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* The content of the catalogue is subject to change without notice.

NEWAY

Horizontal CNC Lathe

NLS/H/T/HW

Cat.No.: E-NLS/H/T-2013-1

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1–16 NLS series CNC lathe
17–30 NLH series CNC lathe
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40 Flexible manufacturing system

NLS series lathe

NLS series lathe is general CNC lathe, mainly in charge of the semi–finishing and final machining for all kinds of axial type and discal type workpieces. The inner and outer cylinder,cone end face,slot cutting chamfering,thread,boring,reaming and diversified solid of revolution all can be machined. It is especilly suitable for mechanical machining in the area of war industry,auto tractor,autobike,electron,aviation,spaceflight and so on.

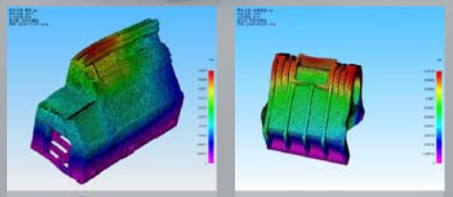
Integration design for mechanical, electrical and hydraulic system , with SFC servo motor for spindle as standard configuration,small area cover , compact structure, nice appearance.

MACHINE MODLE:

NL362S	NL634S(SZ)
NL502SA	NL635S(SZ)
NL504SA	

NL36 series

Neway NL36 series machine with integrated 45° slant bed
Smooth chip removal, linear guide way for X/Z axis
Fast travel speed, high precision.



Neway uses the finite element analysis (FEA) for thermal deformation compensation design so as to achieve maximum rigidity design.

STANDARD CONFIGURATION:
8 INCHES HOLLOW CHUCK

Spindle speed **3500RPM**

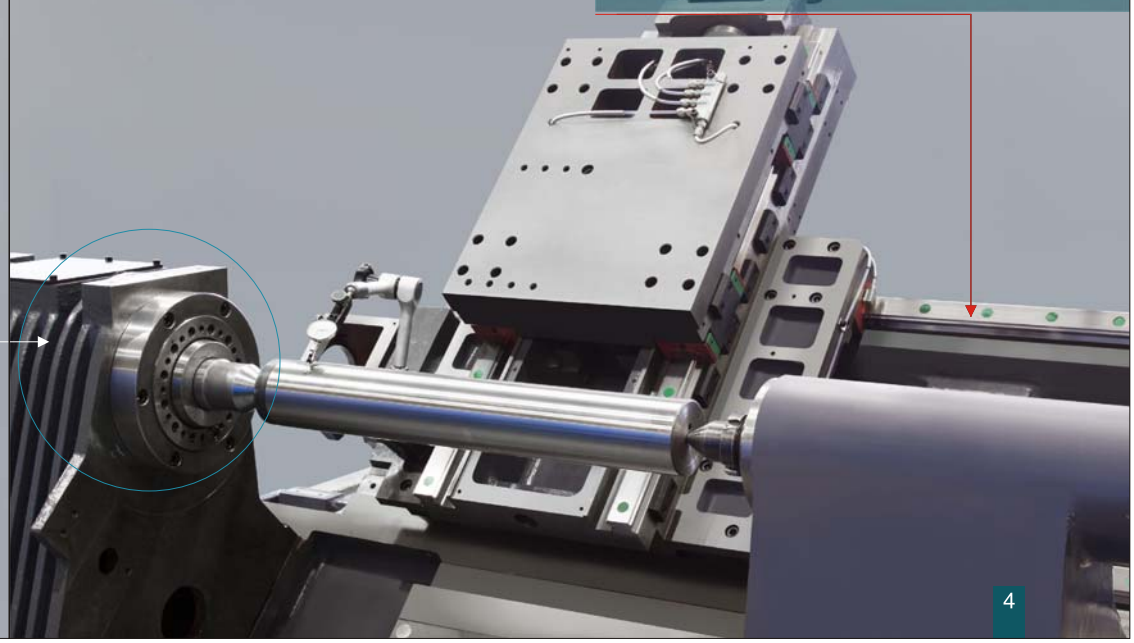
Rated torque **115.2Nm**

TRAVERSE SPEED

24m/min

STANDARD CONFIGURATION:
PMI rolling guideway

Imported ball type rolling guideway, large bearing capacity, high precision, eliminate machine low velocity crawling, suitable for heavy cutting. with 4 lines of ball column design enhance rigidity of four stress direction.

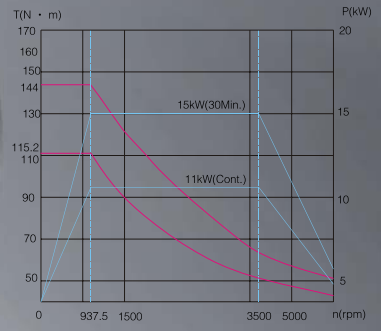


Neway independent research and development manufacturing spindle

Independent production high-speed spindle unit

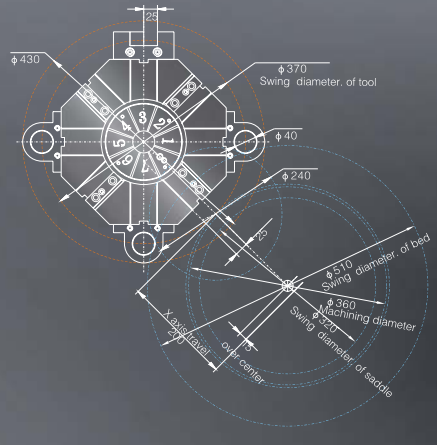
With the least temperature rise ,the least thermal deformation ,and high machining accuracy

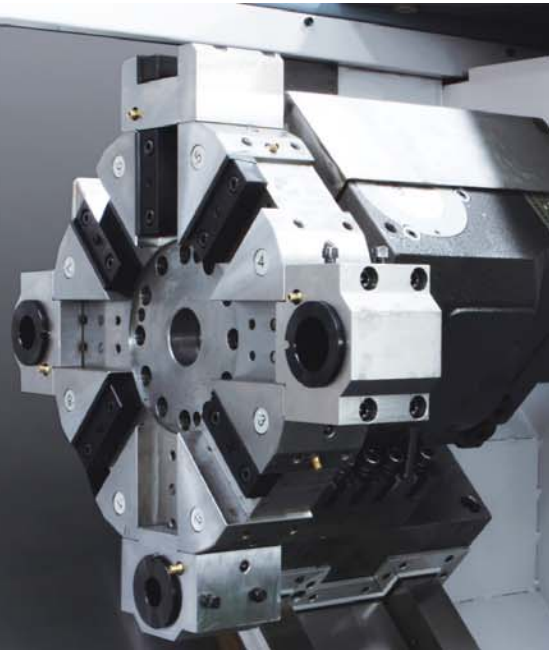
SPINDLE POWER / TORQUE DIAGRAM



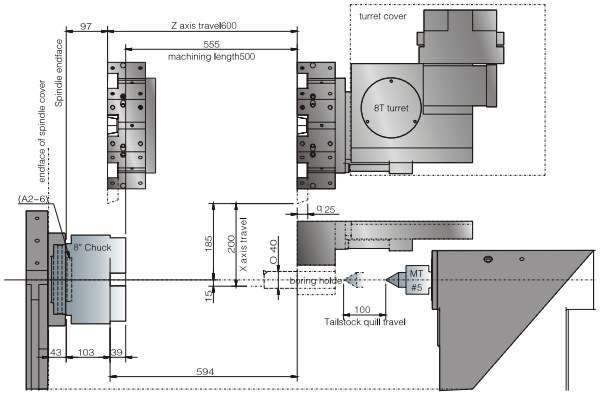
Standard configuration: 8 stations hydraulic turret

