

Goushin Machinery Tools

Taiwan Cutting Expert

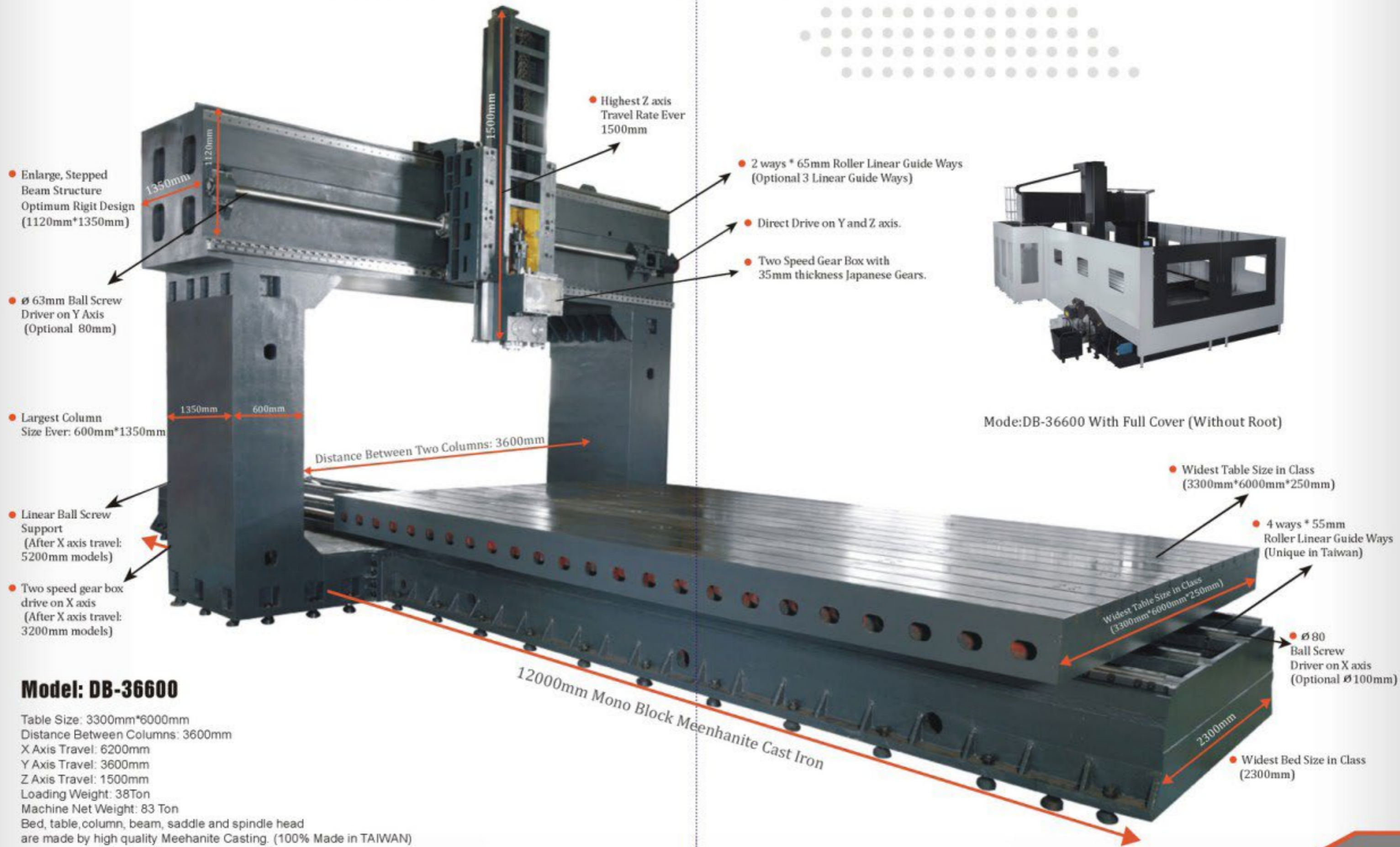
Double Column CNC Machining Center

Linear Way, DB-Series

- High Efficiency
- High Precision
- Heavy Cutting Capability



Biggest Meehanite Cast Iron Ever



● Enlarge, Stepped Beam Structure Optimum Rigit Design (1120mm*1350mm)

● \varnothing 63mm Ball Screw Driver on Y Axis (Optional 80mm)

● Largest Column Size Ever: 600mm*1350mm

● Linear Ball Screw Support (After X axis travel: 5200mm models)

● Two speed gear box drive on X axis (After X axis travel: 3200mm models)

● Highest Z axis Travel Rate Ever 1500mm

● 2 ways * 65mm Roller Linear Guide Ways (Optional 3 Linear Guide Ways)

● Direct Drive on Y and Z axis.

