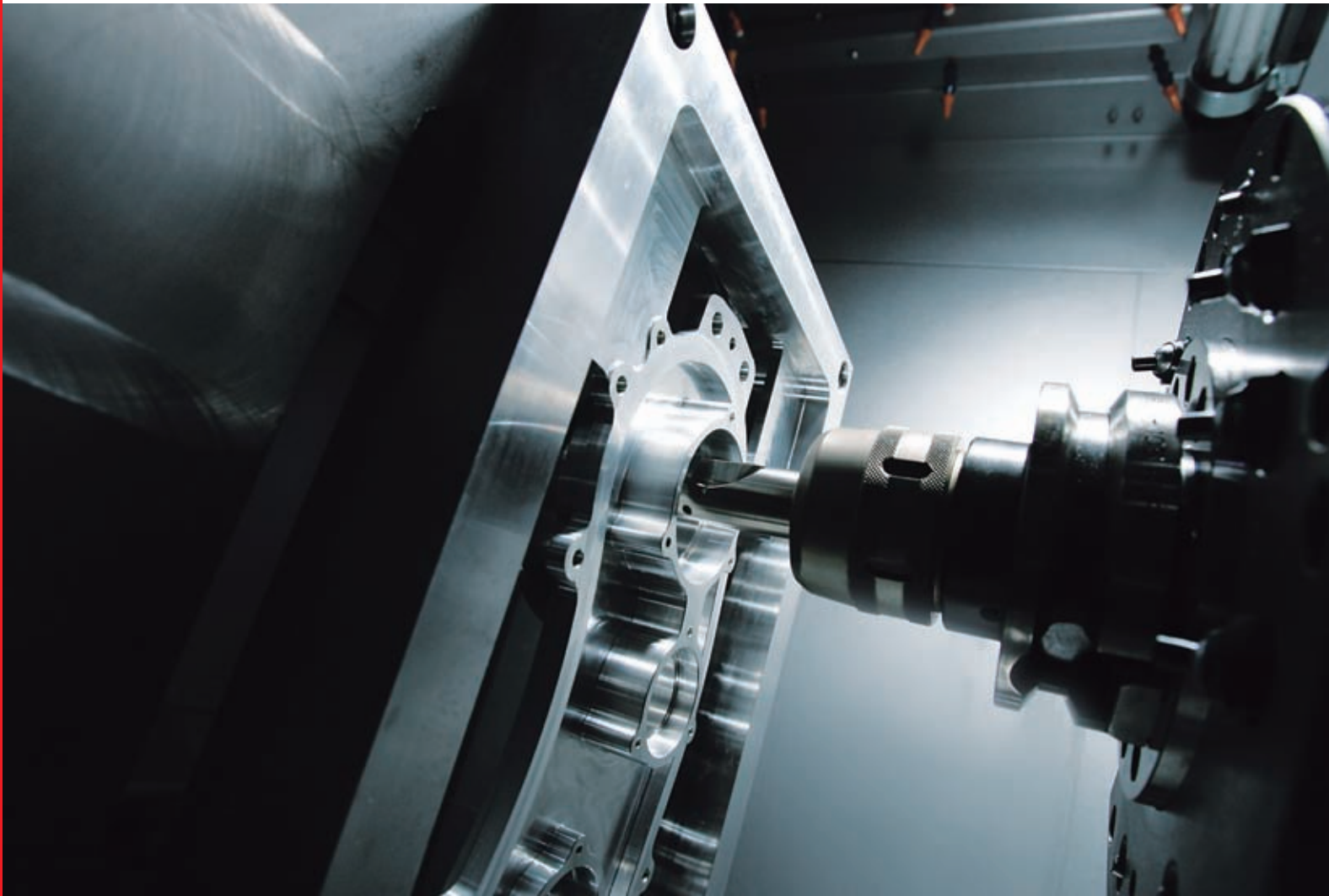


TOYODA

JTEKT Group

Horizontal Machining Center

Line Up



HIGH SPEED

FH400J

Smallest and fastest in its class



- Smallest floor space in its class
- Rapid feedrate 60 m/min. tool change time (C to C) 2.4 sec
- Cylindrical roller guide and highly rigid 3-point support bed keep the machine level and stable over a long period of time

Pallet size	15.75 x 15.75 in (400 x 400 mm)
X Axis	23.6 in (600 mm)
Y Axis	22 in (560 mm)
Z Axis	24.8 in (630 mm)
Rapid feedrate	2,362 ipm (60 m/min)
Spindle speed	15,000 rpm
Spindle drive motor	30 hp (22 kw) / 25 hp (18.5 kw)
Spindle nose taper	CAT40
Torque	123 ft.lb (166.7 Nm)
Max load on pallet	880 lb (400 kg)
Floorspace	82.5 x 151 in (2,100 x 3,830 mm)
Workpiece swing	ø24.8 x 35.5 in (ø630 x 900 mm)

