QUAKELOGIC

DATASHEET

CNC Y-AXIS TURNING CENTER

QL-TitanTurn

Turn, mill, drill and tap in one setup. A2-11 spindle, 12-station live-tool turret, Y- and C-axis motion and a FANUC 0i-TF Plus control.



MAIN SPINDLE
30 hp · 2,800 rpm
A2-11 nose, 4.57 in bore

TURRET
12 stations
Live tooling at every station

AXES
X · Y · Z · C
1,180 ipm X/Z rapids

CONTROL
FANUC 0i-TF Plus
Touchscreen interface

CUSTOMER SATISFACTION 100% GUARANTEED

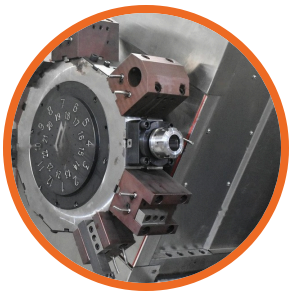
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QL-TitanTurn

CNC Y-Axis Turning Center







HEAVY-DUTY TURN-MILL PART COMPLETION

The QL-TitanTurn is a heavy-duty CNC Y-axis turning center for turning, boring, milling, drilling and rigid tapping on one platform. A one-piece cast-iron 30° slant bed with box-type sliding guideways carries a 30 hp A2-11 main spindle with a 4.57 in bore. A 12-station servo turret with live tooling at every station, a full-contouring C-axis and Y-axis milling let complex parts be finished in a single setup.

- Box-way cast-iron construction and 13,500 lb operating weight give the rigidity and damping heavy roughing cuts require.
- 825 ft-lb of spindle torque and a 4.06 in bar capacity handle large-diameter and bar-fed work.
- Live tooling at all 12 stations, Y-axis and C-axis motion remove secondary milling and drilling operations.
- FANUC 0i-TF Plus with touchscreen, conversational programming and tool-load monitoring shortens setup and protects tooling.

STANDARD FEATURES »

- Cast-iron 30° slant bed
- Box-type sliding guideways
- A2-11 spindle nose
- 15 in hydraulic chuck
- 12-station servo turret
- Live tooling, all stations
- Full-contouring C-axis
- Y-axis milling and drilling
- Rigid tapping
- X-axis glass scale
- FANUC 0i-TF Plus control
- Touchscreen interface
- Conversational programming
- Tool-load monitoring
- Programmable tailstock
- Automatic tool setter
- Chip conveyor and coolant
- Automatic lubrication

KEY FEATURES

- One-piece cast-iron bed set at 30° with box-type sliding guideways provides rigidity and vibration damping for sustained heavy cuts.
- 30 hp (22.4 kW) main spindle reaches 2,800 rpm and delivers 825 ft-lb (1,119 N·m) of torque for heavy material removal.
- A2-11 spindle nose with a 4.57 in (116 mm) bore and 4.06 in (103 mm) bar capacity accepts large-diameter and bar-fed workpieces.
- 12-station BMT65 servo turret indexes to 24 positions bi-directionally, with adjacent indexing of 0.20 s or less and 12,200 lb clamping force.
- Live tooling installs at all 12 stations and runs to 5,000 rpm on a 10 hp (7.5 kW) drive with 70 ft-lb (95 N·m) of torque.
- Full-contouring C-axis and Y-axis milling, drilling and rigid tapping produce off-center and multi-sided features in one setup.
- X and Z rapid traverse of 1,180 ipm (30 m/min) each cuts non-cutting time; X-axis glass-scale feedback holds positioning accuracy.
- FANUC 0i-TF Plus control with touchscreen, MANUAL GUIDE i conversational programming and tool-load monitoring.

