QUOTE NO.: NWCNC24 MACHINE MODEL: NL16030S

NEWAY

NEWAY MACHINE QUOTE



NL16030S

CNC Heavy Duty Cutting Horizontal Lathe



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NL16030S is a large CNC horizontal flatbed lathe. The main machine body adopts one whole piece horizontal flatbed structure, smoothly chip discharge, easy operation and pleasant appearance. As the analysis optimization of structural by using the finite element simulation software, the machine has excellent dynamic rigidity and excellent precision retention. The machine tool is suitable for medium, small batch and single piece production, and can also be used for mass production of complex parts. And it is energy-saving, environmental protection, environmentally friendly, and has passed the European CE certification.



SPECIFICATIONS:

- **CAPACITY**

Max swing over bed	1600mm
Max swing over saddle	1300mm
Max cutting diameter	1600mm
Max cutting length	3000mm

- **Travel**

X Axis	850mm
Z Axis	3000mm

- **MOTION:**

X axis rapid traverse rate	6m/min
Z axis rapid traverse rate	6 m/min
Positioning accuracy (X /Z)	0.01/0.03mm
Repeatability (X/Z)	0.007/0.027mm

- **SPINDLE HEADSTOCK**

Spindle speed	3.5-450r/min
Spindle type	160 metric
Taper of spindle center sleeve	100 metric
Spindle bore	130mm
Spindle center to bed	910mm
Spindle motor power	55kW continuous
Manual 4 Jaws chuck	1400mm

- **Turret :**

Type	electrical
Position	4
Tool size	40*40mm

- **Tailstock**

Drive type	electrical
Quill diameter	320mm
Quill Travel	250mm
Taper	100 metric

- **GENERAL**

Machine gross weight	35000kg
Floor space (L x W X H)	12200×5170×3300mm

STANDARD CONFIGURATION

- SIEMENS 828D CNC controller
- Rear auto chip conveyor
- 4 guideways support structure
- X/Z axis linear scales
- 4 station electrical turret
- 1400mm manual 4 jaw chuck
- Electrical tailstock
- Automatic lubricating system
- Air cooling and Air Gun cleaner
- Work light and 3 color tower signal light
- Program and data protection key
- Lifting eye bolts
- Installation parts
- Spare parts (fuses& etc.)
- Assembly & operation tools
- Instruction manual, parts list, and electrical drawings
- Siemens operator and maintenance manuals

PRICE FOR MACHINE AS DESCRIBED ABOVE

Model Number	Standard Price	Option price	QT.	Total price
NL16060S	CNY 2,187,600	Check below list	1	CNY 2,187,600

Commercial term	EXW, Suzhou
Payment term	30% as down payment, balance be paid before shipment
Delivery time	150 days
Machine Setup	The machine requires an on-site assembling.
Warranty	(1) year service parts after shipment date

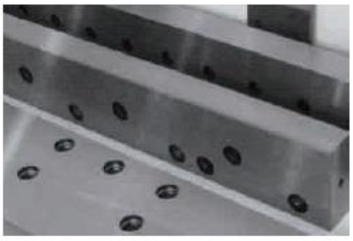
OPTIONAL ACCESSORIES:

Optional items	Price	Note
SIEMENS 828D 15inches touch screen	CNY 11,200	
SIEMENS 828D locked function	CNY 2,100	For 15inches screen
SIEMENS 828D 260 with 10” screen	CNY 17,500	
SIEMENS 828D 280 with 10” screen	CNY 21,000	
Fanuc (1)	CNY 97,500	
Shop turn	CNY 3,500	
CE standard	CNY 1,400	
Electric switch for door	CNY 1,400	
Coolant tank coolant level sensor	CNY 3,010	
CNC controller book manuals	CNY 700	
Water gun	CNY 1,400	
Bigger coolant pump, 1MPa	CNY 700	
Automatic belt-type conveyor	CNY 17,000	

- **MACHINE BED**

This bed is equipped with four pairs of steel guide ways and other technologies. These include strategic design of the bed section and rib structure through finite element analysis and computer optimization of the structure. Through implementation of standardized design Neway fundamentally. Solved traditional CNC heavy duty horizontal lathe bed problems such as lack of rigidity and vibration dampening. This greatly improved the work piece. Processing accuracy and ease of processing. Additionally, with high load bearings and reduced operator labor requirements, they improved production efficiency and extend the life of their machines.



