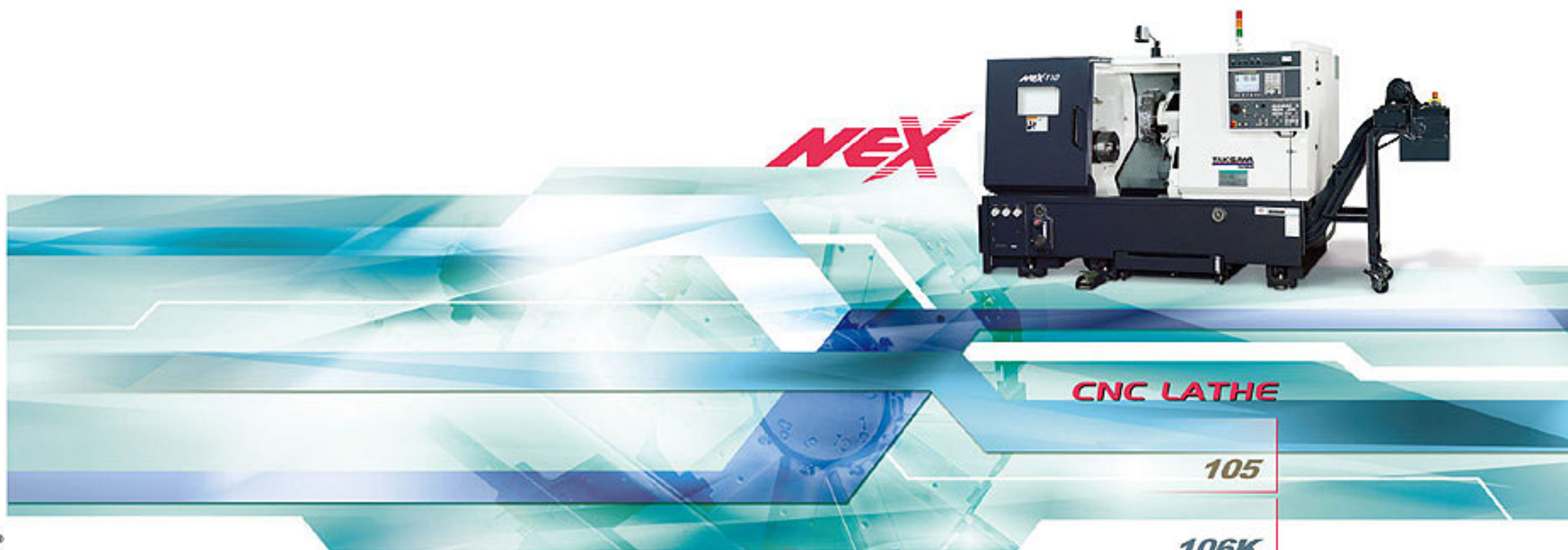


TAKISAWA®
TAIWAN



CNC LATHE

105

106K

106

108

110

TAIWAN TAKISAWA TECHNOLOGY CO., LTD.
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NEX-105 CNC LATHE

FEATURES

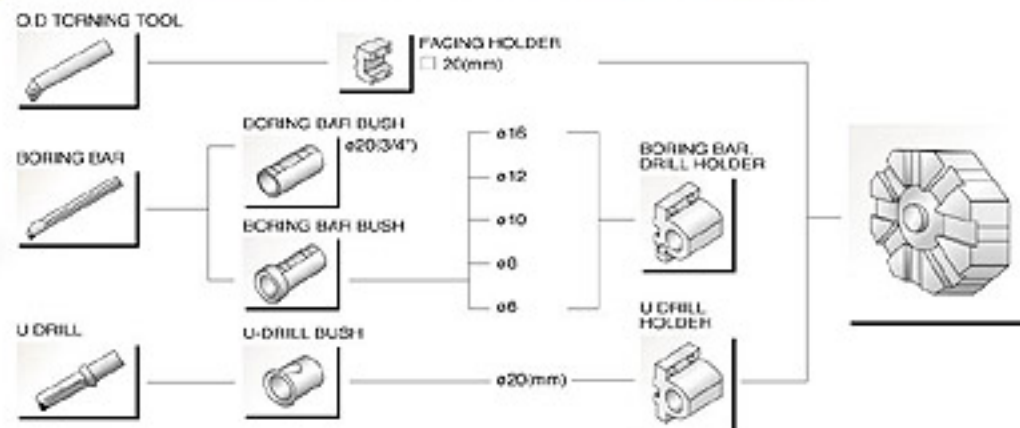
- ▶ Maxima Spindle Speed Can Reach 6000 RPM.
- ▶ Servo Motor Turret Has High Speed And High Accuracy.
- ▶ Rigid And Durable Linear Guide For X-Axis And Z-Axis.
- ▶ Fast Indexing To Reduce Non-Cutting Time And Increase Productivity.