TOOL INTERFERENCE

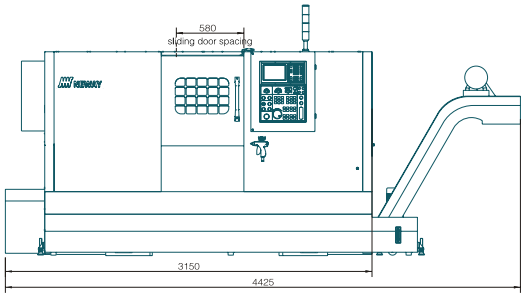


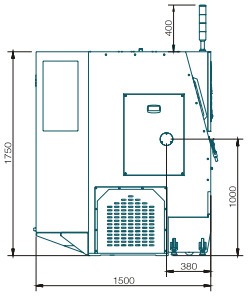


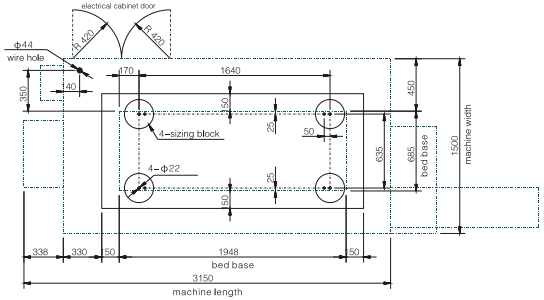
WORK AREA



INSTALLATION DIMENSION





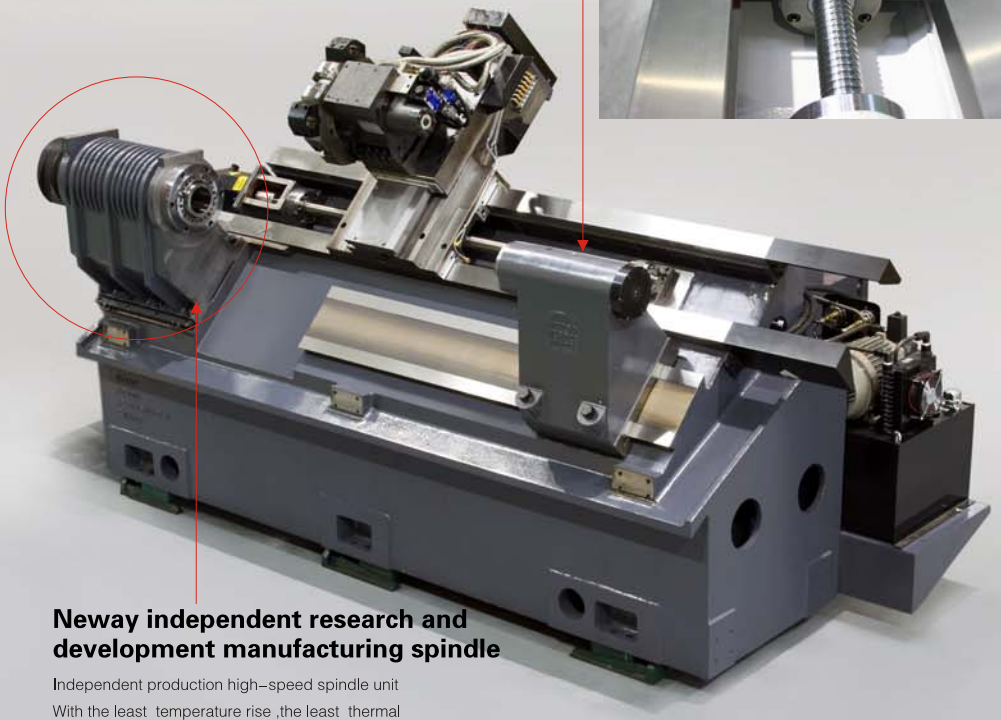


NL50 series

NL50 series integral 45° slant bed compared with the traditional fission structure, has reduced the area of the fixed contact surface, the contact deformation, and improved the rigidity.

RECTANGULAR GUIDEWAYS

Rectangular plastic–iron guideways for X/Z axis with good rigidity, is scraped by the experienced workers, through strict quality inspection , to be high precision machine tool.

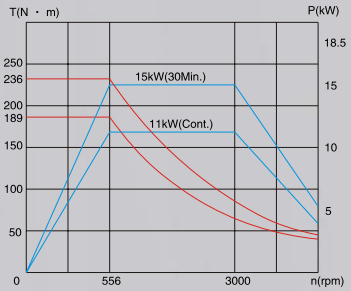


Neway independent research and development manufacturing spindle

Independent production high–speed spindle unit

With the least temperature rise ,the least thermal deformation ,and high machining accuracy

SPINDLE POWER / TORQUE DIAGRAM



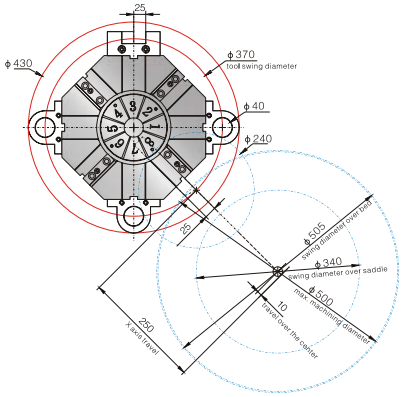
NL502SA/NL504SA

With the help of computer simulation and finite element analysis, optimization design, spindle box has a perfect thermal inhibition function , high rigidity and high reliability of the structure.

Standard configuration: tailstcok with live center, hydraulic drive, convenient operation, with dovetail guide, moved by bed carriage travel , high precision guide,easily moved.

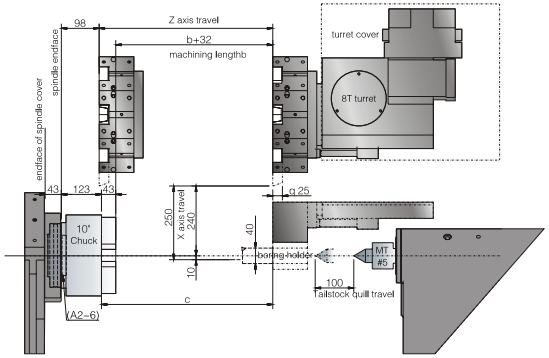
Standard configuration : 8 stations hydraulic turret, with high rotary positioning accuracy , fast tool change speed, processing automation, high efficiency. options: electrical turret or servo turret.

TOOL INTERFERENCE



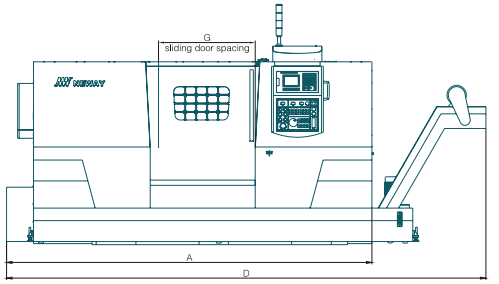
spindle center

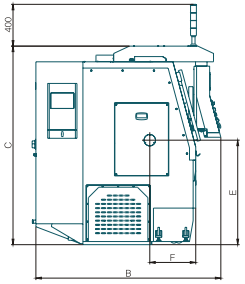
WORK AREA



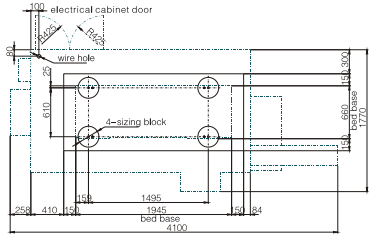
Model	a	b	c
NL502SA	600	500	575
NL504SA	1100	1000	1075

INSTALLATION DIMENSION

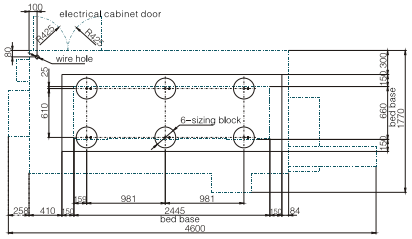




Model	A	B	C	D	E	F	G
NL502SA	3000	1770	1900	4100	1000	440	610
NL504SA	3500	1770	1900	4600	1000	440	925



NL502SA



NL504SA

NL63S series

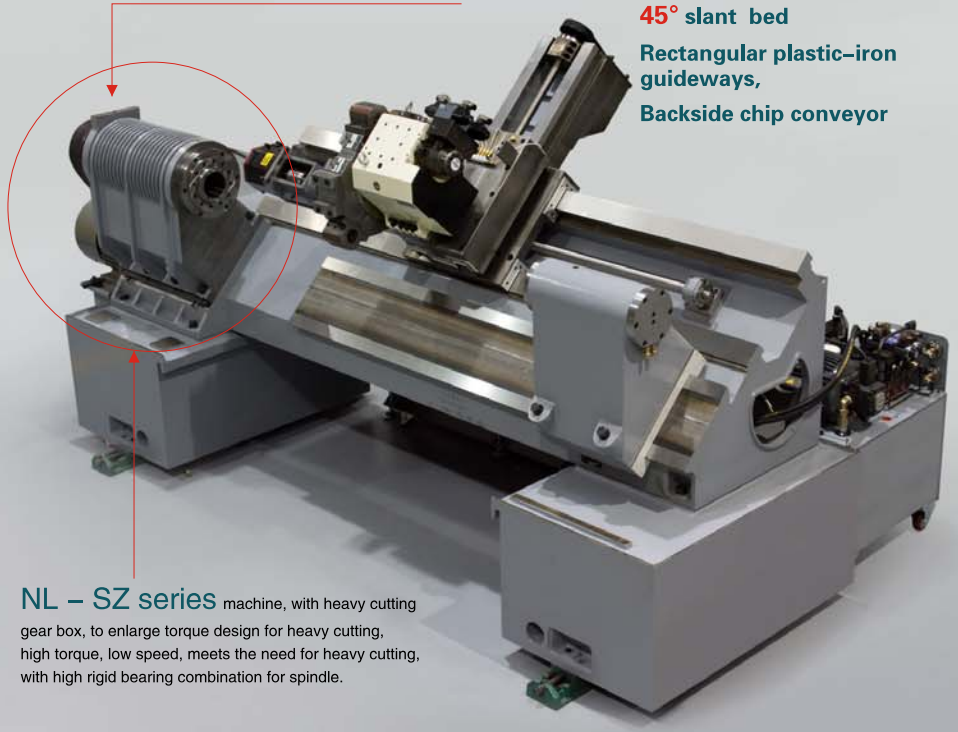
NL63S (SZ) series with 45° slant bed, Rectangular plastic–iron guideways, good dynamic characteristics, backside chip conveyor, convenient to clean.