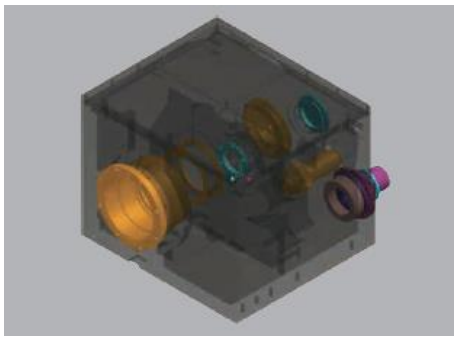


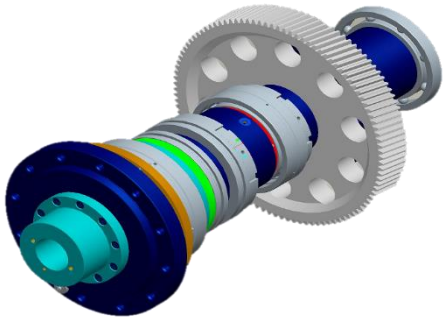
Four-Way Steel Structure Bed Design

- **SPINDLE HEAD STOCK**

(2-speed transmission, maximum speed 450 rpm) The gears are made on a precision gear grinding machine with low noise and reliable performance; The cooling system in the spindle box has a powerful lubrication system with an oil chiller to control the oil temperature. it keeps that the oil temperature always within the set range, and reducing the thermal deformation caused by heat and maintaining accuracy.





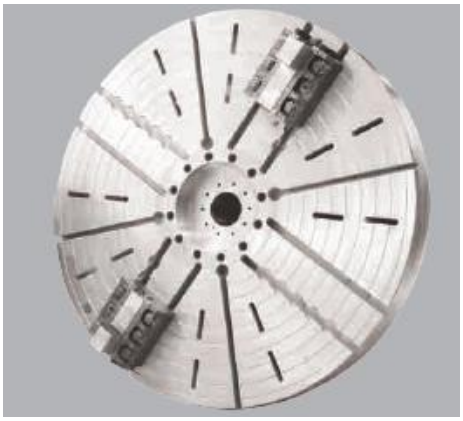


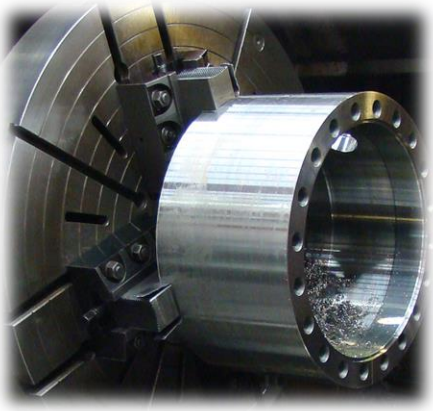
- **CHUCK**

Neway chuck structure has obtained the patent（patent number：ZL201110123384.2）

Standard：Manual four-jaw single-action heavy duty chuck modular design Φ1250、Φ1400、Φ1600

Options：The built-in jaw mechanical booster screw chuck has a large clamping diameter and a heavy load capacity with High clamping force, Reliable clamping, high efficiency and simple operation.





- **TAILSTOCK**

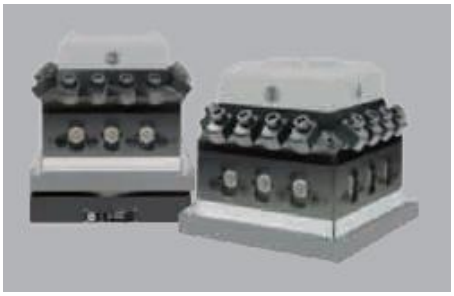
Neway box structure is driven by motor rack and pinion to drive the overall movement of the tailstock, which allows for automatic clamping and relaxation; Neway tailstock is equipped with a digital center-pressure display. The operator can precisely adjust the center pressure according to the displayed value.