NEX-105 CNC FUNCTION

- ▶ Tool offset pairs 64-pairs
- ▶ Part program storage length 512Kbyte
- ▶ Registered programs 400
- ▶ Inch / metric conversion
- ▶ Thread cutting
- ▶ Linear acceleration / deceleration
- ▶ Machining status
- ▶ Chamfering / corner
- ▶ Programmable data
- ▶ Custom macro B
- ▶ Multiple repetitive cycles
- ▶ Canned cycle for drilling
- ▶ Constant surface speed control
- ▶ Spindle speed fluctuation detection
- ▶ Rigid tapping
- ▶ Tool nose radius compensation
- ▶ Tool geometry / wear compensation
- ▶ Extended part program editing
- ▶ Background editing
- ▶ Run hour and parts count display
- ▶ Graphic display

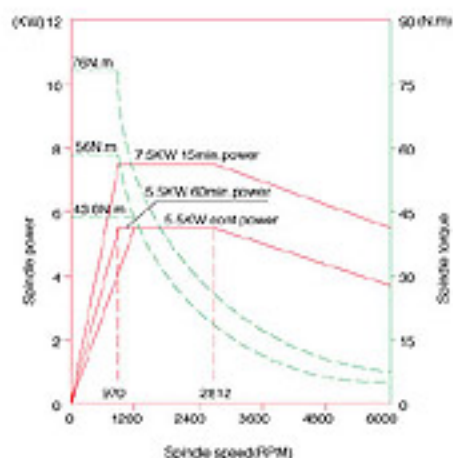
NEX-105 Tool System



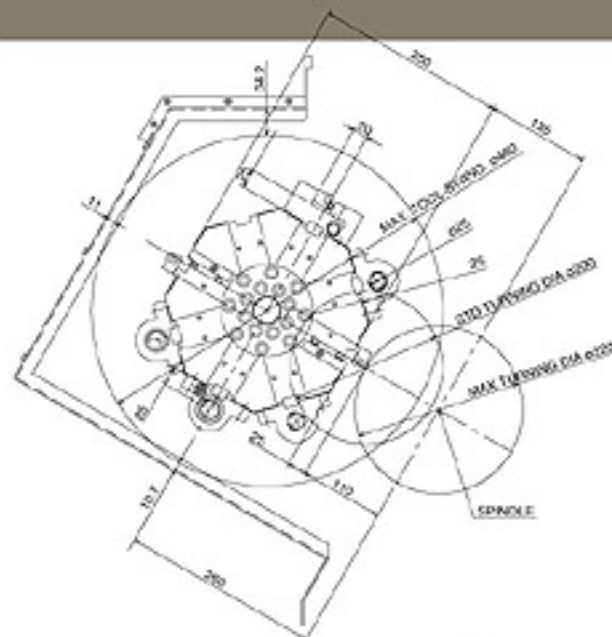
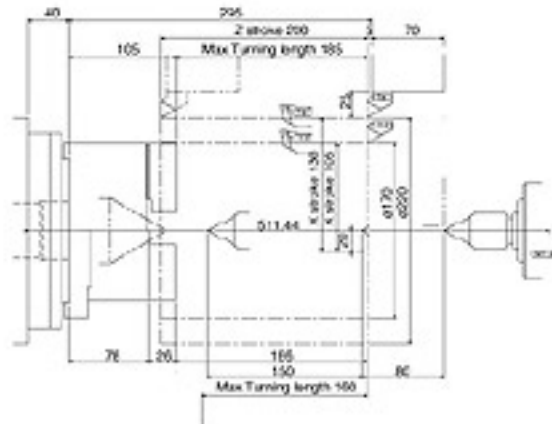
NEX-105 T8 Tool Interface



NEX-105 Spindle Output Diagram



NEX-105 Working Range



EX-106K CNC LATHE

FEATURES

- ▶ Maxima Spindle Speed Can Reach 6000 RPM.
- ▶ Gang Tools Has High Speed And High Accuracy.
- ▶ Rigid And Durable Linear Guide For X-Axis And Z-Axis.
- ▶ Fast Indexing To Reduce Non-Cutting Time And Increase Productivity.

