

HYUNDAI WIA

MACHINE TOOLS LINE-UP



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

04 - CNC Turning Center Series

KIT Series | E160 Series | E200 Series | L210 Series | L160 Series | L230 Series | L280 Series
L300 Series | L400 Series | L600/700/800 Series | LV Series | LV1400/LV2000MF | LF1600 Series
LF2000/2500 Series | LF2100/2600 Series | L-Y Series | L2100Y/SY | LM1600/1800TT Series
LM2500TT Series | L500/600AW Series

18 - Vertical Machining Center Series

i-CUT T Series | i-CUT M Series | F400/500/650 | F400/500/650 VM | F510M/550M/660M
FD Series | F850 | F510B/F600B | F750B/960B | Hi-MOLD Series

26 - Horizontal Machining Center Series

KH50G/63G | KH80G | KH1000 | HS4000/5000 Series | HS6300/8000

30 - CNC Boring Machine

KBΠ135 | KBΠ135C

32 - FA Line Center

WH63TM/63TMB | WH100TM | WH50TFR/50TFC | WH1000

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.

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.

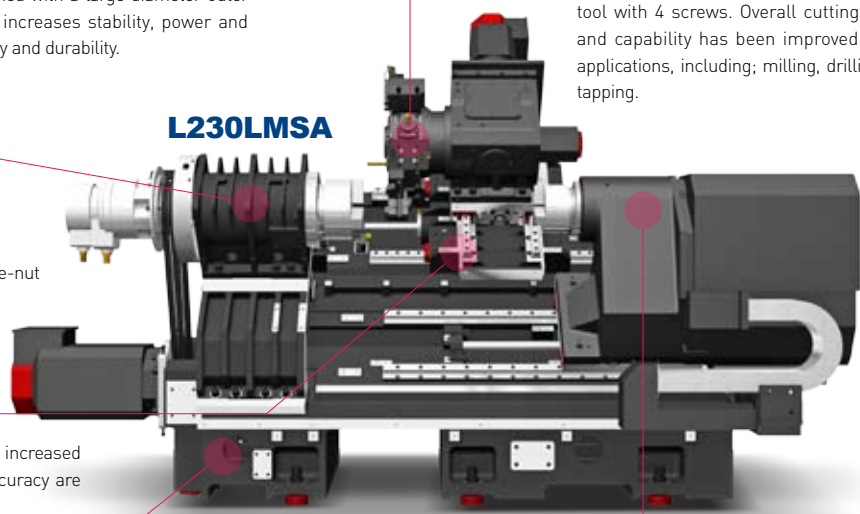
Roller Type LM Guide

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 a high rigidity. As absorption capability for vibration is good, powerful cutting and high precision maintaining is allowed.

L230LMSA



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.



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**

ITEM		KIT250	KIT450
Max. Swing	mm(in)	Ø320 (12.6")	Ø530 (30.9")
Max. Turning Length	mm(in)	150 (5.9")	300 (11.8")
Chuck Size	inch	5"	6"
Bar Capacity	mm(in)	Ø32 (1.26")	Ø45 (1.8")
Sp. Speed	r/min	7,000	6,000 [6,000]
Sp. Power	kW(HP)	5.5/3.7 (7.3/5)	15/11 (20/15) [10.8/9 (14.5/12)]
Travel (X/Z)	mm(in)	250/200 (9.8"/7.9")	450/300 (17.7"/11.8")
No. of Tools	EA	4	6

[] : Option • : SIEMENS



Economy Type CNC Turning Center

E160/200 Series

ITEM		E160A E160LA	E160C E160LC	E160LMA E160LMC
Max. Swing	mm(in)	Ø480 (18.9")	Ø480 (18.9")	Ø480 (18.9")
Max. Turning Length	mm(in)	300 (11.8") 510 (20.1")	510 (20.1") 280 (11")	450 (17.7")
Chuck Size	inch	6"	8"	6" 8"
Bar Capacity	mm(in)	Ø45 (1.8")	Ø51 (2")	Ø45 (1.8") Ø51 (2")
Sp. Speed	r/min	6,000 [6,000]	4,000 [4,000] [4,000]	6,000 4,000
Sp. Power	kW(HP)	11/7.5 (15/10) [10.8/9 (14.5/12)]	11/7.5 (15/10) [15/11 (20/15)] [10.8/9 (14.5/12)]	7.5/5.5 (10/7.3) 11/7.5 (15/10)
Travel (X/Z)	mm(in)	165/330 (6.5"/13") 165/530 (6.5"/20.9")	165/530 (6.5"/20.9") 165/330 (6.5"/13")	165/460 (6.5"/18.1")
No. of Tools	EA	12	10	12

ITEM		E200A	E200C	E200MA MC	E200PA	E200PC
Max. Swing	mm(in)	Ø550 (21.7")	Ø550 (21.7")	Ø550 (21.7")	Ø550 (21.7")	Ø550 (21.7")
Max. Turning Length	mm(in)	300 (11.8")	300 (11.8")	255 (10")	280 (11")	280 (11")
Chuck Size	inch	6"	8"	8"	6"	8"
Bar Capacity	mm(in)	Ø45 (1.8")	Ø65 (2.3")	Ø45 (1.8") Ø65 (2.3")	Ø45 (1.8")	Ø65 (2.3")
Sp. Speed	r/min	6,000 [6,000]	4,000 [4,000] [6,000]	6,000 4,000	6,000 [6,000]	4,000 [6,000]
Sp. Power	kW(HP)	15/11 (20/15) [10.8/9 (14.5/12)]	15/11 (20/15) [18.5/15 (25/20)] [10.8/9 (14.5/12)]	15/11 (20/15)	15/11 (20/15) [10.8/9 (14.5/12)]	15/11 (20/15) [10.8/9 (14.5/12)]
Travel (X/Z)	mm(in)	210/330 (8.3"/13")	210/330 (8.3"/13")	210/286 (8.3"/11.3")	210/310 (8.3"/12.2")	210/310 (8.3"/12.2")
No. of Tools	EA	12	12	12	12	12

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Standard CNC Turning Center **L210 Series**

ITEM		L210A	L210LA	L210C
Max. Swing	mm(in)	Ø550 (20.7")	Ø550 (20.7")	Ø550 (20.7")
Max. Turning Length	mm(in)	410 (16.1")	530 (20.9")	400 (15.7")
Chuck Size	inch	8"	8"	10"
Bar Capacity	mm(in)	Ø65 (1.8")	Ø65 (1.8")	Ø80 (3.1")
Sp. Speed	r/min	4,000 [4,000]	4,000 [4,000]	3,000
Sp. Power	kW(HP)	15/11 (20/15) [22/18.5 (30/25)]	15/11 (20/15) [22/18.5 (30/25)]	15/11 (20/15)
Travel (X/Z)	mm(in)	210/430 (8.3"/16.9")	210/550 (8.3"/21.7")	210/430 (8.3"/16.9")
No. of Tools	EA	12	12	12

[] : Option • : SIEMENS



Versatile CNC Turning Center

L160 Series

ITEM		L160A	L160LA	L160MA
Max. Swing	mm(in)	Ø600 (23.6")	Ø600 (23.6")	Ø600 (23.6")
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 (15/10) [10.8/9 (14.5/12)]	11/7.5 (15/10) [10.8/9 (14.5/12)]	11/7.5 (15/10) [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

ITEM		L160LMA	L160LMSA
Max. Swing	mm(in)	Ø600 (23.6")	Ø600 (23.6")
Max. Turning Length	mm(in)	550 (21.7")	550 (21.7")
Chuck Size	inch	6"	M:6" S:6"
Bar Capacity	mm(in)	Ø45 (1.8")	M:Ø45(1.8") S:Ø43(1.7")
Sp. Speed	r/min	6,000 [6,000]	M:6,000 [6,000] S:5,000 [5,000]
Sp. Power	kW(HP)	11/7.5 (15/10) [10.8/9 (14.5/12)]	M:11/7.5 (15/10) [10.8/9 (14.5/12)] S:5.5/3.7 (7.5/5) [5.9/4.9 (8/6.6)]
Travel (X/Z/B)	mm(in)	220/560 (8.7"/22")	220/560/590 (8.7"/22"/23.2")
No. of Tools	EA	12	12

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Versatile CNC Turning Center

L230 Series

ITEM		L230A	L230LA	L230MA	L230LMA
Max. Swing	mm(in)	Ø600 (23.6")	Ø600 (23.6")	Ø600 (23.6")	Ø600 (23.6")
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 (20/15) [22/18.5 (30/25)]	15/11 (20/15) [22/18.5 (30/25)]	15/11 (20/15) [22/18.5 (30/25)]	15/11 (20/15) [22/18.5 (30/25)]
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	12

ITEM		L230LMSA	L230C	L230MC
Max. Swing	mm(in)	Ø600 (23.6")	Ø600 (23.6")	Ø600 (23.6")
Max. Turning Length	mm(in)	521 (20.5")	422 (16.6")	342 (13.5")
Chuck Size	inch	M:8" S:6"	10"	10"
Bar Capacity	mm(in)	M:Ø65 (2.6") S:Ø43 (1.7")	Ø76 (3")	Ø76 (3")
Sp. Speed	r/min	M:4,000 [4,000] S:5,000 [5,000]	3,000	3,000
Sp. Power	kW(HP)	M:15/11 (20/15) [22/18.5 (30/25)] S:5.5/3.7 (7.5/5) [5.9/4.9 (8/6.6)]	18.5/15 (25/20)	18.5/15 (25/20)
Travel (X/Z/B)	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	12	12

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Standard CNC Turning Center L280 Series

ITEM		L280	L280L	L280LM
Max. Swing	mm(in)	Ø590 (23.2")	Ø590 (23.2")	Ø650 (25.6")
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 (30/25) [33.6/28 (45/37.5)]	22/18.5 (30/25) [33.6/28 (45/37.5)]	22/18.5 (30/25) [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	10	12

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Standard CNC Turning Center L300 Series

ITEM		L300A	L300MA	L300LA	L300MSA
Max. Swing	mm(in)	Ø750 (29.5")	Ø750 (29.5")	Ø750 (29.5")	Ø750 (29.5")
Max. Turning Length	mm(in)	720 (28.3")	680 (26.8")	1,320 (52")	680 (26.8")
Chuck Size	inch	10"	10"	10"	M:10" S:8"
Bar Capacity	mm(in)	Ø76 (3")	Ø76 (3")	Ø76 (3")	M:Ø76 (3") S:Ø65 (2.6")
Sp. Speed	r/min	3,600 [3,500]	3,500	3,600 [3,500]	M:3,500 S:4,000
Sp. Power	kW(HP)	22/18.5 (30/25) [22/18.5 (30/25)]	22/18.5 (30/25)	22/18.5 (30/25) [22/18.5 (30/25)]	M:22/18.5 (30/25) S:11/7.5 (15/10)
Travel (X/Z/B)	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"/27.6")
No. of Tools	EA	12	12	12	12

