

DMG MORI
NTX 2500 | 1500 2nd Generation**Basic Machine**

J-A01868* NTX 2500 | 1500
Integrated Mill Turn Center
Tool spindle : 12,000/ 20,000 min-1
Axis travel X/ Y/ Z/ B : 675 (-125~+550)/
300 (±150) / 1,562+164<for ATC> mm/
240°(±120°) [26.5 (-4.9~+21.6)/ 11.8
(±5.9)/ 61.4+6.4 <for ATC> in.]
Spindle 1 : 4,000 min-1
Bar work capacity : dia.80 [3.1]

Control

J-008071* Control F31iB5 with CELOS
J-003261* CELOS - ERGOline Touch
It is a machine operation panel with 21.5-
inch multi touch screen, which realizes
comfortable operability. It documents,
visualizes and centrally manages the order,
process and machine data, allowing the
networking with CAD/CAM and also the
function extension using applications. The
user-friendly, highly-productive MAPPS
system is installed.

Spindle

J-008478 Standard Spindle 1 turnMASTER
FANUC Spec.
Output : 18.5 / 18.5 / 15 (25%ED /50%ED
/cont) kW
Maximum spindle speed: 4,000 min-1
Maximum torque : 599 / 505 / 409 (25%ED /
50%ED / cont) N·m
Spindle through hole diameter: φ91mm Bar
work capacity: φ80 mm

3 years warranty for MASTER spindle.
*New quotation requests and products
ordered on and after January 2018 are
adaptable.

J-008610 Standard Spindle 2 turn MASTER
FANUC Spec.
Output : 18.5 / 18.5 / 15 (25%ED /50%ED /cont) kW
Maximum spindle speed: 4,000 min-1
Maximum torque : 599 / 505 / 409 (25%ED / 50%ED / cont) N·m
Spindle through hole diameter: ϕ 91mm Bar
work capacity: ϕ 80 mm

3 years warranty for MASTER spindle.
*New quotation requests and products
ordered on and after January 2018 are
adaptable.

Chuck for Main spindle

J-020603 (Spindle 1) KITAGAWA 12-inch Hollow
Chuck B-212A821H
Three-jaw hydraulic chuck manufactured by
Kitagawa Iron Works.
Chuck outer diameter: ϕ 304 mm (dia.11.97
inch.)
Through-hole diameter: ϕ 91 mm (dia.3.58
inch.)
Gripping diameter: Max. ϕ 304 mm
(dia.11.97 inch.), Min. ϕ 34 mm (dia.1.34
inch.)
Jaw stroke (diameter): 10.6 mm (0.42 inch.)
Plunger stroke: 23 mm (0.91 inch.)
Max. allowable pull force: 55 kN (12.36 klpf)
Max. static gripping force: 144 kN (32.37
klbf)
Dynamic gripping force at max. speed: 48
kN (10.79 klpf)
Max. allowable speed: 3,300 min-1
Mass: 64 kg (140.8 lb.)

J-020335 (Spindle 1) Hollow Cylinder Set for
KITAGAWA 12-inch Hollow Chuck B-
212A821H
Hollow cylinder Kitagawa SR1781 and
hollow draw pipe R75245 are included as a
set. Chuck is not included. Please see the
chuck-cylinder combination diagram for the
combination with chuck and the
specification.
Piston stroke: 25 mm (0.98 inch.)
Piston thrust: push side 53.5 kN (12.03
klbf), pull side 48.8 kN (10.97 klpf) (for B-
212)
Max. hydraulic pressure: 4 MPa (580 psi)
Max. allowable speed: 4,000 min-1
*When using B-212A821H

Chuck for Counter spindle

J-020609 (Spindle 2) KITAGAWA 12in. Hollow Chuck
B212A821H

J-020616 (Spindle 2) Hollow Cylinder set for 12 in.
chuck

Tool Spindle

J-008483 Standard tool spindle, 12,000 min-1, 23/
22.2 kW (FANUC)
compactMASTER
Maximum spindle speed: 12,000 min-1
Output : 23/ 22.2 (40%ED /cont) kW
Maximum torque : 116/ 89 (40%ED / cont)
N·m
3 years warranty for MASTER spindle.
*New quotation requests and products
ordered on and after January 2018 are
adaptable.

