

Horizontal 4-axis Turning Center

Model: CNC410N



(Photo for reference)

CNC410N Horizontal 4-axis Turning Center Briefs

CNC410N horizontal turning center multi-axis control turning center, semi-closed loop control. The machine has a C-axis indexing function and is equipped with a living tool turret, with a Y-axis, in addition to the function of a CNC lathe, it also has a certain milling function. This machine can process the geometric shape of complex, large size, high precision requirements of rotary parts, internal and external cylindrical surface, conical surface, stepped surface, spherical surface and other kinds of rotary surface, internal and external grooves, a variety of male and British internal and external threads. Power tools can mill axial and radial straight and spiral grooves, milling planes, drilling, reaming, tapping, etc. It is suitable for medium and small batch and single piece production, and can also be used for mass production of complex parts.

CNC410N Horizontal 4-axis Turning Center specifications

| Item | CNC410N |
|--------------------------|---------------------------|
| Working range | |
| Swing over bed | Φ410mm |
| Max turning diameter | Φ300mm |
| Max turning length | 300mm |
| Spindle bore diameter | Φ62mm |
| Travel of X/Z | 210mm/400mm |
| Drive | |
| Servo motor torque X&Z | 11Nm |
| Spindle | |
| Spindle power | 11/15KW |
| Spindle nose | A2-6 |
| Spindle speed | 30~5000rpm |
| Chuck | 8" hollow hydraulic |
| Speed | |
| Rapid traverse X | 30m/min |
| Rapid traverse Z | 30m/min |
| Feeding speed | 1~8000mm/min |
| Turret | |
| Tool capacity | 12 position Living Turret |
| Tool indexing time | 0.5sec/post |
| Turning tool size | 25x25mm |
| Max boring tool diameter | Φ40mm |
| Max speed of drive tools | 4000rpm |
| Max drilling | Φ14x0.15mm |
| Max threading | M10x1.5mm / M24x1mm |
| Max slotting | Φ16x12x40 mm |
| Others | |
| Power capacity | 25KVA |



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| | |
|---------------------------|------------------|
| Cutting liquid volume | 240L |
| Machine dimension (LxWxH) | 3855x1970x1955mm |
| Net weight | 3800kg |

CNC410N Horizontal 4-axis Turning Center equipment

| Item 01 | Descriptions | |
|---------|-------------------------------|--|
| 01.01 | FANUC 0i-TF PLUS 3B System | |
| 01.02 | 12-station living tool turret | |
| 01.03 | 8" hollow hydraulic chuck | |
| 01.04 | Solid hydraulic cylinder | |
| 01.05 | Automatic chip removal device | |
| 01.06 | Automatic lubrication system | |
| 01.07 | Hydraulic system | |
| 01.08 | Three-color light | |
| 01.09 | Cleaning air gun | |
| 01.10 | Lighting device | |
| 01.11 | Standard accessories | |
| 01.12 | Standard technical documents | |
| 01.13 | Basic installation kit | |

CNC410N Horizontal 4-axis Turning Center Optional

| Item 02 | Descriptions | |
|---------|-------------------------|--|
| 02.01 | Mose #4 servo tailstock | |

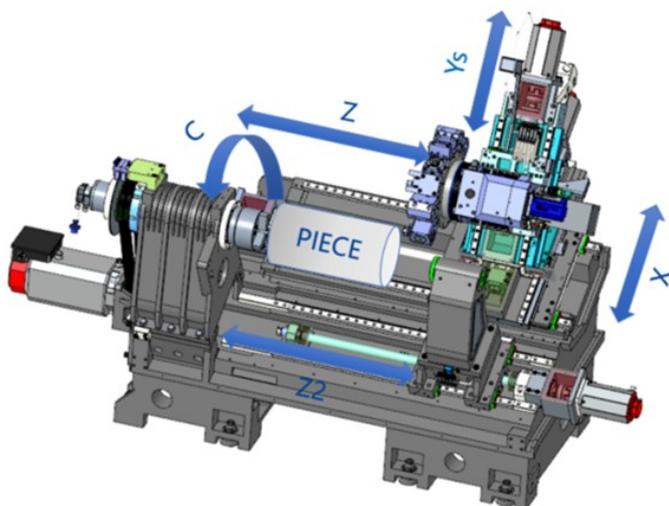
CNC410N Horizontal 4-axis Turning Center Main Construction

● Integral

The machine tool is a machine, electricity, liquid integrated layout, 30 ° overall oblique bed, with a compact structure, high rigidity, smooth chip removal, easy operation, etc.; rail type for the rolling guide, drive parts using high speed silent ball screw, with Fast speed, less heat, high positioning accuracy. The machine is totally enclosed and protected, automatic chip removal, automatic lubrication and automatic cooling.