ITEM		L300LMA	L300LMSA	L300C	L300MC
Max. Swing	mm(in)	Ø750 (29.5")	Ø750 (29.5")	Ø750 (29.5")	Ø750 (29.5")
Max. Turning Length	mm(in)	1,280 (50.4")	1,250 (49.2")	720 (28.3")	600 (23.6")
Chuck Size	inch	10"	M:10" S:8"	12"	12"
Bar Capacity	mm(in)	Ø76 (3")	M:Ø76 (3") S:Ø65 (2.6")	Ø90 (3.5")	Ø90 (3.5")
Sp. Speed	r/min	3,500	M:3,500 S:4,000	3,000 [3,300]	3,000 [3,500]
Sp. Power	kW(HP)	22/18.5 (30/25)	M:22/18.5 (30/25) S:11/7.5 (15/10)	26/22 (35/30) [26.4/22 (35/30)]	22/18.5 (30/25) [33.6/28 (45/38)]
Travel (X/Z/B)	mm(in)	290/1,350 (11.4"/53.1")	290/1,350/1,200 (11.4"/53.1"/47.2")	335/750 (13.2"/29.5")	335/750 (13.2"/29.5")
No. of Tools	EA	12	12	12	12

ITEM		L300LC	L300MSC	L300LMC
Max. Swing	mm(in)	Ø750 (29.5")	Ø750 (29.5")	Ø750 (29.5")
Max. Turning Length	mm(in)	1,320 (52")	600 (23.6")	1,260 (49.6")
Chuck Size	inch	12"	M:12" S:8"	12"
Bar Capacity	mm(in)	Ø90 (3.5")	M:Ø90 (3.5") S:Ø65 (2.6")	Ø90 (3.5")
Sp. Speed	r/min	3,000 [3,300]	M:3,000 S:4,000	3,000 [3,500]
Sp. Power	kW(HP)	26/22 (35/30) [26.4/22 (35/30)]	M:26/22 (35/30) S:11/7.5 (15/10)	22/18.5 (30/25) [33.6/28 (45/38)]
Travel (X/Z/B)	mm(in)	355/1,350 (14"/53.1")	335/750/700 (13.2"/29.5"/27.6")	335/1,350 (13.2"/53.1")
No. of Tools	EA	12	12	12

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Heavy Duty Cutting 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

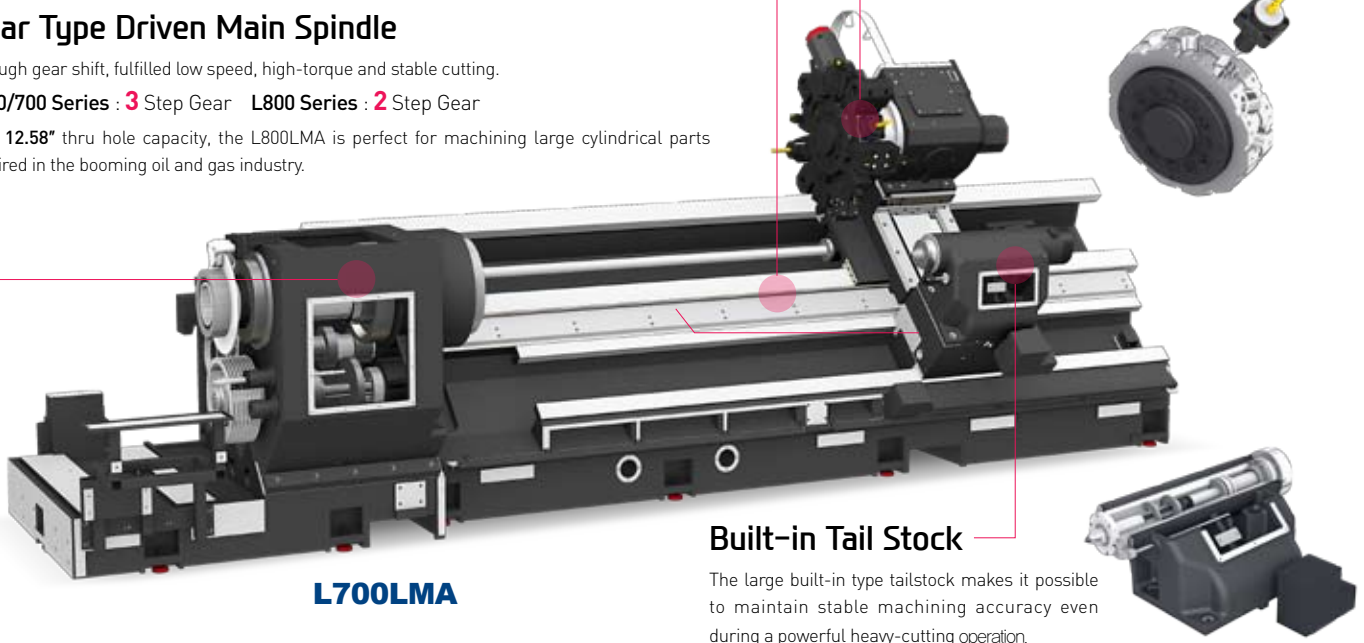
Through gear shift, fulfilled low speed, high-torque and stable cutting.

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.



Box Way CNC Turning Center **L400 Series**

ITEM		L400A	L400MA	L400C
Max. Swing	mm(in)	Ø780 (30.7")	Ø780 (30.7")	Ø780 (30.7")
Max. Turning Length	mm(in)	1,180 (46.5")	1,180 (46.5")	1,170 (46.1")
Chuck Size	inch	12"	12"	15"
Bar Capacity	mm(in)	Ø90 (3.5")	Ø90 (3.5")	Ø117 (4.6")
Sp. Speed	r/min	3,000	3,000	2,000
Sp. Power	kW(HP)	26/22 (35/30)	30/20 (40/26.8)	26/22 (35/30)
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")
No. of Tools	EA	12	12	10

ITEM		L400MC	L400LC	L400LMC
Max. Swing	mm(in)	Ø780 (30.7")	Ø725 (28.5")	Ø725 (28.5")
Max. Turning Length	mm(in)	1,180 (46.5")	2,120 (83.5")	2,100 (82.7")
Chuck Size	inch	15"	15"	15"
Bar Capacity	mm(in)	Ø117 (4.6")	Ø117 (4.6")	Ø117 (4.6")
Sp. Speed	r/min	2,000	2,000	2,000
Sp. Power	kW(HP)	37/30 (50/40)	37/30 (50/40)	37/30 (50/40)
Travel (X/Z)	mm(in)	320/1,200 (12.6"/47.2")	320/2,200 (12.6"/86.6")	320/2,200 (12.6"/86.6")
No. of Tools	EA	12	10	12



Heavy Duty CNC Turning Center **L600/700/800 Series**

ITEM		L600A/L600MA	L600LA/L600LMA	L700A/L700MA
Max. Swing	mm(in)	Ø1,050 (41.3")	Ø1,050 (41.3")	Ø1,050 (41.3")
Max. Turning Length	mm(in)	1,650 (65")	3,250 (128")	1,650 (65")
Chuck Size	inch	Opt. 21"/18"	Opt. 21"/18"	Opt. 24"
Bar Capacity	mm(in)	21": Ø139 (5.5")/18": Ø117 (4.6")	21": Ø139 (5.5")/18": Ø117 (4.6")	Ø165 (6.5")
Sp. Speed	r/min	1,800	1,800	1,500
Sp. Power	kW(HP)	45/37 (60/50)	45/37 (60/50)	45/37 (60/50)
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	12

ITEM		L700LA/L700LMA	L800A/L800MA L800D	L800LA/L800LMA
Max. Swing	mm(in)	Ø1,050 (41.3")	Ø1,050 (41.3")	Ø1,050 (41.3")
Max. Turning Length	mm(in)	3,250 (128")	1,650 (65")	3,250 (128")
Chuck Size	inch	Opt. 24"	Opt. 32" Opt. 34" Air Chuck	Opt. 32"
Bar Capacity	mm(in)	Ø165 (6.5")	Ø240 (9.4")	Ø240 (9.4")
Sp. Speed	r/min	1,500	700 500	700
Sp. Power	kW(HP)	45/37 (60/50)	45/37 (60/50) 45/37 (60/50)	45/37 (60/50)
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	12

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.