J-009067 HSK-A63

J-005482 Tool spindle full indexing specifications
(Standard)

Steady Rest

J-010988 Automatic centering steady rest SMW SLU-
X3.1Z (servo-driven) I/F
This is an I/F for automatic centering steady
rest body attachment. When cutting a long
workpiece, it prevents vibration and
deflection. The steady rest arm is
automatically opened and closed by
hydraulic pressure, and the open end is
checked by the proximity switch. The
steady rest is driven and held by the servo
motor that uses ball screws when
positioning. This specification includes
bracket, hydraulic pipe, electrical wire,
lubricating oil pipe, pneumatic pipe(air
purge) and coolant pump for roller of rest
arm.
*Automatic centering steady rest is not
included.

J-020732 Automatic centering steady rest SMW SLU-
X3.1 (dia. 20-165 mm, body only)

Tool Magazine

J-005493 Tool storage capacity 38 tools (Standard)

Coolant supply / Chip removal

J-G00428 Applicable Coolant Type: Water-Soluble
Coolant
If the oil-based coolant is used with the
water-soluble coolant specification, it may
cause poor accuracy or machine troubles.
It is necessary to select the oil-based
coolant specification for using the oil-based
coolant.

J-009045 Chip conveyor (right discharge, hinge type)
(/1500)

- J-004572 Air blow for chuck (spindle 2)
The air blow removes chips adhering to the chuck. This prevents loss of gripping accuracy caused by chips caught in the machine.
The air blow for the spindle (chuck) is controlled by M codes in the program. It can also be turned on and off with the air blow button on the flat panel.
※ The spindle can be jogged during air blow (using the parameter settings).

Measuring / Monitoring

- J-017111 Manual in-machine tool presetter (removable type) (STD)

Automation

- J-004166 Signal Light 4 Colors (Red, Yellow, Green, Blue)
The machine status is indicated by the LED color. It is mounted at top front of machine so that it is visible from a distance. The power-saving, maintenance-free LEDs with a viewing angle of 360 degree is adopted. The color specification can be selected from the following two types:
<Type 1 (Standard)>
- Red: Various alarms
- Yellow: The cycle start prohibited
- Green: Automatic mode operation
- Blue: During Operation mode 2/3 being selected
<Type 2>
- Red: Various alarms
- Yellow: Program end (M02/M30)
- Green: Automatic mode operation
*Buzzer function is not included. Please select the "Signal Light Buzzer" specification separately.

General Options

- J-015964 Cable for Transformer (Cable Only), 55 kVA
The cable (for 55 kVA) for connecting the transformer provided at the machine primary side to the machine.
*The transformer is not included.
- J-004471 Setting Unit, MM
The unit to be used for the screen display and program commands is set to "millimeter (mm)".
Turning: "MM" specification for the turret
Horizontal machining center: "MM" specification for the tapped pallet

Technology Cycle

- J-007828 Eccentric Machining
It allows the eccentric machining on the turning center without using the special chuck or macro programs. The macro programs for the eccentric machining can be created by following the guidance.
*The X- and Y-axes synchronize with each other according to the workpiece rotation amount. This results in a shift (eccentricity) of the rotation center. Limitation in the eccentricity are determined depending on workpiece geometry and machine stroke, etc..
*"High-accuracy control (G08)" is included in this specification. (NLX Series)
*When machining for a long time, there is a concern that the life of the feed shaft may be affected. In that case, it is necessary to take measures such as limiting the feed rate and monitoring the temperature of ball nut, and so please contact DMG MORI.

Options for Control

- J-G00618 X-Axis Direction, JIS/ISO-Compliant

The X-axis movement direction is compliant with the JIS/ISO standard.

Screen Text Language

- J-000080 Screen display English
Language on MAPPS Screen: English
Language on MAPPS Warning Screen: English
Language on NC Screen: English
Language on PC Screen: English