● Two Speed Gear Box with 35mm thickness Japanese Gears.



Mode:DB-36600 With Full Cover (Without Root)

● Widest Table Size in Class (3300mm*6000mm*250mm)

● 4 ways * 55mm Roller Linear Guide Ways (Unique in Taiwan)

Widest Table Size in Class (3300mm*6000mm*250mm)

● \varnothing 80 Ball Screw Driver on X axis (Optional \varnothing 100mm)

● Widest Bed Size in Class (2300mm)

Model: DB-36600

Table Size: 3300mm*6000mm
 Distance Between Columns: 3600mm
 X Axis Travel: 6200mm
 Y Axis Travel: 3600mm
 Z Axis Travel: 1500mm
 Loading Weight: 38Ton
 Machine Net Weight: 83 Ton
 Bed, table, column, beam, saddle and spindle head are made by high quality Meehanite Casting. (100% Made in TAIWAN)

12000mm Mono Block Meehanite Cast Iron

Durability, Stability, Reliability



Hydraulic Counter Balance System
Automatic two cylindrical hydraulic counter balance, Adjustment assures high accuracy.



Holding, Stepped Cross Beam
New design holding, stepped cross beam increasing rigidity and stability.
Y axis mounted with **2 slides, 65 mm** heavy duty roller linear guide ways. (The **third** slider option available)
Z axis designed with **120mm*200mm** two box way sliders to ensure optimum stability.



Model DB- 21400
Table Size: 1800*4000
Distance Between Columns: 2100mm
X Axis Travel: 4200mm
Y Axis Travel: 2100mm
Z Axis Travel: 1000mm
Loading Weight: 20 Ton
Machine Net Weight: 50 Ton



Two Speed Gear Box
The spindle head is driven by a powerful two speed gear box with **35mm** thicker Japanese gears. This provide maximum torque and heavy cutting capability.



4 ways * 55mm Roller Linear Guide Ways (Unique in Taiwan)
X axis mounted with high speed heavy duty **4 sliders 55 mm** Roller Linear Guideways for reach maximum loading capacity. (Starting after Y axis travel 2100mm)
Oversize **φ80 mm** ball screw, achieve the highest space transmission rigidity.
Linear Ball Screw Supporter minimize ball screw vibration and yawning. (Standard after X axis travel: 5200mm)



Gear Box Driver on X axis, Direct Drive on Y and Z axis
Two-speed gearbox driven ball screw on X axis. (Standard after X axis travel 3200mm)
Direct Drive, driven ball screw on Y and Z axis.

Double Column Machining Models

- DB-1200 (Y Axis Travel 1200mm)
X Axis Travel: 1.2, 1.5, 2, 3m
- DB-1600 (Y Axis Travel 1600mm)
X Axis Travel: 2, 3, 4, 5, 6m
- DB-1900 (Y Axis Travel 1800mm)
X Axis Travel: 2, 3, 4, 5, 6m
- DB-2100 (Y Axis Travel 2100mm)
X Axis Travel: 2, 3, 4, 5, 6, 8m
- DB-2600 (Y Axis Travel 2600mm)
X Axis Travel: 3, 4, 5, 6, 8, 10m
- DB-2800 (Y Axis Travel 2800mm)
X Axis Travel: 3, 4, 5, 6, 8, 10m
- DB-3200 (Y Axis Travel 3200mm)
X Axis Travel: 3, 4, 5, 6, 8, 10m
- DB-3600 (Y Axis Travel 3600mm)
X Axis Travel: 4, 5, 6, 8, 10, 12m
- DB-4200 (Y Axis Travel 4200mm)
X Axis Travel: 4, 5, 6, 8, 10, 12, 14, 16m