NL – S series, with belt type spindle box, high rigid design, in combination with high performance SFC servo motor, fully meet the request of large diameter part cutting, strong

45° slant bed

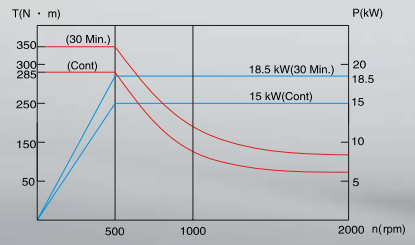
Rectangular plastic–iron guideways,

Backside chip conveyor

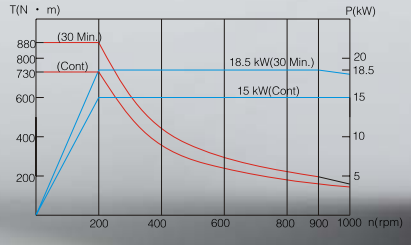


NL – SZ series machine, with heavy cutting gear box, to enlarge torque design for heavy cutting, high torque, low speed, meets the need for heavy cutting, with high rigid bearing combination for spindle.

SPINDLE POWER/TORQUE CURVE DIAGRAM

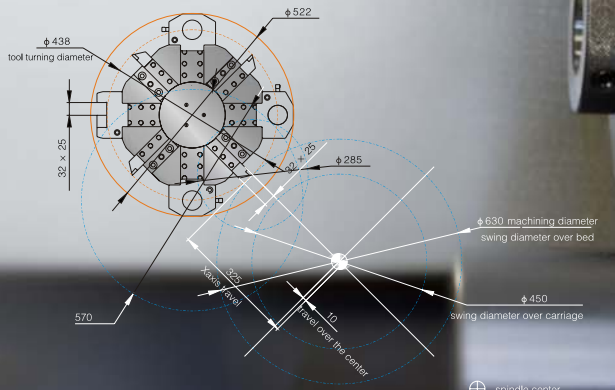


NL634S/NL635S

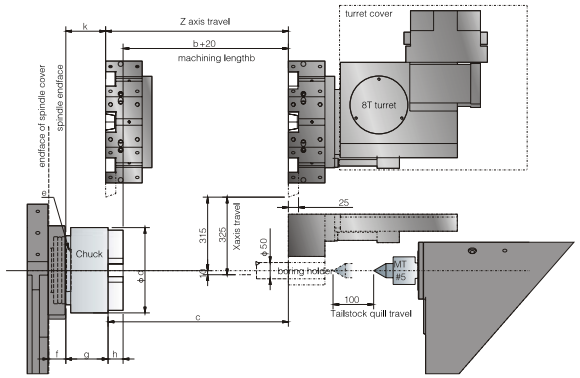


NL634SZ/NL635SZ

TURRET INTERFERENCE



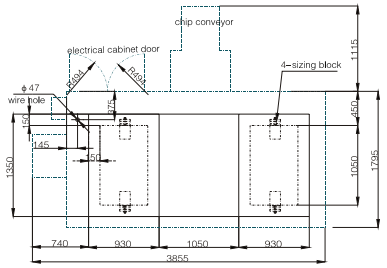
WORK AREA



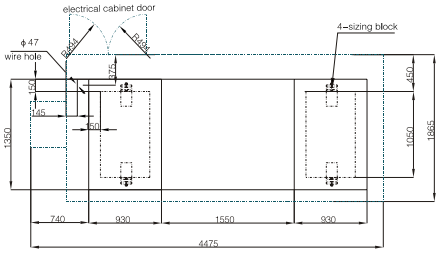
Model	a	b	c	d	e	f	g	h	k
NL634S	1100	1000	1074	304	A2-8	40	118	54	92
NL635S	1600	1500	1574	304	A2-8	40	118	54	92
NL634SZ	1100	960	1048	381	A2-11	54	130	68	78
NL635SZ	1600	1460	1548	381	A2-11	54	130	68	78

NL634S(Z)/NL635S(Z)

FOUNDATION DIMENSION

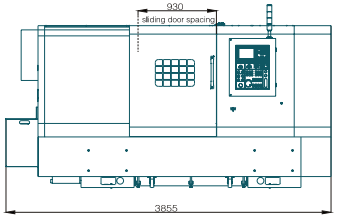


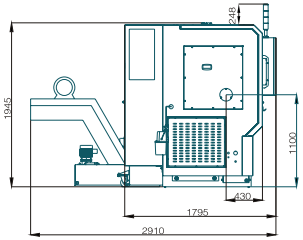
NL634S (Z)



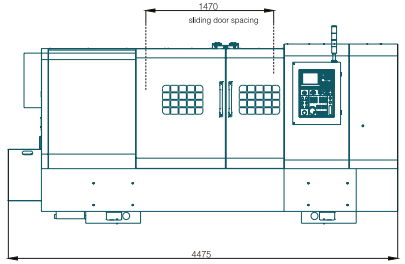
NL635S (Z)

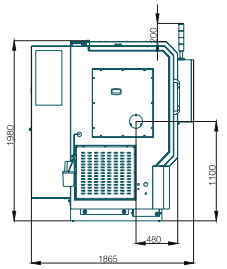
OVERALL DIMENSION





NL634S (Z)





NL635S (Z)

TECHNICAL PARAMETERS

item			unit	NL362S	NL502SA	NL504SA	NL634S	NL634SZ	NL635S	NL635SZ
processing capability	max swing diameter on bed		mm	Φ510	Φ505	Φ505	Φ630	Φ630	Φ630	Φ630
	max swing diameter on saddle		mm	Φ320	Φ340	Φ340	Φ450	Φ450	Φ450	Φ450
	max cutting diameter		mm	Φ360	Φ500	Φ500	Φ630	Φ630	Φ630	Φ630
	max cutting length		mm	500	500	1000	1000	960	1500	1460
	Max.Dia of workpiece through spindle hole		mm	Φ50	Φ50	Φ50	Φ70	Φ90	Φ70	Φ90
spindle	max spindle speed		rpm	3500	3000	3000	2000	1000	2000	1000
	spindle nose		ISO	A2-6	A2-6	A2-6	A2-8	A2-11	A2-8	A2-11
	spindle bore diameter		mm	Φ65	Φ65	Φ65	Φ87	Φ106	Φ87	Φ106
	spindle taper		-	metric system 80	metric system 80	metric system 80	metric system 100	metric system 120	metric system 100	metric system 120
	spindle transmission ratio		-	1:1.6	1:1.8	1:1.8	1:2	1:5	1:2	1:5
	spindle center to ground		mm	1000	1000	1000	1100	1100	1100	1100
hydraulic tailstock	tailstock sleeve dia		mm	Φ100	Φ100	Φ100	Φ130	Φ130	Φ130	Φ130
	tailstock sleevetravel		mm	100	100	100	100	100	100	100
	center		Morse	live center5#	live center5#	live center5#	5#	5#	5#	5#
X&Z axis	travel X/Z		mm	200/600	250/600	250/1100	325/1100	325/1100	325/1600	325/1600
	traverse X/Z		m/min	24(linear guideway)	8/12	8/12	8/12	8/12	8/12	8/12
	X axis screw dia/lead		mm	Φ32/8	Φ32/6	Φ32/6	Φ32/8	Φ32/8	Φ32/8	Φ32/8
	Z axis screw dia/lead		mm	Φ40/8	Φ40/8	Φ40/8	Φ40/10	Φ40/10	Φ40/10	Φ40/10
hydraulic tailstock	tools			8	8	8	8	8	8	8
	tool shank		mm	25×25	25×25	25×25	32×25	32×25	32×25	32×25
	max boring tool shank dia		mm	Φ40	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50
machine accuracy	positioning	X	mm	0.008	0.012	0.012	0.012	0.012	0.012	0.012
		Z	mm	0.008	0.014	0.016	0.016	0.016	0.018	0.018
	repeatability	X	mm	0.004	0.006	0.006	0.006	0.006	0.006	0.006
		Z	mm	0.004	0.007	0.008	0.008	0.008	0.009	0.009
overall dimension (L * W * H)			mm	3148x1500x1770	3000x1770x1900	3500X1770X1900	3855x1795x1945	3855x1795x1945	4475x1865x1980	4475x1865x1980
total capacity			kVA	20	20	20	25	25	25	25
weight			kg	4000	4000	4500	7500	7600	8000	8100
CNC system				FANUC 0i mate-TD[SIEMENS 828D]						
power			kW	15/18.5	15/18.5	15/18.5	18.5/22	18.5/22	18.5/22	18.5/22
servo motor torqueX/Z			N・m	7/7	7/11	7/11	11/20	11/20	11/20	11/20
hydraulic chuck			inch	hollow8" [solid8"/solid(hollow)10"]	solid10"[solid(hollow)8" /hollow10"/solid(hollow)12"]	solid10"[solid(hollow)8"/ hollow10"/solid(hollow)12"]	solid12" [hollow12"]	solid15" [hollow15"]	solid12" [hollow12"]	solid15" [hollow15"]
hydraulic steady rest			mm	120	120	120	160	160	160	160
chip conveyor				Automatic right conveyor [automatic back/ left conveyor]	Automatic right conveyor [automatic back/ left conveyor]	Automatic right conveyor	Automatic back conveyor	Automatic back conveyor	manual back conveyor	manual back conveyor
Lighting device, automatic chip conveyor, cooling system, automatic lubrication system, fully enclosed protection, blowing device, the electric cabinet air conditioner, tricolour light										