PRODUCT FEATURES

Machine Structure
One-piece cast-iron slant bed · 30° slant angle · Box-type sliding guideways · 13,500 lb operating weight

Main Spindle
A2-11 nose · 4.57 in bore · 4.06 in bar capacity · 2,800 rpm · 30 hp · 825 ft-lb · 15 in hydraulic chuck

Turret & Live Tooling
12-station BMT65 servo turret · 24 indexing positions · Bi-directional · ≤ 0.20 s adjacent index · Live tooling at all 12 stations, 5,000 rpm, 10 hp, 70 ft-lb

Axes & Motion
Full-contouring C-axis · Y-axis milling, drilling and rigid tapping · X/Z rapid traverse 1,180 ipm · X-axis glass scale

CNC Control
FANUC 0i-TF Plus · Touchscreen interface · MANUAL GUIDE i conversational programming · Tool-load monitoring

Included Systems
Servo-programmable hydraulic tailstock · Automatic tool setter · Chip conveyor with bucket · Coolant system · Automatic lubrication · Enclosed splash guard

For more information about the features, specifications, and available configurations of the QL-TitanTurn, please contact QuakeLogic.

MACHINE CONFIGURATION

COMPONENT	CONFIGURATION
Bed	One-piece cast-iron slant bed, 30°, box-type sliding guideways
Main Spindle	A2-11 nose; 30 hp, 2,800 rpm, 825 ft-lb
Workholding	15 in three-jaw hydraulic chuck
Turret	12-station BMT65 servo turret, 24 positions, bi-directional
Live Tooling	All 12 stations; 5,000 rpm, 10 hp, 70 ft-lb
Rotary Axis	Full-contouring C-axis
Milling Axis	Y-axis milling and drilling with rigid tapping
CNC Control	FANUC 0i-TF Plus, touchscreen, MANUAL GUIDE i
Positioning Feedback	X-axis glass scale
Tailstock	Servo-programmable hydraulic tailstock
Tool Setting	Automatic tool setter
Chip, Coolant & Lube	Chip conveyor with bucket; coolant system; automatic lubrication

WORK CAPACITY & PERFORMANCE

SPECIFICATION	VALUE
Main Spindle Bore	4.57 in (116 mm)
Bar Capacity	4.06 in (103 mm)
Main Spindle Speed	2,800 rpm
Main Spindle Torque	825 ft-lb (1,119 N·m)
Live-Tool Speed	5,000 rpm
X / Z Rapid Traverse	1,180 ipm (30 m/min) each
Turret Indexing (Adjacent)	≤ 0.20 s
Operating Weight	13,500 lb (6,124 kg)

INCLUDED SERVICES

DELIVERY & INSTALLATION

Delivery to site, off-loading, positioning, leveling, setup and commissioning with an operational test run.

OPERATOR TRAINING

In-person training on safe operation, conversational programming, turret and live-tool setup, and routine maintenance.

WARRANTY

2-year manufacturer warranty on machine parts and CNC control parts and labor. Technical support provided by QuakeLogic.

DOCUMENTATION

English operating, maintenance and CNC manuals, electrical schematics and safety information.