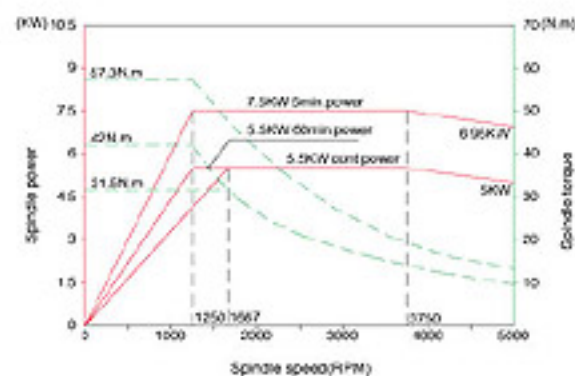
EX-106K CNC FUNCTION

- ▶ Tool offset pairs 84-pairs
- ▶ Part program storage length 512Kbyte
- ▶ Registered programs 400
- ▶ Inch / metric conversion
- ▶ Thread cutting
- ▶ Linear acceleration / deceleration
- ▶ Machining status
- ▶ Chamfering / corner
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- ▶ Constant surface speed control
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- ▶ Rigid tapping
- ▶ Tool nose radius compensation
- ▶ Tool geometry / wear compensation
- ▶ Extended part program editing
- ▶ Background editing
- ▶ Run hour and parts count display
- ▶ Graphic display

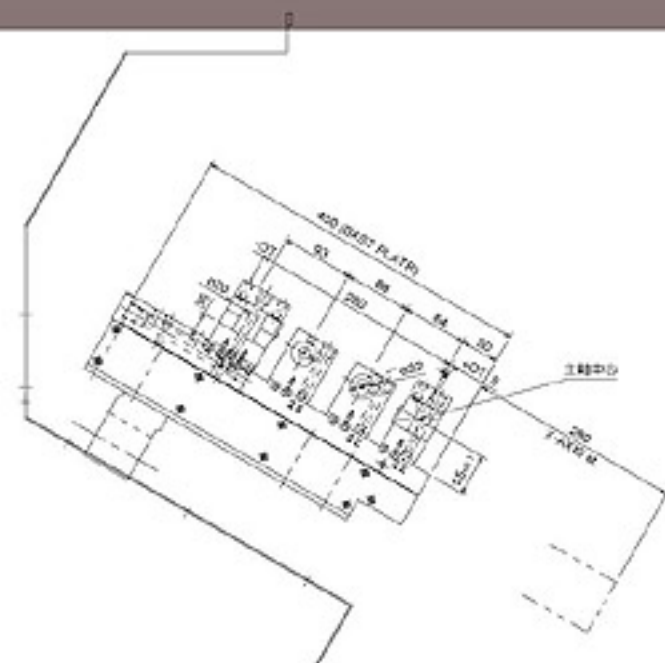
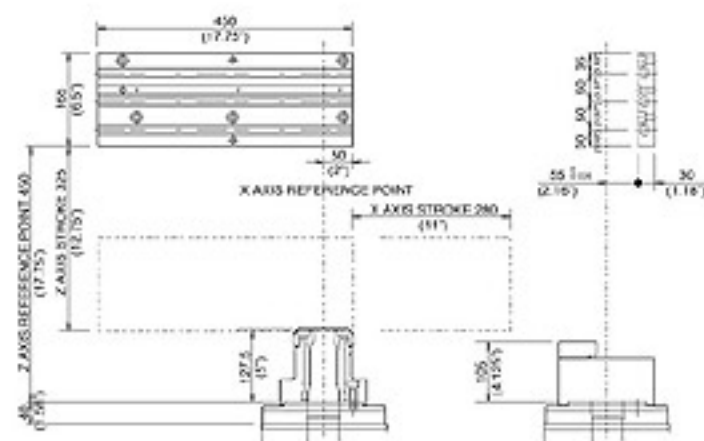


EX-106K Tool Interface

EX-106K Spindle Output Diagram



EX-106K Working Range



NEX-106 CNC LATHE

FEATURES

- ▶ Perfect And Balanced Integration For Controller, Servo Motors And Mechanics.
- ▶ The Best Solution For Small Batch Production Of Complex Parts.
- ▶ Safety Advanced Features Reduce Time Dramatically, That Is Due To Operator's Errors.



