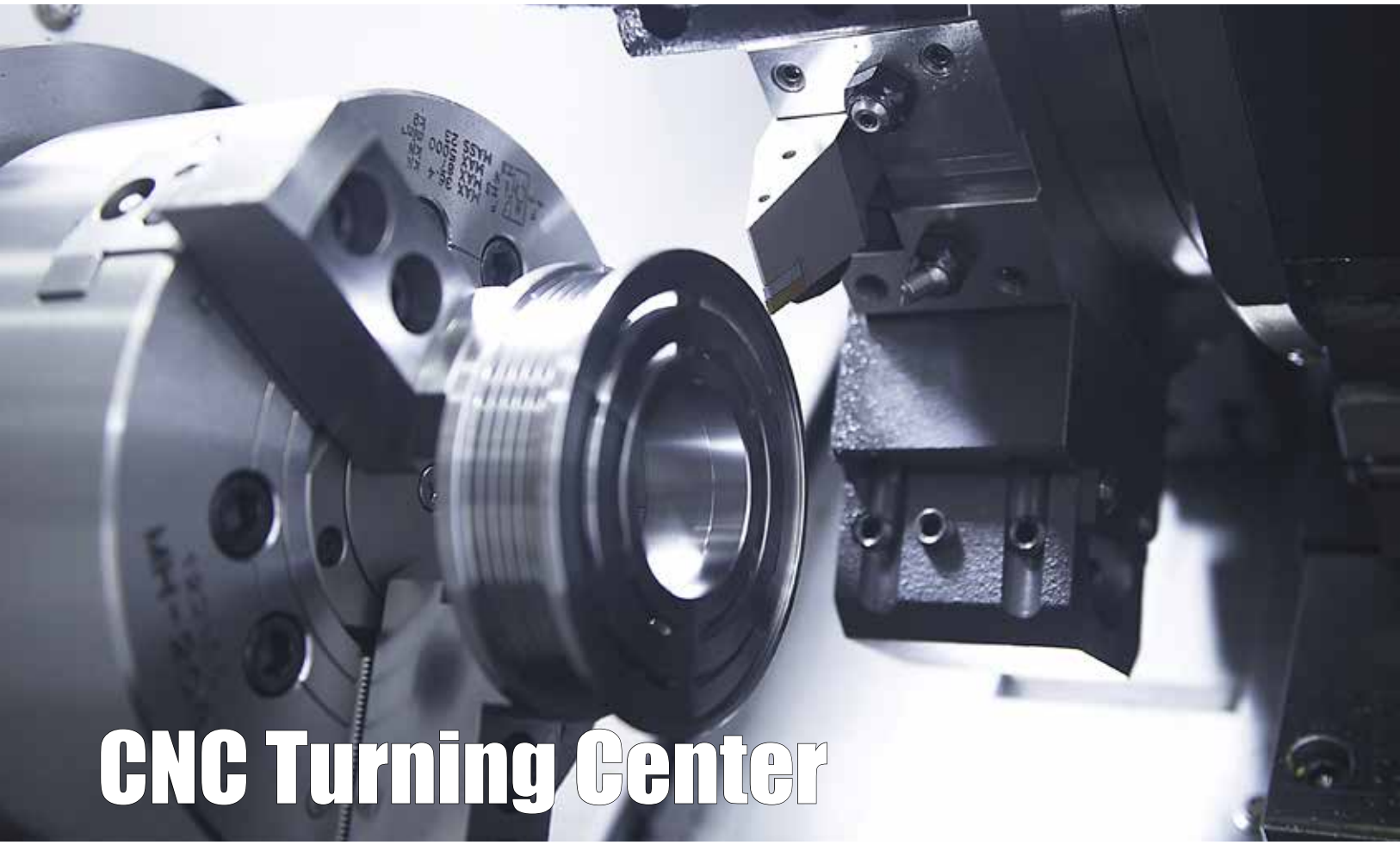
Machine tools are dubbed into core of the machine tools industry.

HYUNDAI WIA has been laying accent on the machine tools manufacturing sector since the early days of its management, especially to cope with the arrival of the age of unattended plant operation.

HYUNDAI WIA's machine tools are the crystals of secret efforts poured on the whole process of production and distribution, covering from self-reliant designing to manufacturing and after service.

HYUNDAI WIA's products are well received not only in the country but also overseas markets with a worldwide network of over 80 dealerships. The products faithfully reflect the conviction of hyundai wia's dreams of an earlier realization of factory automation via harmony between human being and machines.

Machine Tools Line-up



CNC Turning Center

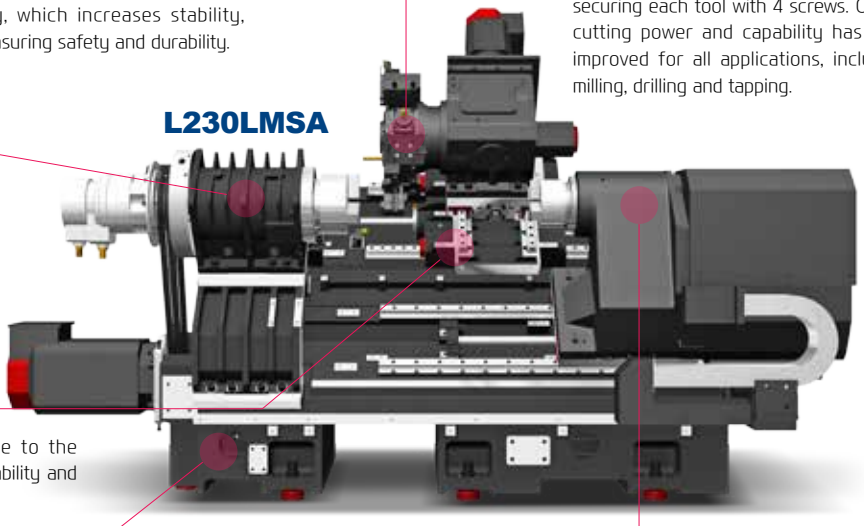
Spindle

The main spindle is designed with a large diameter outer bearing assembly, which increases stability, power and speed while ensuring safety and durability.

BMT Turret

Latest generation BMT turret increases tool performance and rigidity by securing each tool with 4 screws. Overall cutting power and capability has been improved for all applications, including; milling, drilling and tapping.

L230LMSA



Pre-tensioned & Double Anchored Ball Screw

All axis are driven by large diameter, high precision double-nut ball screws. The double pretension design provides outstanding positioning and repeatability with virtually no thermal growth.

Roller Type LM Guide

Roller type guideways offer improved rigidity due to the increased surface contact with the guideway. Repeatability and accuracy are both increased dramatically as a result.

Bed

45 degree slope type bed is combined with square type and tube type rib structure, which maintain an high rigidity, As absorption capablilty for vibration is good, powerful cutting and high precision maintaining is allowed.

Sub Spindle

S-type turning centers offer enhanced capability and functionality by allowing the operator to add secondary operations through the addition of a sub-spindle.

Gang Type CNC Turning Center

KIT Series

MODEL		KIT250	KIT450	KIT4500 N
Max. Turning Dia.	mm(in)	Ø135 (5.3″)	Ø170 (6.7″)	Ø165 (Ø6.5″)
Max. Turning Length	mm(in)	150 (5.9″)	300 (11.8″)	300 (11.8″)
Chuck Size	inch	5″	6″	6″
Bar Capacity	mm(in)	Ø32 (1.26″)	Ø45 (1.8″)	Ø51 (2″)
Sp. Speed	r/min	7,000	6,000 [6,000]	6,000 [6,000]
Sp. Power	kW(HP)	5.5/3.7 (7.3/5)	15/11 (20.1/14.7) [10.8/9 (14.5/12)]	15/11 (20.1/14.7) [25/10.5 (33.5/14)]
Travel (X/Z)	mm(in)	250/200 (9.8″/7.9″)	450/300 (17.7″/11.8″)	450/300 (17.7″/11.8″)
No. of Tools	EA	4	6	6

[ ] : Option ● : HYUNDAI-iTROL

Economy Type CNC Turning Center

E160 Series

MODEL		E160A I E160LA	E160C I E160LC	E160LMA I E160LMC
Max. Turning Dia.	mm(in)	Ø280 (Ø11″)	Ø280 (Ø11″)	Ø190 (Ø7.5″)
Max. Turning Length	mm(in)	300 (11.8″) I 510 (20.1″)	280 (11″) I 510 (20.1″)	450 (17.7″)
Chuck Size	inch	6″	8″	6″ I 8″
Bar Capacity	mm(in)	Ø45 (1.8″)	Ø51 (2″)	Ø45 (1.8″) I Ø51 (2″)
Sp. Speed	r/min	6,000 [6,000]	4,000 [4,000] [4,000]	6,000 I 4,000
Sp. Power	kW(HP)	11/7.5 (14.7/10) [10.8/9 (14.5/12)]	11/7.5 (14.7/10) [15/11 (20.1/14.7)] [10.8/9 (14.5/12)]	15/11 (20.1/14.7) I 15/11 (20.1/14.7)
Travel (X/Z)	mm(in)	165/330 (6.5″/13″) I 165/530 (6.5″/20.9″)	165/330 (6.5″/13″) I 165/530 (6.5″/20.9″)	165/460 (6.5″/18.1″)
No. of Tools	EA	12	10	12 (VDI30)

[ ] : Option ● : HYUNDAI-iTROL

Standard CNC Turning Center

SE2000 Series I HD2200 Series

MODEL		SE2000A	SE2000C	SE2000MA I MC
Max. Turning Dia.	mm(in)	Ø350 (Ø13.8″)	Ø350 (Ø13.8″)	Ø290 (Ø11.4″)
Max. Turning Length	mm(in)	300 (11.8″)	270 (10.6″)	255 (10″)
Chuck Size	inch	6″	8″	6″ I 8″
Bar Capacity	mm(in)	Ø45 (1.8″) [Ø51 (2″)]	Ø65 (2.6″)	Ø45 (1.8″) [Ø51 (2″)] I Ø65 (2.6″)
Sp. Speed	r/min	6,000 [6,000]	4,000 [4,000]	6,000 I 4,000
Sp. Power	kW(HP)	15/11 (20/14.7) [10.8/9 (14.5/12)]	15/11 (20/14.7) [10.8/9 (14.5/12)]	15/11 (20/14.7)
Travel (X/Z)	mm(in)	210/330 (8.3″/13″)	210/330 (8.3″/13″)	210/286 (8.3″/11.3″)
No. of Tools	EA	12	12	12 (VDI30)

MODEL		SE2000PA I PC	HD2200 I HD2200C N	HD2200M I HD2200MC N
Max. Turning Dia.	mm(in)	Ø350 (Ø13.8″)	Ø380 (Ø15″)	Ø300 (Ø11.8″)
Max. Turning Length	mm(in)	280 (11″) I 270 (10.6″)	565 (22.2″) I 550 (21.7″)	467 (18.4″) I 452 (17.8″)
Chuck Size	inch	6″ I 8″	8″ I 10″	8″ I 10″
Bar Capacity	mm(in)	Ø45 (1.8″) [Ø51 (2″)] I Ø65 (2.6″)	Ø65 (2.6″) I Ø81 (3.2″)	Ø65 (2.6″) I Ø81 (3.2″)
Sp. Speed	r/min	6,000 [6,000] I 4,000 [4,000]	4,000 [4,000] [4,000] I 3,500	4,000 [4,000] I 3,500
Sp. Power	kW(HP)	15/11 (20/14.7) [10.8/9 (14.5/12)]	18.5 (24.8) [18.5 (24.8)] [23.5 (31.5)] I 18.5 (24.8)	18.5 (24.8) [18.5 (24.8)] I 18.5 (24.8)
Travel (X/Z)	mm(in)	210/310 (8.3″/12.2″)	215/580 (8.5″/22.8″)	215/482 (8.5″/19″)
No. of Tools	EA	12	12	12 (BMT55)

[ ] : Option ● : SIEMENS ● : HYUNDAI-iTROL

Versatile CNC Turning Center

L160 Series

MODEL		L160A	L160LA	L160MA
Max. Turning Dia.	mm(in)	Ø355 (Ø14″)	Ø355 (Ø14″)	Ø310 (Ø12.2″)
Max. Turning Length	mm(in)	460 (18.1″)	560 (22″)	388 (15.3″)
Chuck Size	inch	6″	6″	6″
Bar Capacity	mm(in)	Ø45 (1.8″)	Ø45 (1.8″)	Ø45 (1.8″)
Sp. Speed	r/min	6,000 [6,000]	6,000 [6,000]	6,000 [6,000]
Sp. Power	kW(HP)	11/7.5 (14.7/10) [10.8/9 (14.5/12)]	11/7.5 (14.7/10) [10.8/9 (14.5/12)]	11/7.5 (14.7/10) [10.8/9 (14.5/12)]
Travel (X/Z)	mm(in)	220/460 (8.7″/18.1″)	220/560 (8.7″/22″)	220/400 (8.7″/15.7″)
No. of Tools	EA	12	12	12 [24] (BMT55P)

MODEL		L160LMA	L160LMSA
Max. Turning Dia.	mm(in)	Ø310 (Ø12.2″)	Ø310 (Ø12.2″)
Max. Turning Length	mm(in)	550 (21.7″)	550 (21.7″)
Chuck Size	inch	6″	Main : 6″ Sub : 6″
Bar Capacity	mm(in)	Ø45 (1.8″)	Main : Ø45(1.8″) Sub : Ø43(1.7″)
Sp. Speed	r/min	6,000 [6,000]	Main : 6,000 [6,000] Sub : 5,000 [5,000]
Sp. Power	kW(HP)	11/7.5 (14.7/10) [10.8/9 (14.5/12)]	Main : 11/7.5 (14.7/10) [10.8/9 (14.5/12)] Sub : 5.5/3.7 (7.4/5) [5.9/4.9 (8/6.6)]
Travel (X/Z)	mm(in)	220/560 (8.7″/22″)	220/560/590 (8.7″/22″/23.2″)
No. of Tools	EA	12 [24] (BMT55P)	12 [24] (BMT55P)

[ ] : Option ● : SIEMENS

Versatile CNC Turning Center

L230 Series

MODEL		L230A	L230LA	L230MA	L230LMA
Max. Turning Dia.	mm(in)	Ø355 (Ø14″)	Ø355 (Ø14″)	Ø310 (Ø12.2″)	Ø310 (Ø12.2″)
Max. Turning Length	mm(in)	440 (17.3″)	560 (22″)	360 (14.2″)	521 (20.5″)
Chuck Size	inch	8″	8″	8″	8″
Bar Capacity	mm(in)	Ø65 (2.6″)	Ø65 (2.6″)	Ø65 (2.6″)	Ø65 (2.6″)
Sp. Speed	r/min	4,000 [4,000]	4,000 [4,000]	4,000 [4,000]	4,000 [4,000]
Sp. Power	kW(HP)	15/11 (20.1/14.7) [22/18.5 (29.5/24.8)]	15/11 (20.1/14.7) [22/18.5 (29.5/24.8)]	15/11 (20.1/14.7) [22/18.5 (29.5/24.8)]	15/11 (20.1/14.7) [22/18.5 (29.5/24.8)]
Travel (X/Z)	mm(in)	220/440 (8.7″/17.3″)	220/560 (8.7″/22″)	220/400 (8.7″/15.7″)	220/560 (8.7″/22″)
No. of Tools	EA	12	12	12 [24] (BMT55P)	12 [24] (BMT55P)

MODEL		L230LMSA	L230C	L230MC
Max. Turning Dia.	mm(in)	Ø310 (Ø12.2″)	Ø355 (Ø14″)	Ø310 (Ø12.2″)
Max. Turning Length	mm(in)	521 (20.5″)	422 (16.6″)	342 (13.5″)
Chuck Size	inch	Main : 8″ Sub : 6″	10″	10″
Bar Capacity	mm(in)	Main : Ø65 (2.6″) Sub : Ø43 (1.7″)	Ø80 (3.1″)	Ø80 (3.1″)
Sp. Speed	r/min	Main : 4,000 [4,000] Sub : 5,000 [5,000]	3,000	3,000
Sp. Power	kW(HP)	Main : 15/11 (20.1/14.7) [22/18.5 (29.5/24.8)] Sub : 5.5/3.7 (7.4/5) [5.9/4.9 (8/6.6)]	18.5/15 (24.8/20.1)	18.5/15 (24.8/20.1)
Travel (X/Z)	mm(in)	220/560/590 (8.7″/22″/23.2″)	220/440 (8.7″/17.3″)	220/400 (8.7″/15.7″)
No. of Tools	EA	12 [24] (BMT55P)	12	12 (BMT55P)