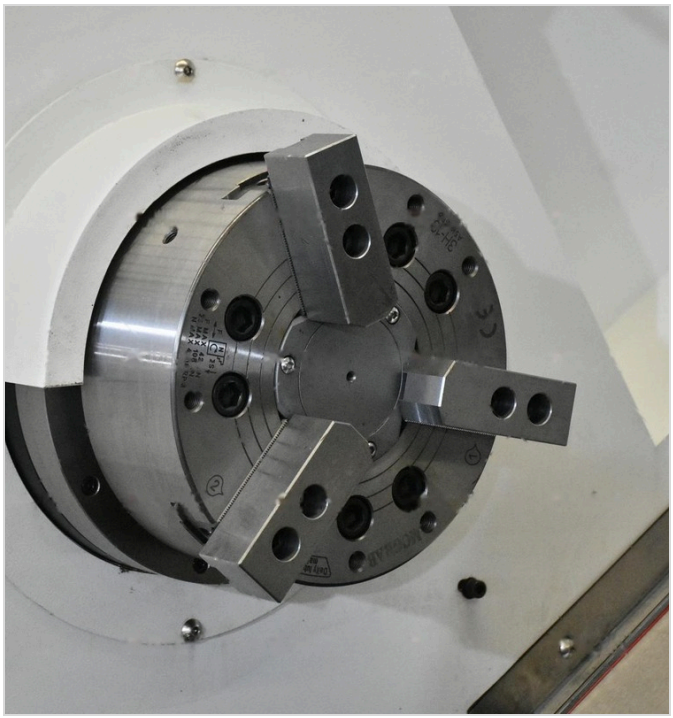
TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Machine Type	CNC Y-axis turning center (X, Y, Z, C)
Bed Construction	One-piece cast iron, box-type sliding guideways
Slant Angle	30°
Main Spindle Nose	A2-11
Main Spindle Speed	2,800 rpm
Main Spindle Bore	4.57 in (116 mm)
Bar Capacity	4.06 in (103 mm)
Main Spindle Motor	30 hp (22.4 kW)
Main Spindle Torque	825 ft-lb (1,119 N·m)
Chuck	15 in three-jaw hydraulic
Turret Type	Heavy-duty BMT65 servo turret
Turret Stations	12 primary stations
Indexing Positions	24
Adjacent Indexing Time	≤ 0.20 s
Tool Selection	Bi-directional
Turret Clamping Force	12,200 lb (5,534 kg)
Live Tooling	Installable at all 12 stations
Live-Tool Speed	5,000 rpm

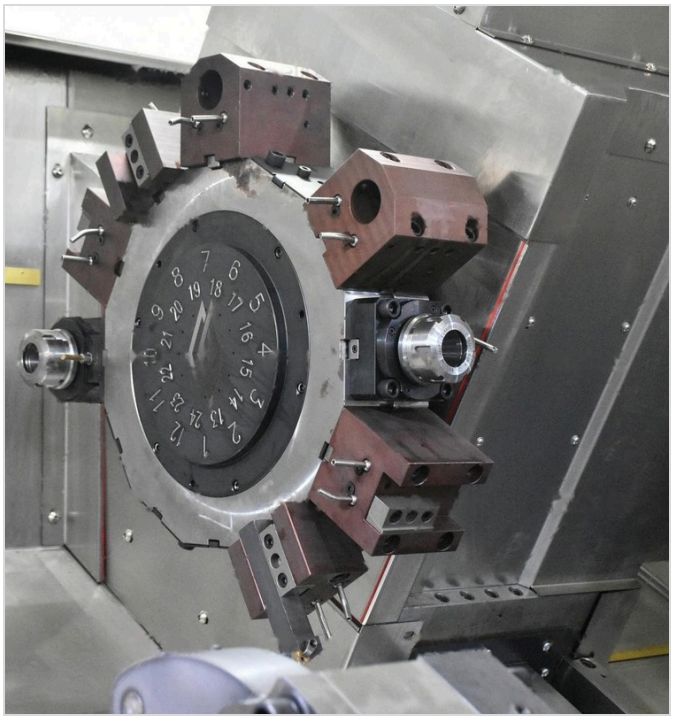
SPECIFICATION	DESCRIPTION
Live-Tool Motor	10 hp (7.5 kW)
Live-Tool Torque	70 ft-lb (95 N·m)
C-Axis	Full-contouring
Y-Axis Functions	Milling, drilling, rigid tapping
X-Axis Rapid Traverse	1,180 ipm (30 m/min)
Z-Axis Rapid Traverse	1,180 ipm (30 m/min)
X-Axis Feedback	Glass-scale feedback system
CNC Control	FANUC 0i-TF Plus, touchscreen interface
Programming	MANUAL GUIDE i conversational
Tool Monitoring	Tool-load monitoring
Tailstock	Servo-programmable hydraulic
Tool Setting	Automatic tool setter
Chip Handling	Chip conveyor with bucket
Coolant / Lubrication	Coolant system; automatic lubrication
Operating Weight	13,500 lb (6,124 kg)
Footprint (L × W × H)	128.0 × 88.6 × 98.4 in (3,251 × 2,250 × 2,499 mm), incl. chip conveyor
Warranty	2-year manufacturer warranty, from final acceptance
Technical Support	Provided by QuakeLogic

Images are representative. Specifications describe the standard QL-TitanTurn configuration.