FH450S

Speed and rigidity in a compact footprint



- Fast traverse speeds and instant acceleration: 60 m/min at 9.8 m/sec² (1.0 G)
- Cylindrical roller guide and highly rigid 3-point support bed keep the machine level and stable over a long period of time
- BTS Function (Ballscrew Thermo Stabilizer) adopted standard

Pallet size	17.7 x 17.7 in (450 x 450 mm)
X Axis	23.62 in (600 mm)
Y Axis	23.62 in (600 mm)
Z Axis	23.62 in (600 mm)
Rapid feedrate	1,969 ipm (50 m/min)
Spindle speed	15,000 rpm
Spindle drive motor	30 hp (22 kw) / 25 hp (18.5 kw)
Spindle nose taper	CAT40
Torque	123 ft.lb (166.7 Nm)
Max load on pallet	880 lb (400 kg)
Floorspace	98.4 x 211 in (2,500 x 5,360 mm)
Workpiece swing	ø24.8 x 39.0 in (ø630 x 990 mm)

FH550S

Speed and rigidity in a compact footprint



- Fast traverse speeds and instant acceleration: 60 m/min at 9.8 m/sec² (1.0 G)
- Cylindrical roller guide and highly rigid 3-point support bed keep the machine level and stable over a long period of time
- BTS Function (Ballscrew Thermo Stabilizer) adopted standard

Pallet size	21.65 x 21.65 in (550 x 550 mm)
X Axis	29.52 in (750 mm)
Y Axis	31.5 in (800 mm)
Z Axis	33.46 in (850 mm)
Rapid feedrate	2,362 ipm (60 m/min)
Spindle speed	15,000 rpm
Spindle drive motor	30 hp (22 kw) / 25 hp (18.5 kw)
Spindle nose taper	CAT50
Torque	123 ft.lb (166.7 Nm)
Max load on pallet	1,760 lb (800 kg)
Floorspace	118 x 284 in (2,997 x 7,188 mm)
Workpiece swing	ø33.46 x 45.0 in (ø850 x 1,143 mm)

FH630S

Speed and rigidity in a compact footprint



- Fast traverse speeds and instant acceleration: 60 m/min at 9.8 m/sec² (1.0 G)
- Cylindrical roller guide and highly rigid 3-point support bed keep the machine level and stable over a long period of time
- BTS Function (Ballscrew Thermo Stabilizer) adopted standard

Pallet size	24.8 x 24.8 in (630 x 630 mm)
X Axis	39.37 in (1,000 mm)
Y Axis	31.5 in (800 mm)
Z Axis	33.46 in (850 mm)
Rapid feedrate	2,362 ipm (60 m/min)
Spindle speed	15,000 rpm
Spindle drive motor	30 hp (22 kw) / 25 hp (18.5 kw)
Spindle nose taper	CAT50
Torque	123 ft.lb (166.7 Nm)
Max load on pallet	2,640 lb (1,200 kg)
Floorspace	128 x 274 in (3,240 x 6,952 mm)
Workpiece swing	ø39.37 x 45.0 in (ø1,000 x 1,143 mm)

HEAVY DUTY

FA630

A highly rigid square slide machine



- A rigid bed and square slides support heavy cutting
- Large workpiece swing allows for larger tools
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	24.8 x 24.8 in (630 x 630 mm)
X Axis	39.37 in (1,000 mm)
Y Axis	33.46 in (850 mm)
Z Axis	29.52 in (750 mm)
Rapid feedrate	1,417 ipm (30 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	2,860 lb (1,300 kg)
Floorspace	143 x 236 in (3,620 x 6,000 mm)
Workpiece swing	ø39.37 x 39.37 in (ø1,000 x 1,000 mm)

FA800

A highly rigid square slide machine



- A rigid bed and square slides support heavy cutting
- Large workpiece swing allows for larger tools
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	31.5 x 31.5 in (800 x 800 mm)
X Axis	53.1 in (1,350 mm)
Y Axis	45.2 in (1,150 mm)
Z Axis	45.2 in (1,150 mm)
Rapid feedrate	944 ipm (24 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	5,500 lb (2,500 kg)
Floorspace	191 x 301 in (4,856 x 7,652 mm)
Workpiece swing	ø63 x 51.2 in (ø1,600 x 1,300 mm)