with standard chuck [ ] option

with option chuck * optional 10 station turret , corresponding parameters

NLH series CNC lathe

NLH series , full functional lathe, with better configuration , servo motor for spindle, good system performance, good controllability, high precision for spindle inversion.

FULL FUNCTIONAL LATHE MODLE:

NL201H(HC/HG)	NL402H
NL251H	NL503H
NL253H	NL635HA
NL322H	NL805H
NL324H	

NLH series

Specially high performance CNC lathe

High quality resin sand casting, 45° integral slant bed , high rigidity;

import founction parts, high reliability, high precision, with good stability;

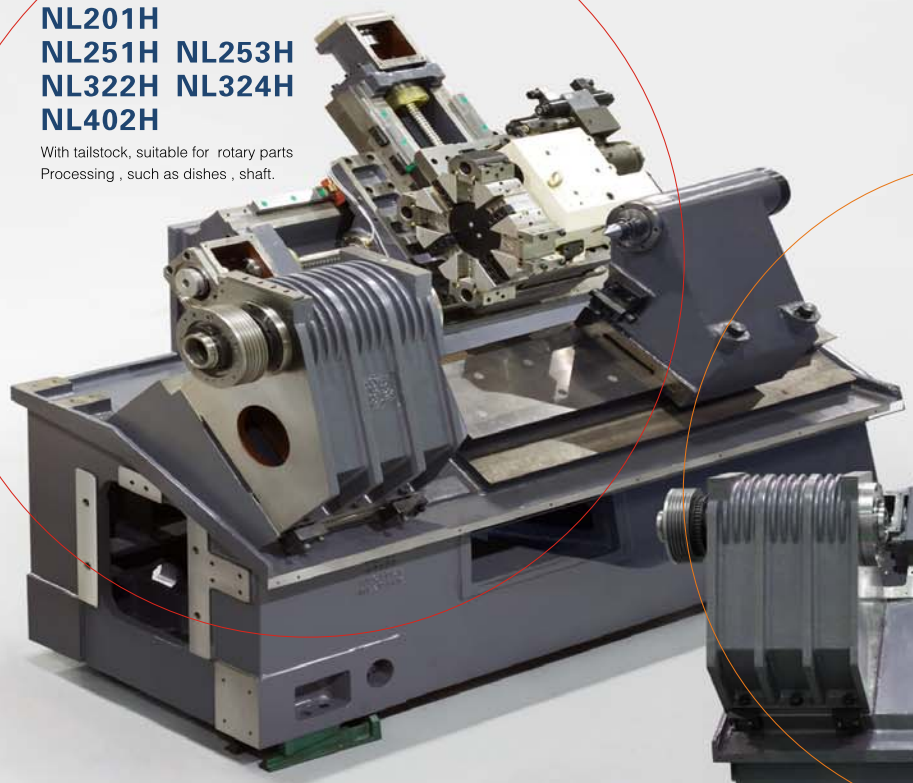
FANUC ac servo motor, high speed and efficient processing, dynamic accuracy stability performance;

Constant temperature assembly, strict quality control, more than 300 process for testing and experiment to guarantee high quality.

More kinds of option Configuration to meet customer demand: tailstock, linear tool, hollow cylinder, servo turret, bar feeder, part catcher, FMS joined through the robots or truss manipulator to finish product automatic processing.

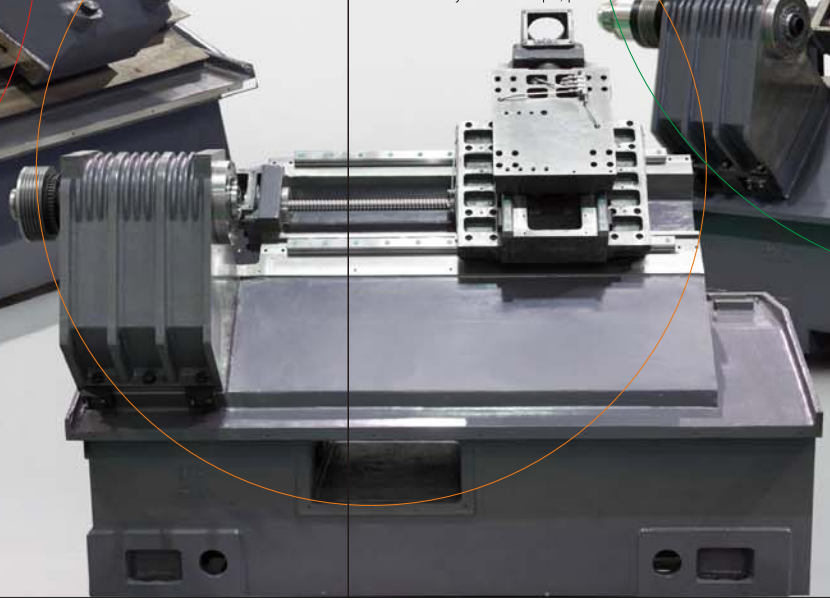
NL201H
NL251H NL253H
NL322H NL324H
NL402H

With tailstock, suitable for rotary parts Processing , such as dishes , shaft.



NL201HC

Without tailstock, suitable for processing circular and cylindrical shape, parts.



NL201HG

CNC linear tool lathe, satisfy the processing of small parts, short program , no need frequent tool change, batch production, economical and practical, low failure rate.

Main features:

X axis **300 mm**

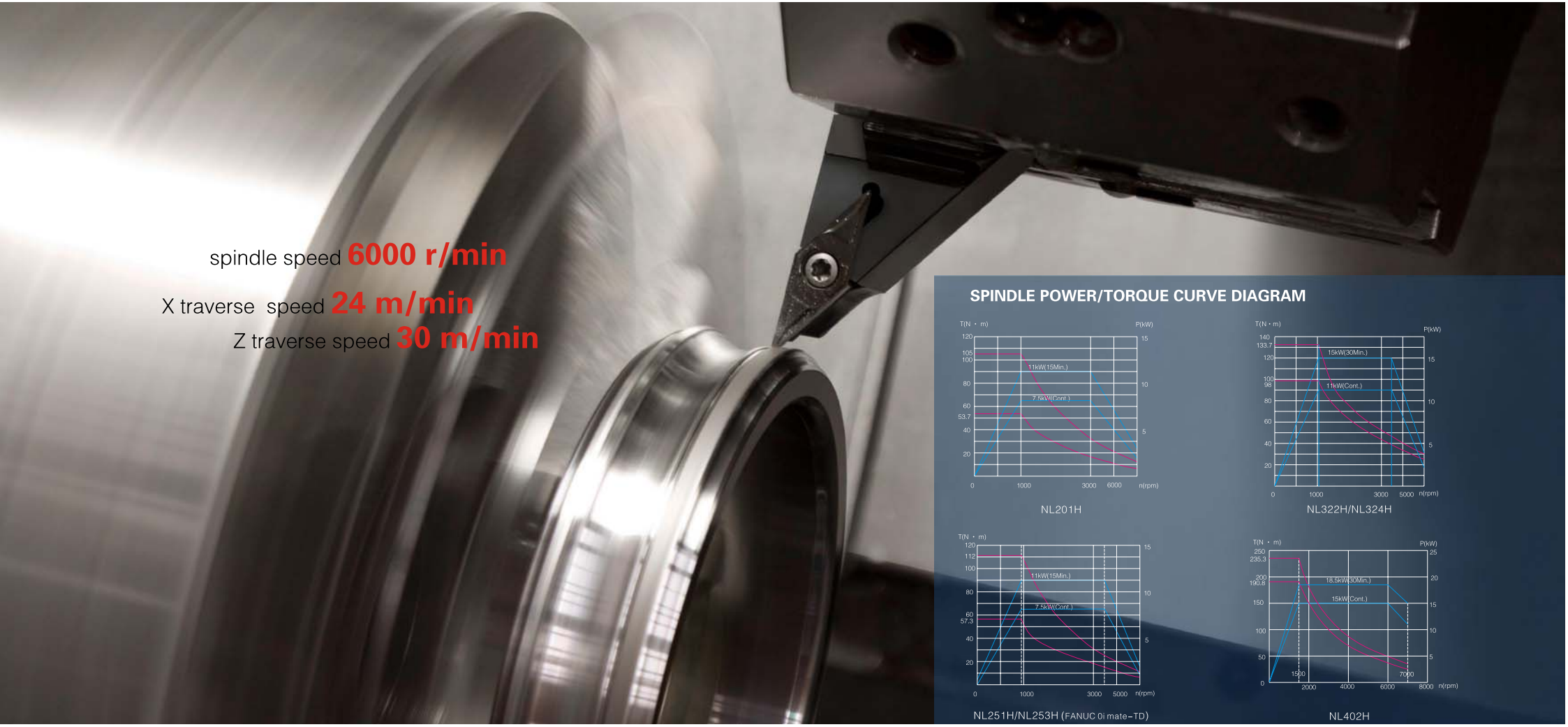
Linear tool holder instead of turret, install suited tool holder according to the customer need