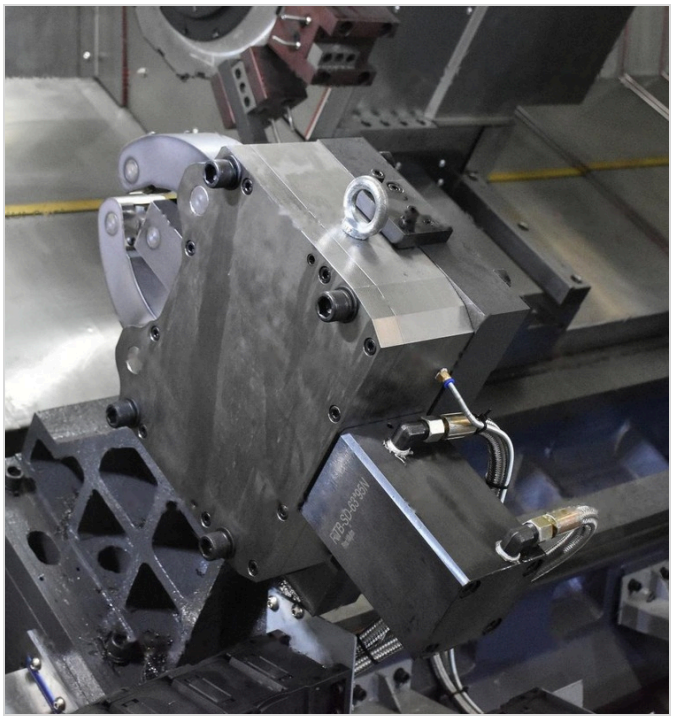
KEY COMPONENTS



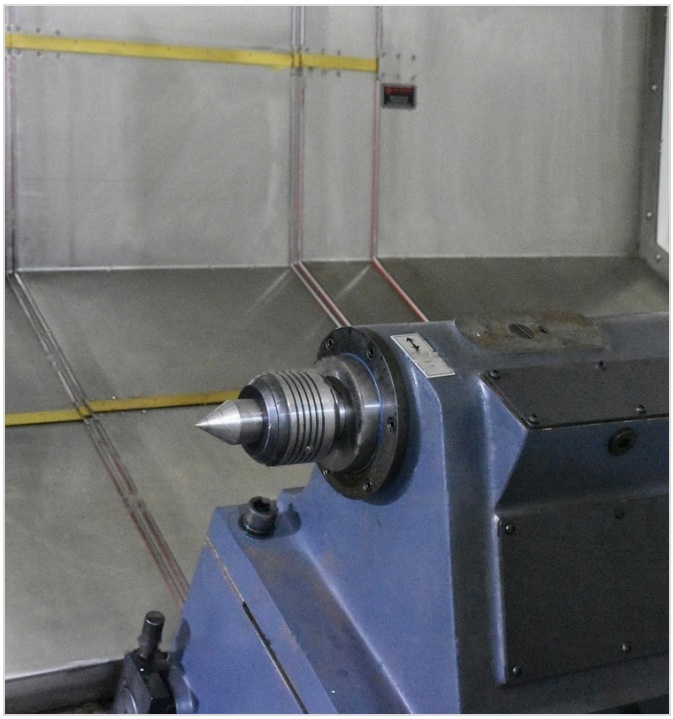
A2-11 SPINDLE & 15 IN HYDRAULIC CHUCK



12-STATION BMT65 SERVO TURRET



Y-AXIS TURRET SLIDE ON BOX WAYS



PROGRAMMABLE HYDRAULIC TAILSTOCK

Images are representative.



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VIEW PRODUCT

Scan for the QL-TitanTurn product page.

QuakeLogic Inc. is a California-based engineering and technology company, committed to quality and customer satisfaction through reliable solutions and dependable support.

CUSTOMER SATISFACTION 100% GUARANTEED