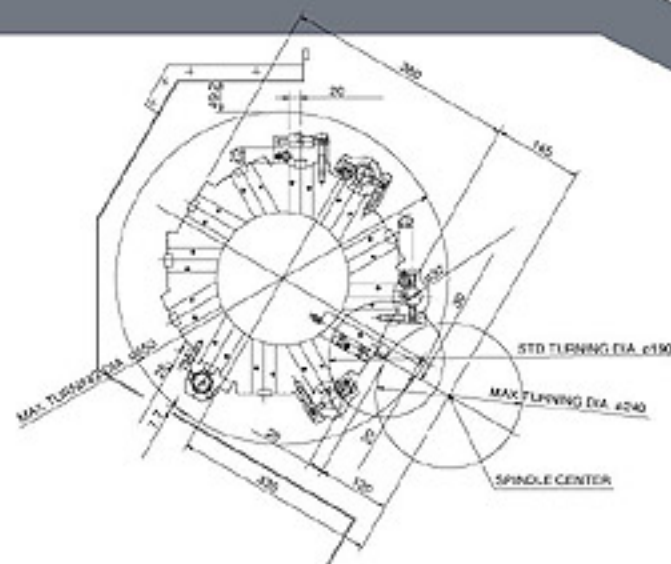
NEX-106K CNC FUNCTION

- ▶ Tool offset pairs 64-pairs
- ▶ Part program storage length 512Kbyte
- ▶ Registered programs 400
- ▶ Inch / metric conversion
- ▶ Disturbance torque detection function (for loader)
- ▶ Thread cutting
- ▶ Linear acceleration / deceleration
- ▶ Machining status
- ▶ Chamfering / corner
- ▶ Programmable data
- ▶ Custom macro B
- ▶ Multiple repetitive cycles
- ▶ Canned cycle for drilling
- ▶ Constant surface speed control
- ▶ Spindle speed fluctuation detection
- ▶ Rigid tapping
- ▶ Tool nose radius compensation
- ▶ Tool geometry / wear compensation
- ▶ Extended part program editing
- ▶ Background editing
- ▶ Run hour and parts count display
- ▶ Graphic display
- ▶ Stored pitch error compensation
- ▶ Continuous thread cutting
- ▶ Variable lead thread cutting
- ▶ Workpiece coordinate system