[ ] : Option ● : SIEMENS

Standard CNC Turning Center

L280 Series

MODEL		L280	L280L	L280LM
Max. Turning Dia.	mm(in)	Ø410 (Ø16.1″)	Ø410 (Ø16.1″)	Ø300 (Ø11.8″)
Max. Turning Length	mm(in)	720 (28.4″)	1,070 (42.1″)	1,000 (39.4″)
Chuck Size	inch	10″	10″	10″
Bar Capacity	mm(in)	Ø76 (3″)	Ø76 (3″)	Ø76 (3″)
Sp. Speed	r/min	3,000 [3,000]	3,000 [3,000]	3,500 [3,500]
Sp. Power	kW(HP)	22/18.5 (29.5/24.8) [33.6/28 (45/37.5)]	22/18.5 (29.5/24.8) [33.6/28 (45/37.5)]	22/18.5 (29.5/24.8) [33.6/28 (45/37.5)]
Travel (X/Z)	mm(in)	220/750 (8.7″/29.5″)	220/1,100 (8.7″/43.3″)	220/1,020 (8.7″/40.2″)
No. of Tools	EA	10[12]	10[12]	12 (VDI40)

[ ] : Option ● : SIEMENS ● : HYUNDAI-iTROL

Standard CNC Turning Center

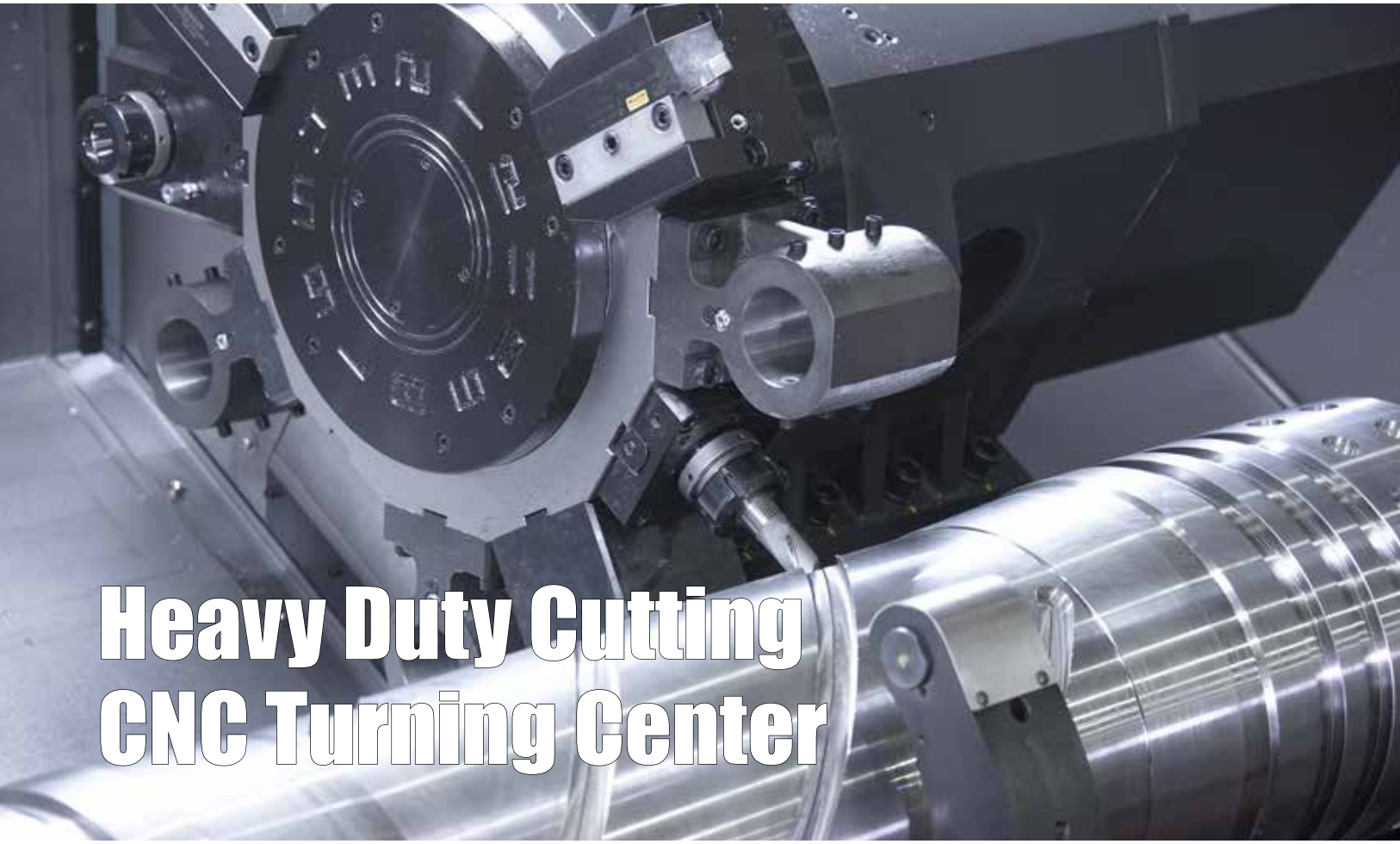
L300 Series

MODEL		L300A	L300MA	L300LA	L300MSA
Max. Turning Dia.	mm(in)	Ø500 (Ø19.7″)	Ø410 (Ø16.1″)	Ø500 (Ø19.7″)	Ø410 (Ø16.1″)
Max. Turning Length	mm(in)	720 (28.3″)	680 (26.8″)	1,320 (52″)	680 (26.8″)
Chuck Size	inch	10″	10″	10″	Main : 10″ Sub : 8″
Bar Capacity	mm(in)	Ø76 (3″)	Ø76 (3″)	Ø76 (3″)	Main : Ø76 (3″) Sub : Ø65 (2.6″)
Sp. Speed	r/min	3,600 [3,500]	3,500	3,600 [3,500]	Main : 3,500 Sub : 4,000
Sp. Power	kW(HP)	22/18.5 (29.5/24.8) [22/18.5 (29.5/24.8)]	22/18.5 (29.5/24.8)	22/18.5 (29.5/24.8) [22/18.5 (29.5/24.8)]	Main : 22/18.5 (29.5/24.8) Sub : 11/7.5 (14.7/10)
Travel (X/Z)	mm(in)	290/750 (11.4″/29.5″)	290/750 (11.4″/29.5″)	290/1,350 (11.4″/53.1″)	290/750/700 (11.4″/29.5″/27.5″)
No. of Tools	EA	12	12 (BMT65P)	12	12 (BMT65P)

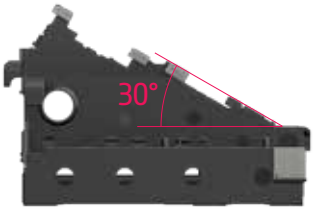
MODEL		L300LMA	L300LMSA	L300C	L300LC
Max. Turning Dia.	mm(in)	Ø410 (Ø16.1″)	Ø410 (Ø16.1″)	Ø500 (Ø19.7″)	Ø500 (Ø19.7″)
Max. Turning Length	mm(in)	1,280 (50.4″)	1,250 (49.2″)	720 (28.3″)	1,320 (52″)
Chuck Size	inch	10″	Main : 10″ Sub : 8″	12"[15"]	12"[15"]
Bar Capacity	mm(in)	Ø76 (3″)	Main : Ø76 (3″) Sub : Ø65 (2.6″)	Ø90 (3.5″) [Ø102 (4″)]	Ø90 (3.5″) [Ø102 (4″)]
Sp. Speed	r/min	3,500	Main : 3,500 Sub : 4,000	3,000[2,800][3,300]	3,000[2,800][3,300]
Sp. Power	kW(HP)	22/18.5 (29.5/24.8)	Main : 22/18.5 (29.5/24.8) Sub : 11/7.5 (14.7/10)	26/22 (35/29.5) [26.4/22 (35.4/29.5)]	26/22 (35/29.5) [26.4/22 (35.4/29.5)]
Travel (X/Z)	mm(in)	290/1,350 (11.4″/53.1″)	290/1,350/1,200 (11.4″/53.1″/47.2″)	355/750 (14″/29.5″)	355/1,350 (14″/53.1″)
No. of Tools	EA	12 (BMT65P)	12 (BMT65P)	12	12

MODEL		L300MC	L300MSC	L300LMC
Max. Turning Dia.	mm(in)	Ø500 (Ø19.7″)	Ø500 (Ø19.7″)	Ø500 (Ø19.7″)
Max. Turning Length	mm(in)	600 (23.6″)	600 (23.6″)	1,260 (49.6″)
Chuck Size	inch	12"[15"]	Main : 12"[15"] Sub : 8″	12"[15"]
Bar Capacity	mm(in)	Ø90 (3.5″) [Ø102 (4″)]	Main : Ø90 (3.5″) [Ø102 (4″)] Sub : Ø65 (2.6″)	Ø90 (3.5″) [Ø102 (4″)]
Sp. Speed	r/min	3,000[2,800][3,500]	Main : 3,000[2,800] Sub : 4,000	3,000[2,800][3,500]
Sp. Power	kW(HP)	22 (29.5)[26(34.9)][33.6 (45.1)]	Main : 26/22 (34.9/29.5) Sub : 11/7.5 (14.7/10)	22(29.5)[26(34.9)][33.6(45.1)]
Travel (X/Z)	mm(in)	355/750 (14″/29.5″)	355/750/700 (14″/29.5″/27.6″)	335/1,350 (13.2″/53.1″)
No. of Tools	EA	12 (BMT65P)	12 (BMT65P)	12 (BMT65P)

Every "C" type machine has bigbore spindle. [ ] : Option ● : SIEMENS



Heavy Duty Cutting CNC Turning Center

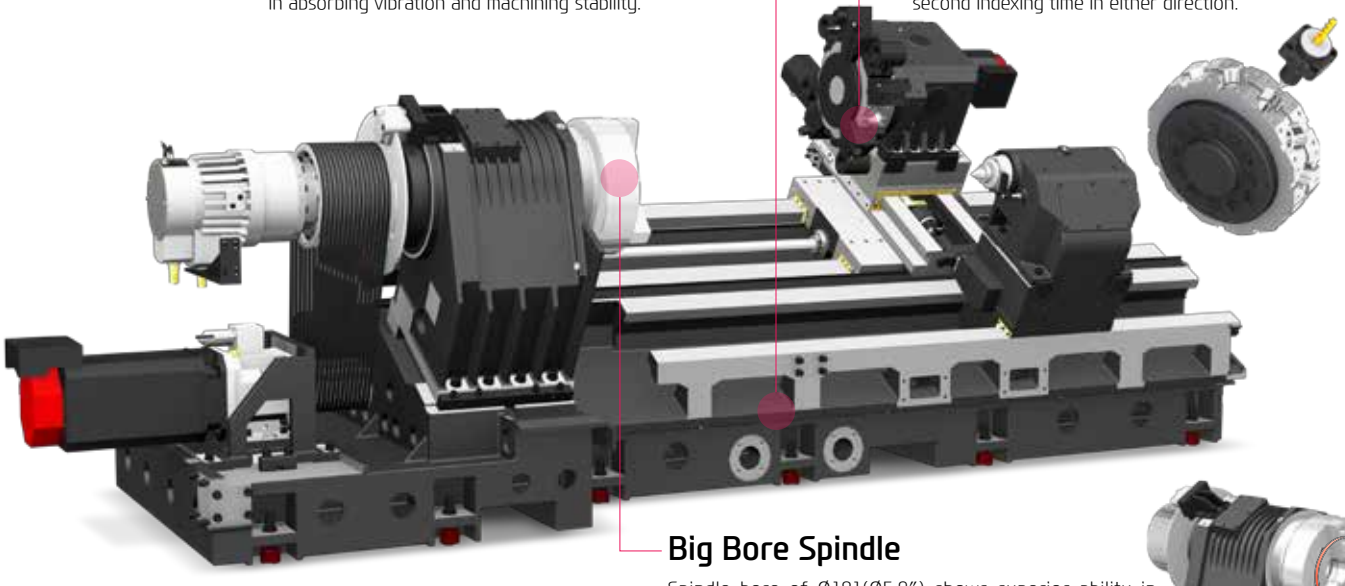


30° Slant Slope Bed

Designed with FEM(Finite Element Method) analysis, the L500 Series have bed structure of 30 ° slope to improve machining accuracy and cutting ability. Also by expanding installation area, it shows great performance in absorbing vibration and machining stability.

Mill Turret

The large 12-station BMT turret enables the L500LMA to perform high accuracy milling operations in a single set-up. The BMT turret is driven by a high torque servo motor with a 0.2 second indexing time in either direction.



L500LMA

Big Bore Spindle

Spindle bore of Ø181(Ø5.9″) shows superior ability in machining pipes. Furthermore, its torque of 4,112 N·m (3,033 lbf·ft) outperforms all others in the category.
- L500LMA : 2,990 N·m (2,205 lbf·ft)

Box Way CNC Turning Center

L400 Series

MODEL		L400A	L400MA	L400C	L400MC
Max. Turning Dia.	mm(in)	Ø640 (Ø25.2″)	Ø570 (Ø22.4″)	Ø630 (Ø24.8″)	Ø630 (Ø24.8″)
Max. Turning Length	mm(in)	1,180 (46.5″)	1,180 (46.5″)	1,170 (46.1″)	1,180 (46.5″)
Chuck Size	inch	12″	12″	15″	15″
Bar Capacity	mm(in)	Ø90 (3.5″)	Ø90 (3.5″)	Ø117 (4.6″)	Ø117 (4.6″)
Sp. Speed	r/min	3,000	3,000 [3,000]	2,000 [2,000]	2,000 [2,000]
Sp. Power	kW(HP)	26/22 (34.5/29.5)	30/20 (40.2/26.8) [32/27 (42.9/36.2)]	26/22 (34.5/29.5) [26.4/22 (35.4/29.5)]	37/30 (49.6/40.2) [37/30 (49.6/40.2)] [37.2/31 (49.9/41.6)]
Travel (X/Z)	mm(in)	325/1,205 (12.8″/47.4″)	325/1,205 (12.8″/47.4″)	325/1,205 (12.8″/47.4″)	320/1,200 (12.6″/47.2″)
No. of Tools	EA	12	12 (BMT75P)	10	12 (BMT75P)

