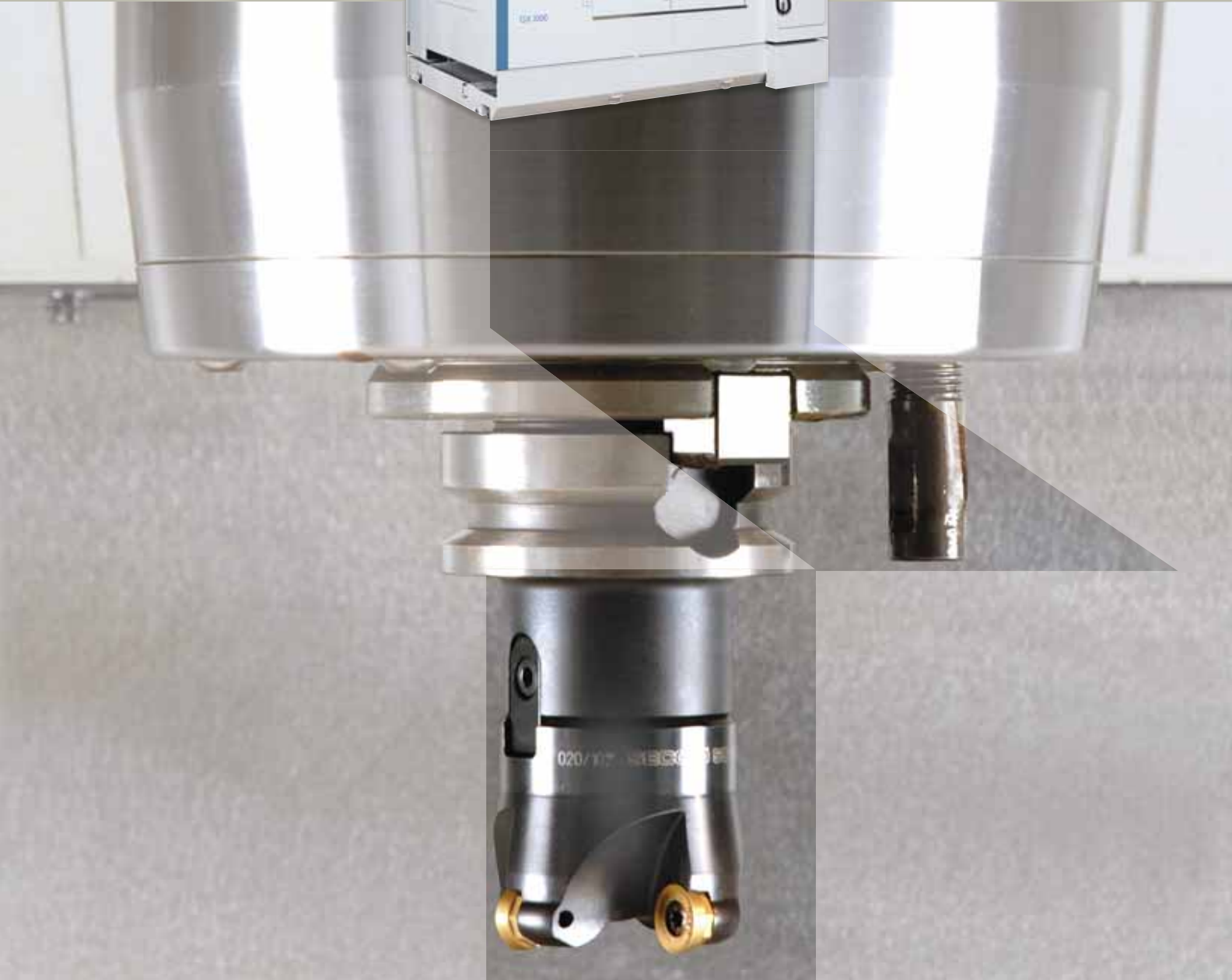


MILLING

GX 600, 800 and 1000
Vertical Machining Centers



TURNING MILLING GRINDING WORKHOLDING
www.bpt.com



Bridgeport® GX 600, 800 and 1000 vertical machining centers.