FA1050

A highly rigid square slide machine

- A rigid bed and square slides support heavy cutting
- Large workpiece swing allows for larger tools
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	41.3 x 41.3 in (1,050 x 1,050 mm)
X Axis	63 in (1,600 mm)
Y Axis	55.1 in (1,400 mm)
Z Axis	45.2 in (1,150 mm)
Rapid feedrate	944 ipm (24 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	6,600 lb (3,000 kg)
Floorspace	208 x 331.6 in (5,286 x 8,424 mm)
Workpiece swing	ø72.8 x 61 in (ø1,850 x 1,550 mm)



FAST AND POWERFUL

FH550SX

Premium model boasting the best cutting performance in its class



- Stable column design proven with thermal analysis methods
- Improved responsiveness with synchronized dual ballscrews drives on X and Y axes
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	21.65 x 21.65 in (550 x 550 mm)
X Axis	29.53 in (750 mm)
Y Axis	31.5 in (800 mm)
Z Axis	33.46 in (850 mm)
Rapid feedrate	2,362 ipm (60 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	1,760 lb (800 kg)
Floorspace	260 x 130 in (6,600 x 3,312 mm)
Workpiece swing	ø33.46 x 45.0 in (ø850 x 1,143 mm)

FH630SX

Premium model boasting the best cutting performance in its class



- Stable column design proven with thermal analysis methods
- Improved responsiveness with synchronized dual ballscrews drives on X and Y axes
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	24.8 x 24.8 in (630 x 630 mm)
X Axis	39.37 in (1,000 mm)
Y Axis	31.5 in (800 mm)
Z Axis	33.46 in (850 mm)
Rapid feedrate	2,362 ipm (60 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	2,640 lb (1,200 kg)
Floorspace	281 x 141 in (7,126 x 3,576 mm)
Workpiece swing	ø39.37 x 45.0 in (ø1,000 x 1,143 mm)

FH800SX

Premium model boasting the best cutting performance in its class

- Stable column design proven with thermal analysis methods
- Improved responsiveness with synchronized dual ballscrews drives on X and Y axes
- Powerful spindle supports heavy cutting of iron and castings

Pallet size	31.5 x 31.5 in (800 x 800 mm)
X Axis	49.2 in (1,250 mm)
Y Axis	43.3 in (1,100 mm)
Z Axis	41.3 in (1,050 mm)
Rapid feedrate	1,890 ipm (48m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	600Nm
Max load on pallet	2,866 lbs (1300 kg)
Floorspace	145.8 x 298.5 in (3,705 x 7,584 mm)
Workpiece swing	ø47.2 x 49.2 in (ø1,200 x 1,250 mm)



Improved productivity with higher accuracy, faster speeds & greater rigidity. Armed with the latest technology for reliability & efficiency.



Toyoda's highly productive horizontal machining centers are on the leading edge of metalcutting technology. Toyoda offers a full line of machines for rapid processing of small-to-medium size parts, and highly precise machining for large workpieces. Choose from a range of sizes and options to match the machining center to your quality, size and volume requirements.

FAST AND POWERFUL

FH1000SX

Efficient production of large parts



- Rapid feedrate and tool change time equivalent to that of small machines
- High torque spindle makes heavy cutting of difficult-to-cut material possible

Pallet size	39.4 x 31.5 in (1,000 x 800 mm)
X Axis	63 in (1,600 mm)
Y Axis	55.1 in (1,400 mm)
Z Axis	72.8 in (1,850 mm)
Rapid feedrate	2,126 ipm (54 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	6,600 lb (3,000 kg)
Floorspace	232.2 x 311.4 in (5,900 x 7,909 mm)
Workpiece swing	ø70.9 x 63 in (ø1,800 x 1,600 mm)

FH1250SX

Biggest and fastest in its class



- Biggest workpiece range and stroke in its class
- Rapid feedrate and tool change time equivalent to that of small machines
- High torque spindle makes heavy cutting of difficult-to-cut material possible

Pallet size	49 x 49 in (1,250 x 1,250 mm)
X Axis	86.5 in (2,200 mm)
Y Axis	63 in (1,600 mm)
Z Axis	73 in (1,850 mm)
Rapid feedrate	1,654 ipm (42 m/min)
Spindle speed	6,000 rpm
Spindle drive motor	40 hp (30 kw) / 30 hp (22 kw)
Spindle nose taper	CAT50
Torque	440 ft.lb (600 Nm)
Max load on pallet	11,000 lb (5,000 kg)
Floorspace	244 x 390 in (6,200 x 9,900 mm)
Workpiece swing	ø94.5 x 71 in (ø2,400 x 1,800 mm)

Specifications subject to change without notice.

TOYODA

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