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



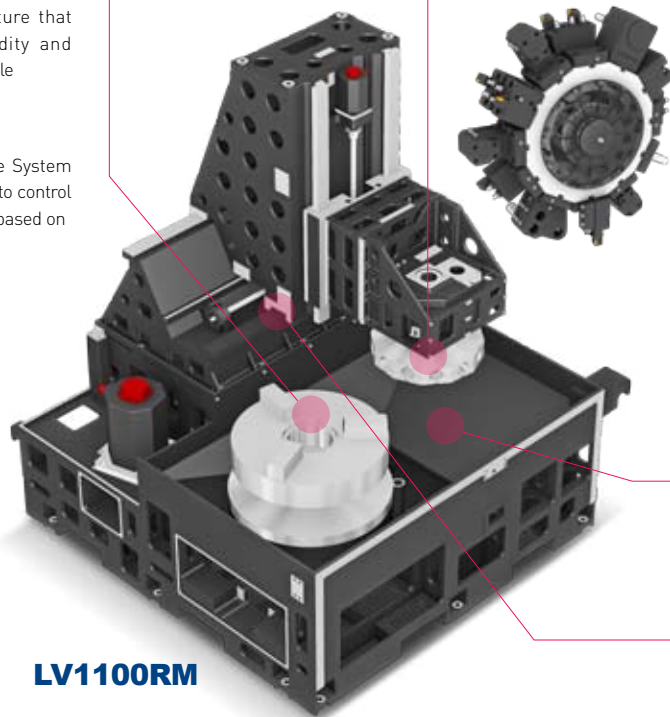
Chute Structure

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

LV1100RM



Vertical CNC Turning Center **LV Series**

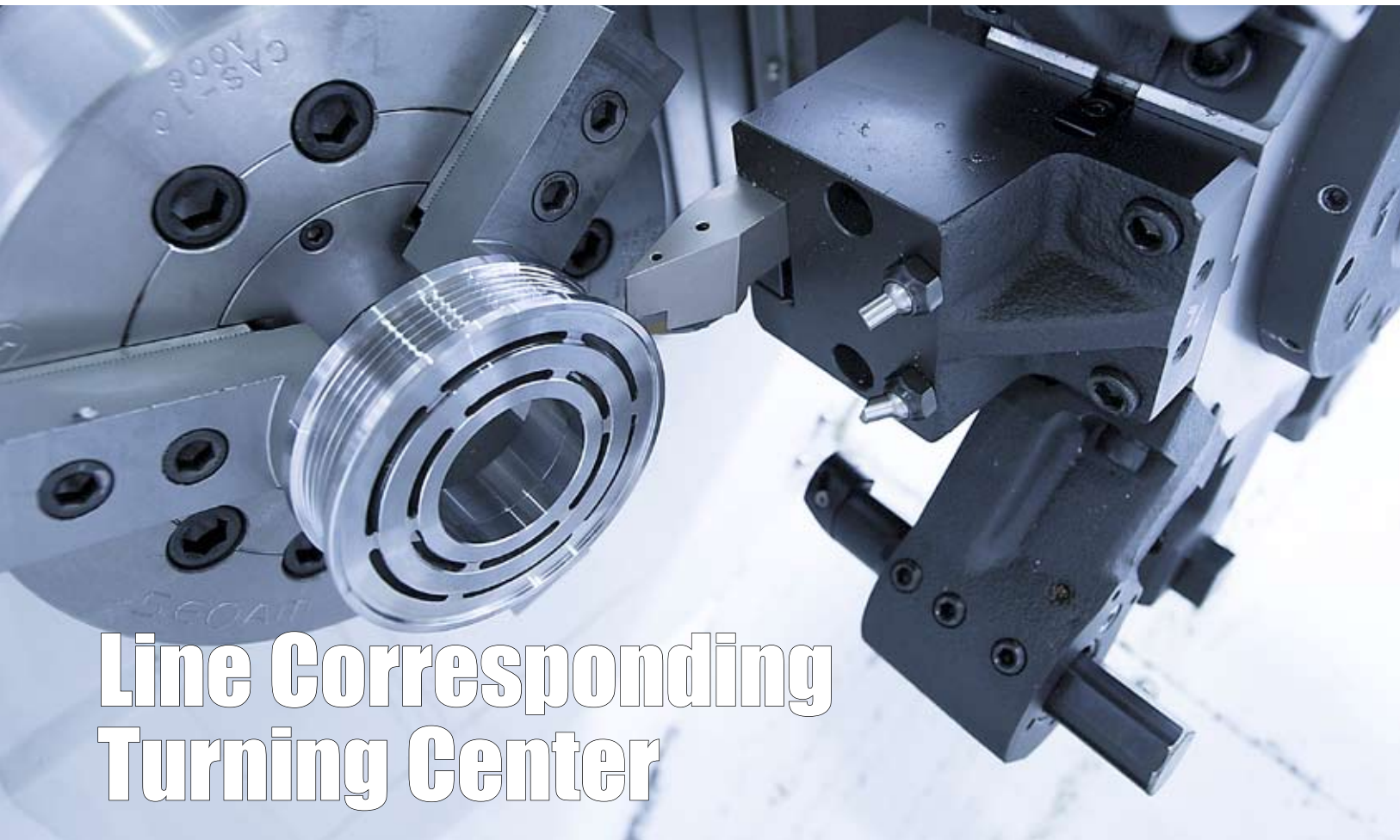
ITEM		LV450RM	LV500R/L/RM/LM	LV800R/L/RM/LM
Max. Swing	mm(in)	Ø620 (24.4")	Ø760 (29.9")	Ø890 (35")
Max. Turning Dia.	mm(in)	Ø465 (18.3")	Ø550 (21.7")	Ø800 (31.5")
Max. Turning Length	mm(in)	465 (18.3")	600 (23.6")	800 (31.5")
Chuck Size	inch	12"	15" [18"]	18" [20", 24"]
Sp. Speed	r/min	3,000	2,000	2,000 [2,000]
Sp. Power (Max.)	kW(HP)	22 (30)	22 (30) [30 (40)] [30 (40)]	30 (40) [37 (50)] [37 (50)] [30 (40)]
Travel (X/Z)	mm(in)	310/495 (12.2"/19.5")	325/625 (12.8"/24.6")	440/800 (17.3"/31.5")
No. of Tools	EA	12	8 / 12 (M Type)	12

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ITEM		LV800RAW/LAW	LV1100R/RM
Max. Swing	mm(in)	Ø890 (35")	Ø1,355 (53.3")
Max. Turning Dia.	mm(in)	Ø800 (31.5")	Ø1,160 (45.7")
Max. Turning Length	mm(in)	800 (31.5")	1,000 (39.4")
Chuck Size	inch	Chuckless Type	40" [32"]
Sp. Speed	r/min	2,000	800 [630]
Sp. Power (Max.)	kW(HP)	45/37 (60/50)	60/55/45 (80/73.7/60)
Travel (X/Z)	mm(in)	440/800 (17.3"/31.5")	620/1,000 (24.4"/39.4")
No. of Tools	EA	12	12

Ram Type Vertical CNC Turning Center **LV1400/LV2000MF**

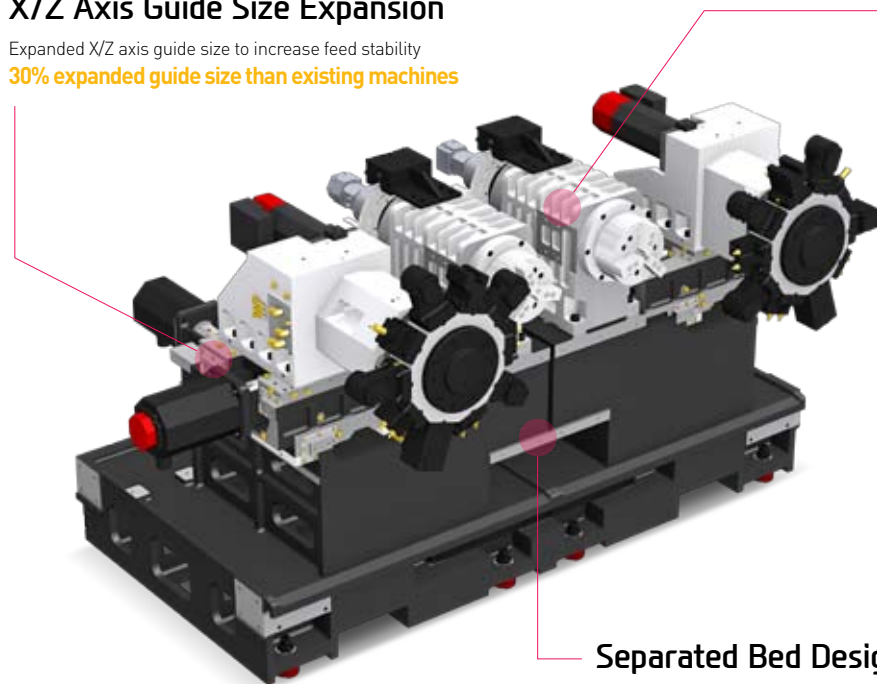
ITEM		LV1400	LV2000MF
Max. Swing	mm(in)	Ø1,450 (57.1")	Ø2,050 (80.7")
Max. Turning Dia.	mm(in)	Ø1,400 (55.1")	Ø2,000 (78.7")
Max. Turning Length	mm(in)	850 (33.5")	900 (35.4")
Table Size	mm(in)	Ø1,000 (39.4") [Ø1,250 (49.2")]	Ø1,600 (63")
Max. Load Capacity	kg(lb)	6,000 (13,228)	10,000 (22,046)
Sp. Speed	r/min	500	250
Sp. Power	kW(HP)	37/30 (50/40)	37/30 (50/40)
Ram Size	mm(in)	200×200 (7.9"×7.9")	240×240 (9.4"×9.4")
Travel (X/Z)	mm(in)	-50~+1,100 (-2"~+43.3") / 800 (31.5")	-200~+1,580 (-7.9"~+62.2") / 900 (35.4")



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

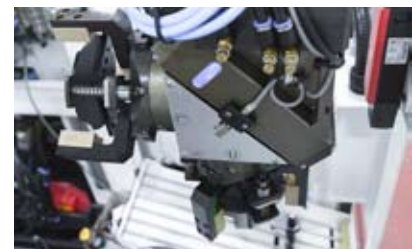


LF2100M/2SP

Spindle Structure

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

Angular contact bearing is blended to minimize 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**

ITEM	LF1600/2SP LF1600M/2SP	
Max. Swing	mm(in)	Ø370 (14.6")
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



Front Loading CNC Turning Center **LF2000/2500 Series**

ITEM	LF2000/2SP LF2000M/2SP		LF2500/2SP LF2500M/2SP	
Max. Swing	mm(in)	Ø490 (19.3")	Ø510 (Ø20.1")	
Max. Turning Length	mm(in)	150 (5.9")	250 (9.8")	
Chuck Size	inch	8"	10"	
Bar Capacity	mm(in)	Ø51 (2")	Ø65 (2.6")	
Sp. Speed	r/min	4,500	3,600	
Sp. Power	kW(HP)	15/11.7 (20/16)	36.2/28 (48.5/37.5)	
Travel (X/Z)	mm(in)	200/250 (7.9"/9.8") 195/250 (7.7"/9.8")	230/360 (9.1"/14.2")	
No. of Tools	EA	2×10	2×10	



Front Loading CNC Turning Center **LF2100/2600 Series**

ITEM	LF2100/2SP LF2100M/2SP		LF2600/2SP LF2600M/2SP	
Max. Swing	mm(in)	Ø650 (25.6")	Ø650 (25.6")	
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 (20/15)	22/18.5 (30/25)	
Travel (X/Z)	mm(in)	190/170 (7.5"/6.7")	190/170 (7.5"/6.7")	
No. of Tools	EA	2×10	2×10	