A winning combination

From one-off and small part machining right through to medium-to-high volume production runs, Bridgeport 40-taper spindle GX-Series vertical machining centers include superior design characteristics to ensure many years of accurate and reliable performance. The GX-Series VMCs are the enhanced generation of P³-Series VMCs that are in thousands of installations worldwide.

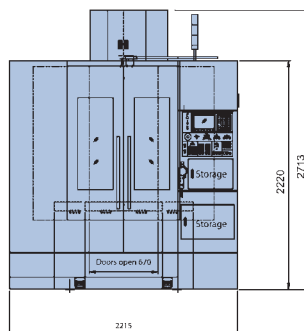
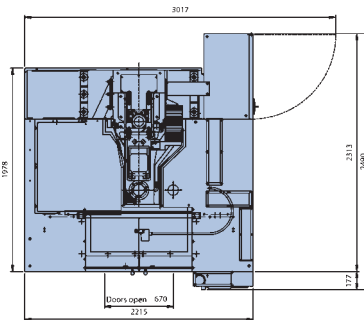
GX-Series VMCs include a stiff and thermally-stable spindle, a rigid C-frame fixed column design, and fixed pre-tensioned double-nut ball screws on all axes. The unique Bridgeport-designed linear guide and guide truck configuration provides added stiffness, damping and surface contact area. Each machine is configured with three guideways and five guide trucks on both the X and Y axes; two guideways and six guide trucks on the Z axis.

GX-Series machines are ideal for mold and die manufacturers, as well as precision engineers in the automotive, aerospace, medical and general engineering sectors.



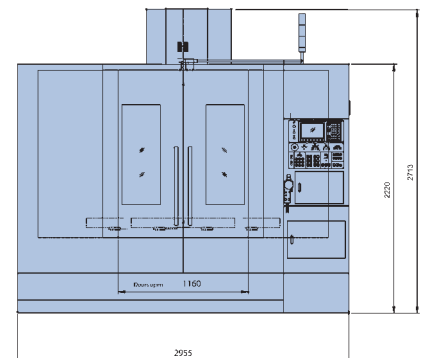
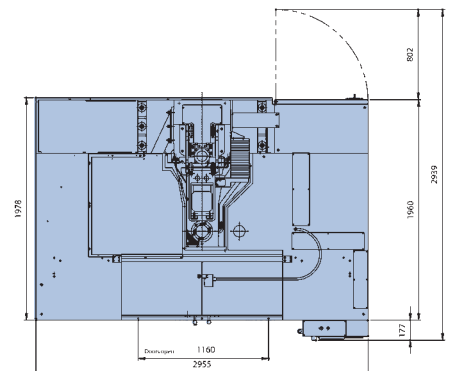
GX 600 features

- **Travels**
X, Y, Z = 23.62" x 21.25" x 21.25"
(600mm x 540mm x 540mm)
- **Work table**
L = 29.5" x W = 21.25"
(750mm x 540mm)
1760lb max load (800kg max load)
- **Rapid traverse**
1417ipm (36m/min)
- **Feedrate**
393ipm (10m/min)
- **Spindle**
10,000rpm, 34.8hp (26kW) belt-driven;
12,000rpm option
- **Control**
Bridgeport/Fanuc *i* Series GX
- **ATC**
30 tool capacity (side mount/swing arm)



GX 800 features

- **Travels**
X, Y, Z = 31.5" x 21.25" x 21.25"
(800mm x 540mm x 540mm)
- **Work table**
L = 36.4" x W = 21.25"
(925mm x 540mm)
1760lb max load (800kg max load)
- **Rapid traverse**
1417ipm (36m/min)
- **Feedrate**
393ipm (10m/min)
- **Spindle**
10,000rpm, 34.8hp (26kW) belt-driven;
12,000rpm option
- **Control**
Bridgeport/Fanuc *i* Series GX
- **ATC**
30 tool capacity (side mount/swing arm)