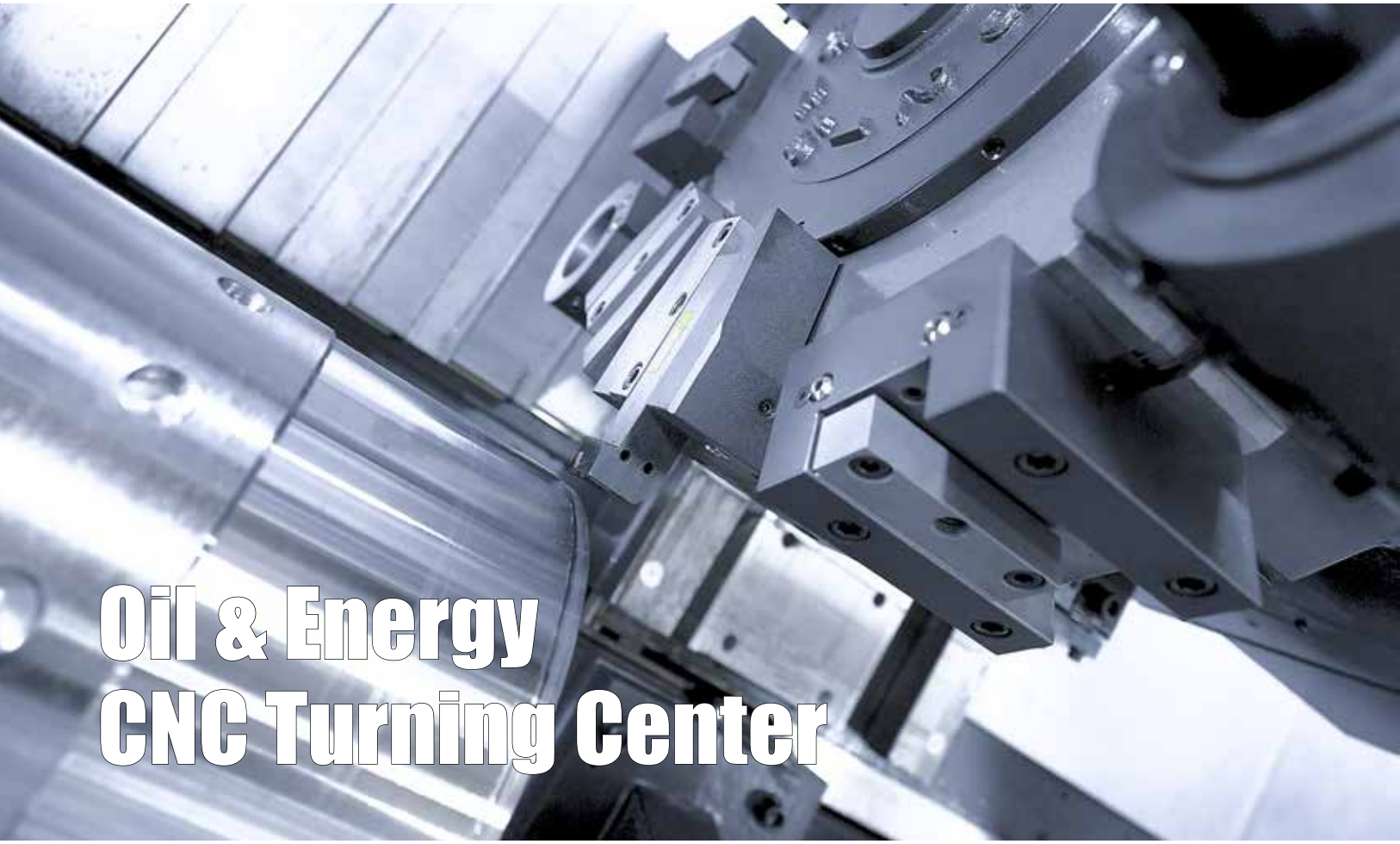
MODEL		L400LC	L400LMC	L400C Series Bigbore N
Max. Turning Dia.	mm(in)	Ø630 (Ø24.8″)	Ø560 (Ø22″)	
Max. Turning Length	mm(in)	2,120 (83.5″)	2,100 (82.7″)	
Chuck Size	inch	15″	15″	18″/21″
Bar Capacity	mm(in)	Ø117 (4.6″)	Ø117 (4.6″)	Ø165.5 (4.6″)
Sp. Speed	r/min	2,000	2,000 [2,000]	1,500
Sp. Power	kW(HP)	37/30 (49.6/40.2)	37/30 (49.6/40.2) [37/30 (49.6/40.2)] [37.2/31 (49.9/41.6)]	37/30 (49.6/40.2)
Travel (X/Z)	mm(in)	320/2,200 (12.6″/86.6″)	320/2,200 (12.6″/86.6″)	
No. of Tools	EA	10	12 (BMT75P)	

[ ] : Option ● : SIEMENS

Heavy Duty CNC Turning Center

L500 Series

MODEL		L500LA	L500LMA
Max. Turning Dia.	mm(in)	Ø720 (Ø28.3″))	Ø690 (Ø27.2″)
Max. Turning Length	mm(in)	2,109 (83″)	2,100 (82.6″)
Chuck Size	inch	21″ [24″]	21″ [24″]
Bar Capacity	mm(in)	Ø165 (6.5″)	Ø165 (6.5″)
Sp. Speed	r/min	21″ : 1,500 [24″ : 1,400]	21″ : 1,500 [24″ : 1,400]
Sp. Power	kW(HP)	45/37 (60.3/49.6)	45/37 (60.3/49.6)
Travel (X/Z)	mm(in)	400/2,210 (15.7″/87″)	400/2,210 (15.7″/87″)
No. of Tools	EA	10	12 (BMT75P)



Oil & Energy
CNC Turning Center

BOX Guideway

The L600,700,800 series features box guideways, which provide unsurpassed longterm rigidity and accuracy, even under the heaviest of cutting operations.
The merit of a box guideway is its capability to offset the vibration through the feed shaft during a heavy cutting operation, which makes highly accurate machining operations possible.

Gear Type Driven Main Spindle

Through gear shift, fulfilled low speed, high-torque and stable cutting.

L600/700 Series : 3 Step Gear **L800 Series** : 2 Step Gear

With **12.58"** thru hole capacity, the L800LMA is perfect for machining large cylindrical parts required in the booming oil and gas industry.

Milling Tool Holder

The BMT turret, with 4 screws solidly fastening the holder, shows outstanding performance in powerful cutting and is capable of machining high-value products using rotation tools.

L700LMA

Built-in Tail Stock

The large built-in type tailstock makes it possible to maintain stable machining accuracy even during a powerful heavy-cutting operation.

Heavy Duty CNC Turning Center

L600/700/800 Series

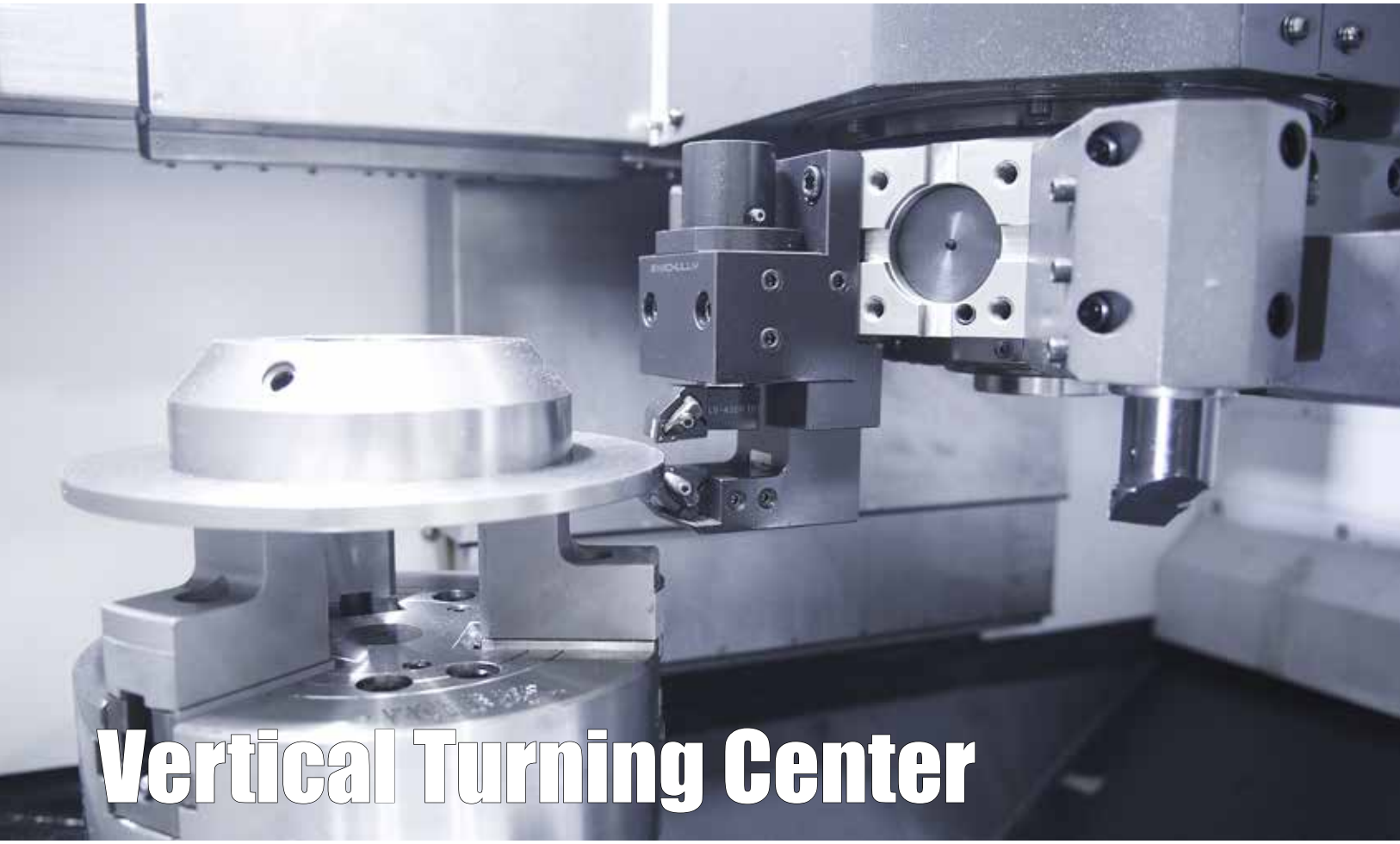
MODEL		L600A/L600MA	L600LA/L600LMA	L700A/L700MA
Max. Turning Dia.	mm(in)	Ø920 (Ø36.2")	Ø920 (Ø36.2")	Ø920 (Ø36.2")
Max. Turning Length	mm(in)	1,650 (65")	3,250 (128")	1,650 (65")
Chuck Size	inch	Opt. [18"/21"]	Opt. [18"/21"]	Opt. [24"]
Bar Capacity	mm(in)	18":Ø117 (4.6"), 21":Ø139 (5.4")	18":Ø117 (4.6"), 21":Ø139 (5.4")	Ø165 (6.5")
Sp. Speed	r/min	1,800	1,800	1,500
Sp. Power	kW(HP)	45/37 (60.3/49.6)	45/37 (60.3/49.6)	45/37 (60.3/49.6)
Travel (X/Z)	mm(in)	500/1,680 (19.7"/66.1")	500/3,280 (19.7"/129.1")	500/1,680 (19.7"/66.1")
No. of Tools	EA	12 / 12 (BMT85P)	12 / 12 (BMT85P)	12 / 12 (BMT85P)

MODEL		L700LA/L700LMA	L800A/MA I L800D/MD	L800LA/LMA I L800LD/LMD
Max. Turning Dia.	mm(in)	Ø920 (Ø36.2")	Ø920 (Ø36.2")	Ø920 (Ø36.2")
Max. Turning Length	mm(in)	3,250 (128")	1,650 (65")	3,250 (128")
Chuck Size	inch	Opt. [24"]	Opt. [32"] I Opt. [34" Air Chuck] [32" Independent Chuck]	Opt. [32"] I Opt. [34" Air Chuck] / [32" Independent Chuck]
Bar Capacity	mm(in)	Ø165 (6.5")	Hydraulic : Ø239 (9.4"), Air/Independent : Ø319 (12.6") I 374 (14.8")	Hydraulic : Ø239 (9.4"), Air/Independent : Ø319 (12.6") I 374 (14.8")
Sp. Speed	r/min	1,500	700 I 500	700 I 500
Sp. Power	kW(HP)	45/37 (60.3/49.6)	45/37 (60.3/49.6)	45/37 (60.3/49.6)
Travel (X/Z)	mm(in)	500/3,280 (19.7"/129.1")	500/1,680 (19.7"/66.1")	500/3,280 (19.7"/129.1")
No. of Tools	EA	12 / 12 (BMT85P)	12 / 12 (BMT85P)	12 / 12 (BMT85P)

Y axis CNC Turning Center

KL7000/8000LY

MODEL		KL7000LY N	KL8000LY N
Max. Turning Dia.	mm(in)	Ø920 (Ø36.2")	Ø920 (Ø36.2")
Max. Turning Length	mm(in)	3,250 (278")	3,250 (278")
Chuck Size	inch	Opt. [24"]	Opt. [32"]
Bar Capacity	mm(in)	Ø165 (6.5")	Hydraulic : Ø239 (9.4"), Air/Independent : Ø319 (12.6")
Sp. Speed	r/min	1,500	700
Sp. Power	kW(HP)	45/37 (60/50)	45/37 (60/50)
Travel (X/Z)	mm(in)	500/220 (±110)/3,280 (19.7"/7.9"(±4.3")/129")	500/220 (±110)/3,280 (19.7"/7.9"(±4.3")/129")
No. of Tools	EA	12 (BMT85P)	12 (BMT85P)



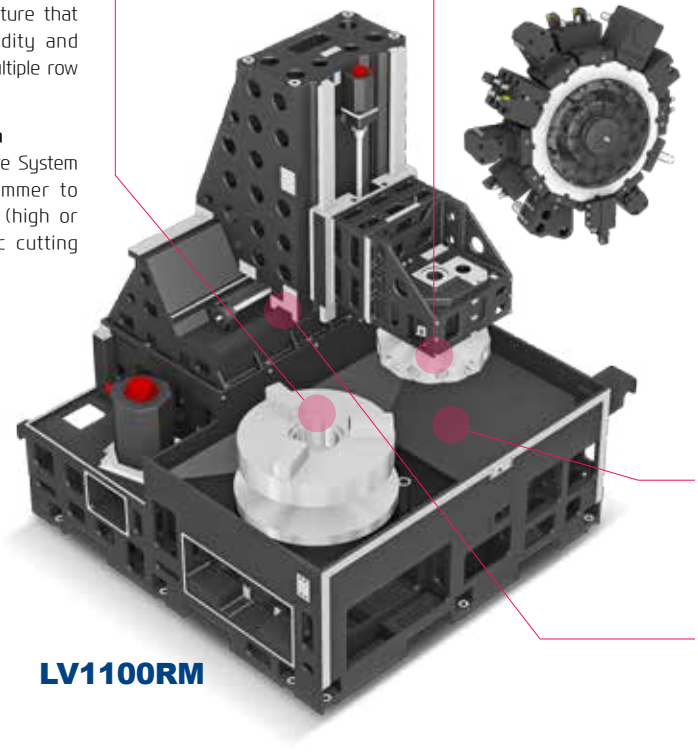
Vertical Turning Center

Main Spindle

Has been designed with structure that simultaneously improves rigidity and precision using high rigid of multiple row of roller bearing.

Hi-Low Chuck Pressure System

Optional Hi-Low Chuck Pressure System allows the operator/ programmer to control the pressure setting (high or low), based on each specific cutting situation.



LV1100RM

Milling Tool Holder

Machining capabilities have been increased with the addition of a Straight Milling Head, which can remove material from the side of the workpiece, and an Angular Milling Head, which can perform I.D. operations.

A wide variety of additional tool holders can further enhance the machines with capabilities that include drilling and tapping, among others.

Straight Milling Head	Angular Milling Head
	

Chute Structure

The slope type bed design improves chip flow and disposal of cutting fluids and minimizes thermal growth in the machine's base

Traveling Column Design

The LV1100RM features a traveling column to maintain superior accuracy when turning larger work pieces

Vertical CNC Turning Center

LV Series

MODEL		LV450R/L/RM/LM	LV450G N	LV500R/L/RM/LM
Max. Swing	mm(in)	Ø620 (Ø24.4")	Ø650 (Ø25.6")	Ø760 (Ø29.9")
Max. Turning Dia.	mm(in)	Ø465 (Ø18.3")	Ø465 (Ø18.3")	Ø550 (Ø21.7")
Max. Turning Length	mm(in)	465 (18.3")	495 (19.5")	600 (23.6")
Chuck Size	inch	12"	12"	15" [18"]
Sp. Speed	r/min	3,000	3,000	2,000
Sp. Power (Max.)	kW(HP)	22 (29.5)	22 (29.5)	22 (29.5) [30 (40.2)] [30 (40.2)]
Travel (X/Z)	mm(in)	310/495 (12.2"/19.5")	500/495 (19.7"/19.5")	325/625 (12.8"/24.6")
No. of Tools	EA	12 /12 (BMT65P)	3	8 [12] / 12 (BMT75P)