Y-Axis Turning Center

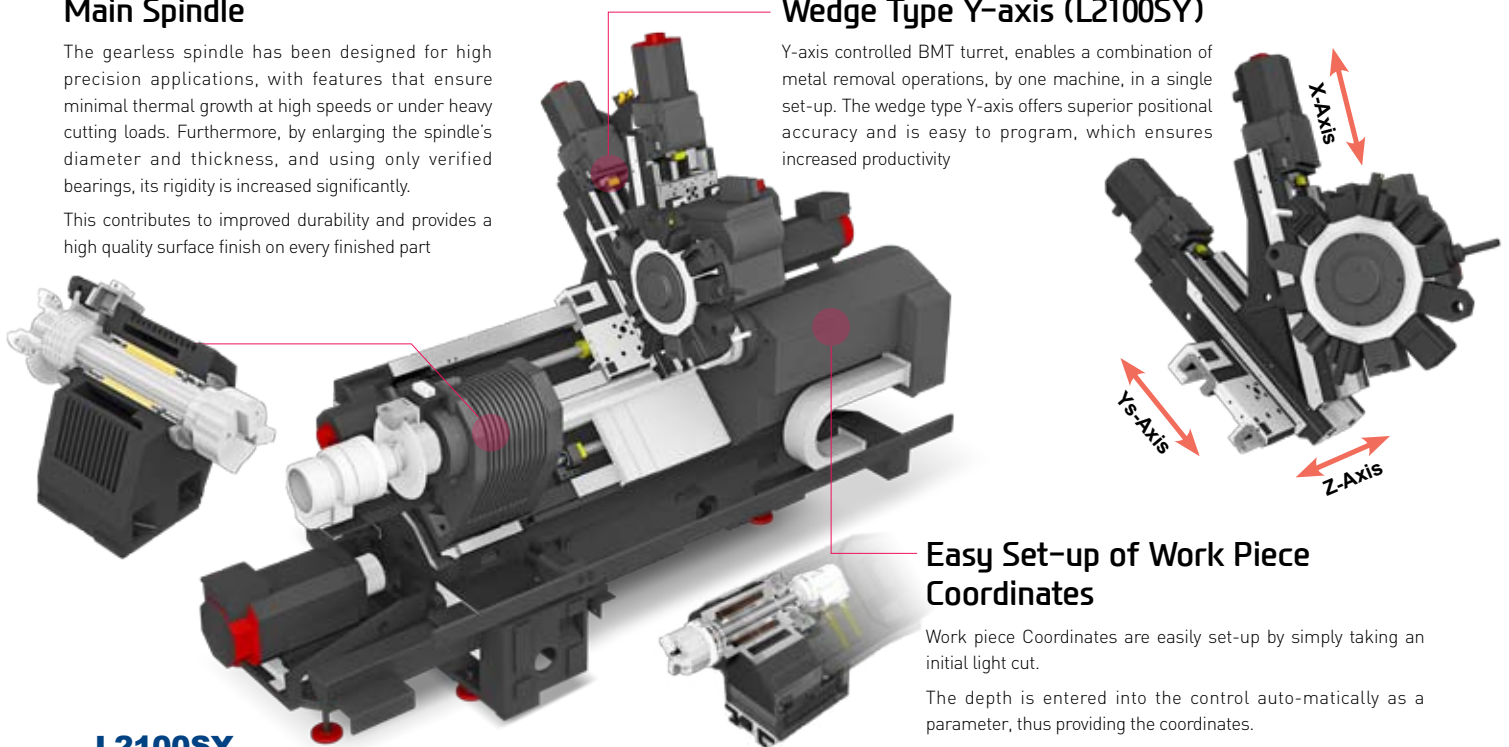
Main Spindle

The gearless spindle has been designed for high precision applications, with features that ensure minimal thermal growth at high speeds or under heavy cutting loads. Furthermore, by enlarging the spindle's diameter and thickness, and using only verified bearings, its rigidity is increased significantly.

This contributes to improved durability and provides a high quality surface finish on every finished part

Wedge Type Y-axis (L2100SY)

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



L2100SY

Easy Set-up of Work Piece Coordinates

Work piece Coordinates are easily set-up by simply taking an initial light cut.

The depth is entered into the control auto-matically as a parameter, thus providing the coordinates.

Cross Type Y-Axis CNC Turning Center **LY Series**

ITEM		L150Y	L150SY	L200Y
Max. Swing	mm(in)	Ø550 (21.7")	Ø550 (21.7")	Ø550 (21.7")
Max. Turning Length	mm(in)	530 (20.9")	530 (20.9")	530 (20.9")
Chuck Size	inch	6"	M:6" S:5"	8"
Bar Capacity	mm(in)	Ø45 (1.8")	M:Ø45 (1.8") S:Ø33 (1.3")	Ø65 (2.6")
Sp. Speed	r/min	6,000	M:6,000 S:6,000	4,000 [4,000]
Sp. Power	kW(HP)	11/7.5 (15/10)	M:11/7.5 (15/10) S:3.7/2.2 (5/3)	15/11 (20/15) [22/18.5 (30/25)]
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")	220/80{±40}/550 (8.7"/3.1"/21.7")
No. of Tools	EA	12	12	12

ITEM		L200SY	L250Y	L250SY
Max. Swing	mm(in)	Ø550 (21.7")	Ø620 (24.4")	Ø620 (24.4")
Max. Turning Length	mm(in)	530 (20.9")	620 (24.4")	620 (24.4")
Chuck Size	inch	M:8" S:5"	10"	M:10" S:5"
Bar Capacity	mm(in)	M:Ø65 (2.6") S:Ø33 (1.3")	Ø76 (3")	M:Ø76 (3") S:Ø45 (1.8")
Sp. Speed	r/min	M:4,000 S:6,000	3,500 [3,500]	M:3,500 [3,500] S:6,000 [6,000]
Sp. Power	kW(HP)	M:15 (20) S:3.7 (5)	22 (30) [22.2 (30)]	M:22 (30) [22.2 (30)] S:7.5 (10) [8.4 (11)]
Travel (X/Y/Z/ZB)	mm(in)	220/80{±40}/550/750 (8.7"/3.1"/21.7"/29.5")	230/110{±55}/675 (9.1"/4.3"/26.6")	230/110{±55}/675/700 (9.1"/4.3"/26.6"/27.6")
No. of Tools	EA	12	12	12

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Wedge Type Y-Axis CNC Turning Center **L2100Y/SY**

ITEM		L2100Y	L2100SY
Max. Swing	mm(in)	Ø630 (24.8")	Ø630 (24.8")
Max. Turning Length	mm(in)	455 (17.8")	455 (17.8")
Chuck Size	inch	8"	M:8" S:6"
Bar Capacity	mm(in)	Ø65 (2.6")	M:Ø65 (2.6") S:Ø35 (1.4")
Sp. Speed	r/min	4,500	M:4,500 S:6,000
Sp. Power	kW(HP)	15/11 (20/15)	M:15/11 (20/15) S:7.5/5.5 (10./7.4)
Travel (X/Y/Z/ZB)	mm(in)	210/100{±50}/540 (8.3"/3.9"/21.3")	210/100{±50}/580/500 (8.3"/3.9"/22.8"/19.7")
No. of Tools	EA	12	12



Multi Axis Turning Center LM1600/1800TT Series

ITEM	LM1600TTS/TTMS/TTSY
Max. Swing	mm(in) Ø290 (11.4")
Max. Turning Length	mm(in) 705 (27.8")
Chuck Size	inch M:6" S:6"
Bar Capacity	mm(in) M:Ø51 (2") S:Ø51 (2")
Sp. Speed	r/min M:6,000 S:6,000
Sp. Power	kW(HP) M:15/11 (20/15) S:15/11 (20/15)
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]

ITEM	LM1800TTS/TTMS/TTSY
Max. Swing	mm(in) Ø290 (11.4")
Max. Turning Length	mm(in) 673 (26.5")
Chuck Size	inch M:8" S:8"
Bar Capacity	mm(in) M:Ø65 (2.6") S:Ø65 (2.6")
Sp. Speed	r/min M:5,000 S:5,000
Sp. Power	kW(HP) M:22/11 (30/15) S:22/11 (30/15)
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]



Multi Axis Turning Center LM2500TT Series

ITEM	LM2500TT/TTM	LM2500TTS/TTMS	LM2500TTSY
Max. Swing	mm(in) Ø780 (30.7")	Ø780 (30.7")	Ø780 (30.7")
Max. Turning Length	mm(in) 900 (35.4")	900 (35.4")	900 (35.4")
Chuck Size	inch 10"	M:10" S:10"	M:10" S:10"
Bar Capacity	mm(in) Ø76 (3")	M:Ø76 (3") S:Ø76 (3")	M:Ø76 (3") S:Ø76 (3")
Sp. Speed	r/min 4,000	M:4,000 S:4,000	M:4,000 S:4,000
Sp. Power	kW(HP) 26/15 (35/20)	M:26/15 (35/20) S:26/15 (35/20)	M:26/15 (35/20) S:26/15 (35/20)
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	2×12



Aluminum Wheel Turning Center

- Maximum AL Wheel Processing Capability, 24" – L600AW
- Best in class work load capacity : Max. swing of 850mm (33.5") – L600AW
- Efficient chip removing process by a large capacity shower coolant device
- Servo driven high speed turret
- Built-in Spindle (L600AW MF Option)



Aluminum Wheel Turning Center **L500/600AW Series**

ITEM		L500AW	L600AW L600AW MF
Max. Swing	mm(in)	Ø750 (29.5")	Ø850 (33.5")
Max. Turning Length	mm(in)	710 (28")	710 (28")
Chuck Size	inch	18"	21"
Bar Capacity	mm(in)	20"	24"
Sp. Speed	r/min	3,000	3,000
Sp. Power	kW(HP)	37/30 (50/40)	37/30 (50/40) 30/22 (40/35)
Travel (X/Z)	mm(in)	355:65+290 (14":2.6"+11.4") / 720 (28.3")	370:20+350 (14.6":0.8"+13.8") / 720 (28.3")
No. of Tools	EA	12	12

Tapping Center

ATC & Magazine

The 14 tool rotary ATC is standard on the i-CUT380T series. The double-arm ATC is offered as an option. The tool magazine has the option for twenty (20) tools or twenty four (24) tools.



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-CUT Series weight has been reduced, but maintained the rigidity. Satisfies both cutting stability and productivity.

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. 12,000 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

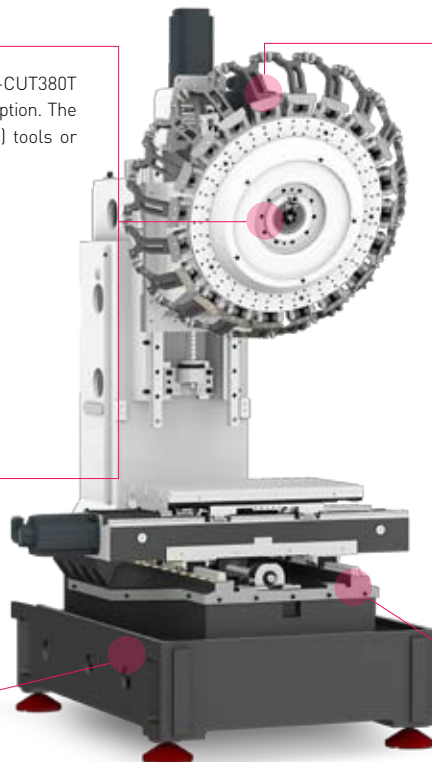
The Big Plus spindle system (BBT #30) provides dual contact between the spindle face and the flange face of the tool holder.

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.