Model: DB-21400 With Full Cover (Without Roof)

Extrem Herculean in Class

- Largest Column Size in Class: 500mm*1000mm
- Distance Between Two Columns: 1600mm
- Enlarge, Stepped Beam Structure in Class (960mm*1000mm)
- 63,63,50mm Ball Screw Driver on X,Y,Z Axis
- 10370mm Mono Block Meenhanite Cast Iron
- Widest Bed Size in Class (1460mm)
- 2 ways * 65mm Roller Linear Guide Ways on X axis.
- 2 ways * 65mm Roller Linear Guide Ways on Y axis. (Optional 3 Linear Guide Ways)
- 120*200mm two box way on Z axis. (Z axis travel option available up to 1500mm)
- Two Speed Gear Box with 35mm thickness Japanese Gears.
- Two speed gear box drive on X axis (After X axis travel: 3200mm)
- Direct Drive on Y and Z axis.
- Linear Ball Screw Support (After X axis travel: 5200mm models)



Model: DB-16500

- Table Size: 1300mm*5000mm
- Distance Between Columns: 1600mm
- X Axis Travel: 5200mm
- Y Axis Travel: 1600mm
- Z Axis Travel: 1000mm
- Loading Weight: 20Ton
- Machine Net Weight: 40 Ton
- Bed, table, column, beam, saddle and spindle head are made by high quality Meehanite Casting. (100% Made in TAIWAN)



Xaxis gearbox, linear guide ways, and linear support.



Model: DB-16500 With Full Cover (Without Roof)



Model: DB-19200 With Full Cover (Without Roof)

Milling Head Options



Fixed, Dual Axis Automatic Indexing Milling Heads



Fixed, Dual Axis Automatic Indexing Milling Heads



Fixed, Dual Axis Automatic Indexing Milling Heads



Manuel/ Semi Automatic Dual Axis Indexing Milling Heads



90-Degree Auto Indexing Milling Head



90-Degree Universal Milling Head



90-Degree Manuel Milling Head



Extension Milling Head

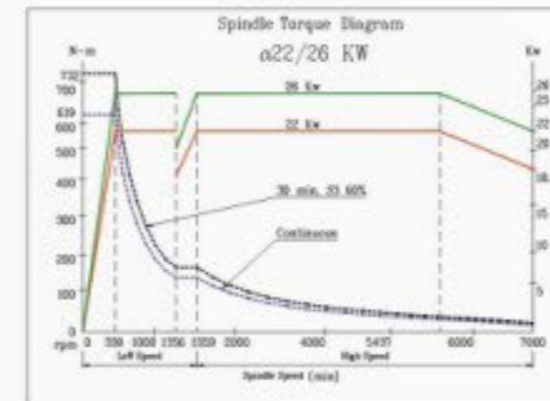
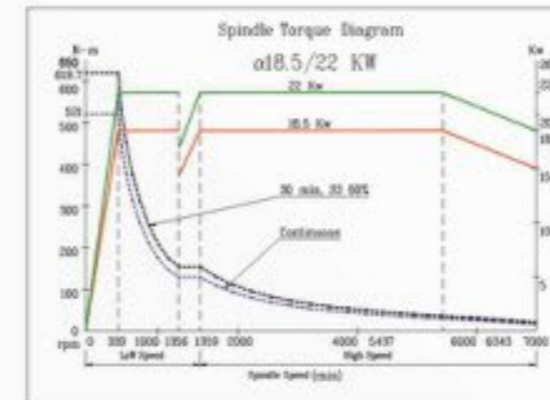
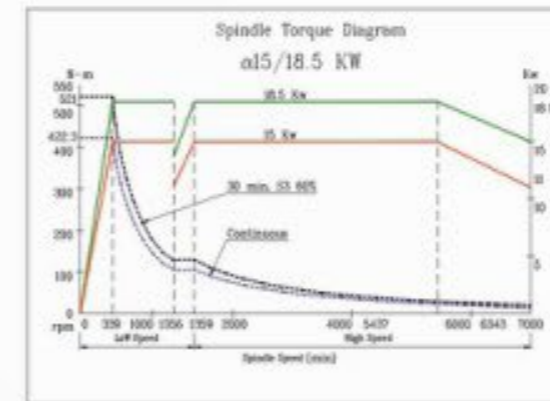
Standard Accessories