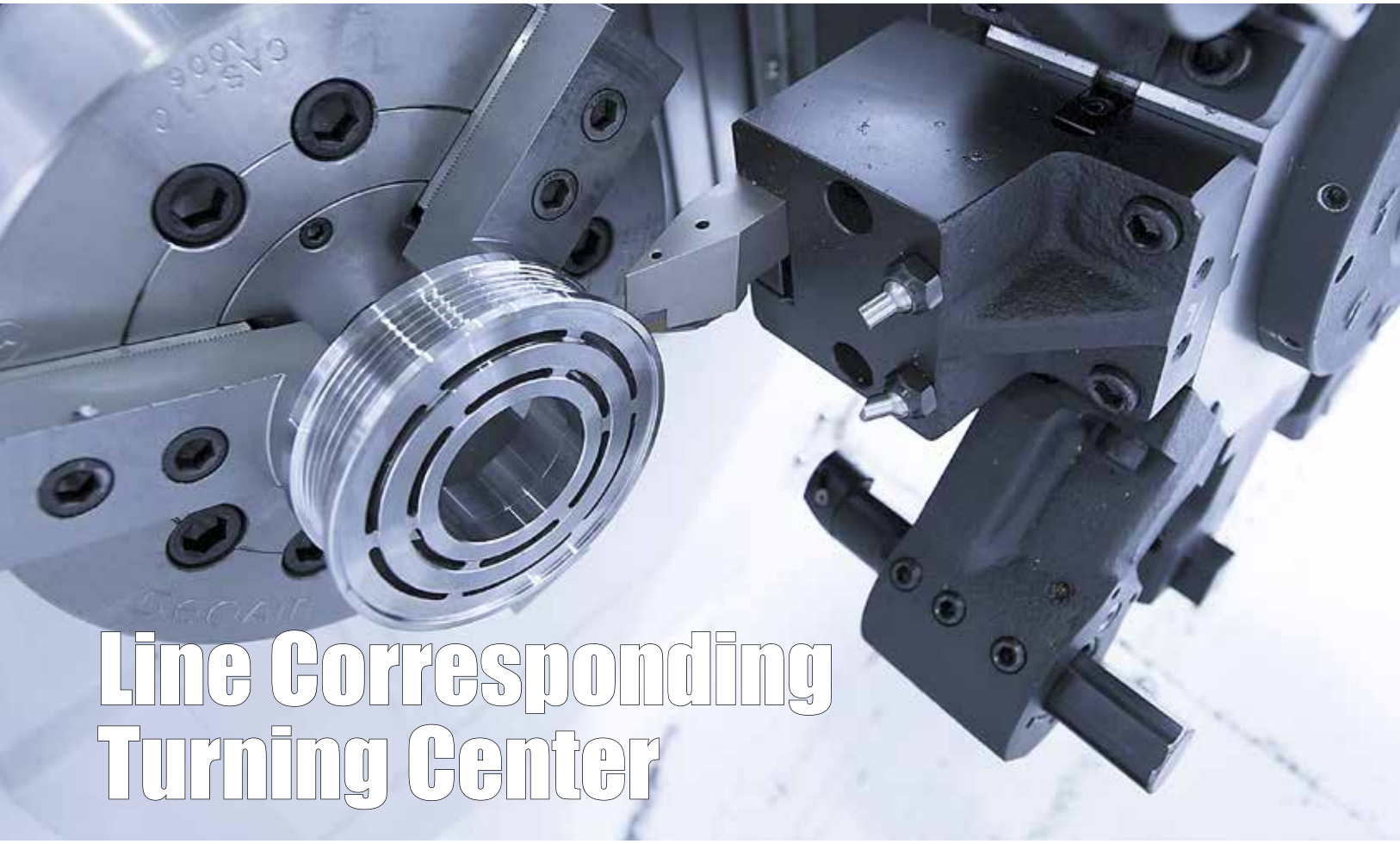
MODEL		LV800R/L/RM/LM	LV1100R/RM
Max. Swing	mm(in)	Ø890 (Ø35")	Ø1,355 (Ø53.3")
Max. Turning Dia.	mm(in)	Ø800 (Ø31.5")	Ø1,160 (Ø45.7")
Max. Turning Length	mm(in)	800 (31.5")	1,000 (39.4")
Chuck Size	inch	18" [20"] [24"]	32" [40"]
Sp. Speed	r/min	2,000 [2,000] [2,000] [2,000]	800 [630]
Sp. Power (Max.)	kW(HP)	30 (40.2) [37 (49.6)] [37 (49.6)] [30 (40.2)]	60/55/45 (80/73.7/60.3)
Travel (X/Z)	mm(in)	440/800 (17.3"/31.5")	620/1,000 (24.4"/39.4")
No. of Tools	EA	12 / 12 (BMT75P)	12 / 12 (BMT75P)

[ ] : Option ● : SIEMENS

Ram Type Vertical CNC Turning Center

LV1400 | LV2000MF/MM

MODEL		LV1400	LV2000MF | MM
Max. Swing	mm(in)	Ø1,450 (57.1")	Ø2,040 (80.3")
Max. Turning Dia.	mm(in)	Ø1,400 (55.1")	Ø2,000 (78.7")
Max. Turning height	mm(in)	850 (33.5")	950 (37.4") | 1,700 (66.9")
Table Size	mm(in)	Ø1,000 (39.4")	Ø1,600 (63")
Max. Load Capacity	kg(lb)	4,400 (9,700)	10,000 (22,046)
Sp. Speed	r/min	492	258 [258]
Sp. Power	kW(HP)	37/30 (50/40)	37/30 (50/40) [45/37 (60.3/50)]
Ram Size	mm(in)	200×200 (7.9"×7.9")	Turning 240(9.4") {Milling BT50}
Travel (X/Z)	mm(in)	-50~+825 (-2"~+32.5")/800 (31.5")	-250~+1,180 (-9.8~+46.5")/915 (36")

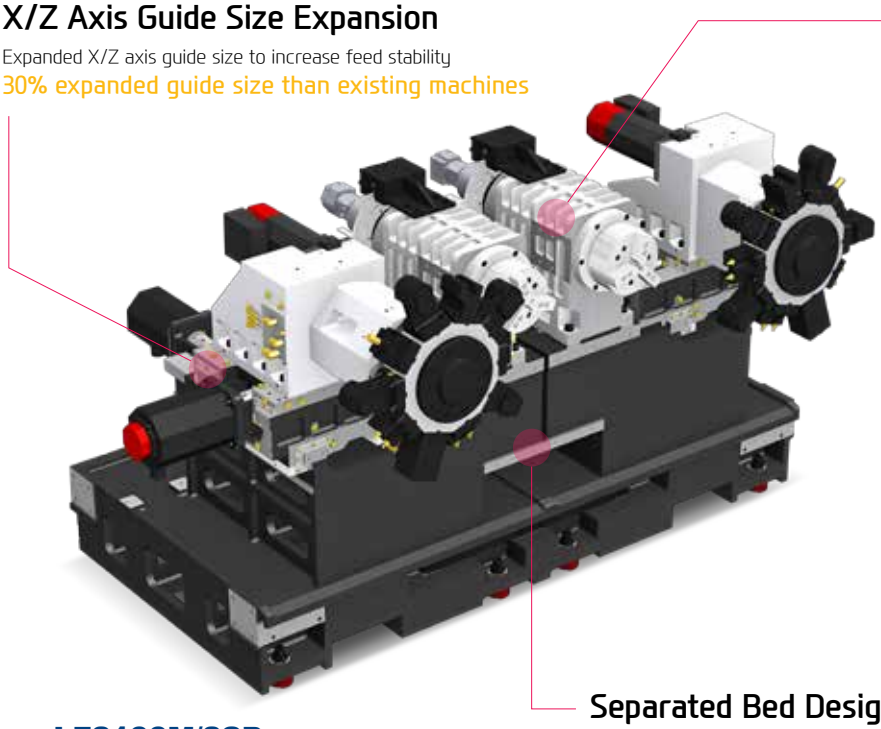


Line Corresponding Turning Center

X/Z Axis Guide Size Expansion

Expanded X/Z axis guide size to increase feed stability

30% expanded guide size than existing machines

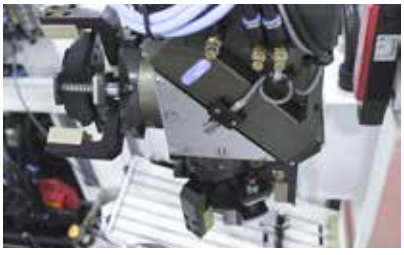


LF2100M/2SP

Spindle Structure

Excellent performance when heavy-duty cutting by adopting high output spidle motor.

Angular contact bearing is blended to minize heat distortion and to maintain high accuracy.



Gantry Loader System

High speed gantry loader and stacker are integrated into the LF Series creating a flexible and fully automated work cell, with a minimal footprint. The integrated gantry loader design makes the LF Series perfect for high production applications and lean manufacturing environments.

Separated Bed Design

Separated bed design minimizes heat distortion and vibration to maintain stable cutting capacity. By collection disposed lubricant oil, it fosters pleasant work environment.

Front Loading CNC Turning Center

LF1600 Series

MODEL		LF1600/2SP I LF1600M/2SP
Max. Turning Dia.	mm(in)	Ø260 (Ø10.2″)
Max. Turning Length	mm(in)	165 (6.5″)
Chuck Size	inch	6″
Bar Capacity	mm(in)	Ø45 (1.8″)
Sp. Speed	r/min	4,500
Sp. Power	kW(HP)	7.5/5.5 (10/7.4)
Travel (X/Z)	mm(in)	140/165 (5.5″/6.5″)
No. of Tools	EA	2×10 I 2×10 (BMT55P)

Front Loading CNC Turning Center

LF2100/2600 Series

MODEL		LF2100/2SP I LF2100M/2SP	LF2600/2SP I LF2600M/2SP
Max. Turning Dia.	mm(in)	Ø360 (Ø14.2″)	Ø360 (Ø14.2″)
Max. Turning Length	mm(in)	155 (6.1″)	170 (6.7″)
Chuck Size	inch	8″	10″
Bar Capacity	mm(in)	Ø65 (2.6″)	Ø76 (3″)
Sp. Speed	r/min	4,000	3,000
Sp. Power	kW(HP)	15/11 (20.1/14.7)	22/18.5 (29.5/24.8)
Travel (X/Z)	mm(in)	190/170 (7.5″/6.7″)	190/170 (7.5″/6.7″)
No. of Tools	EA	2×10 I 2×10 (BMT55P)	2×10 I 2×10 (BMT55P)

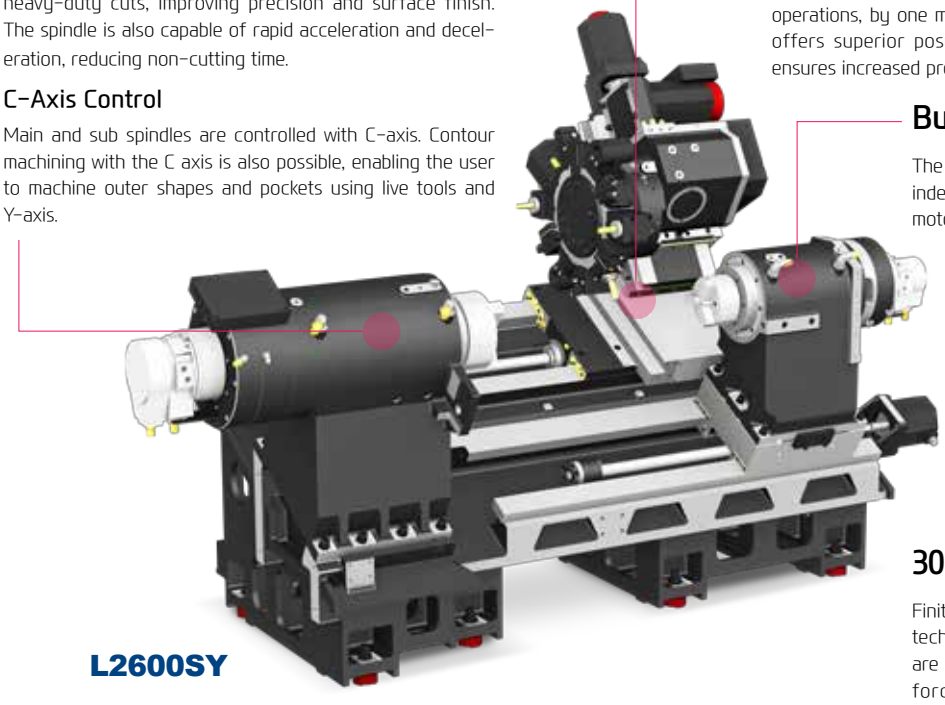
Y-Axis Turning Center

Built-In Main Spindle

L2600SY features a built-in main spindle, which reduces noise and vibration even at high speeds or when taking heavy-duty cuts, improving precision and surface finish. The spindle is also capable of rapid acceleration and deceleration, reducing non-cutting time.

C-Axis Control

Main and sub spindles are controlled with C-axis. Contour machining with the C axis is also possible, enabling the user to machine outer shapes and pockets using live tools and Y-axis.



L2600SY

Wedge Type Y-axis Structure

Y-axis controlled BMT turret, enables a combination of metal removal operations, by one machine, in a single set-up. The wedge type Y-axis offers superior positional accuracy and is easy to program, which ensures increased productivity.

Built-In Sub Spindle

The 6″ sub spindle with C axis, offers 0.001° unit of index and is driven by the B axis ball screw and servo motor, to ensure high precision and accuracy.

30° Slant Type Slope Bed

Finite element analysis (FEM: Finite Element Method) techniques designed by the L2600SY Series of beds are strong enough to improve the machining of cutting forces and 30° slope integrated bed capable of absorbing of vibrations by adopting a good stable Y axis machining.

Cross Type Y-Axis CNC Turning Center

LY Series

MODEL		L150Y	L150SY
Max. Turning Dia.	mm(in)	Ø240 (Ø9.4")	Ø240 Ø(9.4")
Max. Turning Length	mm(in)	530 (20.9")	530 (20.9")
Chuck Size	inch	6"	Main : 6" Sub : 5"
Bar Capacity	mm(in)	Ø45 (1.8")	Main : Ø45 (1.8") Sub : Ø33 (1.3")
Sp. Speed	r/min	6,000	Main : 6,000 Sub : 6,000
Sp. Power	kW(HP)	11/7.5 (14.7/10)	Main : 11/7.5 (14.7/10) Sub : 3.7/2.2 (5/3)
Travel (X/Y/Z/ZB)	mm(in)	220/80{±40}/550 (8.7"/3.1"/21.7")	220/80{±40}/550/750 (8.7"/3.1"/21.7"/29.5")
No. of Tools	EA	12 (VDI30)	12 (VDI30)

Multi-Tasking Y-Axis CNC Turning Center

L2000SY Series

MODEL		L2000Y N	L2000LY N	L2000SY N	L2000LSY N
Max. Turning Dia.	mm(in)	Ø420 (Ø16.5")	Ø420 (Ø16.5")	Ø420 (Ø16.5")	Ø420 (Ø16.5")
Max. Turning Length	mm(in)	520 (20.5")	760 (29.9")	520 (20.5")	760 (29.9")
Chuck Size	inch	8"	8"	8"	Main : 8" Sub : 6"
Bar Capacity	mm(in)	Ø65 (2.6")	Ø65 (2.6")	Main : Ø65 (2.6") Sub : Ø51 (2")	Main : Ø65 (2.6") Sub : Ø51 (2")
Sp. Speed	r/min	5,000 [4,500]	5,000 [4,500]	Main : 5,000 [4,500] Sub : 6,000 [4,500]	Main : 5,000 [4,500] Sub : 6,000 [4,500]
Sp. Power	kW(HP)	22/11 (29.5/14.8) [18.5/11 (24.8/14.8)]	22/11 (29.5/14.8) [18.5/11 (24.8/14.8)]	Main : 22/11 (29.5/14.8) [18.5/11 (24.8/14.8)] Sub : 15/11 (20.1/14.8) [11/5.5 (14.87.4)]	Main : 22/11 (29.5/14.8) [18.5/11 (24.8/14.8)] Sub : 15/11 (20.1/14.8) [11/5.5 (14.87.4)]
Travel (X/Y/Z/ZB)	mm(in)	265/120 {±60}/590 (10.4"/4.7" {±2.4"}/23.2")	265/120 {±60}/830 (10.4"/4.7" {±2.4"}/32.7")	265/120 {±60}/590/590 (10.4"/4.7" {±2.4"}/23.2"/23.2")	265/120 {±60}/830/830 (10.4"/4.7" {±2.4"}/32.7"/32.7")
No. of Tools	EA	12 (BMT65P)	12 (BMT65P)	12 (BMT65P)	12 (BMT65P)

Multi-Tasking Y-Axis CNC Turning Center

L2600/3000SY Series

MODEL		L2600Y N	L2600LY N	L2600SY N
Max. Turning Dia.	mm(in)	Ø420 (Ø16.5″)	Ø420 (Ø16.5″)	Ø420 (Ø16.5″)
Max. Turning Length	mm(in)	760 (29.9″)	1,280 (50.4″)	760 (29.9″)
Chuck Size	inch	10″	10″	Main : 10″ Sub : 6″
Bar Capacity	mm(in)	Ø81 (3.2″)	Ø81 (3.2″)	Main : Ø81 (3.2″) Sub : Ø51 (2″)
Sp. Speed	r/min	4,000 [3,500]	4,000 [3,500]	Main : 4,000 [3,500] Sub : 6,000 [4,500]
Sp. Power	kW(HP)	22/15 (29.5/20.1) [26/18.5 (34.9/24.8)]	22/15 (29.5/20.1 [26/18.5 (34.9/24.8)]	Main : 22/15 (29.5/20.1) [26/18.5 (34.9/24.8)] Sub : 15/11 (20.1/14.8) [11/5.5 (14.87.4)]
Travel (X/Y/Z/ZB)	mm(in)	265/120 {±60}/830 (10.4″/4.7″ {±2.4″}/32.7″)	265/120 {±60}/1,350 (10.4″/4.7″ {±2.4″}/53.1″)	265/120 {±60}/830/830 (10.4″/4.7″ {±2.4″}/32.7″/32.7″)
No. of Tools	EA	12 (BMT65P)	12 (BMT65P)	12 (BMT65P)