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



i-CUT380T



Tapping Center **i-CUT T Series**

ITEM		i-CUT380T	i-CUT380TD	i-CUT420T
Table Size	mm(in)	600×380 (23.6"×15")	2–650×400 (2–23.6"×15.7")	800×420 (31.5"×16.5")
Max. Load Capacity	kg(lb)	200 (440.9)	2–250 (2–551.1)	200 (440.9)
Sp. Taper	—	BT30	BT30	BT30
Sp. Speed	r/min	12,000 [12,000]	12,000 [12,000]	12,000 [12,000]
Sp. Power	kW(HP)	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]
No. of Tools	EA	14 [20] [TwinArm:20, 24]	14 [TwinArm:20, 24]	14 [20] [TwinArm:20, 24]
Travel (X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8")	520/360/350 (20.5"/14.2"/13.8")	700/420/350 (27.6"/16.5"/13.8")
Rapid Travel	m/min(ipm)	56/56/56 (2,205/2,205/2,205)	50/50/56 (1,969/1,969/2,205)	50/50/56 (1,969/1,969/2,205)

ITEM		i-CUT380Ti	i-CUT380TDi	i-CUT380Tec
Table Size	mm(in)	800×420 (31.5"×16.5")	2–650×400 (2–23.6"×15.7")	600×380 (70.9"×27.6")
Max. Load Capacity	kg(lb)	200 (440.9)	2–250 (2–551.1)	200 (440.9)
Sp. Taper	—	BT30	BT30	BT30
Sp. Speed	r/min	12,000 [12,000]	12,000 [12,000]	12,000 [12,000]
Sp. Power	kW(HP)	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]	6.6/4.1 (8.9/5.5)	7.5/5.5 (10/7.5)
No. of Tools	EA	14 [20] [TwinArm:20, 24]	14 [TwinArm:20, 24]	14 [20] [TwinArm:20, 24]
Travel (X/Y/Z)	mm(in)	700/420/350 (27.6"/16.5"/13.8")	520/360/350 (20.5"/14.2"/13.8")	520/380/350 (20.5"/15"/13.8")
Rapid Travel	m/min(ipm)	50/50/56 (1,969/1,969/2,205)	48/48/60 (1,890/1,890/2,362)	50/50/50 (1,969/1,969/1,969)

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Compact Vertical Machining Center **i-CUT M Series**

ITEM		i-CUT320M	i-CUT380M
Table Size	mm(in)	500×350 (19.7"×13.8")	600×380 (23.6"×15")
Max. Load Capacity	kg(lb)	150 (330.7)	200 (440.9)
Sp. Taper	—	BBT30	BBT30
Sp. Speed	r/min	24,000	24,000
Sp. Power	kW(HP)	10.5/8 (14/11)	10.5/8 (14/11)
No. of Tools	EA	20	20 [24]
Travel (X/Y/Z)	mm(in)	420/320/330 (16.5"/12.6"/13")	520/380/480 (20.5"/15"/18.9")
Rapid Travel	m/min(ipm)	56/56/56 (2,205/2,205/2,205)	56/56/56 (2,205/2,205/2,205)

ITEM		i-CUT380MD	i-CUT420M
Table Size	mm(in)	2–650×400 (2–25.6"×15.7")	800×420 (31.5"×16.5")
Max. Load Capacity	kg(lb)	2–250 (2–551.1)	200 (440.9)
Sp. Taper	—	BBT30	BBT30
Sp. Speed	r/min	24,000	24,000
Sp. Power	kW(HP)	10.5/8 (14/11)	10.5/8 (14/11)
No. of Tools	EA	20 [24]	20 [24]
Travel (X/Y/Z)	mm(in)	520/360/480 (20.5"/14.2"/18.9")	700/420/480 (27.6"/15"/16.5")
Rapid Travel	m/min(ipm)	50/50/56 (1,969/1,969/2,205)	50/50/56 (1,969/1,969/2,205)

[] : Option

Vertical Machining Center

ATC & Magazine

The tool magazine holds twenty four (24) tools as standard and thirty (30) tools as an option.

Random access allows for pre-staging of tools for faster tool changes and increased productivity.

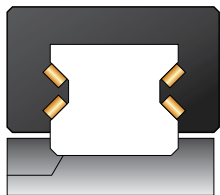
The Double Arm ATC provides fast and reliable tool changes to help reduce machining cycle times.

Expanded Y-axis Design

Y-axis stroke of 850mm to extend cutting range.

Roller Guide

Y-axis 4-way roller guide is applied as standard which, by design, maintains stable cutting and highly accurate processing even under heavy cutting loads.



Spindle

By using ultra precision class angular ball 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.



Table

The table is optimized to cut large sized panels by expanding its size to 1,800x850mm. Furthermore, the table can load up to 1,000kg to maintain stable cutting condition.

FEM Structure Interpretation

The Finite Element Analysis Method (FEA) is used during machine development in order to increase rigidity and decrease both heat growth and vibration in the casting.

This ensures the machine remains stable even under the heaviest cutting conditions.

F850



Advanced Technology Vertical Machining Center **F400/500/650**

ITEM		F400	F500/500plus
Table Size	mm(in)	1,000×460 (39.4"×18.1")	1,200×500 (47.2"×19.7")
Max. Load Capacity	kg(lb)	600 (1,323)	800 (1,764)
Sp. Taper	—	CAT40/BT40 [BCV40/BBT40]	BCV40/BBT40
Sp. Speed	r/min	12,000 [8,000] [8,000] [8,000] [12,000]	10,000 [8,000] [8,000] 10,000 [8,000]
Sp. Power (Max.)	kW(HP)	11 (15) [15 (20)] [15 (20)] [16 (21)] [13.5 (18)]	18.5 (25) [15 (20)] [28 (37.5)] 18.5 (25) [15 (20)]
No. of Tools	EA	24 [30]	24 [30] 30
Travel (X/Y/Z)	mm(in)	800/460/520 (31.5"/18.1"/20.5")	1,060/510/635 (41.7"/20.1"/25")
Rapid Travel	m/min(ipm)	32/32/32 (1,260/1,260/1,260)	36/36/30 (1,417/1,417/1,181)

ITEM		F650/650 Plus	F500/50	F650/50
Table Size	mm(in)	1,600×650 (63"×25.6")	1,200×500 (47.2"×19.7")	1,600×650 (63"×25.6")
Max. Load Capacity	kg(lb)	1,300 (2,866)	800 (1,764)	1,300 (2,866)
Sp. Taper	—	BCV40/BBT40	CAT50/BT50 [BCV50/BBT50]	CAT50/BT50 [BCV50/BBT50]
Sp. Speed	r/min	10,000 [8,000] [8,000] 10,000 [8,000]	6,000	6,000
Sp. Power (Max.)	kW(HP)	18.5 (25) [15 (20)] [28 (37.5)] 18.5 (25) [15 (20)]	15 (20)	15 (20)
No. of Tools	EA	24 [30] 30	24	24
Travel (X/Y/Z)	mm(in)	1,400/660/635 (55.1"/26"/25")	1,100/510/635 (43.3"/20.1"/25")	1,400/660/635 (55.1"/26"/25")
Rapid Travel	m/min(ipm)	36/36/30 (1,417/1,417/1,181)	36/36/30 (1,417/1,417/1,181)	36/36/30 (1,417/1,417/1,181)

[] : Option ● : SIEMENS



Economy Type Vertical Machining Center **F400/500/650VM**

ITEM		F400VM	F500VM	F650VM
Table Size	mm(in)	1,000×460 (39.4"×18.1")	1,200×550 (47.2"×21.6")	1,400×670 (55.1"×26.4")
Max. Load Capacity	kg(lb)	600 (1,322)	800 (1,764)	1,000 (2,204)
Sp. Taper	—	BCV40/BBT40	BCV40/BBT40	BCV40/BBT40
Sp. Speed	r/min	10,000 [8,000] [8,000] [10,000]	10,000 [8,000] [8,000] [10,000] [8,000] [10,000]	8,000
Sp. Power (Max.)	kW(HP)	11 (15) [15 (20)] [23.5 (31.5)] [23.5 (31.5)]	11 (15) [15 (20)] [1 (15)] [15 (20)] [23.5 (31.5)] [23.5 (31.5)]	18.5 (25)
No. of Tools	EA	30 [24]	24 [30, 40]	30 [24]
Travel (X/Y/Z)	mm(in)	800/460/520 (31.5"/18.1"/20.5")	1,100/550/520 (43.3"/21.7"/20.5")	1,300/670/635 (51.2"/26.4"/25")
Rapid Travel	m/min(ipm)	36/36/30 (1,417/1,417/1,181)	36/36/30 (1,417/1,417/1,181)	36/36/30 (1,417/1,417/1,181)

[] : Option ● : SIEMENS



High Speed Vertical Machining Center

F510M/550M/660M

ITEM		F510M	F550M	F660M
Table Size	mm(in)	1,200×500 (47.2"×19.7")	1,200×550 (47.2"×21.7")	1,600×650 (63"×25.6")
Max. Load Capacity	kg(lb)	800 (1,764)	800 (1,764)	1,300 (2,866)
Sp. Taper	—	BCV40/BBT40	BCV40/BBT40	BCV40/BBT40
Sp. Speed	r/min	15,000 [15,000]	15,000	15,000 [15,000]
Sp. Power	kW(HP)	25/22 (33.5/30) [26/26 (35/35)]	25/22 (33.5/30)	25/22 (33.5/30) [26/26 (35/35)]
No. of Tools	EA	30 [24]	30 [24]	30 [24]
Travel (X/Y/Z)	mm(in)	1,060/510/635 (41.7"/20.1"/25")	1,100/550/520 (43.3"/21.7"/20.5")	1,400/660/635 (55.1"/26"/25")
Rapid Travel	m/min(ipm)	36/36/30 (1,417/1,417/1,181)	36/36/36 (1,417/1,417/1,417)	36/36/30 (1,417/1,417/1,181)

[] : Option ● : SIEMENS



Dual Table Type Vertical Machining Center

F410D/500D/600D

ITEM		F410D	F500D	F600D
Table Size	mm(in)	2–650×410 (2–25.6"×16.1")	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)	2–400 (2–881.8)
Sp. Taper	—	CAT40/BT40	CAT40/BT40	CAT40/BT40
Sp. Speed	r/min	10,000 [8,000]	10,000 [8,000] [8,000] [12,000]	8,000 [12,000]
Sp. Power	kW(HP)	18.5/15 (25/20) [18/12 (25/16)]	5/11 (20/15) [15/11 (20/15)] [43/18.5 (57.7/25)] [11/7.5 (15/10)]	15/11 (20/15) [11/7.5 (15/10)]
No. of Tools	EA	30 [24]	30 [24]	30 [24]
Travel (X/Y/Z)	mm(in)	570/410/580 (22.4"/16.1"/22.8")	600/460/570 (23.6"/18.1"/22.4")	800/600/600 (31.5"/23.6"/23.6")
Rapid Travel	m/min(ipm)	36/36/30 (1,417/1,417/1,181)	40/40/30 (1,575/1,575/1,181)	42/42/42 (1,654/1,654/1,654)

[] : Option ● : SIEMENS



Vertical Machining Center

F850

ITEM		F850
Table Size	mm(in)	1,800×850 (70.9"×33.5")
Max. Load Capacity	kg(lb)	1,000 (2,204)
Sp. Taper	—	CAT40/BT40
Sp. Speed	r/min	12,000
Sp. Power	kW(HP)	25/10.5 (33.5/14.1)
No. of Tools	EA	30 [24]
Travel (X/Y/Z)	mm(in)	1,600/850/580 (63"/33.5"/22.8")
Rapid Travel	m/min(ipm)	36/36/36 (1,417/1,417/1,417)

[] : Option ● : SIEMENS

Box Way Vertical Machining Center **F510B/600B**

ITEM		F510B	F600B
Table Size	mm(in)	1,200×500 (47.2"×19.7")	1,600×600 (63"×23.6")
Max. Load Capacity	kg(lb)	800 (1,764)	1,000 (2,205)
Sp. Taper	—	CAT40/BT40	CAT50/BT50
Sp. Speed	r/min	8,000 [8,000]	4,500 [4500] [8,000] [8,000]
Sp. Power	kW(HP)	15/11 (20/15) [15/11 (20/15)]	15/11 (20/15) [18.5/15 (25/20)] [15/11 (20/15)] [18.5/15 (25/20)]
No. of Tools	EA	24 [30]	30 [20]
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 Travel	m/min(ipm)	30/30/24 (1,181/1,181/945)	24/24/24 (945/945/945)