- **4T ELECTRICAL TURRET**

Highly-Rigid Dovetail cutter structure for heavy duty cutting, depth of cut 25 mm. With the modular design, users can make configuration choices according to their requirements(OPTIONS)



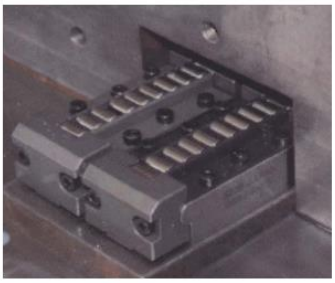




- **SADDLE**

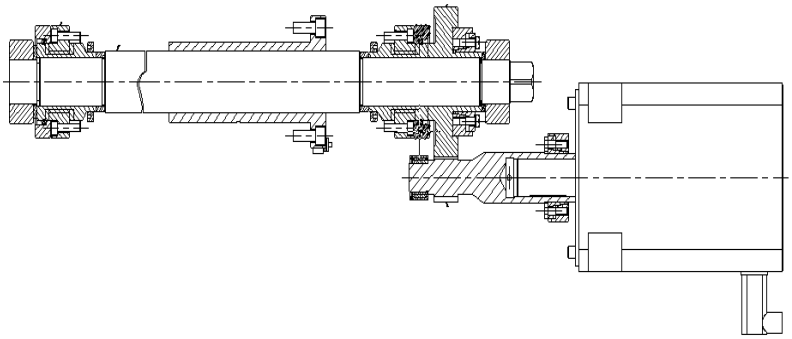
Plastic guide rail + rolling - composite guide rail, improve the damping of guide rail, reduce friction, improve the accuracy and stiffness of motion

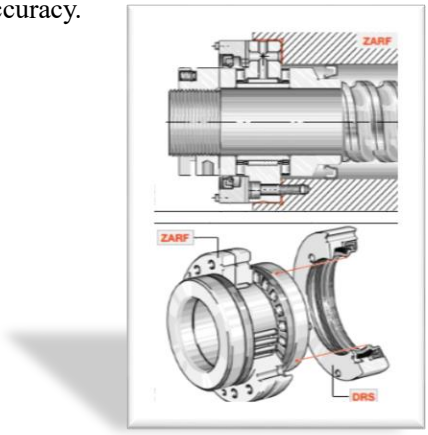




- **X AIXS DRIVE**

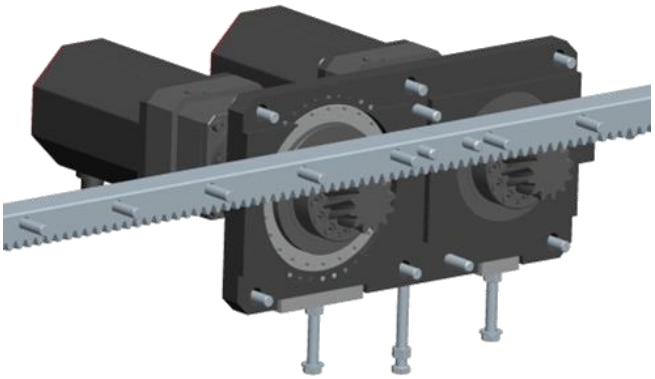
INA high precision combination bearing, high precision C3 ball screw, equipped with ±5 m high precision linear scales, X axis with high positioning accuracy and repeated positioning accuracy.