MODEL		L3000Y N	L3000LY N	L3000SY N
Max. Turning Dia.	mm(in)	Ø420 (Ø16.5″)	Ø420 (Ø16.5″)	Ø420 (Ø16.5″)
Max. Turning Length	mm(in)	760 (29.9″)	1,280 (50.4″)	760 (29.9″)
Chuck Size	inch	12″	12″	Main : 12″ Sub : 6″
Bar Capacity	mm(in)	Ø102 (4″)	Ø102 (4″)	Main : Ø102 (4″) Sub : Ø51 (2″)
Sp. Speed	r/min	3,000 [2,800]	3,000 [2,800]	Main : 3,000 [2,800] Sub : 6,000 [4,500]
Sp. Power	kW(HP)	37/25 (49.6/33.5) [26/18.5 (34.9/24.8)]	37/25 (49.6/33.5) [26/18.5 (34.9/24.8)]	Main : 37/25 (49.6/33.5) [26/18.5 (34.9/24.8)] Sub : 15/11 (20.1/14.8) [11/5.5 (14.87.4)]
Travel (X/Y/Z/ZB)	mm(in)	265/120 {±60}/830 (10.4″/4.7″ {±2.4″}/32.7″)	265/120 {±60}/1,350 (10.4″/4.7″ {±2.4″}/53.1″)	265/120 {±60}/830/830 (10.4″/4.7″ {±2.4″}/32.7″/32.7″)
No. of Tools	EA	12 (BMT65P)	12 (BMT65P)	12 (BMT65P)

Aluminum Wheel Turning Center

Aluminum Wheel CNC Turning Center

L-AW Series

MODEL		L500AW	L600AW I L600AW MF	KL6500AW N	LV800RAW/LAW	LV800AW-TT N
Max. Swing	mm	Ø750 (29.5″)	Ø850 (33.5″)	Ø850 (33.5″)	Ø890 (35″)	Ø760 (29.9″)
Max. Turning Dia.	mm	Ø580 (22.8″)	Ø700 (27.6″)	Ø660 (26″)	Ø800 (31.5″)	Ø650 (25.6″)
Max. Turning Height	mm	710 (28″)	710 (28″)	710 (28″)	800 (31.5″)	650 (25.6″)
Recommended Wheel Size	inch	17″	17″	19″	22.5″	19″
Sp. Speed	r/min	3,000	3,000 I 3,000	2,000	2,000	3,000
Sp. Power	kW	37/30 (50/40)	37/30 (50/40) I 30/22 (40/35)	37/30 (49.6/40.2)	45/37 (60/50)	55/37 (73.6/50)
Travel (X/Z)	mm	355:65+290 (14″:2.6″ +11.4″) / 720 (28.3″)	370:20+350 (14.6″:0.8″ +13.8″) / 720 (28.3″)	400/720(15.7″/28.3″)	440/800 (17.3″/31.5″)	420/650 (16.5″/25.6″)
No. of Tools	EA	12	12	12	12	8+8

Multi Axis CNC Turning Center

LM1600/1800TT Series

MODEL		LM1600TTS/TTMS/TTSY
Max. Turning Dia. (Upper/Lower)	mm(in)	Ø230 (Ø9.1")
Max. Turning Length	mm(in)	705 (27.8")
Chuck Size	inch	Main : 6" Sub : 6"
Bar Capacity	mm(in)	Main : Ø51 (2") Sub : Ø51 (2")
Sp. Speed	r/min	Main : 6,000 Sub : 6,000
Sp. Power	kW(HP)	Main : 15/11 (20.1/14.7) Sub : 15/11 (20.1/14.7)
Travel	mm(in)	X1/X2/Z1/Z2/Y/ZB : 165/195/700/720/100{±50}/700 (6.5"/7.7"/27.6"/28.3"/3.9"/27.6")
No. of Tools	EA	2×12 [2×24] / 2×12 [2×24] (BMT55P)

MODEL		LM1800TTS/TTMS/TTSY
Max. Turning Dia. (Upper/Lower)	mm(in)	Ø230 (Ø9.1")
Max. Turning Length	mm(in)	673 (26.5")
Chuck Size	inch	Main : 8" Sub : 8"
Bar Capacity	mm(in)	Main : Ø65 (2.6") Sub : Ø65 (2.6")
Sp. Speed	r/min	Main : 5,000 Sub : 5,000
Sp. Power	kW(HP)	Main : 22/11 (29.5/14.7) Sub : 22/11 (29.5/14.7)
Travel	mm(in)	X1/X2/Z1/Z2/Y/ZB : 165/195/700/720/100{±50}/668 (6.5"/7.7"/27.6"/28.3"/3.9"/26.3")
No. of Tools	EA	2×12 [2×24] / 2×12 [2×24] (BMT55P)

Multi Axis Turning Center

Multi Axis CNC Turning Center

LM2500TT Series

MODEL		LM2500TT/TTM	LM2500TTS/TTMS	LM2500TTSY
Max. Turning Dia. (Upper/Lower)	mm(in)	Ø390/Ø300 (Ø15.4"/Ø11.8")	Ø390/Ø300 (Ø15.4"/Ø11.8")	Ø390/Ø300 (Ø15.4"/Ø11.8")
Max. Turning Length	mm(in)	900 (35.4")	900 (35.4")	900 (35.4")
Chuck Size	inch	10"	Main : 10" Sub : 10"	Main : 10" Sub : 10"
Bar Capacity	mm(in)	Ø76 (3")	Main : Ø76 (3") Sub : Ø76 (3")	Main : Ø76 (3") Sub : Ø76 (3")
Sp. Speed	r/min	4,000	Main : 4,000 Sub : 4,000	Main : 4,000 Sub : 4,000
Sp. Power	kW(HP)	26/15 (34.9/20.1)	Main : 26/15 (34.9/20.1) Sub : 26/15 (34.9/20.1)	Main : 26/15 (34.9/20.1) Sub : 26/15 (34.9/20.1)
Travel(X1/X2)	mm(in)	270/190 (10.6"/7.5")	270/190 (10.6"/7.5")	270/190 (10.6"/7.5")
Travel(Z1/Z2)	mm(in)	920/920 (36.2"/36.2")	920/920 (36.2"/36.2")	920/920 (36.2"/36.2")
Travel(Y)	mm(in)	-	-	120{±60} (4.7")
Travel(ZB)	mm(in)	-	920 (36.2")	920 (36.2")
No. of Tools	EA	2×12 / 2×12 (BMT65P)	2×12 / 2×12 (BMT65P)	2×12 (BMT65P)

Tapping Center

ATC & Magazine

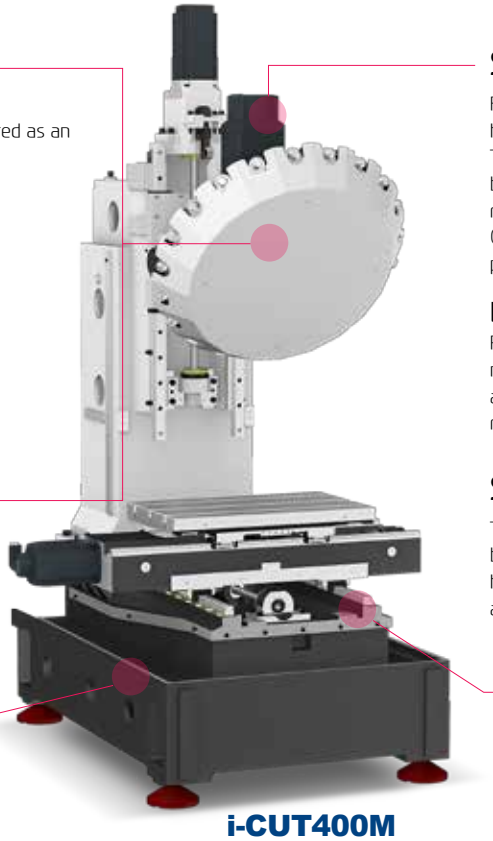
The 14 tool rotary ATC is standard on the i-CUT400M. The 21 tool rotary ATC is offered as an option.

Servo Type Driving Method ATC

Servo motor type driving method applied ATC offers quick tool selection. Also, a servo motor is used to improve tool position indexing with enhanced stability.

FEM Structure

By analyzing the structure, i-CUT400M weight has been reduced, but maintained the rigidity. Satisfies both cutting stability and productivity.



i-CUT400M

Spindle

For high speed spindle, it is designed as high-precision rapid angular ball bearing. Therefore, it exerts excellent performance by realizing rapid processing of Max. 24,000 rpm. Reverse rotation double speed reverse (Double Speed Return) has been reduced processing time.

Rigid Tapping

Rigid tapping is standard and eliminates the need for special tooling. Consistent and accurate tapping increases tap life and reduces the machining cycle time.

Spindle Taper

The Big Plus spindle system (BBT #30) provides dual contact between the spindle face and the flange face of the tool holder. This greatly increase tool rigidity, reduces run out and adds significant productivity to your machining applications.

High Speed LM Guide

Rapid High Speed axis movement is achieved by the use of linear motion guide ways. (Z-Axis : Roller LM Guide)

This reduces non-cutting time and decreases machining time for greater productivity.

Tapping Center

i-CUT 400 Series

MODEL		i-CUT400T (iTROL) / (FANUC)	i-CUT400M
Table Size	mm(in)	650×400 (25.6″×15.7″)	650×400 (25.6″×15.7″)
Max. Load Capacity	kg(lb)	300 (661.4)	300 (661.4)
Sp. Taper	-	BIG PLUS #30	BIG PLUS #30
Sp. Speed	r/min	12,000 [15,000] I 12,000	24,000
Sp. Power (Max.)	kW(HP)	14.1/4.1 [14.1/4.1] (18.9/5.5 [18.9/5.5]) I 13/3.7 (17.4/5)	22.6/3.5 (30.3/4.7)
No. of Tools	EA	14 [21] [Twin arm : 20, 24]	14 [21]
Travel (X/Y/Z)	mm(in)	500/400/330 (19.7″/15.7″/13″) [Twin Arm : Z axis 480(18.9″)]	500/400/330 (19.7″/15.7″/13″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	56/56/56 (2,205/2,205/2,205)	56/56/56 (2,205/2,205/2,205)

MODEL		i-CUT400TD (iTROL) / (FANUC)
Table Size	mm(in)	2-650×400 (2-25.6″×15.7″)
Max. Load Capacity	kg(lb)	2-250 (2-551.2)
Sp. Taper	-	BIG PLUS #30
Sp. Speed	r/min	12,000 [15,000] I 12,000
Sp. Power (Max.)	kW(HP)	14.1/4.1 [14.1/4.1] (18.9/5.5 [18.9/5.5]) I 13/3.7 (17.4/5)
No. of Tools	EA	14 [21] [Twin Arm : 20, 24]
Travel (X/Y/Z)	mm(in)	520/400/330 (20.5″/15.7″/13″) [Twin Arm : Z axis 460(18.1″)]
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	56/56/56 (2,205/2,205/2,205) [Twin Arm: 48/48/56 (1,890/1,890/2,205]

[ ] : Option

Tapping Center

i-CUT 450T

MODEL		i-CUT450T (iTROL) / (FANUC)
Table Size	mm(in)	850×460 (33.5″×18.1″)
Max. Load Capacity	kg(lb)	300 (661.4)
Sp. Taper	-	BIG PLUS #30
Sp. Speed	r/min	12,000 [15,000] I 12,000
Sp. Power (Max.)	kW(HP)	14.1/4.1 [14.1/4.1] (18.9/5.5 [18.9/5.5]) I 13/3.7 (17.4/5)
No. of Tools	EA	14 [21] [Twin Arm : 20, 24]
Travel (X/Y/Z)	mm(in)	700/450/330 (27.6″/17.7″/13″) [Twin Arm : Z axis 460(18.1″)]
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	56/56/56 (2,205/2,205/2,205)

[ ] : Option

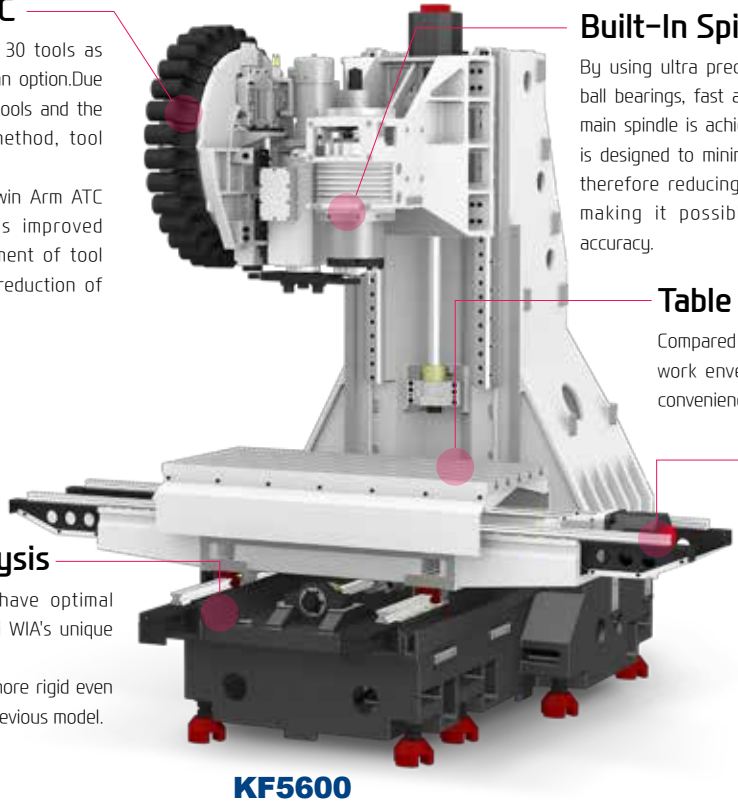
Vertical Machining Center

Magazine & ATC

The tool magazine holds 30 tools as standard and 40 tools as an option.Due to the wider selection of tools and the random tool selection method, tool change time has improved.
Position control of the Twin Arm ATC using Servo Motors has improved drastically. Also improvement of tool changing speed enables reduction of non-cutting time.

Optimal Structural Analysis

KF5600 is designed to have optimal structure through Hyundai WIA's unique structural analysis.
Also, column has become more rigid even weight is lighter than the previous model.



KF5600

Built-In Spindle(15, 20K)

By using ultra precision class of angular ball bearings, fast acc/deceleration of the main spindle is achieved. The spindle head is designed to minimize heat displacement therefore reducing heat generation and making it possible to maintain high accuracy.

Table

Compared to competitive machines, the KF5600 has a large work envelop making setup and use easily and providing convenience to operator.