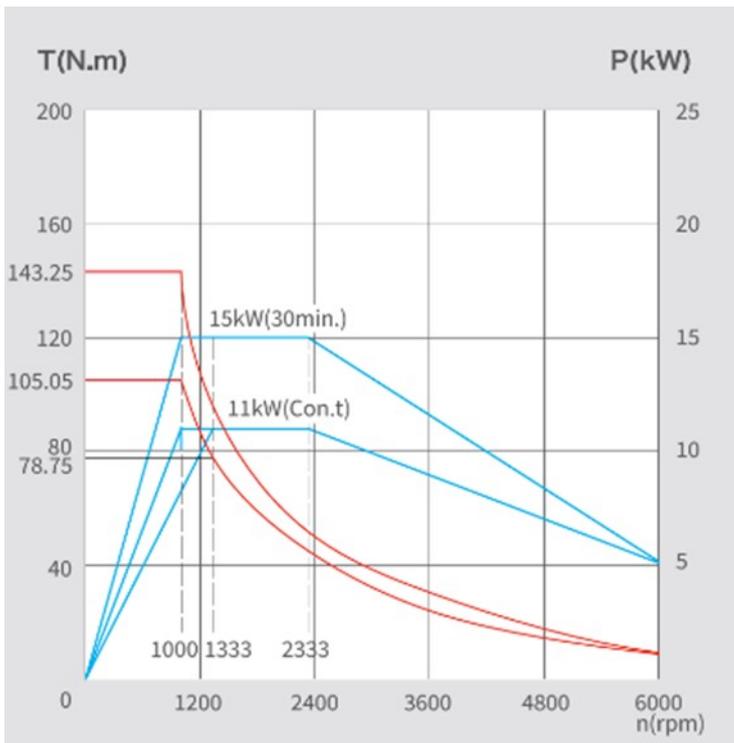
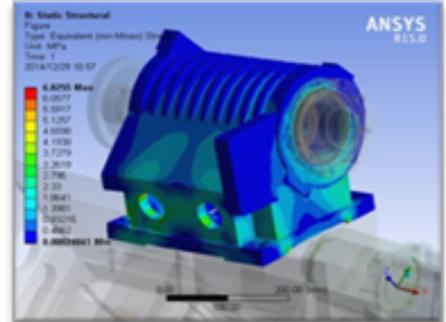
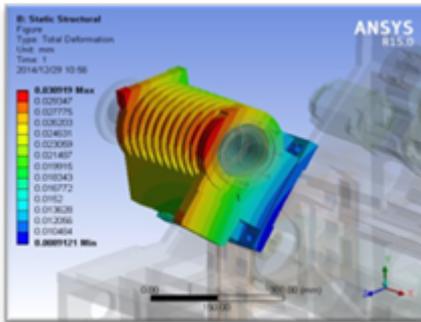
● Bed

The whole resin sand and gray cast iron bed, the casting structure by the finite element analysis and optimization, casting by the second aging treatment, with high rigidity and high stability; finishing high precision gantry machining center processing, high geometric accuracy ; Inclined bed layout, with high rigidity, compact structure, smooth chip, easy to operate the advantages of bed guide rail for the rolling guide, the friction coefficient is small, moving fast, high positioning accuracy.



● **Spindle**

Spindle motor with FANUC servo motor, belt speed drive; Spindle bearings imported high precision angular contact ball bearings, high speed, high precision rotation, low temperature rise. High-rigidity spindle components, the former support the use of 70 series angular contact ball bearings, carrying capacity, suitable for no caged frame support cantilever cutting; spindle components in the constant temperature environment assembly, and strict balance of the adjustment.



● **BMT55 turret**

Standard with YASUN BMT55 living turret, optional with GPM (SAUTER) living turret.

Living turret drive motor 2.7kW, 4.5kW motor is optional.

| Item | | Qty |
|-------------|---------------------------|------------|
| Tool holder | Radial live tool holder | 1 |
| | Axial live tool holder | 1 |
| | Boring tool holder | 3 |
| | OD tool holder | 4 |
| | Face tool holder | 1 |
| | Boring bar sleeve20,25,32 | 1 for each |