Standard configuration: 3 tool holder

Facing tool holder 20*20mm

Cylindrical tool holder 20*20mm

Boring tool holder dia. 20 mm



spindle speed **6000 r/min**

X traverse speed **24 m/min**

Z traverse speed **30 m/min**

SPINDLE POWER/TORQUE CURVE DIAGRAM

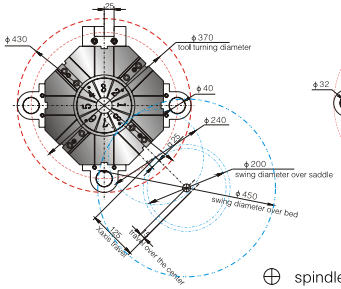
NL201H

NL322H/NL324H

NL251H/NL253H (FANUC 0i mate-TD)

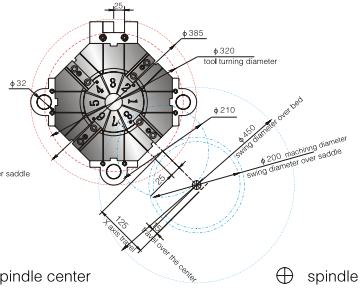
NL402H

TURRET INTERFERENCE



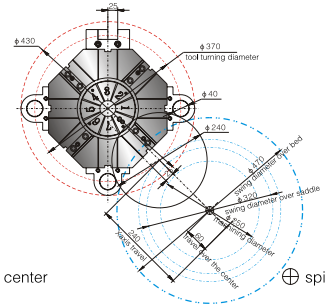
⊕ spindle center

NL201H



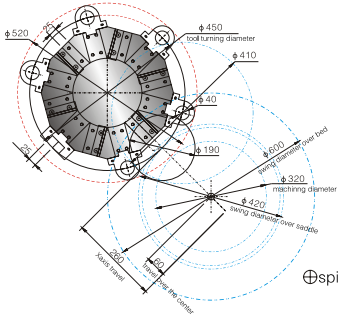
⊕ spindle center

NL201HC



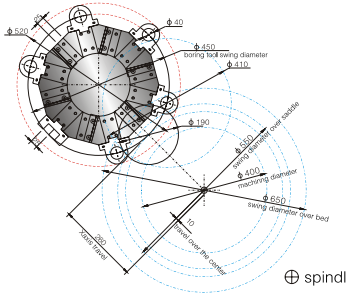
⊕ spindle center

NL251H/NL253H



⊕ spindle center

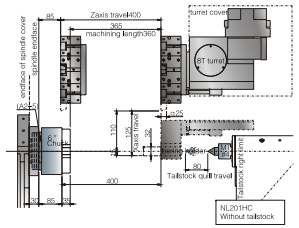
NL322H/NL324H



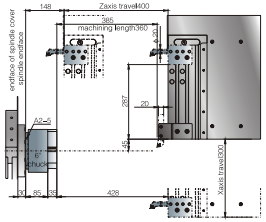
⊕ spindle center

NL402H

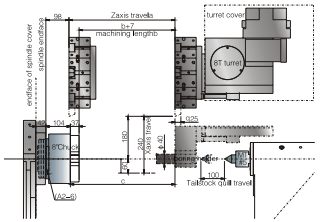
WORK AREA



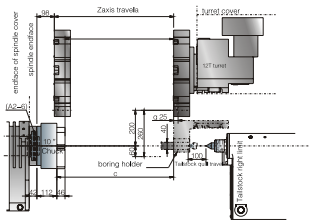
NL201H/NL201HC



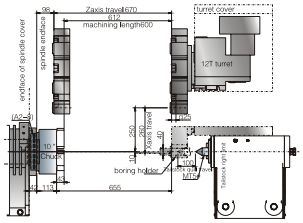
NL201HG



Model	a	b	c
NL251H	450	400	444
NL253H	830	750	794

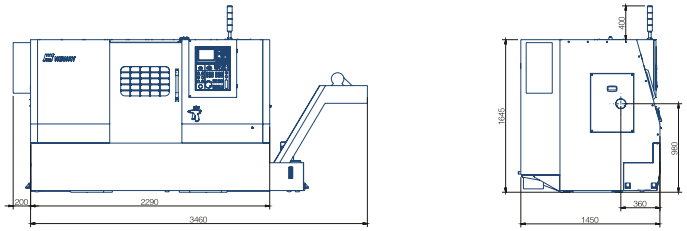


Model	A	b	c	d
NL322H	670	600	656	10
NL324H	1100	1000	1086	40

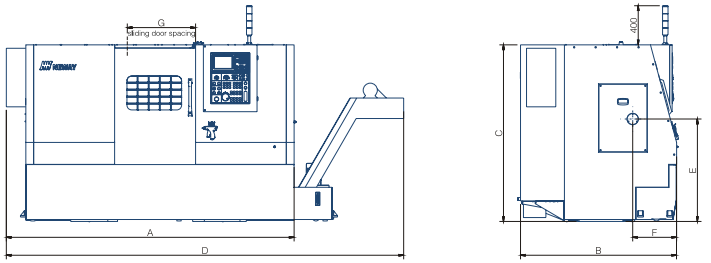


NL402H

OVERALL DIMENSION

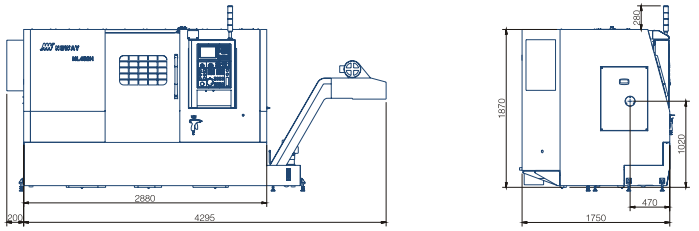


NL201H/NL201HC/NL201HG

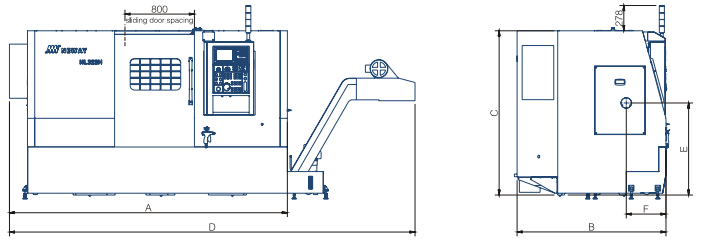


Model	A	B	C	D	E	F	G
NL251H	2950	1600	1835	4075	1050	450	700
NL253H	3180	1600	1835	4305	1050	450	700

NL251H/NL253H



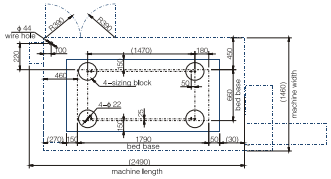
NL402H



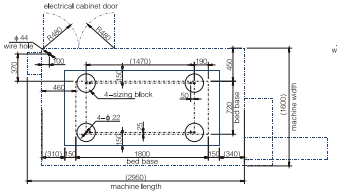
Model	A	B	C	D	E	F
NL322H	3080	1650	1820	4495	1020	440
NL324H	3625	1650	1820	5038	1020	440

NL322H/NL324H

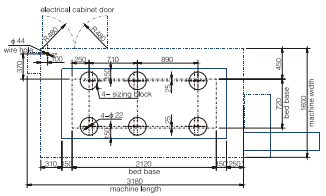
FOUNDATION MAP



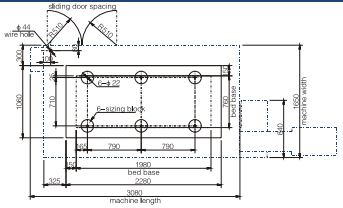
NL201H/NL201HC/NL201HG



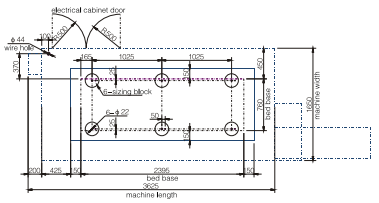
NL251H



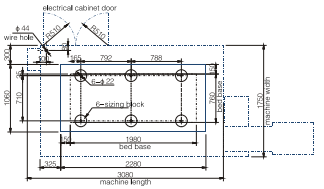
NL253H



NL322H



NL324H



NL402H

NL503H/NL635HA/NL805H

This type lathe is equipped with wide area motor, with big torque and good cutting performance.