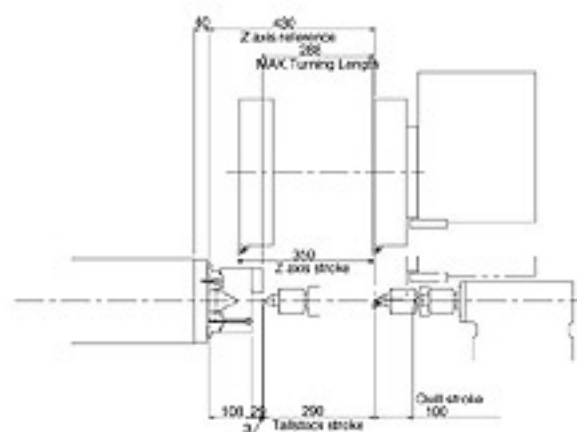


0° ~ 60°

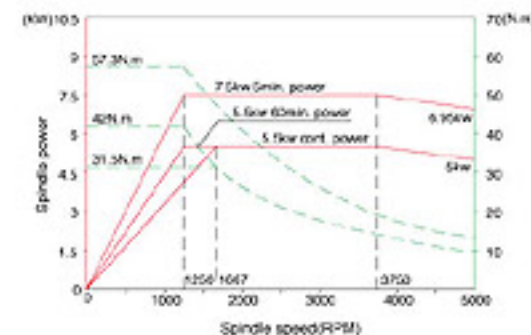
NEX-106 T12 Tool Interface



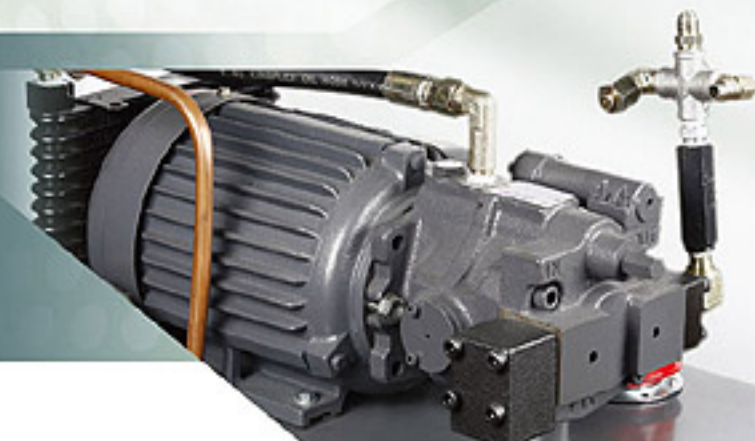
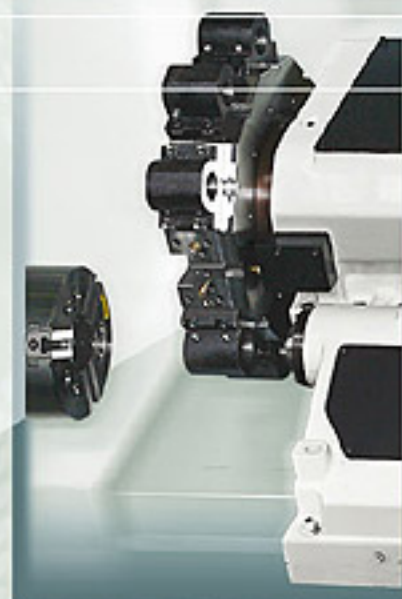
NEX-106 Working Range