- Mitsubishi M 70A series Controller. 10.4" LCD screen
- BT 50, 6.000rpm, 15/18.5 KW Gear Box Spindle
- Twin hydraulic cylinders balancing system
- 24 Tools Arm Type ATC
- Automatic Lubricating Device
- Cutting Coolant
- Working Lamp
- Working Table Splashier
- Three Step Warning Lamps
- Rigid Tapping
- Horizontal Adjusting Bolt and Pad
- Tool for Adjustment
- Air Blow/ Cutting Fluid
- Electric Machine Operation Manual
- Spindle Cooling System
- Air Gun/ Water Gun
- Full- enclosed Splash Guard (Without roof)
- Swiveling arm type operation panel
- CE Requirements
- Transformer
- External Hand Wheel
- Electric Cabin with Head Exchanger
- Footswitch for tool clamping
- Oil Skimmer
- Two Screw Type, One Link Type Chip Conveyor

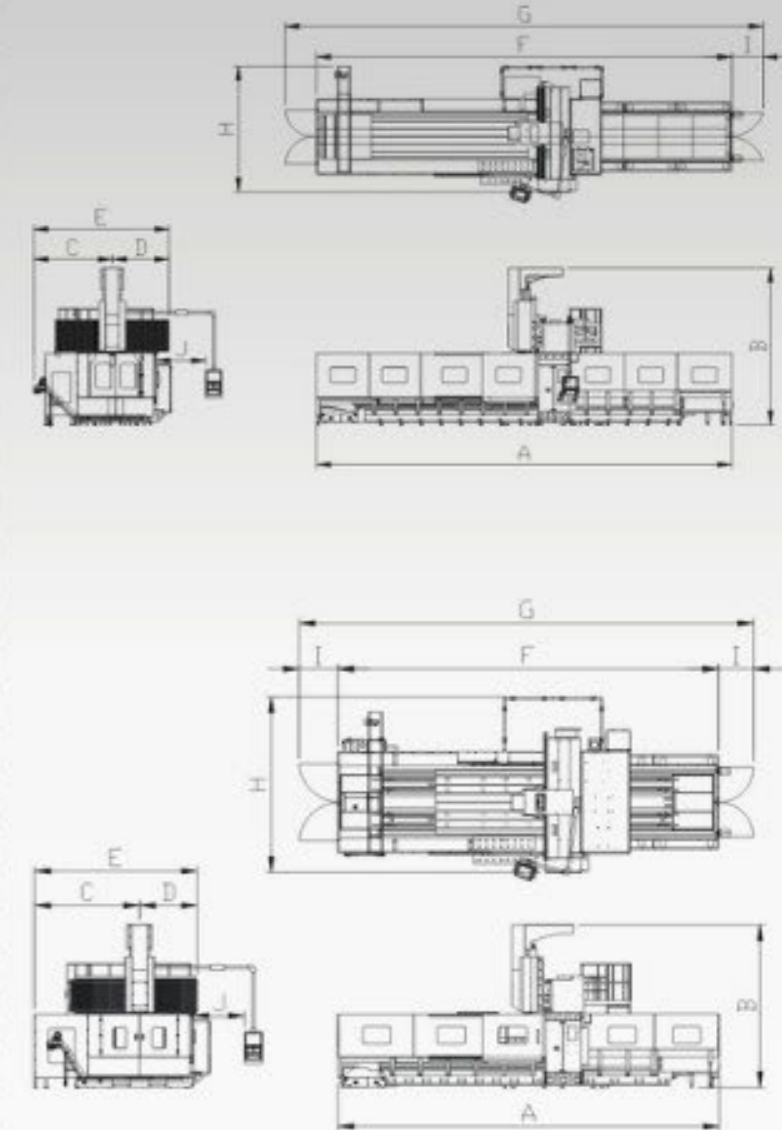
Optional Accessories

- Controller;**
- Mitsubishi M720
 - Mitsubishi M730
 - Fanuc OiMF
 - Fanuc 31B
 - Fanuc 32B
 - Heidenhain ITNC 530
- Spindle; (BT/BBT/ISO)**
- BT 40 10.000rpm, Direct Drive
 - BT 40 12.000rpm Direct Drive
 - BT 40 15.000rpm Direct Drive
 - BT 50, 8.000rpm Belt Type
 - BT 50, 10.000rpm Direct Drive
- Coolant Through Spindle(CTS) 20-40-50-70 Bar Paper Filter and Water Tank
 - Air Through Spindle (ATS)
 - Spindle Jet Coolant Around Spindle
 - Z axis travel up grade to 1000-1100-1200-1500mm
 - Arm Type ATC, 32-40-60 Tools
 - Enclosed splash guard with roof
 - AC for electrical cabinet
 - Heidenhain X,Y,Z Linear Scale