Expanded Y-axis Design

The travel on Y-axis provides enhanced processing with 560mm(22″)

Previous Machine (Y-Axis)	510 mm (20″)
KF5600 (Y-Axis)	560 mm (22″)

Previous Machine (Y-Axis)	1,060 mm (41.7″)
KF5600 (X-Axis)	1,100 mm (43.3″)

Advanced Technology Vertical Machining Center

F500/650 Series

MODEL		F500/50	F650 Plus	F650/50
Table Size	mm(in)	1,200×500 (47.2″×19.7″)	1,600×650 (63″×25.6″)	1,600×650 (63″×25.6″)
Max. Load Capacity	kg(lb)	800 (1,764)	1,300 (2,866)	1,300 (2,866)
Sp. Taper	-	BT50 [BBT50]	BBT40	BT50 [BBT50]
Sp. Speed	r/min	6,000 [6,000]	8,000 [10,000]	6,000 [6,000]
Sp. Power (Max.)	kW(HP)	15 (20.1) [27.8 (37.3)]	15 (20.1) [18.5 (24.8)]	15 (20.1) [27.8 (37.3)]
No. of Tools	EA	24	30 [24]	24
Travel (X/Y/Z)	mm(in)	1,100/510/635 (43.3″/20.1″/25″)	1,400/660/635 (55.1″/26″/25″)	1,400/660/635 (55.1″/26″/25″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	36/36/30 (1,417/1,417/1,260)	36/36/30 (1,417/1,417/1,260)	36/36/30 (1,417/1,417/1,260)

[ ] : Option ● : SIEMENS

Versatile Vertical Machining Center

KF Series

MODEL		KF4600 N	KF5600 I C N	KF6700 N
Table Size	mm	1,050×460 (41.3″x18.1″)	1,250×560 (49.2″×22″)	1,500×670 (59″×26.4″)
Sp. Speed	r/min	8,000(β) [8,000~15,000 Various spindle options available]	8,000 [8,000~15,000 Various spindle options available]	8,000 [8,000~15,000 Various spindle options available]
Sp. Power (Max.)	kW	18.5/11 (24.8/14.8)	15/11 (20.1/14.8)	15/11 (20.1/14.8)
No. of Tools	EA	30 [40]	30 [40]	30 [40]
Travel (X/Y/Z)	mm	900/460/520 (35.4″/18.1″/20.5″)	1,100/560/520 I 635 (43.3″/22″/20.5″ I 25″)	1,300/670/635 (51.2″/26.4″/25″)
Rapid Traverse Rate (X/Y/Z)	m/min	36/36/36 (1,417/ 1,417/ 1,417)	40/40/36 (1,575/1,575/1,417)	36/36/30 (1,417/1,417/1,181)

※ Please refer to the KF series catalogue for more details about spindle options. [ ] : Option

Versatile Vertical Machining Center

KF-B Series

MODEL		KF5700B I KF5700B/50 N	KF6700B I KF6700B/50 N	KF7700B I KF7700B/50 N
Table Size	mm(in)	1,300×570 (51.2″×22.4″)	1,500×670 (59″×26.4″)	1,650×760 (65″x30″)
Max. Load Capacity	kg(lb)	1,000 (2,205)	1,300 (2,866)	1,500 (3,307)
Sp. Taper	-	NT40 I NT50	NT40 I NT50	NT40 I NT50
Sp. Speed	r/min	8,000 [12,000] I 8,000 [8,000]	8,000 [12,000] I 8,000 [8,000]	8,000 [12,000] I 8,000 [8,000]
Sp. Power (Max.)	kW(HP)	15 (20.1) [18.5 (24.8)] I 15(20.1) [18.5(24.8)]	15 (20.1) [18.5 (24.8)] I 15(20.1) [18.5(24.8)]	15 (20.1) [18.5 (24.8)] I 15(20.1) [18.5(24.8)]
No. of Tools	EA	30 [40] I 24	30 [40] I 24 [30]	30 [40] I 24 [40]
Travel (X/Y/Z)	mm(in)	1,100/570/520 (43.3″/22.4″/20.5″)	1,300/670/635	1,500/760/635
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	30/30/24 (1,181/1,181/945)	30/30/24 (1,181/1,181/945)	30/30/24 (1,181/1,181/945)

[ ] : Option

High Speed Vertical Machining Center

F660M

MODEL		F660M
Table Size	mm(in)	1,600×650 (63″×25.6″)
Max. Load Capacity	kg(lb)	1,300 (2,866)
Sp. Taper	–	BBT40 [CAT40] [HSK-A63]
Sp. Speed	r/min	15,000 [20,000] [15,000]
Sp. Power (Max.)	kW(HP)	25/22 (33.5/29.5) [22/18.5 (29.5/24.8)] [26/26 (34.9/34.9)]
No. of Tools	EA	24 [30]
Travel (X/Y/Z)	mm(in)	1,400/660/635 (55.1″/26″/25″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	36/36/30 (1,417/1,417/1,181)

[ ] : Option ● : SIEMENS

Dual Table Type Vertical Machining Center

F410D/500D/600D

MODEL		F410D	F500D	F500DM	F600D
Table Size	mm(in)	2-650×410 (2-25.6″×16.1″)	2-700×500 (2-27.6″×19.7″)	2-700×500 (2-27.6″×19.7″)	2-900×650 (2-35.4″×25.6″)
Max. Load Capacity	kg(lb)	2-250 (2-551.2)	2-350 (2-771.6)	2-350 (2-771.6)	2-400 (2-881.8)
Sp. Taper	–	BT40	BT40	BT40	BT40
Sp. Speed	r/min	10,000 [8,000] [10,000]	8,000 [8,000] [10,000] [12,000]	12,000	8,000 [12,000]
Sp. Power	kW(HP)	18.5/15 (24.8/20.1) [15/11 (20.1/14.7)] [18/12 (24.1/16.1)]	15/11 (20.1/14.7) [27.8/18.5 (37.3/24.8)] [15/11 (20.1/14.7)] [11/7.5 (14.7/10)]	22/15 (29.5/20.1)	15/11 (20.1/14.7) [11/7.5 (14.7/10)]
No. of Tools	EA	24	24 [30]	30	24 [30]
Travel (X/Y/Z)	mm(in)	570/410/580 (22.4″/16.1″/22.8″)	600/460/570 (23.6″/18.1″/22.4″)	600/350/570 (23.6″/13.8″/22.4″)	800/600/600 (31.5″/23.6″/23.6″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	36/36/30 (1,417/1,417/1,181)	40/40/30 (1,575/1,575/1,181)	40/40/36 (1,575/1,575/1,417)	42/42/42 (1,653.5/1,653.5/1,653.5)

[ ] : Option ● : SIEMENS

Vertical Machining Center

F850

MODEL		F850
Table Size	mm(in)	1,800×850 (70.9″×33.5″)
Max. Load Capacity	kg(lb)	1,000 (2,205)
Sp. Taper	–	BT40
Sp. Speed	r/min	12,000
Sp. Power	kW(HP)	25/10.5 (33.5/14.1)
No. of Tools	EA	24 [30]
Travel (X/Y/Z)	mm(in)	1,600/850/580 (63″/33.5″/22.8″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	36/36/36 (1,417/1,417/1,417)

[ ] : Option

Box Guideway Vertical Machining Center

F510B/600B

MODEL		F510B	F600B
Table Size	mm(in)	1,200×500 (47.2″×19.7″)	1,600×600 (63″×23.6″) {When applying jig, Y-axis : 580 (22.8″)}
Max. Load Capacity	kg(lb)	800 (1,764)	1,000 (2,205)
Sp. Taper	-	BT40 [CAT40]	BT50 [CAT50]
Sp. Speed	r/min	8,000 [8,000]	4,500 [4500] [8,000] [8,000]
Sp. Power (Max.)	kW(HP)	15/11 (20.1/14.7) [15/11 (20.1/14.7)]	15/11 (20.1/14.7) [18.5/15 (24.8/20.1)] [15/11 (20.1/14.7)] [18.5/15 (24.8/20.1)]
No. of Tools	EA	24 [30]	20 [30]
Travel (X/Y/Z)	mm(in)	1,100/510/635 (43.3″/20.1″/25″)	1,150/600/600 (45.3″/23.6″/23.6″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	30/30/24 (1,181/1,181/944.8)	24/24/24 (944.8/944.8/944.8)

[ ] : Option

Heavy Duty Vertical Machining Center

F750B/960B

MODEL		F750B
Table Size	mm(in)	1,800×700 (70.9″×27.6″)
Max. Load Capacity	kg(lb)	2,000 (4,409)
Sp. Taper	-	BBT50 [CAT50]
Sp. Speed	r/min	4,500 [8,000] [12,000] [4,500] [8,000]
Sp. Power (Max.)	kW(HP)	18.5/15 (24.8/20.1) [18.5/15 (24.8/20.1)] [30/25 (40.2/33.5)] [30/20 (40.2/26.8)] [30/20 (40.2/26.8)]
No. of Tools	EA	20 [30]
Travel (X/Y/Z)	mm(in)	1,550/750/720 (61″/29.5″/28.3″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	16/16/12 (630/630/472.4)

MODEL		F960B
Table Size	mm(in)	2,700×950 (106.3″×37.4″)
Max. Load Capacity	kg(lb)	4,500 (9,921)
Sp. Taper	-	BBT50 [CAT50]
Sp. Speed	r/min	8,000 [12,000] [8,000]
Sp. Power (Max.)	kW(HP)	22/18.5 (29.5/24.8) [30/25 (40.2/33.5)] [27.8/18.5 (37.3/24.8)]
No. of Tools	EA	20 [30, 40]
Travel (X/Y/Z)	mm(in)	2,450/960/850 (96.5″/37.8″/33.5″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	16/16/20 (630/630/787.4)

[ ] : Option ● : SIEMENS

Die & Mold Machining Center

Box-in-Box Structure (X/Z Axis)

The Y-axis is driven by two ball screws and feed motors to provide unprecedented speed, accuracy, stability, and acceleration than general purpose machines.

4-Way Structure on X Axis

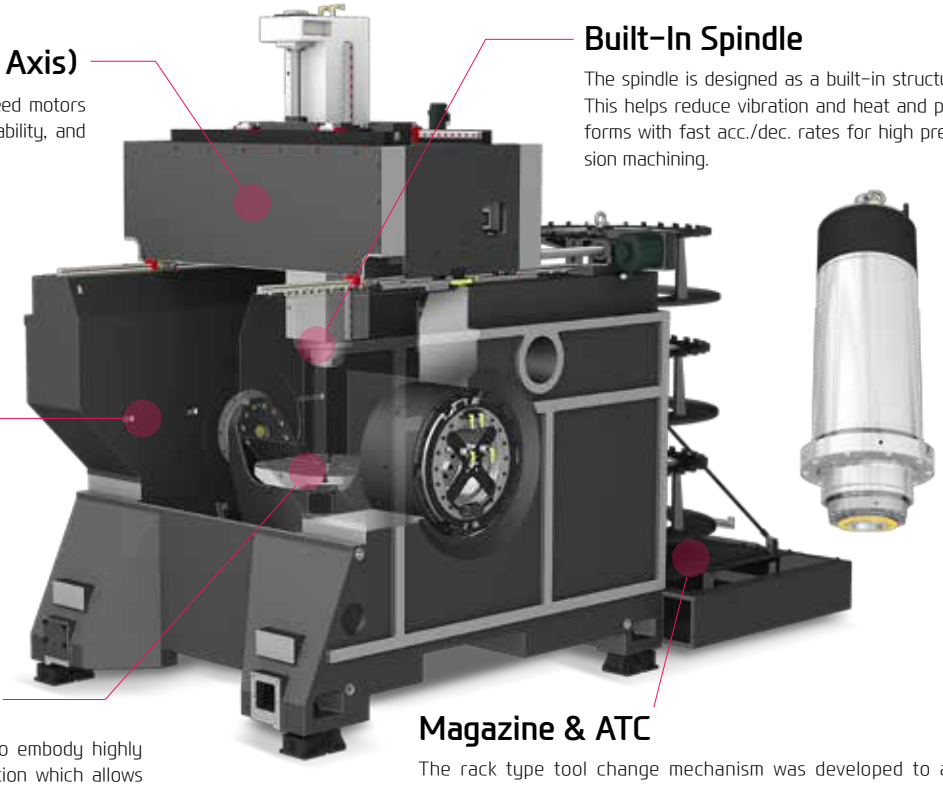
X-axis of XF6300 has box-type saddle design with 4-way structure in a cross beam to realize improved strength and minimal thermal displacement.

Column / Bed Integrated Structure

The XF6300 is designed with an unified column-bed structure providing superior stability when compared with separate structures. The All-in-One structure delivers high rigidity and excellent vibration absorption providing exceptional performance and superior surface finishes.

(DDM) Tilting Rotary Table

The XF6300 tilting rotary table is designed to embody highly accurate high speed simultaneous 5-axis motion which allows for the machining of complex prismatic parts with superior accuracy and surface finishes.



XF6300

Built-In Spindle

The spindle is designed as a built-in structure. This helps reduce vibration and heat and performs with fast acc./dec. rates for high precision machining.

Magazine & ATC

The rack type tool change mechanism was developed to add unprecedented extra-large capacity tool for vastly complex 5 axis machining applications. A single step rack magazine of 34 tools is provided standard. 68 and 102 tool capacity are optional.

Precision Mold Vertical Machining Center

Hi-MOLD Series

MODEL		Hi-MOLD450	Hi-MOLD560	Hi-MOLD560/5A
Table Size	mm(in)	850×500 (33.5″×19.7″)	1,250×600 (49.2″×23.6″)	LxH : Ø500×270 (19.7″×10.6″)
Max. Load Capacity	kg(lb)	300 (661.4)	800 (1,760)	250 (551)
Sp. Taper	-	HSK-A63 : 24,000 [HSK-E40 : 40,000]	HSK-A63 : 24,000 [HSK-E40 : 40,000]	HSK-A63 : 24,000 [HSK-E40 : 40,000]
Sp. Speed	r/min	24,000 [40,000]	24,000 [40,000]	24,000 [40,000]
Sp. Power (Max.)	kW(HP)	33/25 (44.2/33.5) [26/18 (34.9/24)]	33/25 (44.2/33.5) [26/18 (34.9/24)]	33/25 (44.2/33.5) [26/18 (34.9/24)]
No. of Tools	EA	24	24 [40]	24
Travel (X/Y/Z)	mm(in)	600(+350 ATC)/450/450 (23.6″/17.7″/17.7″)	1,000(+350 ATC)/560/450 (39.3″/22″/17.7″)	1,000(+350 ATC)/560/450 (39.3″/22″/17.7″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	50/50/50 (1,968/1,968/1,968)	50/50/50 (1,968/1,968/1,968)	50/50/50 (1,968/1,968/1,968)

MODEL		Hi-MOLD750/5A	Hi-MOLD6500
Table Size	mm(in)	Ø630×500 (24.8″×19.7″)	1,200×650 (47.2″×25.6″)
Max. Load Capacity	kg(lb)	500 (1,102)	1,000 (2,205)
Sp. Taper	-	HSK-A63	BBT40
Sp. Speed	r/min	15,000	20,000 [24,000]
Sp. Power (Max.)	kW(HP)	25/22 (33.5/29.5)	22/18.5 (29.5/24.8) [22/18.5 (29.5/24.8)]
No. of Tools	EA	30	30
Travel (X/Y/Z)	mm(in)	650/765(+350 ATC)/510 (25.6″/30.1″/20″)	1,100/650/550 (43.3″/25.6/21.7″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	50/50/50 (1,968/1,968/1,968)	40/40/40 (1575/1,575/1,575)

[ ] : Option

5-Axis Vertical Machining Center

XF6300

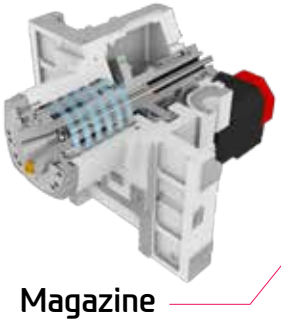
MODEL		XF6300 N
Table Size	mm(in)	Ø630 (Ø24.8″)
Max. Load Capacity	kg(lb)	600 (1,323)
Max. Macining Height	mm(in)	400 (15.7″)
Sp. Taper	-	HSK-A63 [40K :HSK-E40]
Sp. Speed	r/min	15,000 [24,000] [40,000]
Sp. Power (Max.)	kW(HP)	31 (41.6) [26 (35)] [26 (35)]
No. of Tools	EA	34 [68, 102]
Travel (X/Y/Z)	mm(in)	650/600/500 (25.6″/23.6″/19.7″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	60/60/60 (2,362/2,362/2,362)

[ ] : Option

KH Series
Horizontal Machining Center

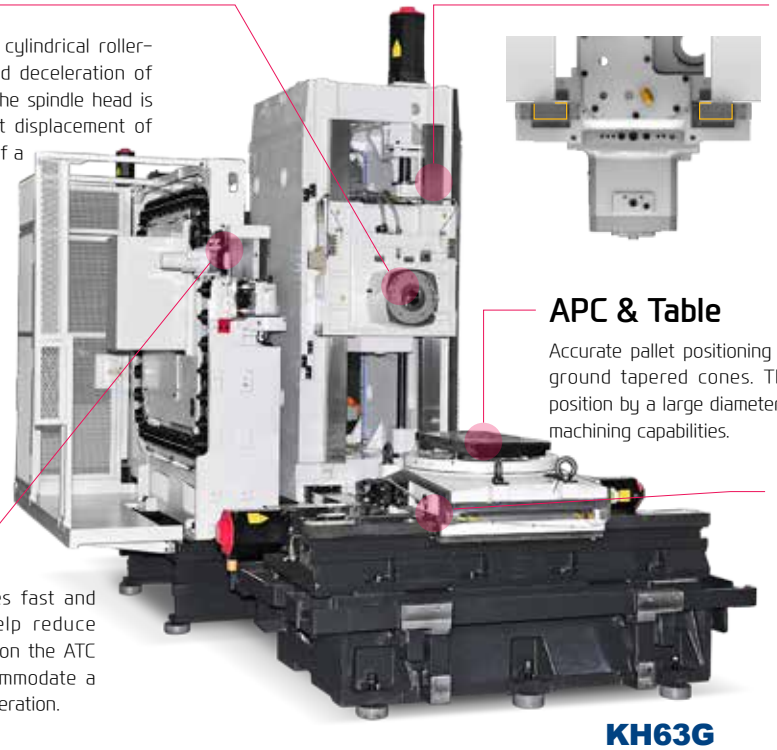
Spindle

By using ultra precision class cylindrical roller-bearings, fast acceleration and deceleration of the main spindle is achieved. The spindle head is designed to minimize the heat displacement of main spindle, and with the use of a hydraulic tool lock system the machining stability has been increased.