NL635HA special tailstock:

To improve work efficiency, it installs tailstock hydrautic control or manual operation.

NL635HA/NL805H

Compound chain–type chip conveyor

To reduce the possibility of broken ensure the smooth chip removal.

Fission structure of tailstcok

Adjustable concentricity of sleeve and spindle.

Standard configuration: wide area motor for spindle

Big torque, change between high and low speed, large cutting force.

NL503H
Low speed torque **310Nm**
High speed torque **307Nm**

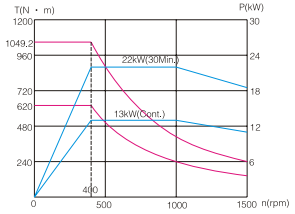
NL635HA
Low speed torque **442Nm**
High speed torque **280Nm**

NL805H
Low speed torque **442Nm**
High speed torque **280Nm**

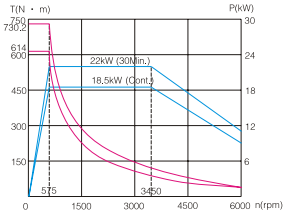
Movable right cover

Facilitate machine maintenance.

SPINDLE POWER/TORQUE CURVE DIAGRAM

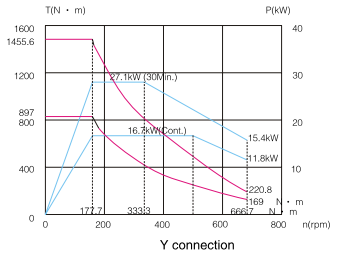


Y connection

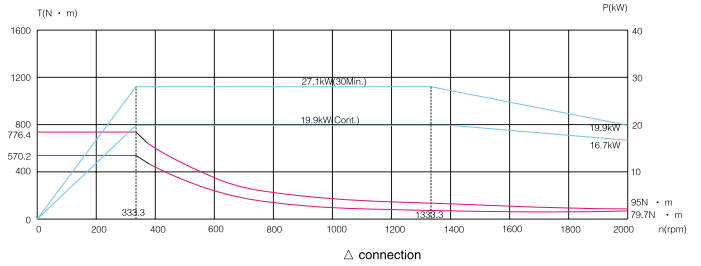


△ connection

NL503H



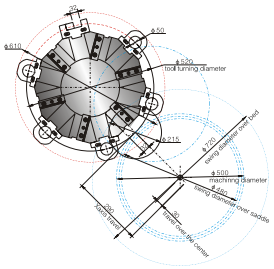
Y connection



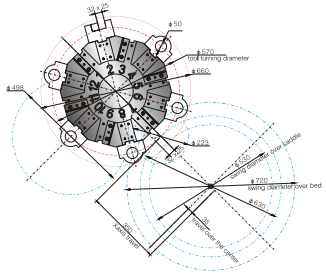
△ connection

NL635HA/NL805H

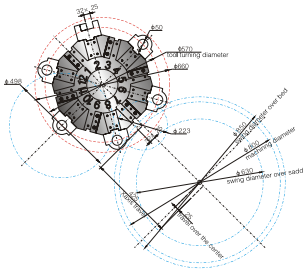
TOOL INTERFERENCE DRAWING



NL503H

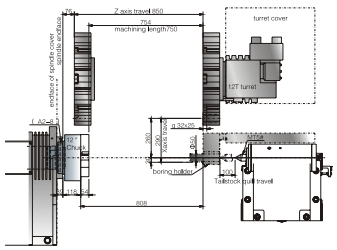


NL635HA

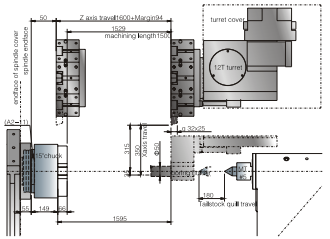


NL805H

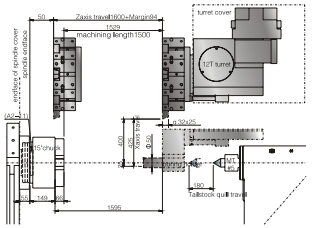
WORK AREA



NL503H

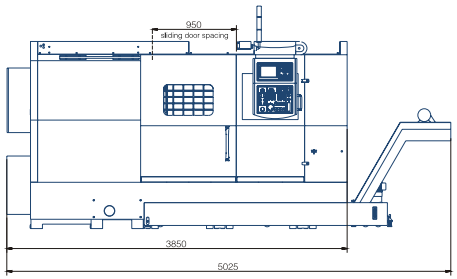


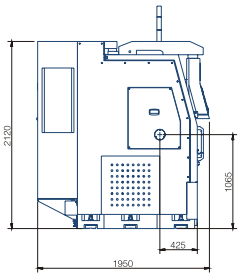
NL635HA



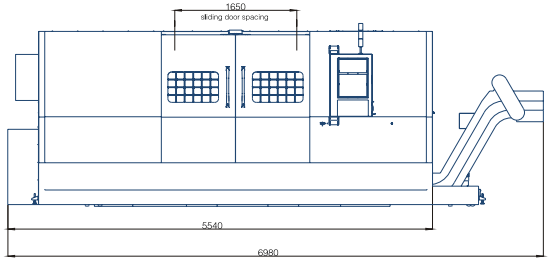
NL805H

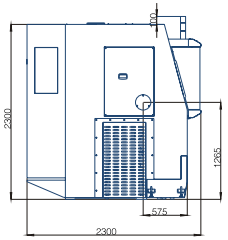
OVERALL DIMENSION





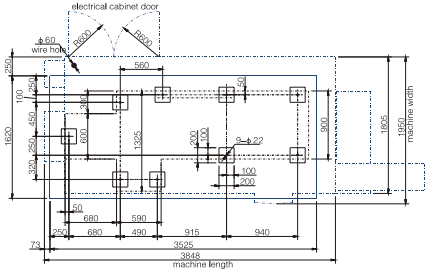
NL503H



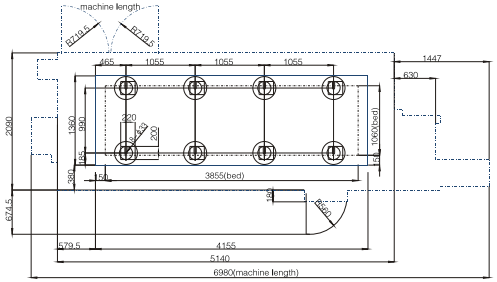


NL635HA/NL805H

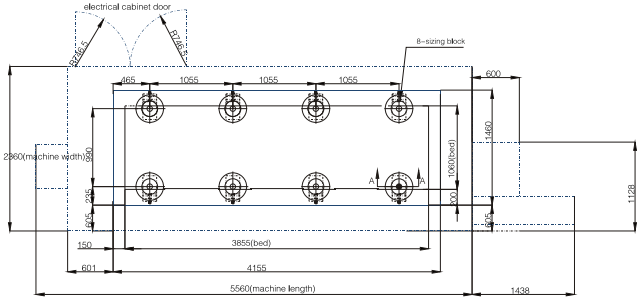
FOUNDATION DRAWING



NL503H



NL635HA



NL805H

TECHNICAL PARAMETERS

Item			unit	NL201HC	NL201H	NL201HG	NL251H	NL253H	NL322H	NL324H	NL402H	NL503H	NL635HA	NL805H
ability	max swing diameter on bed		mm	Φ450	Φ450	Φ450	Φ470	Φ470	Φ600	Φ600	Φ650	Φ650	Φ720	Φ850
	max swing diameter on saddle		mm	Φ200	Φ200	Φ200	Φ320	Φ320	Φ420	Φ420	Φ550	Φ480	Φ530	Φ630
	max cutting diameter		mm	Φ200	Φ200	Φ200	Φ250	Φ250	Φ320	Φ320	Φ400	Φ500	Φ630	Φ800
	max cutting length		mm	360	360	360	400	750	600	1000	600	750	1500	1500
	Max.Dia of workpiece through spindle hole		mm	Φ45	Φ45	Φ45	Φ45	Φ45	Φ52	Φ52	Φ75	Φ75	Φ85	Φ90
spindle	max spindle speed		rpm	6000	6000	6000	5000	5000	4000	4000	3000	1500	2000	1250
	spindle nose		ISO	A2-5	A2-5	A2-5	A2-6	A2-6	A2-6	A2-6	A2-8	A2-8	A2-11	A2-11
	spindle bore diameter		mm	Φ56	Φ56	Φ56	Φ56	Φ56	Φ65	Φ65	Φ87	Φ91	Φ100	Φ106
	spindle taper		-	6#	6#	6#	6#	6#	80	80	100	100	120	120
	spindle center to ground		mm	980	980	980	1050	1050	1020	1020	1020	1065	1265	1290
X&Z axis	tailstock sleeve dia		mm	—	Φ75	—	Φ100	Φ100	Φ100	Φ100	Φ130	Φ130	Φ160	Φ160
	tailstock sleevetravel		mm	—	80	—	100	100	100	100	100	100	180	180
	center		Morse	—	4#	—	5#	5#	5#	5#	5#	5#	5#	5#
X&Z axis	max travel X/Z		mm	125/400	125/400	300/400	240/450	240/830	260/670	260/1100	260/670	290/850	350/1600	425/1600
	traverse X/Z		m/min	24/30	24/30	24/30	24/30	24/30	24/30	24/30	24/30	16/16	8/12	8/12
	X axis screw dia/lead		mm	Φ32/8	Φ32/8	Φ32/8	Φ32/8	Φ32/8	Φ40/10	Φ40/10	Φ40/10	Φ40/8	Φ50/10	Φ50/10
	Z axis screw dia/lead		mm	Φ32/10	Φ32/10	Φ32/10	Φ32/10	Φ32/10	Φ40/12	Φ40/12	Φ40/12	Φ50/10	Φ63/10	Φ63/10
turret	tools			8	8	3	8	8	12	12	12	12	12	12
	tool shank		mm	25×25	25×25	20x20	25×25	25×25	25×25	25×25	25×25	32×25	32×25	32×25
	max boring tool shank dia		mm	Φ32	Φ40	Φ20	Φ40	Φ40	Φ40	Φ40	Φ40	Φ50	Φ50	Φ50
accuracy	positioning	X	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.01	0.012	0.012	0.012
		Z	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.01	0.012	0.016	0.016
	repeatability	X	mm	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006
		Z	mm	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.008	0.008
others	total capacity		kVA	20	20	20	23	23	25	25	30	35	40	40
	overall dimension		mm	2442×1730×1785	2442×1730×1785	2442×1730×1785	2902×1800×1925	3297×1800×1925	3032×1880×1950	3657×1880×1950	3032×1970×2000	3850×1950×2120	5540×2300×2300	5560×2360×2430
