

4-axis Horizontal 4-axis machining centres



		NBH 40	NBH 50 NBH 500	NBH 60 NBH 600	NBH 63 NBH 630	NBH 80 NBH 800	NBH 100 NBH 1000	NBH 1100	NBH 1250	NBH 1600	NBH 2000
Pallet size	mm	400 × 500 [500 × 500]	500 × 500 [500 × 630]	500 × 630 [630 × 630]	630 × 630 [800 × 800]	800 × 800 [1000 × 1000]	1000 × 1000 [1000 × 1200]	800 × 1000 [1000 × 1000] [1000 × 1250]	1250 × 1250 [1600 × 1600]	1600 × 1600 [2000 × 2000] [2000 × 2500]	2000 × 2000 [2000 × 2500]
X-axis / Y-axis / Z-axis	mm	700 / 630 / 700	900 / 800 / 900	800 / 800 / 800	1000 / 850 [1050] / 1150	1400 [1800] / 1100 [1400] / 1400	1800 / 1400 / 1800	1500 [1800/2000] / 1300 [1600] / 1400 [1600]	2100 [2800] / 1800 [2100] / 1800 [2100]	2800 [3500] / 2100 [3000] / 2100 [2600]	4200 [4800] / 3000 [3900] / 2600 [3200]
Interference area diameter (flattened)	mm	700	900	900	900 (1150)	1360 (1600)	1700 (2000)	1500 [1800/2000]	2400 [2700]	3000 [3500]	4200 [4800]
Loading height	on pallet mm	1000	1000	950	1300	1500 [1800]	1800	1800 [2100]	2200 [2500]	2600 [3500]	3500 [4400]
Loading weight	on pallet kg	500	800	1000	1500	2000	3000	3500 [5000]	5000 [10,000]	10,000 [15,000]	20,000 [30,000]
Motor spindle		NBH 40	NBH 50	NBH 60	NBH 63	NBH 80	NBH 100				
Speed	up to rpm	16,000	16,000	12,000	12,000	12,000	12,000				
Drive power	40 % duty cycle, up to kW	52	52	66	66	66	66				
Torque	40 % duty cycle, up to Nm	180	180	370	370	370	370				
Gear spindle			NBH 500	NBH 600	NBH 630	NBH 800	NBH 1000	NBH 1100	NBH 1200	NBH 1600	NBH 2000
Speed	up to rpm		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Drive power	40 % duty cycle, up to kW		22.5	46	81	80	80	80	80	80	80
Torque	40 % duty cycle, up to Nm		466	1130	1236	2600	2600	2600	2600	2600	2600

5-axis Horizontal 5-axis machining centres

		NBH 630 ^{BA}	NBH 630 ^C	NBH 800 ^{BA}	NBH 800 ^C	NBH 1000 ^A	NBH 1000 ^{BA}	NBH 1100 ^A	NBH 1250 ^A	NBH 1600 ^A	NBH 2000 ^A
Pallet size	mm	630 × 630	630 × 630 [800 × 800]	800 × 800	800 × 800 [1000 × 1000]	1000 × 1000 [1000 × 1250]	1000 × 1000	800 × 1000 [1000 × 1000] [1000 × 1250]	1250 × 1250 [1600 × 1600]	1600 × 1600 [2000 × 2000] [2000 × 2500]	2000 × 2000 [2000 × 2500]
X-axis / Y-axis / Z-axis	mm	1000 / 850 [1050] / 1150	1000 / 850 [1050] / 1150	1400 [1800] / 1100 [1400] / 1400	1400 [1800] / 1100 [1400] / 1400	1800 / 1400 / 1800	1800 / 1400 / 1800	1500 [2000] / 1300 [1600] / 1400 [1600]	2100 [2800] / 1800 [2100] / 1800 [2100]	2800 [3500] / 2100 [3000] / 2100 [2600]	4200 [4800] / 3000 [3900] / 2600 [3200]
Interference area diameter (flattened)	mm	900	900 (1150)	1200	1360 (1600)	1700 (2000)	1600	1500 [1800/2000]	2400 [2700]	3000 [3500]	4200 [4800]
5th axis	type	Swivel rotary table	Swivel head	Swivel rotary table	Swivel head	Tilt head	Swivel rotary table	Tilt head	Tilt head	Tilt head	Tilt head
Swivel range	degrees	+30 to -120	0 to -225	+30 to -120	0 to -225	+60 to -120	+30 to -120	+60 to -120	+60 to -120	+60 to -120	+60 to -120
Loading height	on pallet mm	800	1300	1100 [1400]	1500 [1800]	1700	1400	1800 [2100]	2200 [2500]	2600 [3500]	3500 [4400]
Loading weight	on pallet kg	900	1500	1200	2000	3000	2500	3500 [5000]	5000 [10,000]	10,000 [15,000]	20,000 [30,000]
Motor spindle		NBH 630^{BA}	NBH 630^C	NBH 800^{BA}	NBH 800^C		NBH 1000^{BA}				
Speed	up to rpm	12,000	16,000	12,000	16,000		12,000				
Drive power	40 % duty cycle, up to kW	66	42	66	42		66				
Torque	40 % duty cycle, up to Nm	370	370	370	370		370				
Gear spindle		NBH 630^{BA}		NBH 800^{BA}		NBH 1000^A	NBH 1000^{BA}	NBH 1100^A	NBH 1200^A	NBH 1600^A	NBH 2000^A
Speed	up to rpm	10,000		10,000		6000	10,000	6000	6000	6000	6000
Drive power	40 % duty cycle, up to kW	46		80		46	80	46	46	46	46
Torque	40 % duty cycle, up to Nm	1130		2600		1390	2600	1390	1390	1390	1390