Magazine

The Double Arm ATC provides fast and reliable tool changes to help reduce machining cycle times In addition the ATC can be slowed down to accommodate a heavy tool ensuring smooth operation.



KH63G

Y axis Guide Surface for 8 Faces Restriction

The Y axis guide way has been developed using a unique design by Hyundai Wia Corporation.
This new method allows cutting forces generated by the spindle head to be absorbed by the Y axis box ways which improve heavy cutting, long-term high accuracy, and superior surface finishes.

APC & Table

Accurate pallet positioning is achieved by the use of 4 precision ground tapered cones. The table is hydraulically clamped in position by a large diameter curvic coupling allowing for increased machining capabilities.

Air Semi-Rising Slide Way

By adapting the “semi-rising sliding ways” the load on the Z axis slide way is decreased.
By dramatically decreasing the slide way load the Z axis is able to hold tolerance and repeatability over longer cycle times.

Heavy Duty Horizontal Machining Center

KH50G/63G

MODEL		KH50G	KH63G
Pallet Size	mm(in)	500×500 (19.7″×19.7″)	630×630 (24.8″×24.8″)
Max. Load Capacity	kg(lb)	2-800 (2-1,763.7)	2-1,000 (2-2,204.6)
Sp. Taper	-	BT50 [BBT50][CAT50][BCV50]	BT50 [BBT50][CAT50][BCV50]
Sp. Speed	r/min	4,500 [4,500] [8,000] [8,000] [4,500] [8,000]	4,500 [4,500] [8,000] [8,000] [4,500] [8,000]
Sp. Power	kW(HP)	18.5 (24.8) [22 (29.5)] [18.5 (24.8)] [22 (29.5)] [18.5 (24.8)] [18.5 (24.8)]	22 (29.5) [26 (34.9)] [22 (29.5)] [26 (34.9)] [22.2 (30)] [22.2 (30)]
No. of Tools	EA	40 [60, 90, 120]	40 [60, 90, 120]
Travel (X/Y/Z)	mm(in)	760/705/650 (29.9″/27.8″/25.6″)	950/825/760 (37.4″/32.5″/29.9″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	20/20/20 (787.4/787.4/787.4)	20/20/20 (787.4/787.4/787.4)

[ ] : Option ● : SIEMENS

Heavy Duty Horizontal Machining Center

KH80G

MODEL		KH80G
Pallet Size	mm(in)	2-800×800 (2×31.5″×31.5″)
Max. Load Capacity	kg(lb)	2-2,200 (2-4,850)
Sp. Taper	-	BT50 [BBT50] [CAT50] [HSK-A100]
Sp. Speed	r/min	4,500 [6,000]
Sp. Power	kW(HP)	26/22 (34.9/29.5) [26/22 (34.9/29.5)]
No. of Tools	EA	40 [80, 120]
Travel (X/Y/Z)	mm(in)	1,250/1,000/850 (49.2″/39.4″/33.5″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	18/18/18 (708.7/708.7/708.7)

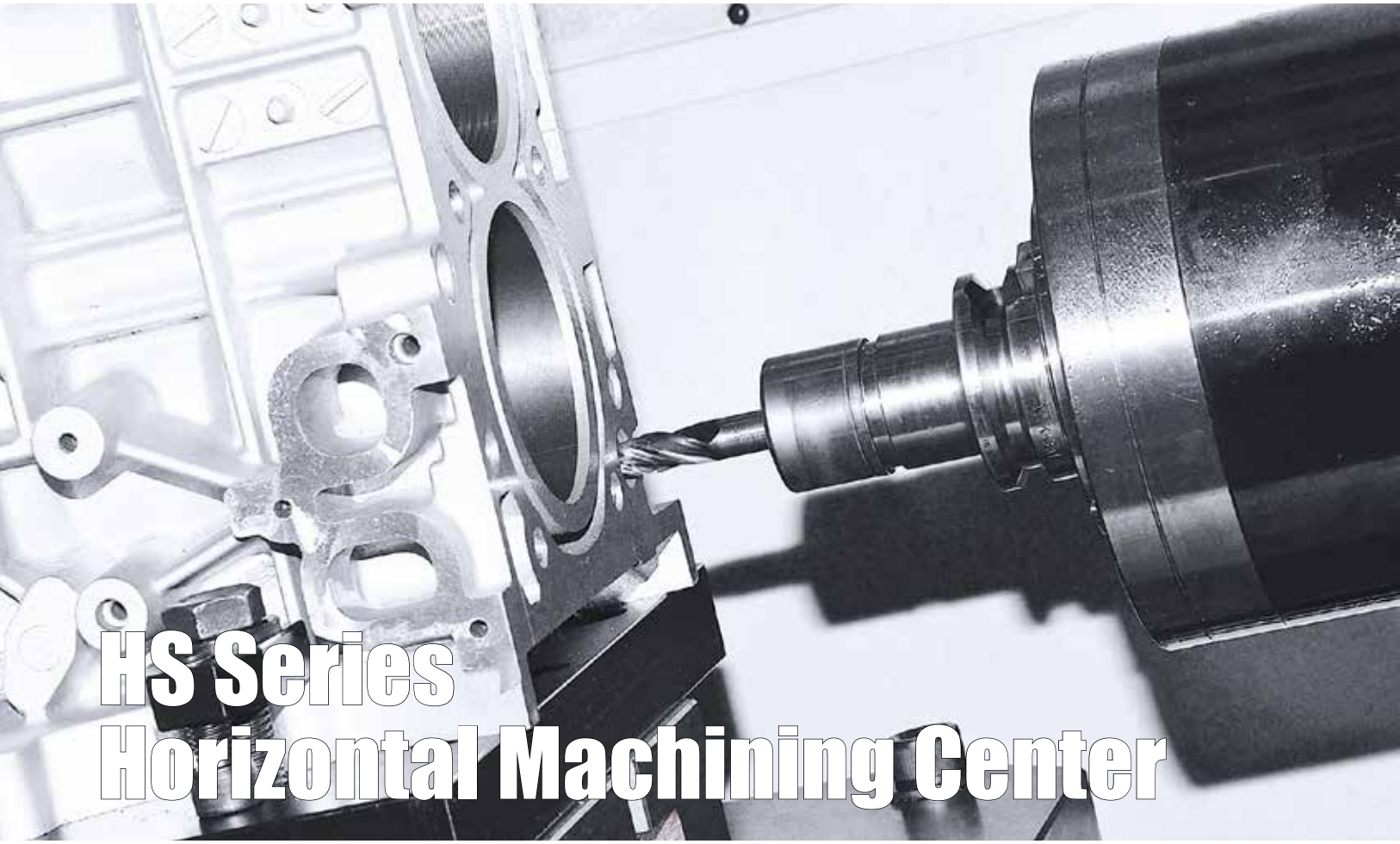
[ ] : Option

Heavy Duty Horizontal Machining Center

KH1000

MODEL		KH1000
Pallet Size	mm(in)	1,000×1,000 (39.4″×39.4″)
Max. Load Capacity	kg(lb)	2-3,000 (2-6,613.9)
Sp. Taper	-	BBT50 [BCV50]
Sp. Speed	r/min	8,000 [4,500] [8,000]
Sp. Power	kW(HP)	26/22 (34.9/29.5) [26/22 (34.9/29.5)] [26/22 (34.9/29.5)]
No. of Tools	EA	60 [90, 120]
Travel (X/Y/Z)	mm(in)	2,100/1,350/1,400 (82.7″/53.1″/55.1″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	20/20/20 (787.4/787.4/787.4)

[ ] : Option ● : SIEMENS



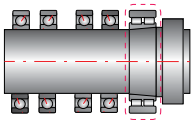
HS Series
Horizontal Machining Center

APC & Table

Servo-motor driven APC is designed with Hyundai WIA's advanced technology where APC driving time is reduced significantly. Its best-in-class APC changing time helps reducing non-cutting time and improving productivity.

Built-in Spindle

Built-in main spindle can minimize vibration and heat during high-speed rotation and achieve fast acceleration/deceleration.
By applying taper roller bearing (6,000rpm) for heavy duty cutting, it is suitable for machining difficult-to-cut materials such as cast iron.



<< Taper Roller Bearing
(6,000r/min)

Nut Cooling Type Ball Screw

Decreased heat distortion of travel axis during the repetition time to demonstrate excellent efficiency in work cutting.
Moreover, expanded ball screw's diameter to tolerate the travel load when cutting works and improved motor efficiency to present optimized travel ability.

HS4000M

Step Type Bed Structure

Increased rigidity by giving a slope in the bed column to decrease the load when cutting works. Also, fulfilled travel safety and travel load by optimizing column weight.

GOOD DESIGN

High Speed Horizontal Machining Center

HS Series

MODEL		HS4000/4000M	HS4000i	HS5000i
Pallet Size	mm(in)	400×400 (15.7″×15.7″)	400×400 (15.7″×15.7″)	500×500 (19.7″×19.7″)
Max. Load Capacity	kg(lb)	2-500 (2-1,102)	2-500 (2-1,102)	2-500 (2-1,102)
Sp. Taper	-	BBT40 [BCV40] [HSK-A63]	BBT40 [BCV40] [HSK-A63]	BBT40 [BCV40] [HSK-A63]
Sp. Speed	r/min	15,000	12,000	12,000 [10,000] [12,000]
Sp. Power	kW(HP)	25/22 (33.5/29.5)	25/22 (33.5/29.5)	25/22 (33.5/29.5) [38/25 (51/33.5)] [26 (34.9)]
No. of Tools	EA	40 [60, 80, 120]	40 [60, 80, 120]	40 [60, 80, 120]
Travel (X/Y/Z)	mm(in)	620/560/650 (24.4″/22″/25.6″)	620/560/650 (24.4″/22″/25.6″)	850/700/750 (33.5″/27.6″/29.5″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	60/60/60 (2,362/2,362/2,362)	50/50/50 (1,968/1,968/1,968)	50/50/50 (1,968/1,968/1,968)

MODEL		HS5000	HS5000/50 I HS5000M/50	HS5000M-1P	HS5000M/50-1P
Pallet Size	mm(in)	500×500 (19.7″×19.7″)	500×500 (19.7″×19.7″)	500×500 (19.7″×19.7″)	500×500 (19.7″×19.7″)
Max. Load Capacity	kg(lb)	2-500 (2-1,102)	2-800 (2-1,764)	800 (1,764)	800 (1,764)
Sp. Taper	-	BBT40 [BCV40] [HSK-A63]	BBT50 [BCV50] [HSK-A100]	BBT40 [BCV40] [HSK-A63]	BBT50 [BCV50] [12K : HSK-A100]
Sp. Speed	r/min	15,000	12,000 I 12,000 [6,000]	15,000	12,000 [6,000]
Sp. Power	kW(HP)	25/22 (33.5/29.5)	30/25 (40.2/33.5) I 45/25 (60.3/33.5)	37/22 (49.6/29.5)	45/25 (60.3/33.5)
No. of Tools	EA	40 [60, 80, 120]	40 [60]	40 [60, 80, 120]	40 [60]
Travel (X/Y/Z)	mm(in)	850/700/750 (33.5″/27.6″/29.5″)	850/700/750 (33.5″/27.6″/29.5″)	850/700/750 (33.5″/27.6″/29.5″)	850/700/750 (33.5″/27.6″/29.5″)
Rapid Traverse Rate (X/Y/Z)	m/min (ipm)	60/60/60 (2,362/2,362/2,362)	50/50/50 (1,968/1,968/1,968) I 60/60/60 (2,362/2,362/2,362)	60/60/60 (2,362/2,362/2,362)	60/60/60 (2,362/2,362/2,362)

MODEL		HS6300	HS8000
Pallet Size	mm(in)	2-630×630 (2-24.8″×24.8″)	2-800×800 (2-31.5″×31.5″)
Max. Load Capacity	kg(lb)	2-1,200 (2-2,645.5)	2-1,600 (2-3,527.4)
Sp. Taper	-	BBT50 [BCV50] [HSK-A100]	BBT50 [BCV50] [HSK-A100]
Sp. Speed	r/min	8,000 [8,000] [12,000]	8,000 [8,000] [12,000]
Sp. Power	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [30/25 (40.2/33.5)]	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [30/25 (40.2/33.5)]
No. of Tools	EA	40 [60, 90, 120]	40 [60, 90, 120]
Travel (X/Y/Z)	mm(in)	1,050/875/875 (41.3″/34.4″/34.4″)	1,050/875/875 (41.3″/34.4″/34.4″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	50/50/50 (1,968/1,968/1,968)	50/50/50 (1,968/1,968/1,968)

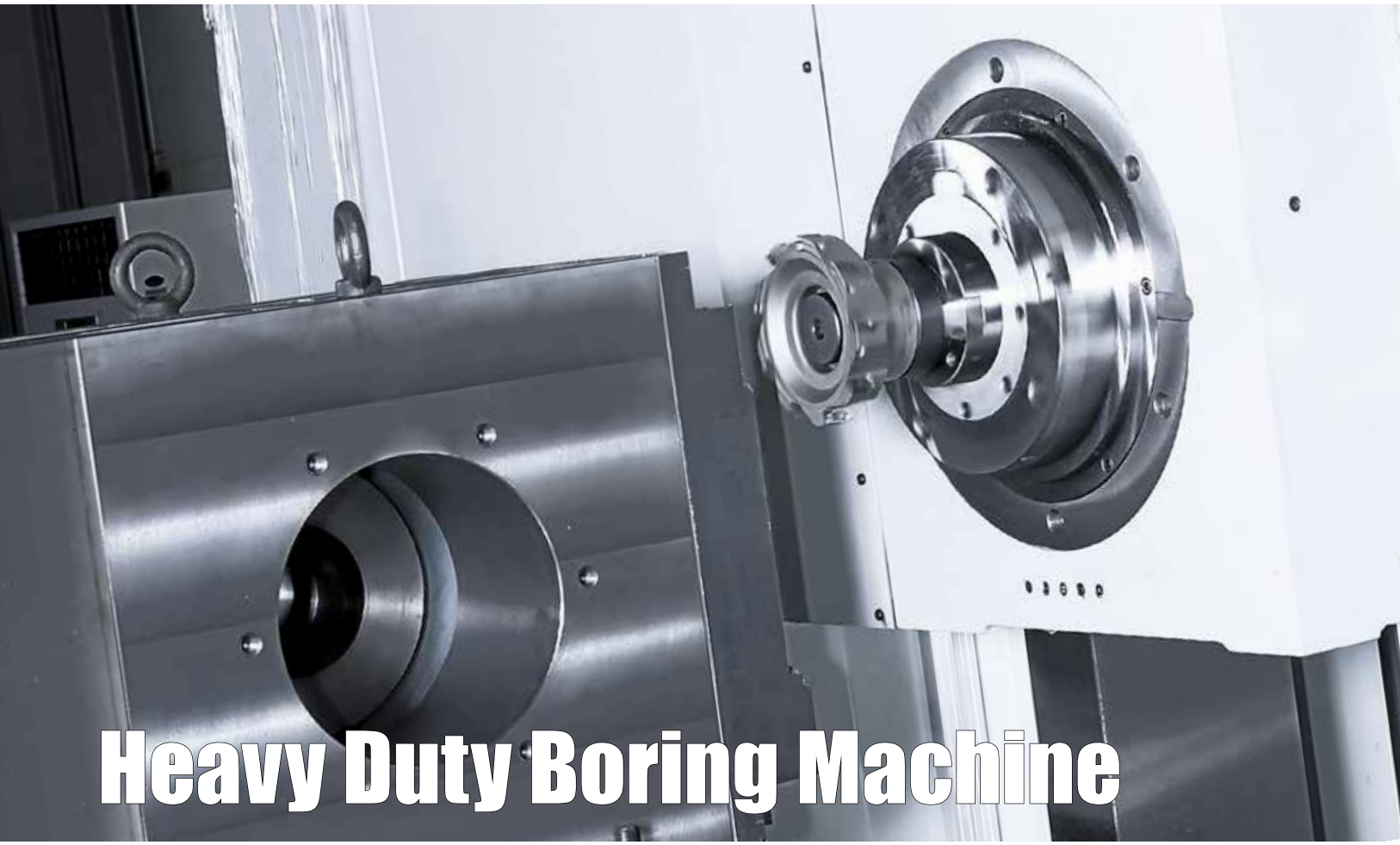
[ ] : Option ● : SIEMENS

Fast & Powerful Horizontal Machining Center

XH6300

MODEL		XH6300 N
Pallet Size	mm(in)	2-630×630 (24.8″×24.8″)
Max. Load Capacity	kg(lb)	2-1,500 (3,307)
Sp. Taper	-	BIG PLUS #50 [HSK-A100]
Sp. Speed	r/min	10,000 [16,000]
Sp. Power	kW(HP)	90/60 (120.7/80.5)
No. of Tools	EA	40 : Ring Type [60, 90, 120 : Chain] [160, 180, 240, 348 : Matrix]
Travel (X/Y/Z)	mm(in)	1,050/900/1,000 (41.3″/35.4″/39.4″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	60/60/60 (2,362/2,362/2,362)

[ ] : Option



Heavy Duty Boring Machine

ATC &Magazine

Tool magazines can be supplied to hold 40, 60, 90 or 120 tools. Each magazine uses the fixed address method for easy loading convenience. As servo motor is used to guarantee quick tool selection.