	weight		kg	3700	3800	3700	4500	4800	4800	5500	5000	9000	13000	15000
CNC system			-	FANUC 0i mate-TD[SIEMENS 828D]					FANUC 0i TD[SIEMENS 828D]					
power			kW	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11	11/15	11/15	15/18.5	Δ18.5/22(Y13.5/22)	Δ22/30(Y18.5/30)	Δ22/30(Y18.5/30)
servo motor torqueX/Z			N·m	7/7	7/7	7/7	7/7	7/7	12/12	12/12	12/12	12/22	22/22	22/22
hydraulic chuck			Inch	hollow6" [solid6"/solid(hollow)8"]	hollow6" [solid6"/solid(hollow)8"]	hollow6" [solid6"/solid(hollow)8"]	hollow 8 solid8"/solid(hollow)10"]	hollow 8" [solid8"/solid(hollow)10"]	solid 10" [solid(hollow)8"/hollow10"]	solid 10" [solid(hollow)8"/hollow10"]	hollow 10" [solid(hollow)8"/solid10"]	solid12"[hollow12"]	hollow 15" [solid15"/solid(hollow)18"]	hollow 15" [solid15"/solid(hollow)18"]
hydraulic steady rest			mm	-	-	-	Φ100	Φ100	Φ150	Φ150	Φ165	Φ200	Φ245	Φ245
chip conveyor				Automatic right conveyor [automatic back/ left conveyor]	Automatic right conveyor [Automatic back/ left conveyor]	Automatic right conveyor [Automatic back/ left conveyor]	Automatic right conveyor [Automatic back/ left conveyor]	Automatic right conveyor [Automatic back conveyor]	Automatic right conveyor [Automatic left/back conveyor]	Automatic right conveyor [Automatic left conveyor]	Automatic right conveyor [Automatic back/ left conveyor]	Automatic right conveyor	Automatic right conveyor	Automatic right conveyor
Lighting device, automatic chip conveyor, cooling system, automatic lubrication system, fully enclosed protection, blowing device, the electric tank air conditioner, tricolour light														

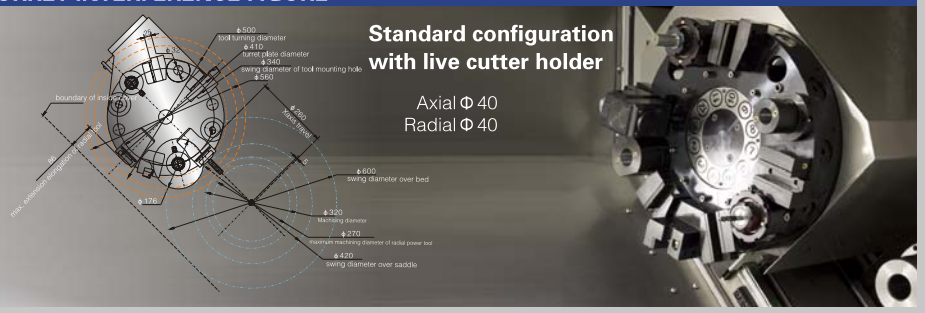
1.with standard chuck 2.with appropriate chuck and cylinder as options [ ]option

NLT SERIES TURNING CENTER

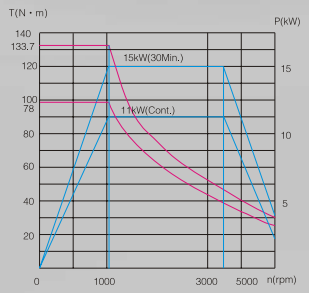
NL322T/NL324T

Turning center NL322T/NL324T , with C axis and live tool, can finish turning, milling, drilling, tapping multichannel process based on one clamping, high efficiency, good accuracy.

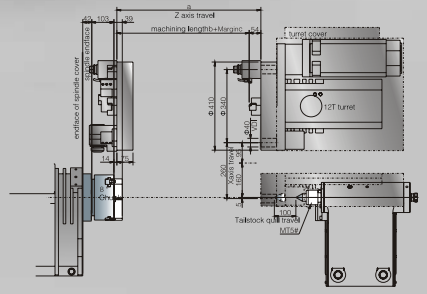
TURRET INTERFERENCE FIGURE



SPINDLE POWER/TORQUE CURVE DIAGRAM



WORK AREA



Milling capacity	LS-200SP
Drilling	16 × 0.2
Tapping	M14 × 2/M20 × 1.5
milling groove	20 × 12 × 40

Model	a	b	c
NL322T	670	600	16
NL324T	1100	1000	46

TECHNICAL PARAMETERS

Item			unit	NL322T	NL324T
ability	max swing diameter on bed		mm	Φ600	Φ600
	max swing diameter on saddle		mm	Φ420	Φ420
	max cutting diameter		mm	Φ320	Φ320
	max cutting length		mm	600	1000
	Max.Dia of workpiece through spindle hole		mm	Φ52	Φ52
spindle	max spindle speed		rpm	5000	5000
	spindle nose		ISO	A2-6	A2-6
	spindle bore diameter		mm	Φ65	Φ65
	spindle taper			metric 80	metric 80
	spindle transmission ratio			1:1.4	1:1.4
	spindle center to ground		mm	1020	1020
X&Z axis	tailstock sleeve dia		mm	Φ100	Φ100
	tailstock sleevetravel		mm	100	100
	center		morse	live center 5#	live center 5#
X&Z	travel X/Z		mm	260/670	260/1100
	traverse X/Z		m/min	24/30	24/30
	X axis screw dia/lead		mm	Φ40/10	Φ40/10
	Z axis screw dia/lead		mm	Φ40/12	Φ40/12
turret	tools			12	12
	tool shank		mm	25x25	25 × 25
	max boring tool shank dia		mm	Φ32	Φ32
accuracy	positioning	X/Z/C	mm	0.008/0.008/51	0.008/0.008/51
	repeatability	X/Z/C	mm	0.004/0.004/20	0.004/0.004/20
others	overall dimension		mm	3032 × 1880 × 1950	3657 × 1880 × 1950
	total capacity		kVA	30	30
	weight		Kg	4800	5500
CNC system				FANUC 0i -TD[SIEMENS 828D]	
power			kW	11/15	11/15
servo motor torqueX/Z			N・m	12/12	12/12
chip conveyor				rightward,[leftward, backward]	rightward ,[leftward]
luminition,chip conveyor,cooling system,lubrication,full protection,pneumatic door,chip flush,electric cabinet,warning light					

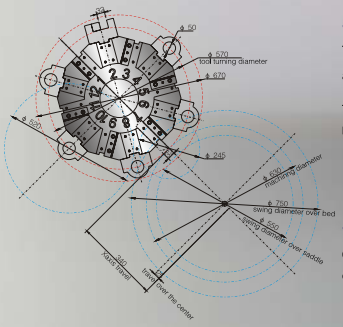
1.with standard chuck 2.with appropriate chuck and cylinder as options [ ]Option

HUB CUTTING LATHE

NL633HW

Special processing wheel hub of car,
Suitable for high-speed cutting for aluminum rims.