GX 1000 features

- **Travels**
X,Y,Z = 40.16" x 21.25" x 21.25"
(1020mm x 540mm x 510mm)
- **Work table**
L = 44" x 21.25"
(1120mm x 540mm)
1760lb max load (800kg max load)
- **Rapid traverse**
1417ipm (36m/min)
- **Feedrate**
393ipm (10m/min)
- **Spindle**
10,000rpm, 34.8hp (26kW) belt-driven;
12,000rpm option
- **Control**
Bridgeport/Fanuc i Series GX
- **ATC**
30 tool capacity (side mount/swing arm)



30-Tool ATC

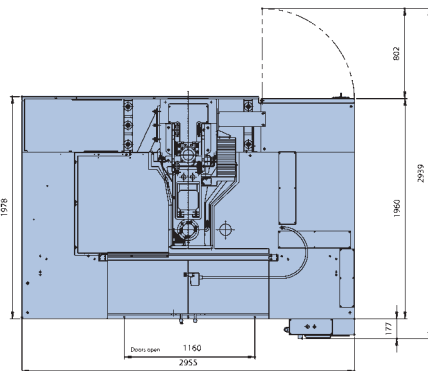
The strategically located automatic tool changer features random access, bi-directional indexing with a fast 2.5 second tool-to-tool change time.



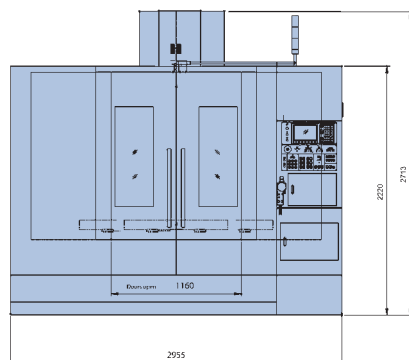
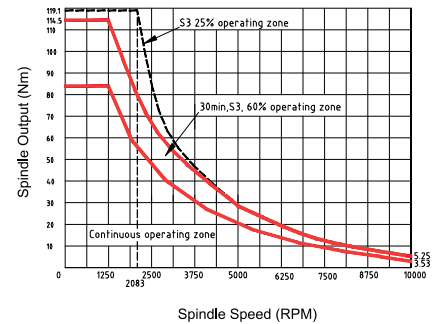
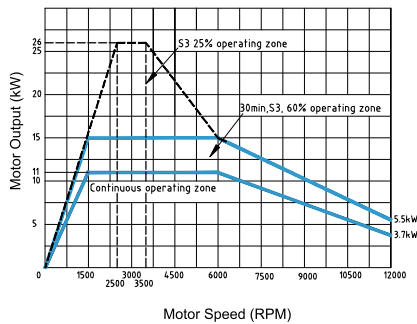
You're in control...

The GX range features the state-of-the-art Fanuc system.

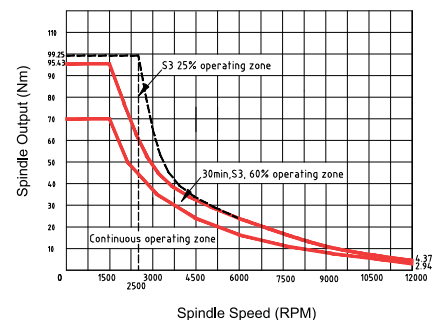
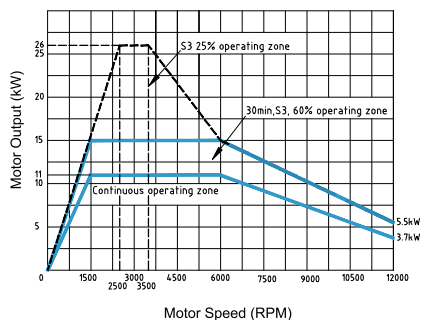
- **Bridgeport/Fanuc i Series GX**
 - 10.4" color LCD display
 - User-friendly layout and configuration
 - MPG (manual pulse generator)
 - High-speed HRV II control on axes
 - AICC high-speed software
 - Manual Guide i conversational programming



10,000-rpm Belt-Driven Spindle (Standard)



12,000-rpm High-Speed Belt-Driven Spindle (Option)