[] : Option

Heavy Duty Vertical Machining Center **F750B/960B**

ITEM		F750B
Table Size	mm(in)	1,800×700 (70.9"×27.6")
Max. Load Capacity	kg(lb)	2,000 (4,409)
Sp. Taper	—	CAT50/BT50 [BCV50/BBT50]
Sp. Speed	r/min	4,500 [8,000] [12,000] [4,500] [8,000]
Sp. Power	kW(HP)	18.5/15 (25/20) [18.5/15 (25/20)] [30/25 (40/33.5)] [30/20 (40/26.8)] [30/20 (40/26.8)]
No. of Tools	EA	30 [20]
Travel (X/Y/Z)	mm(in)	1,550/750/720 (61"/29.5"/28.3")
Rapid Travel	m/min(ipm)	16/16/12 (630/630/472)

ITEM		F960B
Table Size	mm(in)	2,700×950 (106.3"×37.4")
Max. Load Capacity	kg(lb)	4,500 (9,921)
Sp. Taper	—	CAT50/BT50 [BCV50/BBT50]
Sp. Speed	r/min	8,000 [8,000]
Sp. Power	kW(HP)	22/18.5 (30/25) [27.8/18.5 (37/25)]
No. of Tools	EA	30 [20, 40]
Travel (X/Y/Z)	mm(in)	2,450/960/850 (96.5"/37.8"/33.5")
Rapid Travel	m/min(ipm)	16/16/20 (630/630/787)

[] : Option • : SIEMENS

Die & Mold Machining Center

Spindle

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



Bridge Type Structure

The HI-MOLD560/5A has built upon a bridge type frame.

The biggest benefit of a bridge type machining center is the increased rigidity and less heat generated. Hence, it retains accuracy and repeatability at the highest levels.

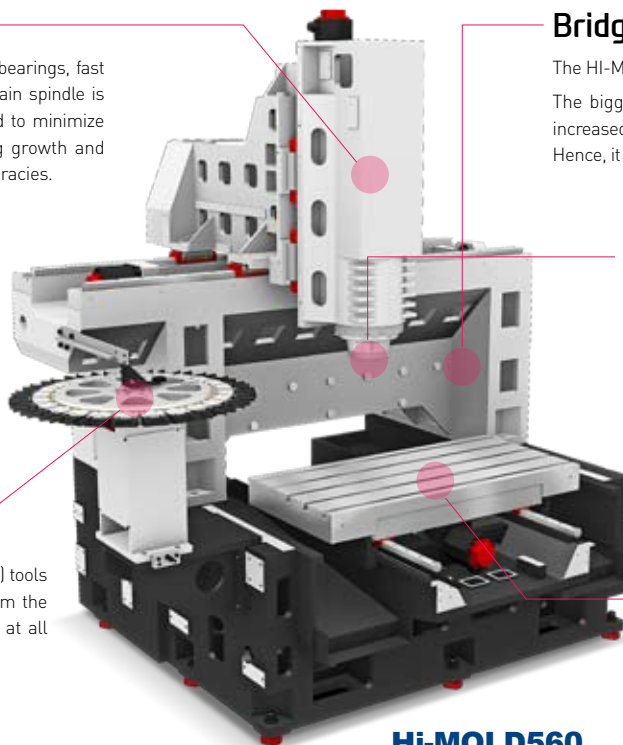
HSK Tool Holder

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.



Magazine

The tool magazine holds twenty four (24) tools as standard. Tools are stored away from the cutting area to ensure they stay clean at all times.



Table

Compared to competitive machines, the Hi-Mold series has a large work envelop making setup and use easy and convenient for the operator.

Hi-MOLD560



Precision Mold Vertical Machining Center

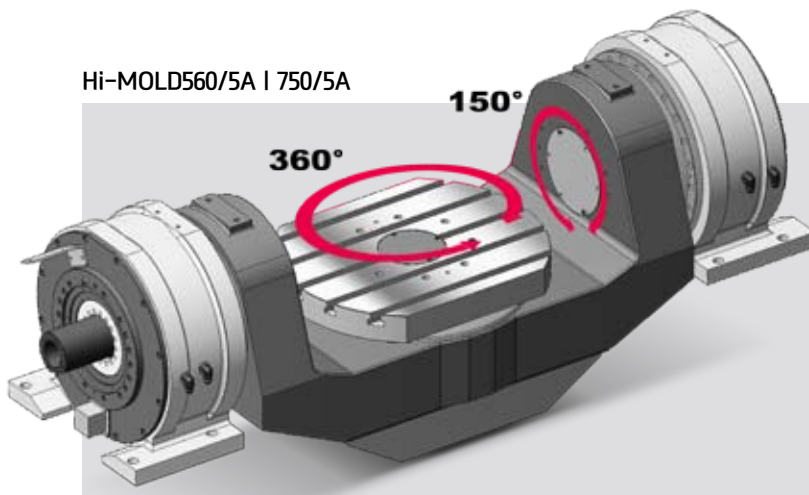
Hi-MOLD Series

ITEM		Hi-MOLD450	Hi-MOLD560	Hi-MOLD560/5A
Table Size	mm(in)	850×500 (33.46"×15.69")	1,250×600 (49.21"×23.62")	Ø500×270 (19.68"×10.6")
Max. Load Capacity	kg(lb)	300 (660)	800 (1,760)	250 (550)
Sp. Taper	—	HSK-A63 [HSK-E40]	HSK-A63 [HSK-E40]	HSK-A63 [HSK-E40]
Sp. Speed	r/min	24,000 [40,000]	24,000 [40,000]	24,000 [40,000]
Sp. Power	kW(HP)	33/25 (44/33) [26/18 (35/24)]	33/25 (44/33) [26/18 (35/24)]	33/25 (44/33) [26/18 (35/24)]
No. of Tools	EA	24	24 [40]	24
Travel (X/Y/Z)	mm(in)	600/450/450 (23.6"/17.7"/17.7")	1,000/560/450 (39.3"/22"/17.7")	1,000/560/450 (39.3"/22"/17.7")
Rapid Travel	m/min(ipm)	50/50/50 (1,969/1,969/1,969)	50/50/50 (1,969/1,969/1,969)	50/50/50 (1,969/1,969/1,969)

[] : Option ● : SIEMENS

ITEM		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 (3,9")
Sp. Taper	—	HSK-A63	BCV40/BBT40
Sp. Speed	r/min	15,000	20,000 [24,000]
Sp. Power	kW(HP)	25/22 (33/29)	22/18.5 (30/25) [22/18.5 (30/25)]
No. of Tools	EA	30	30
Travel (X/Y/Z)	mm(in)	650/765/510 (25.6"/30.1"/20")	1,100/650/550 (43.3"/25.6/21.7")
Rapid Travel	m/min(ipm)	50/50/50 (1,969/1,969/1,969)	40/40/40 (1,575/1,575/1,575)

Hi-MOLD560/5A | 750/5A



Built-in A and C Axis Table

The built in rotary table allows the users to produce a wide range of complicated work pieces. The 'C' axis has full 360° rotation and the 'A' axis has 150° rotation. It is possible to clamp each axis for extra rigidity and accuracy when machining.

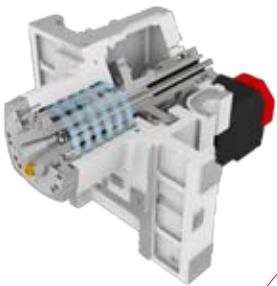
Hi-MOLD560/5A

Max. number of rotation	A-axis – 70r/min, C-axis – 150r/min
Tilting angle	+30 ° ~ -120 °
Rotation angle	360 °
Min. directive angle	0.001 °
Max. loading weight	250kg (551.1lbs)

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.

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.



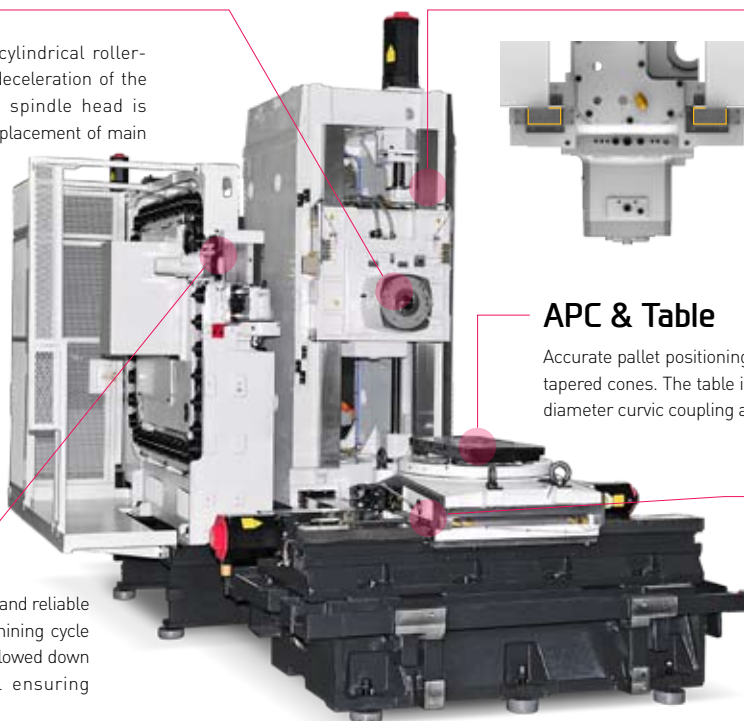
APC & Table

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.