TURRET INTERFERENCE



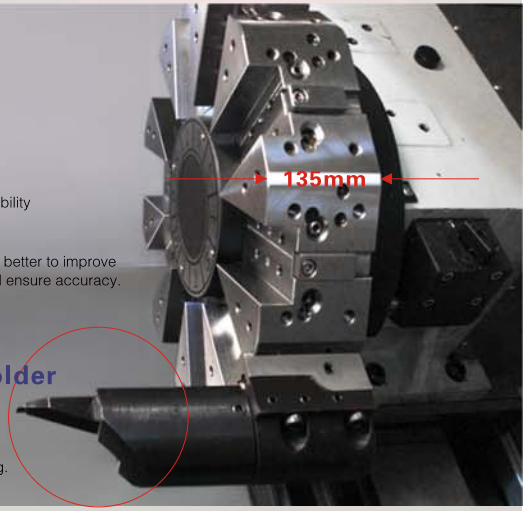
Servo turret

Tool change speed, turret repeatability accuracy **3 μm** ,

Turret plate thickness **135mm**, better to improve machine processing efficiency and ensure accuracy.

Special boring holder

Can be designed according to customer requirements, extend boring holder or boring sleeves, to avoid tool vibration when cutting.

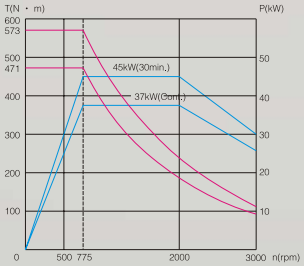


High rigid base

High rigid base and body are designed as integral pant, greatly improving the bed rigid, avoiding the resonance point, with strengthen base for spindle box, to make spindle center located on the base , more stable.

Movable right cover, facilitates machine maintenance.

SPINDLE POWER/TORQUE CURVE DIAGRAM



FANUC wide area spindle motor
To realize low speed but high torque
High speed and high efficiency for high speed cutting.

Power **37/45kw**, **23.3%** higher than machines on the market with same specification.

Spindle speed

3000rpm

Chip flnsh function, prevent aluminum chip accumulation on protective cover, thoroughly chip removed.

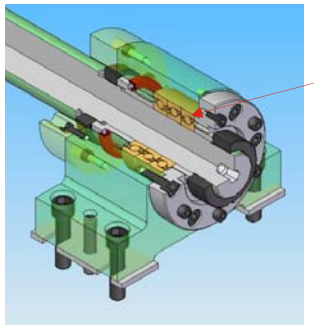
High rigid structure

45° slant integral bed

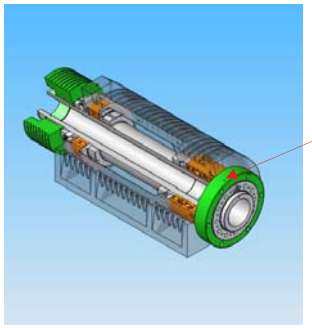
Import screw, spindle and screw bearings

With high precision, high efficiency and more stable structure.

HIGH SPEED, HIGH RIGID SPINDLE

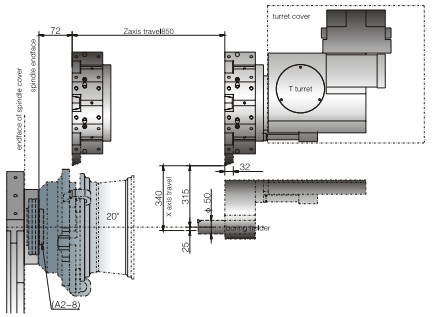


With High speed, high rigid NSK spindle bearing combination, the spindle support can bear enough axial force and radial force, can keep a long time of stable cutting.



Install bearing life structure? configuration spindle gas seal structure, the screw bearing dustproof structure.

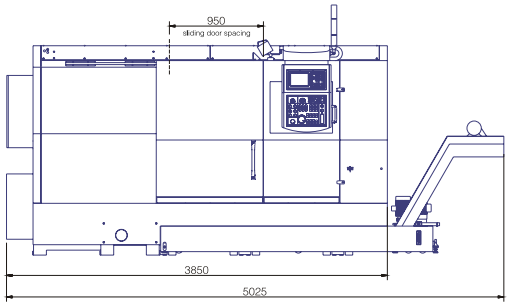
WORK AREA

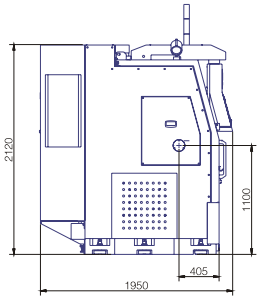


TECHNICAL PARAMETERS

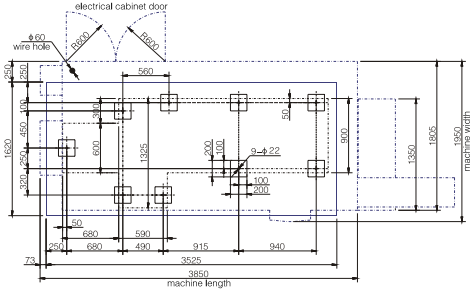
Item			unit	NL633HW
ability	max swing diameter on bed		mm	Φ750
	max swing diameter on saddle		mm	Φ550
	max cutting diameter		mm	Φ630
	max cutting length		mm	750
	max wheel hub size		inch	20
spindle	max spindle speed		rpm	3000
	spindle nose		ISO	A2-8
	spindle bore diameter		mm	Φ87
	spindle taper			100
	spindle transmission ratio			1:2
	spindle center to ground		mm	1100
X&Z axis	max travel X/Z		mm	340/850
	traverse X/Z		m/min	16/16
	X axis screw dia/lead		mm	Φ40/8
	Z axis screw dia/lead		mm	Φ50/10
turret	tools			12
	tool shank		mm	32×32
	max boring tool shank dia		mm	Φ50
accuracy	positioning	X	mm	0.016
		Z	mm	0.025
	repeatability	X	mm	0.006
		Z	mm	0.008
others	overall dimension		mm	3850×1950×2120
	total capacity		kVA	60
	weight		Kg	8500
CNC system				FANUC 0i -TD[SIMENS 828D]
power			kW	37/45
servo motor torqueX/Z			N·m	22/22
chip conveyor				rightward
luminition,chip conveyor,cooling system,lubrication, full protection,pneumatic door,chip flush,electric cabinet,warning light				

OVERALL DIMENSION





FOUNDATION DRAWING

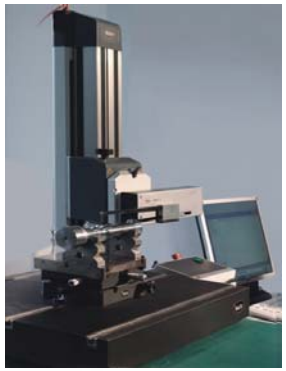


MANUFACTURING AND INSPECTION

High precision spindle grinding:

High precision spindle grinding:

Contour testing

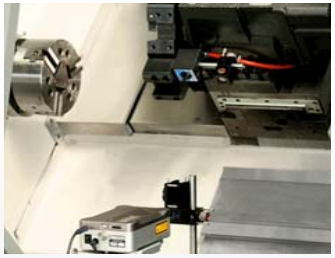


Belt tension testing

Assembly testing

Tool hole testing

Carefully scraping



Laser testing

Spindle dynamic balance testing

ADDITIONAL FUNCTION CONFIGURATION

Part catcher

Bar feeder

Steay rest

Tool measure system

Pneumatic door

Oil–water separator

FMS APPLICATION CASE

Neway can design and manufacture various of FMS, according to the customer's workpiece drawings and requirements, reasonable choose machine, work out the process scheme, make process card, select tools, design workpiece fixture , determine the material delivery plan and the automatic feeding and unloading plan, to finally determine FMS overall

NL201HC application in automobile parts

NL322H application in automobile wheel hub

NL502SA application in small parts