NEX-106 Spindle Output Diagram

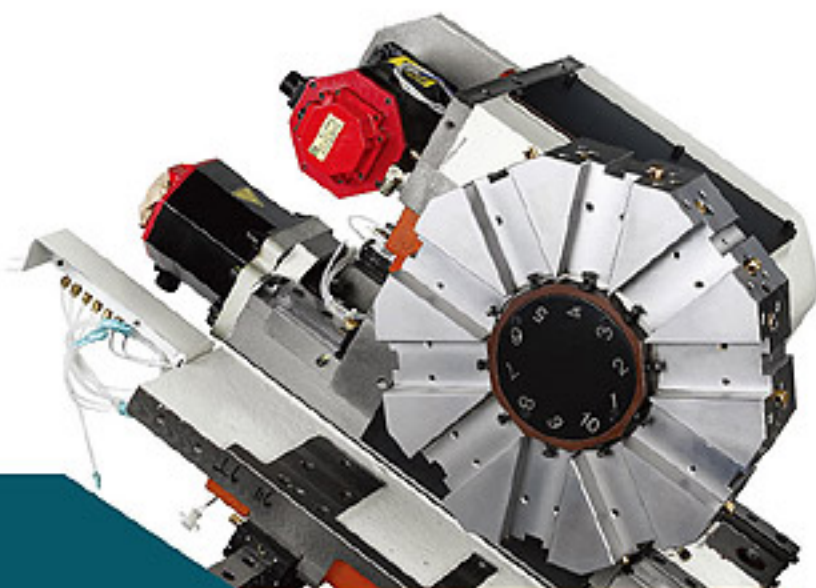


NEX-108 CNC LATHE



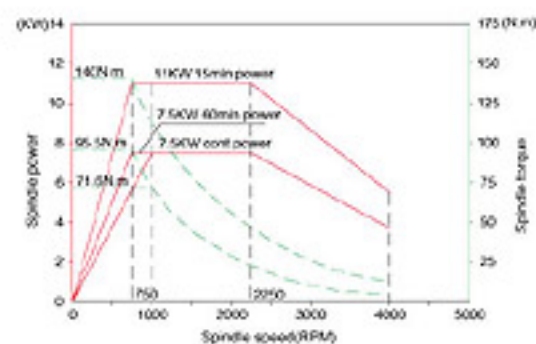
NEX-108 CNC FUNCTION

- » Tool offset pairs 64-pairs
- » Part program storage length 512Kbyte
- » Registered programs 400
- » Inch / metric conversion
- » Disturbance torque detection function (for loader)
- » Thread cutting
- » Linear acceleration / deceleration
- » Machining status
- » Chamfering / corner
- » Programmable data
- » Custom macro B
- » Multiple repetitive cycles
- » Canned cycle for drilling
- » Constant surface speed control
- » Spindle speed fluctuation detection
- » Rigid tapping
- » Tool nose radius compensation
- » Tool geometry / wear compensation
- » Extended part program editing
- » Background editing
- » Run hour and parts count display
- » Graphic display
- » Stored pitch error compensation
- » Continuous thread cutting
- » Variable lead thread cutting
- » Workpiece coordinate system

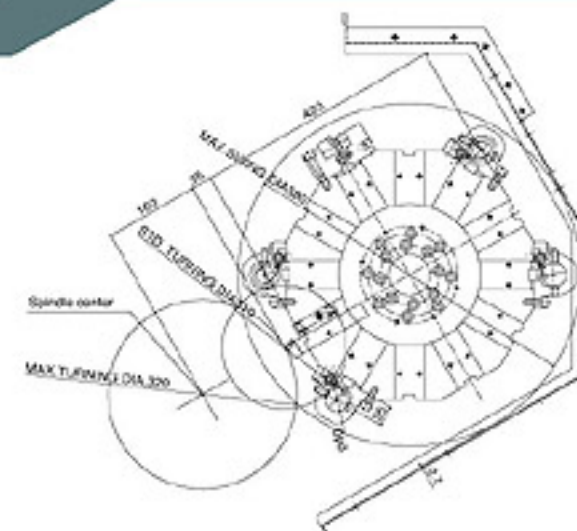
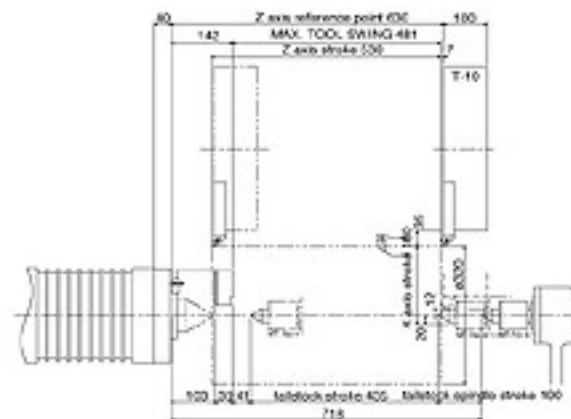