 - Renishaw Touch Probe Measurement System
 - Renishaw Tool Probe Measurement System
 - Interface preparation for fourth axis
 - Rotary Table
 - Auto Head Changer System (AAC System)
 - V/H Type ATC 40, 60 Tools
 - Manuel Swiveling arm type head bracket

Spindle Torque Diagram



Machine Dimensions



Machining TYPE

Model	1200	1600	2100	2600	2800	3200	3600	4200
Columns(W)	700	1000	1000	1000	1000	1350	1350	1350
Columns(L)	400	500	500	500	500	600	600	600
Distance Between Columns	1200	1600	2100	2600	2800	3200	3600	4200
A	9517-10317	10317-14317	9884-14884	9884-16884	9884-16884	9884-16884	9884-16884	10884-21884
B	4550	4650-4850	4650-5050	4650-5050	4650-5050	4850-5350	4850-5350	4850-5350
C	2112	2512	2992	2992	2992	2992	2992	3492
D	1817	1817	1664	2064	2264	2664	3064	3364
E	3928	4328	4636	5136	5336	5736	6136	6736
F	8072-8872	8872-12872	9872-14872	9872-16872	9872-16872	9872-16872	10872-16872	11872-22872
G	10086-10886	10886-14886	11886-16886	11886-18886	11886-18886	11886-18886	12886-18886	13886-24886
H	3249	4049	5024	6000	6400	7200	8000	9200
I	1007	1007	1007	1007	1007	1007	1007	1007
J	1945	1945	1945	1945	1945	1945	1945	1945

TABLE

Model	1200	1600	2100	2600	2800	3200	3600	4200
L	1200-2000	2000-6000	3000-8000	3000-10000	3000-10000	3000-10000	3000-10000	5000-16000
K	900	1300	1800	2300	2500	2900	3300	3500
T-SLOTS	22*5*150	22*5*250	22*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250