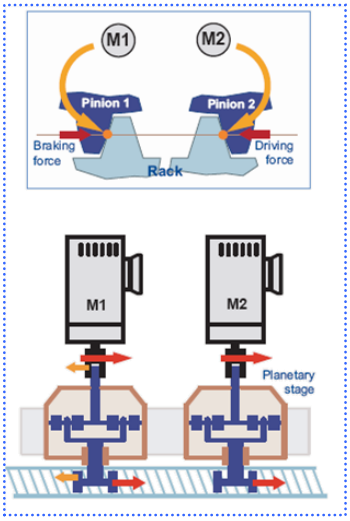




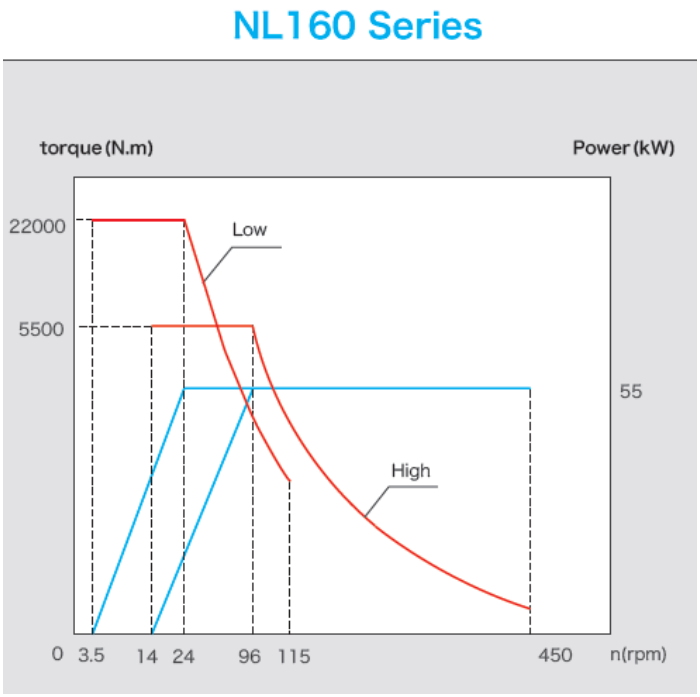
- **Z AIXS DRIVE**

Double servo motor driving double pinion - rack clearance structure, and equipped with ±5 m high precision linear scales, ensure Z axis high positioning accuracy and repeated positioning accuracy