NEX-108 T12 Tool Interface

NEX-108 Spindle Output Diagram



NEX-108 Working Range



NEX-110 CNC LATHE

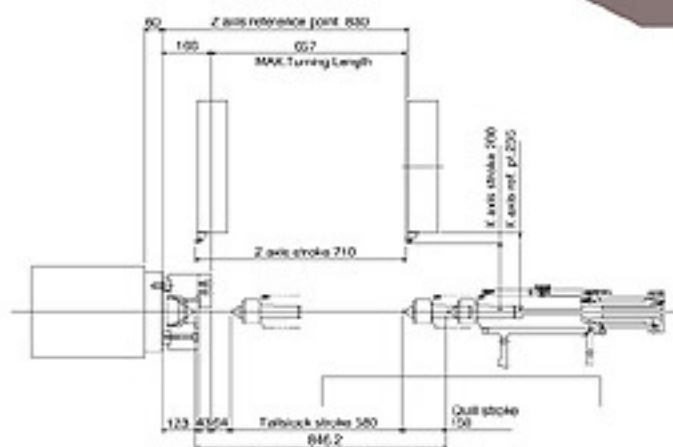


NEX-110 CNC FUNCTION

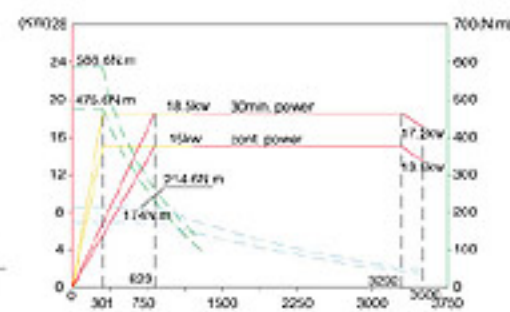
- › Tool offset pairs 64-pairs
- › Part program storage length 512Kbyte
- › Registered programs 400
- › Inch / metric conversion
- › Disturbance torque detection function (for loader)
- › Thread cutting
- › Linear acceleration / deceleration
- › Machining status
- › Chamfering / corner
- › Programmable data
- › Custom macro B
- › Multiple repetitive cycles
- › Canned cycle for drilling
- › Constant surface speed control
- › Spindle speed fluctuation detection
- › Rigid tapping
- › Tool nose radius compensation
- › Tool geometry / wear compensation
- › Extended part program editing
- › Background editing
- › Run hour and parts count display
- › Graphic display
- › Stored pitch error compensation
- › Continuous thread cutting
- › Variable lead thread cutting
- › Workpiece coordinate system

NEX-110 T10 Tool Interface

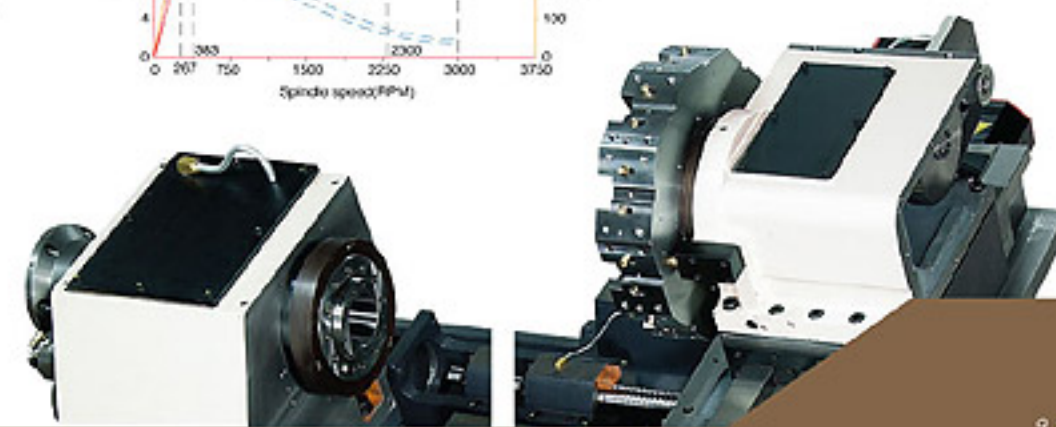
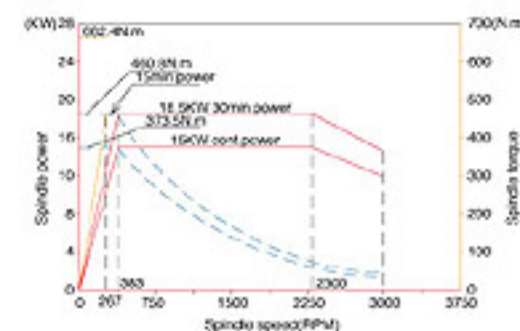
NEX-110 Working Range