Double Column Technical Specifications

Technical Specifications	Unit	DB-12120	DB-12150	DB-12200	DB-16200	DB-16300	DB-16400	DB-16500	DB-16600	DB-21300
Table										
Table Size	mm	900*1200	900*1500	900*2000	1300*2000	1300*3000	1300*4000	1300*5000	1300*6000	1800*3000
Table T-slot	mm	22*5*150	22*5*150	22*5*150	22*5*250	22*5*250	22*5*250	22*5*250	22*5*250	22*5*250
Loading Weight	Ton	5	7.5	9.5	10	13	15	20	23	15
Travel										
Distance Between Columns	mm	1200	1200	1200	1600	1600	1600	1600	1600	2100
X Axis Travel	mm	1400	1700	2200	2200	3200	4200	5200	6200	3200
Y Axis Travel	mm	1200	1200	1200	1600	1600	1600	1600	1600	2100
Z Axis Travel	mm	700	700	700	800 (1000)	800 (1000)	800 (1000)	800 (1000)	800 (1000)	800 (1000, 1200)
Spindle										
Spindle Nose End to Table	mm	900	900	900	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000
Spindle Center to Column	mm	520	520	520	550	550	550	550	550	550
Spindle Motor	kw	11/15KW	11/15KW	11/15KW	15/18.5KW	15/18.5KW	15/18.5KW	15/18.5KW	15/18.5KW	15/18.5KW
Spindle Diameter	mm	φ70	φ70	φ70	φ100	φ100	φ100	φ100	φ100	φ100
Spindle Speed	rpm	10,000	10,000	10,000	6,000	6,000	6,000	6,000	6,000	6,000
Spindle Taper		BT-40	BT-40	BT-40	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle Driver		Direct Drive	Direct Drive	Direct Drive	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box
X, Y, Z Axis Servo Motors										
X, Y, Z Motor Rate (Mitsubishi)	kw	3.5, 3.5, 4.5	3.5, 3.5, 4.5	3.5, 3.5, 4.5	4.5,4.5, 4.5	4.5, 4.5, 4.5	4.5, 4.5, 4.5	7, 4.5, 4.5	7, 4.5, 4.5	7, 7, 4.5
Guide Way										
X Axis Rail Type	mm	45mm*2 Linear way	45mm*2 Linear way	45mm*2 Linear way	55mm*2 Linear way	55mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	55mm*4 Linear way
Y Axis Rail Type	mm	45mm*2 Linear way	45mm*2 Linear way	45mm*2 Linear way	55mm*2 Linear way	55mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way
Z Axis Rail Type	mm	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way
Feeding Speed										
Rapid Travers (X, Y, Z)	m/min	18,18,12	18,18,12	18,18,12	15,15,12	15,15,12	12,12,10	12,12,10	12,12,10	15,15,12
Cutting Feed Rate(X, Y, Z)	m/min	10	10	10	10	10	10	10	10	10
Ball Screw Diameter										
Axis Diameter X, Y, Z	mm	φ50, 50, 50	φ50, 50, 50	φ50, 50, 50	φ50, 50, 50	φ50, 50, 50	φ63, 63, 50	63,63, 50	63,63, 50	φ63, 63, 50
ATC										
Tool Change	type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Storage Capacity		24	24	24	24	24	24	24	24	24
Max. Tool Length	mm	300	300	300	350	350	350	350	350	350
Max. Tool Diameter	mm	φ80	φ80	φ80	φ125	φ125	φ125	φ125	φ125	φ125
Max. Tool Weight	kg	8	8	8	18	18	18	18	18	18
Tool Changing Time	sec.	3.2	3.2	3.2	3.5	3.5	3.5	3.5	3.5	3.5
Accuracy										
Full Travel Positional Accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Repeated Precision Accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
General Spec										
Machine Net Weight	Ton	14	16	18	25	28	33	40	46	47

Double Column Technical Specifications

Technical Specifications	Unit	DB-21400	DB-21500	DB-21600	DB-21800	DB-26300	DB-26400	DB-26500	DB-26600	DB-26800
Table										
Table Size	mm	1800*4000	1800*5000	1800*6000	1800*8000	2300*3000	2300*4000	2300*5000	2300*6000	2300*8000
Table T-slot	mm	22*5*250	22*5*250	22*5*250	22*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250
Loading Weight	Ton	20	25	30	34	20	25	28	33	36.5
Travel										
Distance Between Columns	mm	2100	2100	2100	2100	2600	2600	2600	2600	2600
X Axis Travel	mm	4200	5200	6200	8200	3200	4200	5200	6200	8200
Y Axis Travel	mm	2100	2100	2100	2100	2600	2600	2600	2600	2600
Z Axis Travel	mm	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)
Spindle										
Spindle Nose End to Table	mm	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000
Spindle Center to Column	mm	550	550	550	550	550	550	550	550	550
Spindle Motor	kw	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	15/18.5KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW
Spindle Diameter	mm	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100
Spindle Speed	rpm	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Spindle Taper		BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle Driver		Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box
X, Y, Z Axis Servo Motors										
X, Y, Z Motor Rate (Mitsubishi)	kw	7, 7, 4.5	7, 7, 4.5	9, 7, 4.5	9, 7, 4.5	7, 7, 4.5	7, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5
Guide Way										
X Axis Rail Type	mm	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way
Y Axis Rail Type	mm	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way
Z Axis Rail Type	mm	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way
Feeding Speed										
Rapid Travers (X, Y, Z)	m/min	12,12,10	12,12,10	12,12,10	12,12,10	15,15,12	12,12,10	12,12,10	12,12,10	12,12,10
Cutting Feed Rate(X, Y, Z)	m/min	10	10	10	10	10	10	10	10	10
Ball Screw Diameter										
Axis Diameter X, Y, Z	mm	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ63, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50
ATC										
Tool Change	type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Storage Capacity		24	24	24	24	24	24	24	24	24
Max. Tool Length	mm	350	350	350	350	350	350	350	350	350
Max. Tool Diameter	mm	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125
Max. Tool Weight	kg	18	18	18	18	18	18	18	18	18
Tool Changing Time	sec.	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Accuracy										
Full Travel Positional Accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Repeated Precision Accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
General Spec										
Machine Net Weight	Ton	50	56	65	75	48	53	60	66	78