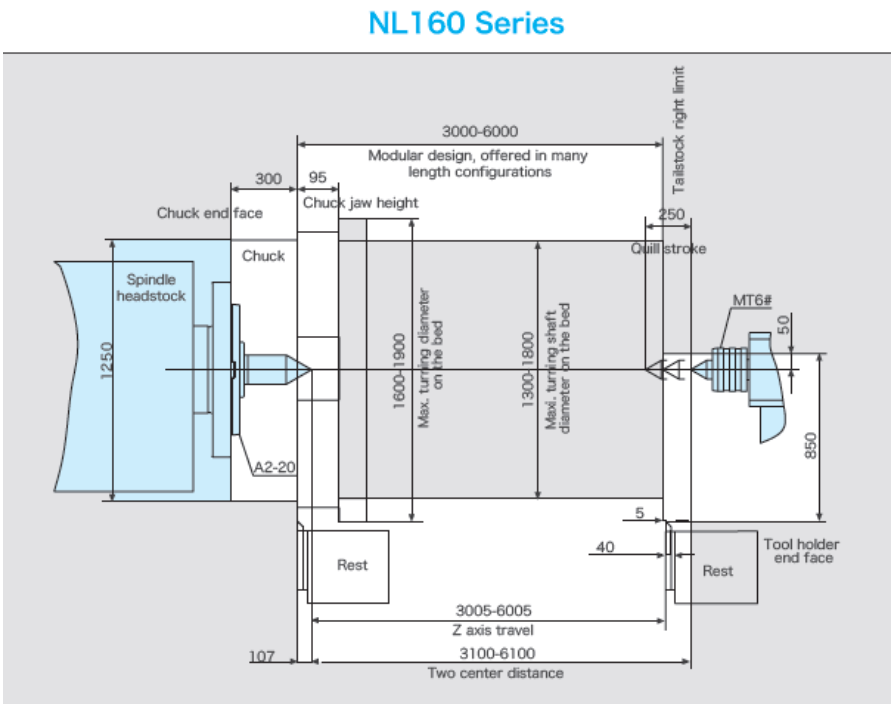




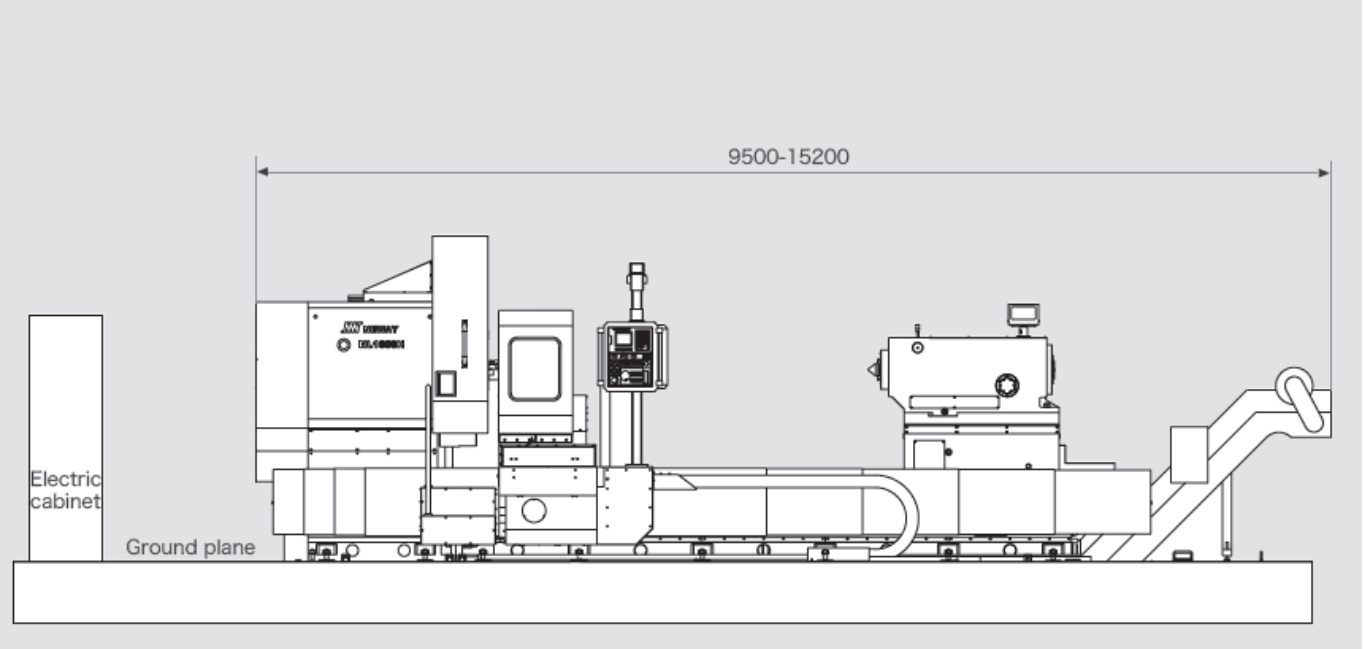
- **SPINDLE POWER TORQUE DIAGRAM & WORK AREA DIAGRAM**

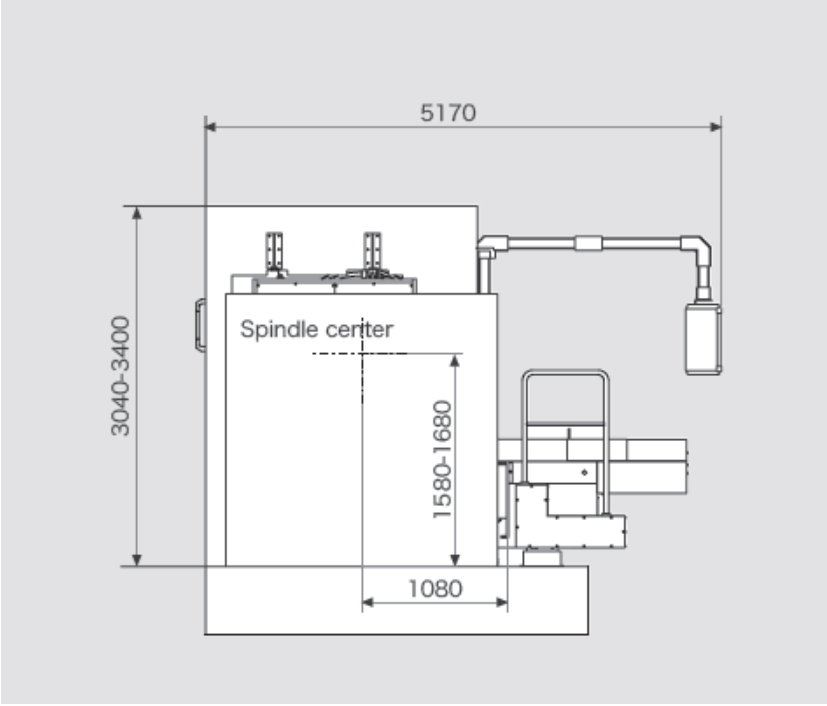


- **WORK AREA DIAGRAM**

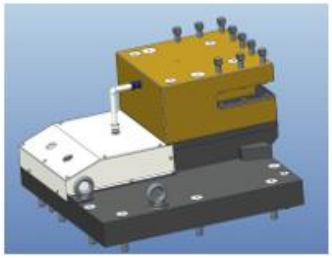
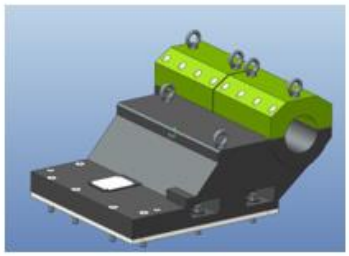


- **LAYOUT**

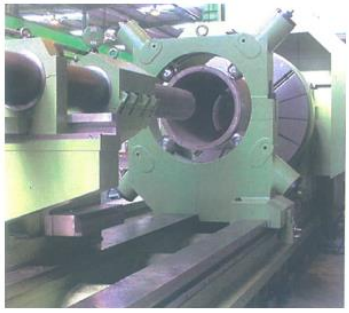
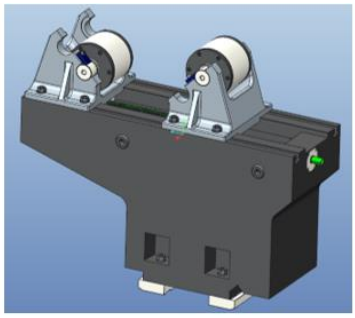

9500-15200
Electric cabinet
Ground plane


5170
3040-3400
Spindle center
1580-1680
1080

- **TYPICAL OPTIONS:** Fixed tool holder and boring bar support

Steady rest

- **TYPICAL APPLICATION:**



NOTE:

- Price and specifications are subject to change without prior notice.
- Pictures and graphics are representative and may not be from the actual machine
- All specified values age given at standard electric power conditions (380v/50Hz).
- Machine dimension and weight are changed according to optional specification.
- Please refer to lay-out and foundation drawing in relation to installation.

●All specified values of pressure, flow rate of coolant, lubrication and hydraulic pump are given at pump outlet.

- Refer to the separated spec.sheets in relation to specification, function and option on controller.

●Available environment temperature: 10 ℃ to 40 ℃; best environment temperature 15 ℃ to 25 ℃, temperature shall not exceed ± 2 ℃ / 24 h. When the environment temperature is 20 ℃, humidity should be 40 ~ 75%.

●Coolant recommendation: water-soluble cutting fluid or oily cutting fluid is suitable for the cooling system. Note: the used cutting fluid cannot be dumped at will. It should be disposed to avoid environmental pollution.

●Read the mechanical and electric operation manual, and follow all the safety instructions before using the machine.

- One year control and spare part warranty for standard machine.

●Turn-key is available for all the inquires. Please inquire Neway application department for the turn-key proposal if needed

- For more details, please refer to the machine manual

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