KH630

Heavy Duty Horizontal Machining Center **KH50G/63G**

ITEM		KH50G	KH63G
Pallet Size	mm(in)	2–500×500 (2–19.7″×19.7″)	2–630×630 (2–24.8″×24.8″)
Max. Load Capacity	kg(lb)	2–800 (2–1,764)	2–1,000 (2–2,205)
Sp. Taper	—	CAT50/BT50 [BCV50/BBT50]	CAT50/BT50 [BCV50/BBT50]
Sp. Speed	r/min	4,500 [8,000] [8,000]	4,500 [8,000] [4,500]
Sp. Power	kW(HP)	18.5/15 (25/20) [22/18.5 (30/25)] [18.5/15 (25/20)]	22/18.5 (30/25) [26/22 (35/30)] [22/18.5 (30/25)]
No. of Tools	EA	90 [40, 60, 120]	90 [40, 60, 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 Travel	m/min(ipm)	20/20/20 (787/787/787)	20/20/20 (787/787/787)

[] : Option • : SIEMENS

Heavy Duty Horizontal Machining Center **KH80G**

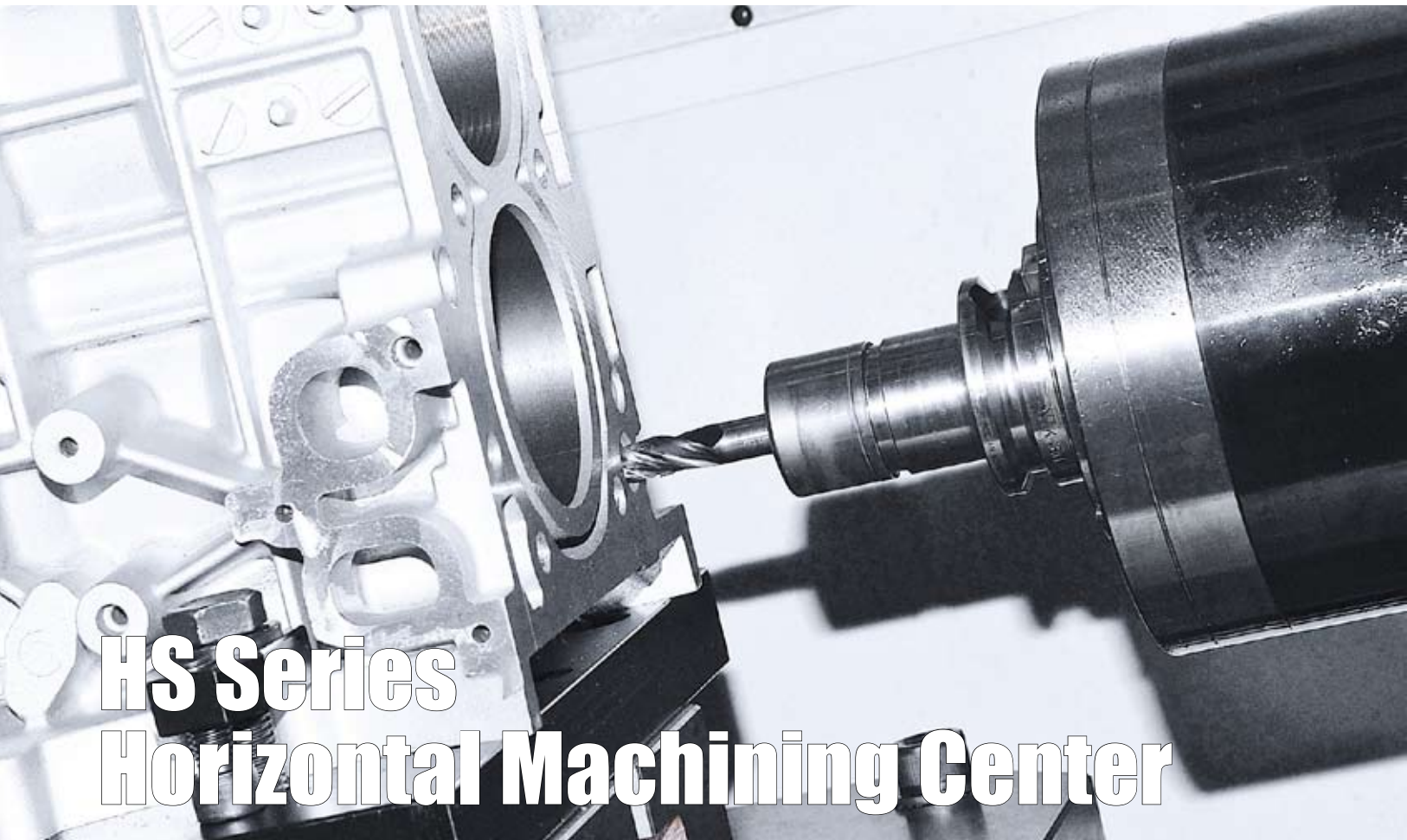
ITEM		KH80G
Pallet Size	mm(in)	2×800×800 (2×31.5″×31.5″)
Max. Load Capacity	kg(lb)	2–2,200 (2–4,850)
Sp. Taper	—	CAT50/BT50 [BCV50/BBT50/HSK–A100]
Sp. Speed	r/min	4,500 [6,000]
Sp. Power	kW(HP)	26/22 (35/30) [26/22 (35/30)]
No. of Tools	EA	80 [40, 120]
Travel (X/Y/Z)	mm(in)	1,250/1,000/850 (49.2″/39.4″/33.5″)
Rapid Travel	m/min(ipm)	18/18/18 (709/709/709)

[] : Option

Heavy Duty Horizontal Machining Center **KH1000**

ITEM		KH1000
Pallet Size	mm(in)	2–1,000×1,000 (39.4″×39.4″)
Max. Load Capacity	kg(lb)	2–3,000 (2–6,614)
Sp. Taper	—	CAT50/BT50 [BCV50/BBT50]
Sp. Speed	r/min	8,000 [4,500]
Sp. Power	kW(HP)	26/22 (34.8/29.5) [26/22 (34.8/29.5)]
No. of Tools	EA	90 [60, 120]
Travel (X/Y/Z)	mm(in)	2,100/1,350/1,400 (82.7″/53.1″/55.1″)
Rapid Travel	m/min(ipm)	20/20/20 (787/787/787)

[] : Option



HS Series Horizontal Machining Center

ATC & Magazine

The tool magazine holds 40 tools as standard with up to 120 tools as an option depending on machine model.

Random access allows for pre-staging of tools for faster tool changes and increased productivity.

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

APC & Table

The HS Series machines are equipped with a rotary shuttle APC (Automatic Pallet Changer) as standard.

The pallet can be rotated in the load station for quick and easy load/unload of machined parts.

Built-in Spindle

By using ultra precision class angular ball bearings, fast acceleration and deceleration of the main spindle is achieved.

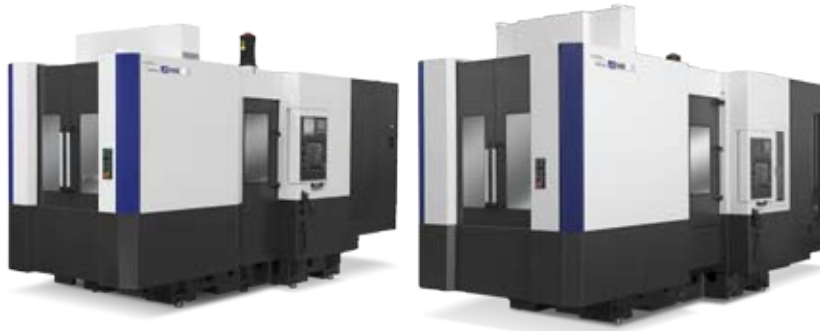
The spindle head is designed to minimize heat displacement therefore reducing growth and making it possible to maintain high accuracies.

Reverse "T" Type Bed Structure

The 'T' structure of the bed is designed with ample bed height and casting thickness to ensure the optimal level of rigidity.

The double wall structure of the column is designed to prevent heat transformation, proving excellent in cutting performance and accuracy.

HS4000



GOD DESIGN

High Speed Horizontal Machining Center

HS4000/5000

ITEM		HS4000/4000M	HS5000	HS5000/50 HS5000M/50
Pallet Size	mm(in)	2-400×400 (2-15.8"×15.8")	2-500×500 (2-19.7"×19.7")	2-500×500 (2-19.7"×19.7")
Max. Load Capacity	kg(lb)	2-500 (2-1,102)	2-500 (2-1,102)	2-800 (2-1,764)
Sp. Taper	—	BCV40/BBT40 [HSK-A63]	BCV40/BBT40 [HSK-A63]	BCV50/BBT50 [HSK-A100]
Sp. Speed	r/min	15,000	15,000	12,000 6,000
Sp. Power	kW(HP)	25/22 (33.5/30)	25/22 (33.5/30)	30/25 (40/33.5)
No. of Tools	EA	80 [40, 60, 120]	80 [40, 60, 120]	60 [40]
Travel (X/Y/Z)	mm(in)	620/560/650 (24.4"/22"/25.6")	850/700/750 (33.5"/27.6"/29.5")	850/700/750 (33.5"/27.6"/29.5")
Rapid Travel	m/min(ipm)	60/60/60 (2,362/2,362/2,362)	60/60/60 (2,362/2,362/2,362)	50/50/50 (1,969/1,969/1,969) 60/60/60 (2,362/2,362/2,362)

[] : Option

HS4000i/5000i

ITEM		HS4000i	HS5000i
Pallet Size	mm(in)	2-400×400 (2-15.8"×15.8")	2-500×500 (2-19.7"×19.7")
Max. Load Capacity	kg(lb)	2-500 (2-1,102)	2-500 (2-1,102)
Sp. Taper	—	BCV40/BBT40 [HSK-A63]	BCV40/BBT40 [HSK-A63]
Sp. Speed	r/min	12,000	12,000 [10,000] [12,000]
Sp. Power	kW(HP)	25/22 (33.5/30)	25/22 (33.5/30) [38/25 (51/33.5)] [26/26 (35/35)]
No. of Tools	EA	80 [40, 60, 120]	80 [40, 60, 120]
Travel (X/Y/Z)	mm(in)	620/560/650 (24.4"/22"/25.6")	850/700/750 (33.5"/27.6"/29.5")
Rapid Travel	m/min(ipm)	50/50/50 (1,969/1,969/1,969)	50/50/50 (1,969/1,969/1,969)

[] : Option • SIEMENS



Heavy Duty Horizontal Machining Center

HS6300/8000

ITEM		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 (2-2,646)	2-1,600 (2-3,527)
Sp. Taper	—	BCV50/BBT50 [HSK-A100]	BCV50/BBT50 [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 (30/25) [26/22 (35/30)] [30/25 (40/33.5)]	22/18.5 (30/25) [26/22 (35/30)] [30/25 (40/33.5)]
No. of Tools	EA	90 [40, 60, 120]	90 [40, 60, 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 Travel	m/min(ipm)	50/50/50 (1,969/1,969/1,969)	50/50/50 (1,969/1,969/1,969)

[] : 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

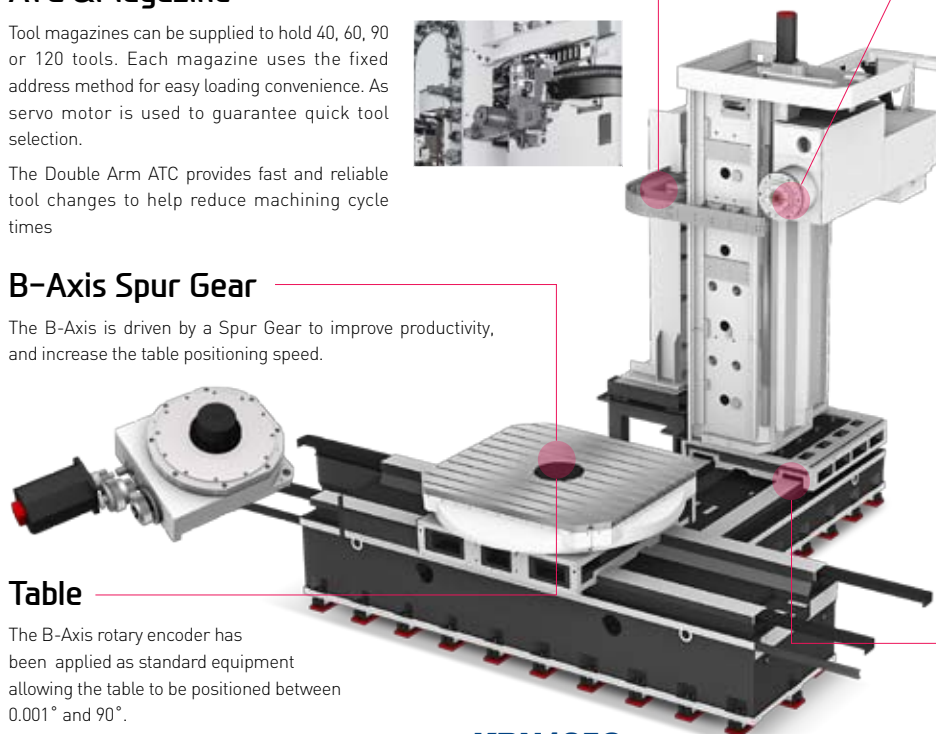


B-Axis Spur Gear

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

Table

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

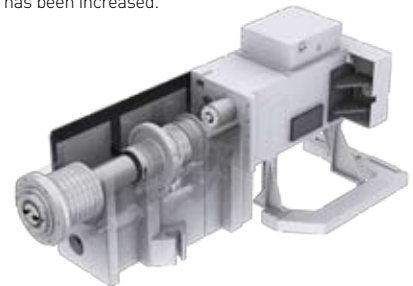


KBN135C

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.