Double Column Technical Specifications

Technical Specifications	Unit	DB-261000	DB-28300	DB-28400	DB-28500	DB-28600	DB-28800	DB-281000	DB-32300	DB-32400
Table										
Table Size	mm	2300*10000	2500*3000	2500*4000	2500*5000	2500*6000	2500*8000	2500*10000	2900*3000	2900*4000
Table T-slot	mm	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250
Loading Weight	kg	38	23	28	31	34	37		28	30
Travel										
Distance Between Columns	mm	2600	2800	2800	2800	2800	2800	2800	3200	3200
X Axis Travel	mm	10200	3200	4200	5200	6200	8200	10200	3200	4200
Y Axis Travel	mm	2600	2800	2800	2800	2800	2800	2800	3200	3200
Z Axis Travel	mm	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	800 (1000, 1200)	1000(1200, 1500)	1000(1200, 1500)
Spindle										
Spindle Nose End to Table	mm	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000	200-1200	200-1200
Spindle Center to Column	mm	550	550	550	550	550	550	550	550	550
Spindle Motor	kw	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW
Spindle Diameter	mm	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100
Spindle Speed	rpm	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Spindle Taper		BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle Driver		Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box
X, Y, Z Axis Servo Motors										
X, Y, Z Motor Rate (Mitsubishi)	kw	9, 7, 4.5	7, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	7, 7, 4.5	7, 7, 4.5
Guide Way										
X Axis Rail Type	mm	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way
Y Axis Rail Type	mm	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way
Z Axis Rail Type	mm	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way
Feeding Speed										
Rapid Travers (X, Y, Z)	m/min	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10
Cutting Feed Rate(X, Y, Z)	m/min	10	10	10	10	10	10	10	10	10
Ball Screw Diameter										
Axis Diameter X, Y, Z	mm	φ80, 63, 50	φ63, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ63, 63, 50	φ80, 63, 50
ATC										
Tool Change	type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Storage Capacity		24	24	24	24	24	24	24	24	24
Max. Tool Length	mm	350	350	350	350	350	350	350	400	400
Max. Tool Diameter	mm	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125
Max. Tool Weight	kg	18	18	18	18	18	18	18	18	18
Tool Changing Time	sec.	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Accuracy										
Full Travel Positional Accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.008	0.008	0.005	0.005
Repeated Precision Accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002
General Spec										
Machine Net Weight	kg	96	53	60	68	72	82	100	58	63