Specifications



GX 600



GX 800



GX 1000

TRAVEL

X axis	23.62" / 600mm	31.5" / 800mm	40.16" / 1020mm
Y axis	21.25" / 540mm	21.25" / 540mm	21.25" / 540mm
Z axis	21.25" / 540mm	21.25" / 540mm	21.25" / 540mm
Spindle nose to table top (min. - max.)	5.7" - 26.9" / 145 - 685mm	5.7" - 26.9" / 145 - 685mm	5.7" - 26.9" / 145 - 685mm

FEEDRATE

Rapid traverse rate	1,417ipm / 36m/min	1,417ipm / 36m/min	1,417ipm / 36m/min
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WORKTABLE

Working surface	29.5" - 21.25" / 750 - 540mm	36.4" - 21.25" / 925 - 540mm	44.1" - 21.25" / 1120 - 540mm
Table load	1760lb / 800kg	1760lb / 800kg	1760lb / 800kg
T-slots	.708" 3x6.29" / 18mm 3x160	.708" 3x6.29" / 18mm 3x160	.708" 3x6.29" / 18mm 3x160

CNC CONTROL

Bridgeport/Fanuc	i-Series GX with 10.4" LCD	i-Series GX with 10.4" LCD	i-Series GX with 10.4" LCD
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SPINDLE

Maximum spindle speed	10,000rpm (belt-driven)	10,000rpm (belt-driven)	10,000rpm (belt-driven)
Spindle power (S3-60%) (S6-25%)	20hp / 15kw 34.8hp / 26kw	20hp / 15kw 34.8hp / 26kw	20hp / 15kw 34.8hp / 26kw
Torque (S3-60%) (S6-25%)	84ft-lb / 114.5Nm @ 1,250rpm 87ft-lb / 119Nm @ 1,250rpm	84ft-lb / 114.5Nm @ 1,250rpm 87ft-lb / 119Nm @ 1,250rpm	84ft-lb / 114.5Nm @ 1,250rpm 87ft-lb / 119Nm @ 1,250rpm

HIGH-SPEED SPINDLE OPTION

Maximum spindle speed	12,000rpm (belt-driven)	12,000rpm (belt-driven)	12,000rpm (belt-driven)
Spindle power (S3-60%) (S6-25%)	20hp / 15kw 34.8hp / 26kw	20hp / 15kw 34.8hp / 26kw	20hp / 15kw 34.8hp / 26kw
Torque (S3-60%) (S6-25%)	70ft-lb / 95.5Nm @ 1,500rpm 73ft-lb / 99Nm @ 1,500rpm	70ft-lb / 95.5Nm @ 1,500rpm 73ft-lb / 99Nm @ 1,500rpm	70ft-lb / 95.5Nm @ 1,500rpm 73ft-lb / 99Nm @ 1,500rpm

ATC (CAROUSEL)

Type of tool shank	No. 40	No. 40	No. 40
Side-mount swing arm capacity (standard)	30	30	30
Shank Type – Size 40	CT or BT	CT or BT	CT or BT
Tool diameter (max.)	3.0" / 76.2mm	3.0" / 76.2mm	3.0" / 76.2mm
Tool weight (max.)	13.2lb / 6kg	13.2lb / 6kg	13.2lb / 6kg
Tool length (max.)	11.8" / 300mm	11.8" / 300mm	11.8" / 300mm
Tool change times			
Chip-to-chip time	7.0 Seconds	7.0 Seconds	7.0 Seconds
Tool-to-tool time	2.5 Seconds	2.5 Seconds	2.5 Seconds

ACCURACY ISO 230-2

Positioning accuracy	A .0004" / 0.010mm	A .0004" / 0.010mm	A .0004" / 0.010mm
Repeatability of positioning	R .00019" / 0.005mm	R .00019" / 0.005mm	R .00019" / 0.005mm

MACHINE SIZE

Machine Dimensions (WxD)	87.2" x 98.0" / 2215 x 2490mm	116.3" x 84.1" / 2955 x 2137mm	116.3" x 84.1" / 2955 x 2137mm
Height	106.8" / 2713mm	106.8" / 2713mm	106.8" / 2713mm
Mass of machine	12,100lb / 5500kg	12,540lb / 5700kg	12,980lb / 5900kg

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