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 **KBN135**

ITEM		KBN135	KBN135 (Option)
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)	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	—	CAT50/BT50	CAT50/BT50
Sp. Speed	r/min	2,500 [2,500]	2,500 [2,500]
Sp. Power	kW(HP)	22/18.5 (30/25) [26/22 (35/30)]	22/18.5 (30/25) [26/22 (35/30)]
Sp. Driving Method	—	3 Step Gear	3 Step Gear
No. of Tools	EA	60 [40, 90, 120]	60 [40, 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 Travel	m/min(ipm)	8/8/8/8 (315/315/315)	8/8/8/8 (315/315/315)

[] : Option

Column Moving Type Boring Machine **KBN135C**

ITEM		KBN135C	KBN135C (Option)
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)	15,000 (33,069) [20,000 (44,093)]
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	—	CAT50/BT50	CAT50/BT50
Sp. Speed	r/min	2,500 [2,500]	2,500 [2,500]
Sp. Power	kW(HP)	22/18.5 (30/25) [26/22 (35/30)]	22/18.5 (30/25) [26/22 (35/30)]
Sp. Driving Method	—	3 Step Gear	3 Step Gear
No. of Tools	EA	60 [40, 90, 120]	60 [40, 90, 120]
Travel (X/Y/Z/W)	mm(in)	3,000/2,000/1,600/700 (118.1"/78.7"/63"/27.6")	4,000/2,500/2,000/700 (157.5"/98.4"/78.7"/27.6")
Rapid Travel	m/min	10/10/10/8 (394/394/394/315)	7/10/10/8 (276/394/394/315)

[] : Option

FA Business Line Center Series

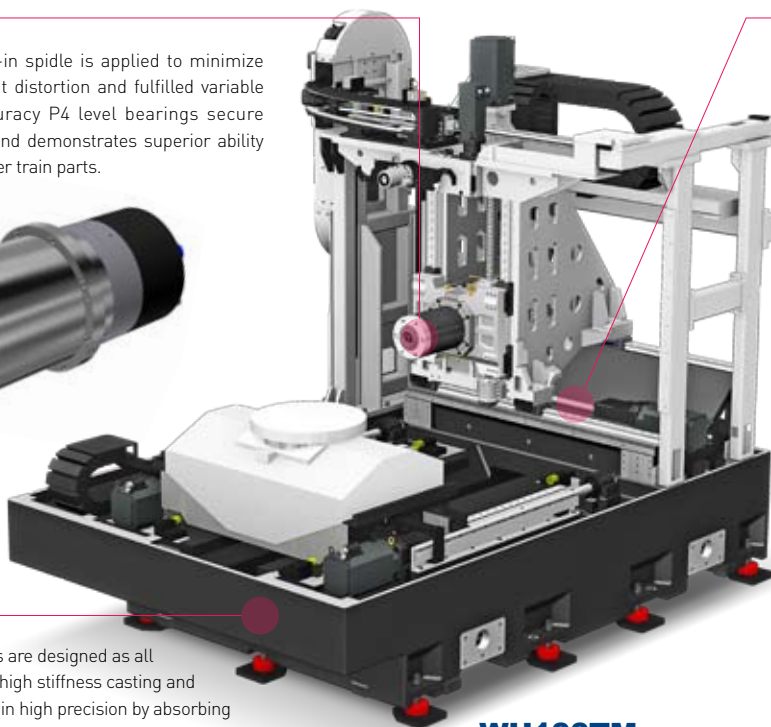
Spindle

15,000 rpm built-in spindle 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.



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.



WH100TM

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

WH63TM/63TMB/100TM

ITEM	WH63TM	WH63TMB	WH100TM
Pallet Size	mm(in)	Ø530 (Ø20.9")	Ø630 (Ø24.8")
Max. Load Capacity	kg(lb)	650 (1,433)	1,000 (2,204)
Max. Working Size	mm(in)	Ø800×H800 (Ø31.5"×H31.5")	Ø800×H800 (Ø31.5"×H31.5")
Sp. Taper	—	HSK-A63 HSK-A100	HSK-A100
Sp. Speed	r/min	16,000 10,000	6,000
Sp. Power	kW(HP)	28 (37.5) 26 (35)	29.3 (39.3)
No. of Tools	EA	30 [40] 20 [30]	20 [30, 60]
Travel (X/Y/Z)	mm(in)	630/630/800 [1000] (24.8"/24.8"/31.5" [39.4"])	800/630/1,000 (31.5"/24.8"/39.3")
Rapid Travel	m/min(ipm)	60/60/60 (2,362/2,362/2,362)	60/60/60 (2,362/2,362/2,362)

[] : Option



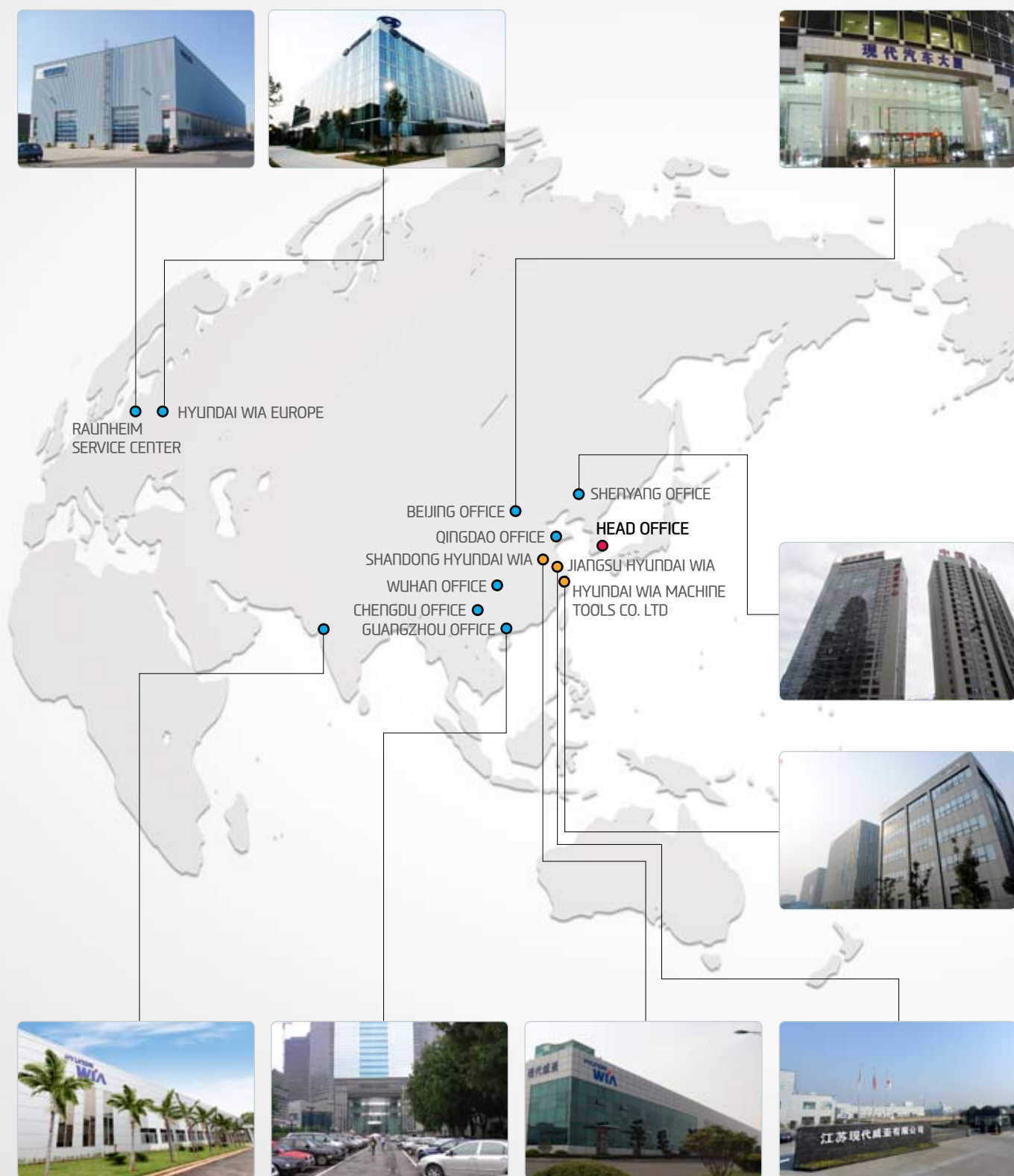
Optimized Line Center for Power Train

WH50TFR/50TFC/1000

ITEM	WH50TFC	WH50TFR
Pallet Size	mm(in)	Ø530 (20.8")
Max. Load Capacity	kg(lb)	700 (1,543)
Max. Working Size	mm(in)	Ø530×H750 (Ø20.8"×H29.5")
Sp. Taper	—	HSK-A63
Sp. Speed	r/min	15,000
Sp. Power	kW(HP)	26 (35)
No. of Tools	EA	24 [40]
Travel (X/Y/Z)	mm(in)	500/500/500 (19.7"/19.7"/19.7")
Rapid Travel	m/min(ipm)	60/60/60 (2,362/2,362/2,362)

ITEM		WH1000
Pallet Size	mm(in)	Customers request
Max. Load Capacity	kg(lb)	3,000 (6,613)
Max. Working Size	mm(in)	Ø1,400×H1,300 (Ø55"×H51")
Sp. Taper	—	HSK—A100
Sp. Speed	r/min	4,500
Sp. Power	kW(HP)	37/30 (50/40)
No. of Tools	EA	40
Travel (X/Y/Z)	mm(in)	1,400/1,100/1,150 (55.1"/43.3"/45.2")
Rapid Travel	m/min(ipm)	40/40/40 (1,575/1,575/1,575)

[] : Option





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