Double Column Technical Specifications

Technical Specifications	Unit	DB-32500	DB-32600	DB-32800	DB-321000	DB-36400	DB-36500	DB-36600	DB-36800	DB-361000
Table										
Table Size	mm	2900*5000	2900*6000	2900*8000	2900*10000	3300*4000	3300*5000	3300*6000	3300*8000	3300*10000
Table T-slot	mm	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250
Loading Weight	Ton	32	36	40	45	30	35	38	42	45
Travel										
Distance Between Columns	mm	3200	3200	3200	3200	3600	3600	3600	3600	3600
X Axis Travel	mm	5200	6200	8200	10200	4200	5200	6200	8200	10200
Y Axis Travel	mm	3200	3200	3200	3200	3600	3600	3600	3600	3600
Z Axis Travel	mm	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)
Spindle										
Spindle Nose End to Table	mm	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200
Spindle Center to Column	mm	550	550	550	550	550	550	550	550	550
Spindle Motor	kw	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW	18.5/22KW
Spindle Diameter	mm	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100	φ100
Spindle Speed	rpm	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Spindle Taper		BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle Driver		Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box
X, Y, Z Axis Servo Motors										
X, Y, Z Motor Rate (Mitsubishi) kw		9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	7, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5	9, 7, 4.5
Guide Way										
X Axis Rail Type	mm	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way
Y Axis Rail Type	mm	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way
Z Axis Rail Type	mm	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way
Feeding Speed										
Rapid Travers (X, Y, Z)	m/min	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10
Cutting Feed Rate(X, Y, Z)	m/min	10	10	10	10	10	10	10	10	10
Ball Screw Diameter										
Axis Diameter X, Y, Z	mm	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	Rack Gear, 63, 50	Rack Gear, 63, 50
ATC										
Tool Change	type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Storage Capacity		24	24	24	24	24	24	24	24	24
Max. Tool Length	mm	400	400	400	400	400	400	400	400	400
Max. Tool Diameter	mm	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125	φ125
Max. Tool Weight	kg	18	18	18	18	18	18	18	18	18
Tool Changing Time	sec.	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Accuracy										
Full Travel Positional Accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.008	0.01
Repeated Precision Accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.005
General Spec										
Machine Net Weight	Ton	70	78	90	100	70	75	80	93	105

Double Column Technical Specifications

Technical Specifications	Unit	DB-361200	DB-42500	DB-42600	DB-42800	DB-421000	DB-421200	DB-421600
Table								
Table Size	mm	3300*10000	3300*5000	3300*6000	3300*8000	3300*10000	3300*12000	3300*16000
Table T-slot	mm	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250	22(28)*5*250
Loading Weight	kg	48	38	41	44	47	50	60
Travel								
Distance Between Columns	mm	3600	4200	4200	4200	4200	4200	4200
X Axis Travel	mm	10200	5200	6200	8200	10200	12200	16200
Y Axis Travel	mm	3600	4200	4200	4200	4200	4200	4200
Z Axis Travel	mm	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)	1000(1200, 1500)
Spindle								
Spindle Nose End to Table	mm	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200
Spindle Center to Column	mm	550	550	550	550	550	550	550
Spindle Motor	kw	18.5/22KW	22/26KW	22/26KW	22/26KW	22/26KW	22/26KW	22/26KW
Spindle Diameter	mm	φ100	φ100	φ100	φ100	φ100	φ100	φ100
Spindle Speed	rpm	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Spindle Taper		BT-50	BT-50	BT-50	BT-50	BT-50	BT-50	BT-50
Spindle Driver		Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box	Gear Box
X, Y, Z Axis Servo Motors								
X, Y, Z Motor Rate (Mitsubishi)	kw	9, 7, 4.5	9, 7, 4.5	9, 7, 7	9, 7, 7	11, 7, 7	11, 7, 7	11, 7, 7
Guide Way								
X Axis Rail Type	mm	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way	55mm*4 Linear way
Y Axis Rail Type	mm	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way	65mm*2 Linear way
Z Axis Rail Type	mm	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way	Box Way
Feeding Speed								
Rapid Travers (X, Y, Z)	m/min	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10	12,12,10
Cutting Feed Rate(X, Y, Z)	m/min	10	10	10	10	10	10	10
Ball Screw Diameter								
Axis Diameter X, Y, Z	mm	Rack Gear, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	φ80, 63, 50	Rack Gear	Rack Gear
ATC								
Tool Change	type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Storage Capacity		24	24	24	24	24	24	24
Max. Tool Length	mm	400	400	400	400	400	400	400
Max. Tool Diameter	mm	φ125	φ125	φ125	φ125	φ125	φ125	φ125
Max. Tool Weight	kg	18	18	18	18	18	18	18
Tool Changing Time	sec.	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Accuracy								
Full Travel Positional Accuracy	mm	0.01	0.008	0.008	0.01	0.01	0.01	0.01
Repeated Precision Accuracy	mm	0.005	0.003	0.003	0.005	0.005	0.005	0.005
General Spec								
Machine Net Weight	kg	120	80	88	98	113	128	143



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