The Double Arm ATC provides fast and reliable tool changes to help reduce machining cycle times

B-Axis Spur Gear

The B-Axis is driven by a Spur Gear to improve productivity, and increase the table positioning speed.

KBN135C

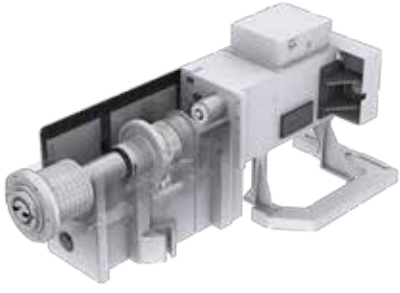
Table

The B-Axis rotary encoder has been applied as standard equipment allowing the table to be positioned between 0.001° and 90°.

Spinlde

By using ultra precision class cylindrical roller-bearings, fast acceleration and deceleration of the main spindle is achieved.

The spindle head is designed to minimize the heat displacement of main spindle, and with the use of a hydraulic tool lock system the machining stability has been increased.



The KBN135 Series is designed with a 3-step gear drive, providing both high spindle speed and high low end torque.

Box Guide Way

All Guideways are hardened and ground box type for long-term rigidity and accuracy.

Table Moving Type Boring Machine KBM135

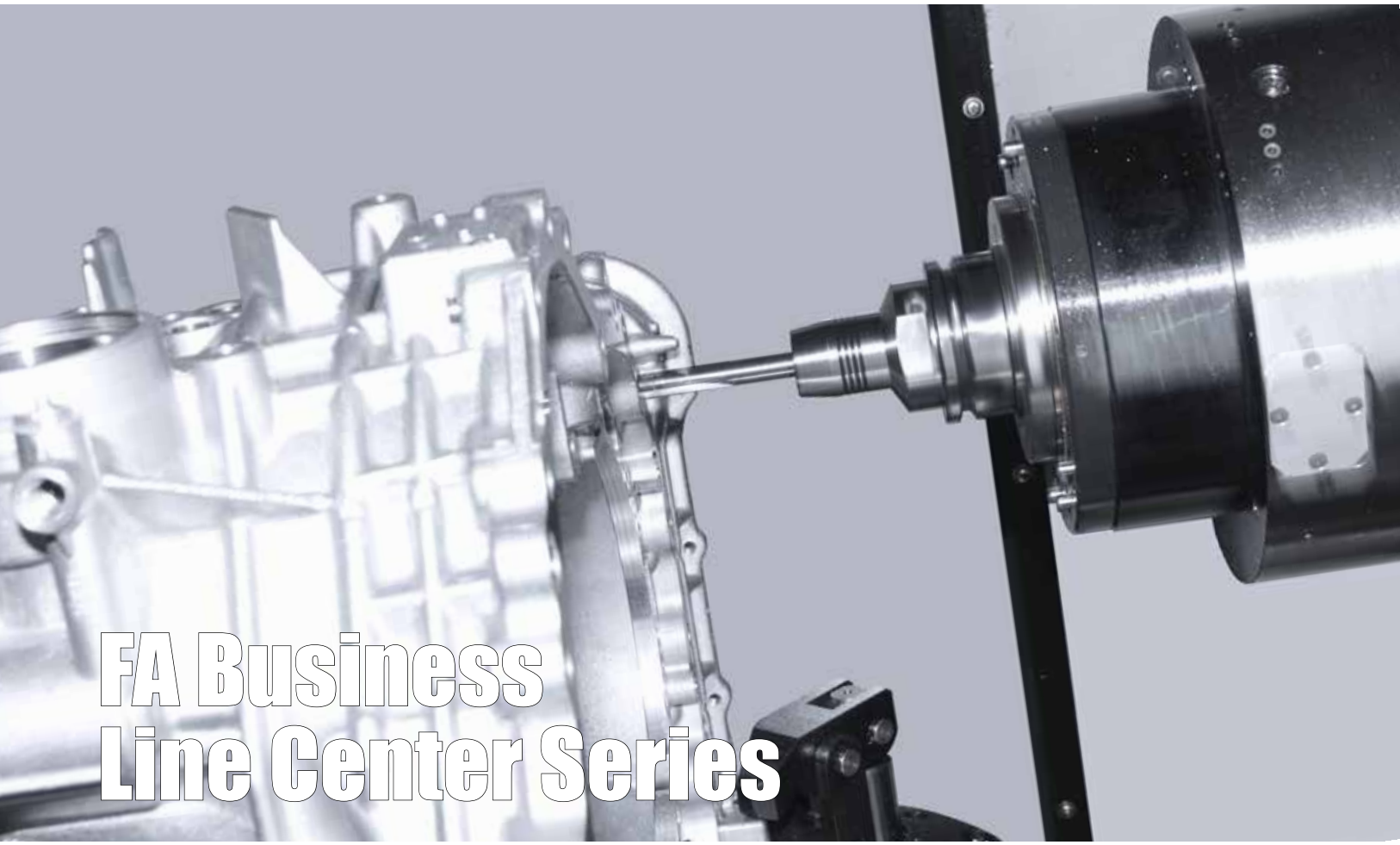
MODEL		KBM135	KBM135 (Option : Expansion)
Pallet Size	mm(in)	2,000×1,800 (78.7″×70.9″)	2,000×1,800 (78.7″×70.9″)
Max. Load Capacity	kg(lb)	10,000 (22,046.2)	10,000 (22,046)
Min. Indexing Angle	deg	0.001° / 90° (LOCATING PIN)	0.001° / 90° (LOCATING PIN)
Sp. Quill Dia.	mm(in)	Ø135 (5.3″)	Ø135 (5.3″)
Sp. Taper	-	BT50	BT50
Sp. Speed	r/min	2,000 [2,000] [2,000]	2,000 [2,000] [2,000]
Sp. Power	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [37/30 (49.6/40.2)]	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [37/30 (49.6/40.2)]
Sp. Driving Method	-	3 Step Gear	3 Step Gear
No. of Tools	EA	40 [60, 90, 120]	40 [60, 90, 120]
Travel (X/Y/Z/W)	mm(in)	3,000/2,000/1,600/700 (118.1″/78.7″/63″/27.6″)	4,000/2,500/1,600/700 (157.5″/98.4″/63″/27.6″)
Rapid Traverse Rate(X/Y/Z/W)	m/min(ipm)	8/8/8/8 (315/315/315)	8/8/8/8 (315/315/315)

[ ] : Option

Column Moving Type Boring Machine KBM135C

MODEL		KBM135C	KBM135C (Option : Expansion)
Pallet Size	mm(in)	2,000×1,800 (78.7″×70.9″)	2,000×1,800 (78.7″×70.9″)
Max. Load Capacity	kg(lb)	15,000 (33,069) - within 300mm(11.8″) of the biased weight	20,000 (44,093) - within 300mm(11.8″) of the biased weight
Min. Indexing Angle	deg	0.001° / 90° (LOCATING PIN)	0.001° / 90° (LOCATING PIN)
Sp. Quill Dia.	mm(in)	Ø135 (5.3″)	Ø135 (5.3″)
Sp. Taper	-	BT50	BT50
Sp. Speed	r/min	2,000 [2,000] [2,000] [2,000]	2,000 [2,000] [2,000] [2,000]
Sp. Power	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [37/30 (49.6/40.2)] [37/31 (49.6/41.6)]	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [37/30 (49.6/40.2)] [37/31 (49.6/41.6)]
Sp. Driving Method	-	3 Step Gear	3 Step Gear
No. of Tools	EA	40 [60]	40 [60]
Travel (X/Y/Z/W)	mm(in)	3,000/2,000/1,600/700 (118.1″/78.7″/63″/27.6″)	4,000/2,500/2,000/700 (157.5″/98.4″/78.7″/27.6″)
Rapid Traverse Rate(X/Y/Z/W)	m/min(ipm)	10/10/10/8 (393.7/393.7/393.7/315)	7/10/10/8 (275.6/393.7/393.7/315)

[ ] : Option ● : SIEMENS



FA Business
Line Center Series

Spinlde

15,000 rpm built-in spidle is applied to minimize vibration and heat distortion and fulfilled variable speed High-accuracy P4 level bearings secure stable accuracy and demonstrates superior ability when cutting power train parts.

WH60T

Bed

Line Center Series are designed as all in one bed type of high stiffness casting and it is able to maintain high precision by absorbing the vibration on the powerful cutting.

Double Anchored Ball Screw

In order to remove the expansion and backlash of transmission axis occurred due to temperature increases when ball screw is transmitted, the bisection has been fixed with the precise 4 column of angular thrust bearing and the pressure applied. In addition, it makes precise axis transmission possible as it is directly connected to servo motor.

HSK Tool Holder

The HSK spindle offers users the fastest possible material removal rates, highest accuracy, and rigidity. It guarantees stability when run at high spindle speeds which is excellent for mold manufacturing.

Optimized Line Center for Power Train

WH50T/50TB/50TS/50D/60T

MODEL		WH50T I WH50TB	WH50TS N	WH50D N	WH60T
Pallet Size	mm(in)	Ø630 (Ø24.8″)	Ø400 (Ø15.7″)	Ø540 (Ø21.3″)	Ø600 (Ø23.6″)
Max. Load Capacity	kg(lb)	650 (1,433)	500 (1,102)	2×617.3 (1,361)	1,000 (2,204)
Max. Working Size	mm(in)	Ø800×H800 (Ø31.5″×H31.5″)	–	–	Ø750×H750 (Ø29..5″×H29.5″)
Sp. Taper	–	HSK-A63 I HSK-A100	HSK-A63	HSK-A63	HSK-A100
Sp. Speed	r/min	16,000 I 10,000	16,000	20,000	6,000
Sp. Power	kW(HP)	28 (37.5) I 26 (35)	28 (37.5)	20 (26.8)	29.3 (39.3)
No. of Tools	EA	40 [30, 50] I 20 [30]	40	2×45	30 [12+4]
Travel (X/Y/Z)	mm(in)	630/630/800 (24.8″/24.8″/31.5″])	630/560/630 (24.8″/22″/24.8″)	600/655/685 (23.6″/25.8″/27″)	800/630/1,000 (31.5″/24.8″/39.3″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	62/62/62 (2,441/2,441/2,441)	62/62/62 (2,441/2,441/2,441)	90/75/100 (3,543/2,953/3,937)	60/60/60 (2,362/2,362/2,362)

[ ] : Option

Optimized Line Center for Power Train

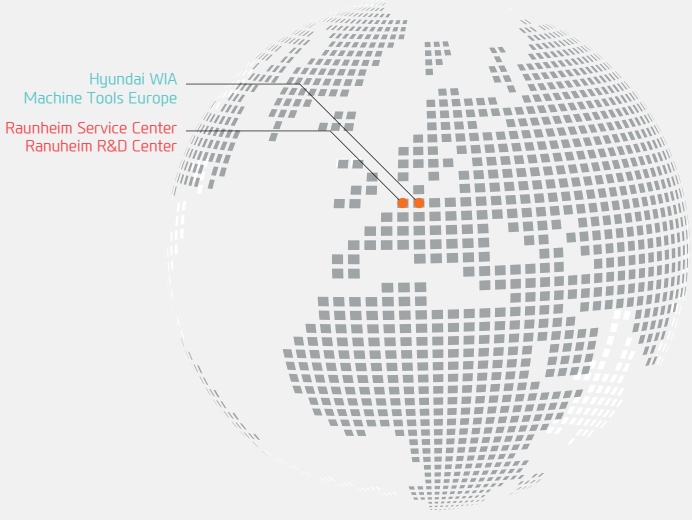
WH40R/RS/50C/63T/80T/100T

MODEL		WH40R N	WH40RS N	WH50C
Pallet Size	mm(in)	Ø400 (Ø15.7″)	Ø400 (Ø15.7″)	Ø500 (Ø19.7″)
Max. Load Capacity	kg(lb)	500 (1,102)	500 (1,102)	900 (1,984)
Max. Working Size	mm(in)	–	–	Ø1,000×H900 (Ø39.4″×H35.4″)
Sp. Taper	–	HSK-A63	HSK-A63	HSK-A63
Sp. Speed	r/min	8,000 [12,000]	8,000 [12,000]	15,000
Sp. Power	kW(HP)	9 (12.1)	9 (12.1)	26 (35)
No. of Tools	EA	20	40	40
Travel (X/Y/Z)	mm(in)	500/250/400 (19.7″/9.8″/15.7″)	500/500/400 (19.7″/19.7″/15.7″)	630 [700]/560/560 [800] (24.8″ [27.6″]/22″/22″ [31.5″])
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	62/62/62 (2,441/2,441/2,441)	62/62/62 (2,441/2,441/2,441)	62/62/62 (2,441/2,441/2,441)

MODEL		WH63T I 80T	WH100T
Pallet Size	mm(in)	630x630 (24.8″x24.8″) I 800x800 (31.5″x31.5″)	Ø800 (31.5″)
Max. Load Capacity	kg(lb)	2,000 (4,409) I 3,000 (6,614)	3,000 (6,613)
Max. Working Size	mm(in)	Ø1,000×1,100 (Ø39.4″x43.3″)	Ø1,400×H1,300 (Ø55″×H51″)
Sp. Taper	–	HSK-A100	HSK-A100
Sp. Speed	r/min	5,000	4,500
Sp. Power	kW(HP)	22 (29.5)	30 (40)
No. of Tools	EA	40	40
Travel (X/Y/Z)	mm(in)	1,050/875/875 (41.3″/34.4″/34.4″)	1,400/1,100/1,150 (55.1″/43.3″/45.2″)
Rapid Traverse Rate(X/Y/Z)	m/min(ipm)	50/50/50 (1,968/1,968/1,968)	40/40/40 (1575/1,575/1,575)

[ ] : Option


Hyundai WIA
Machine Tools America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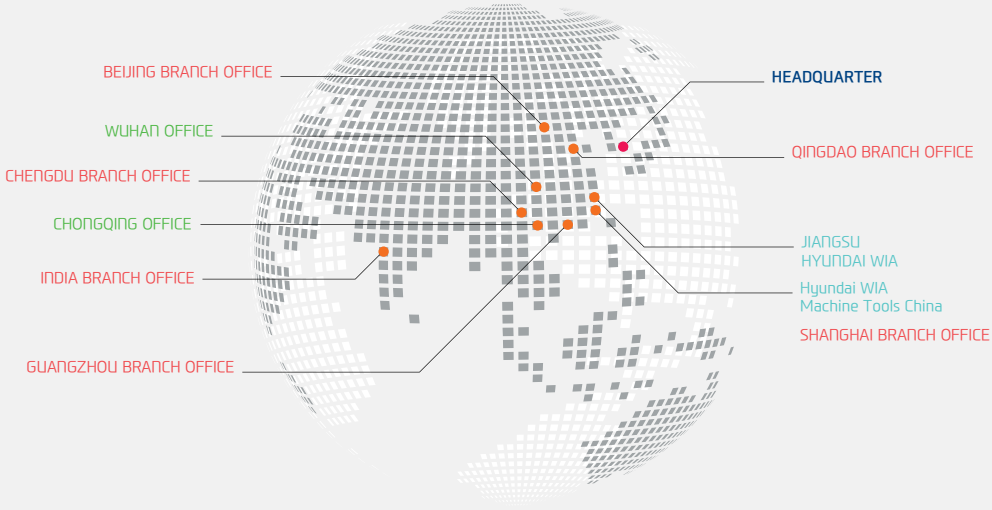
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