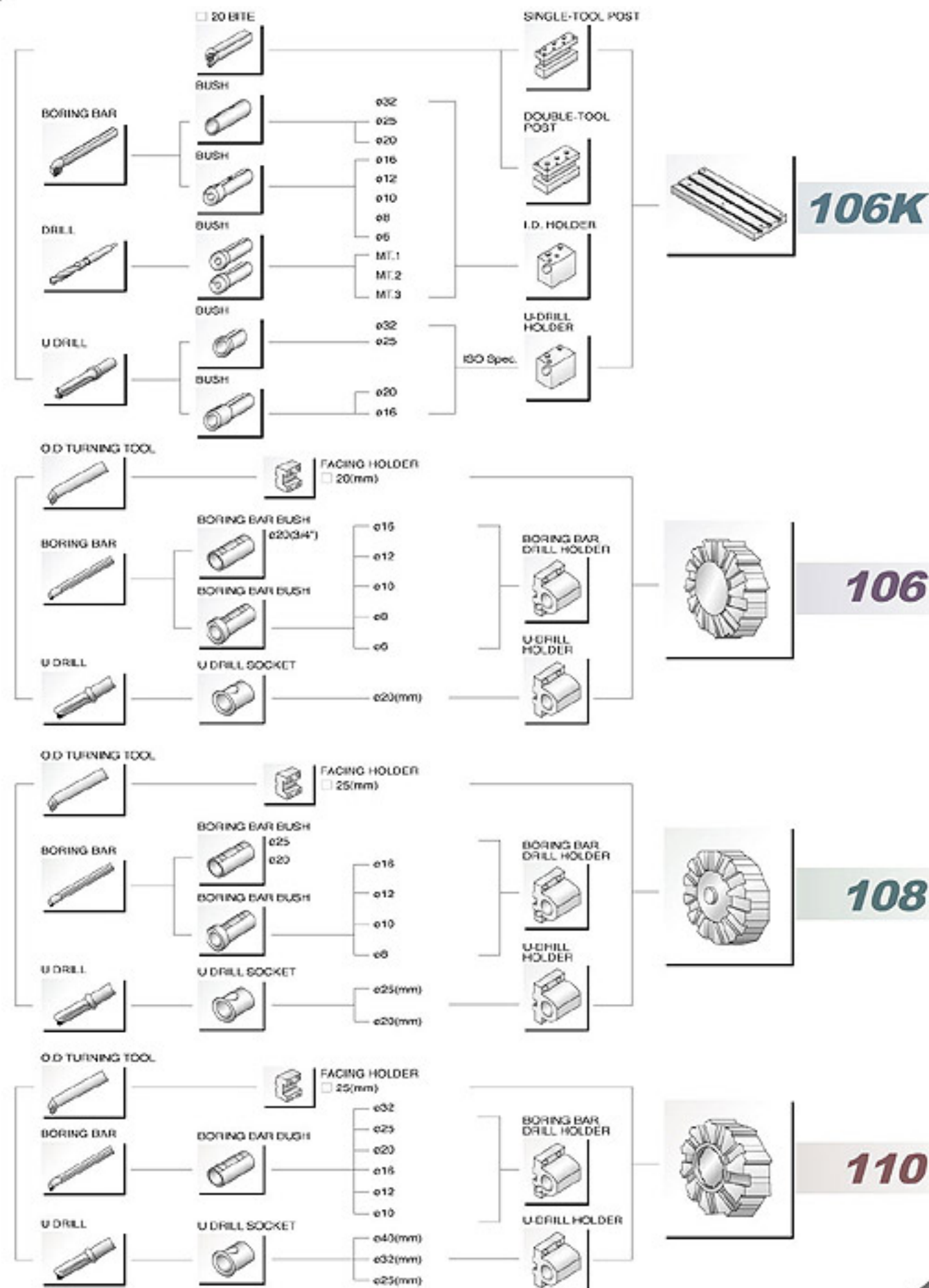
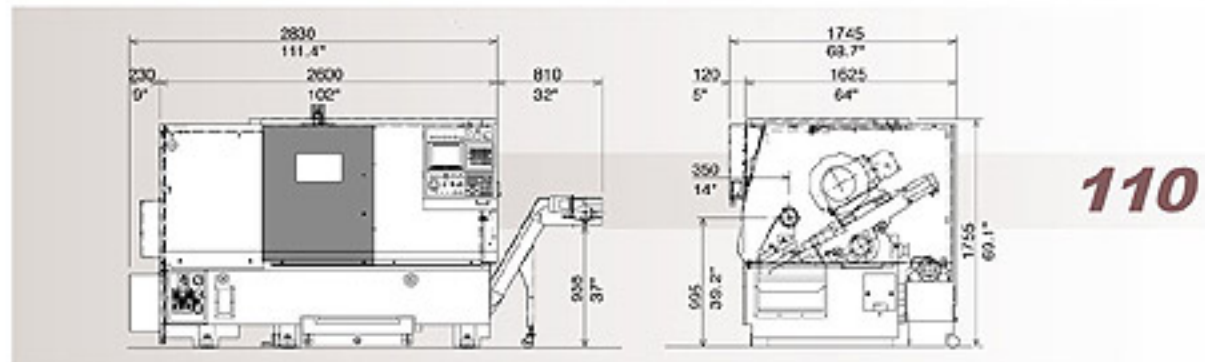
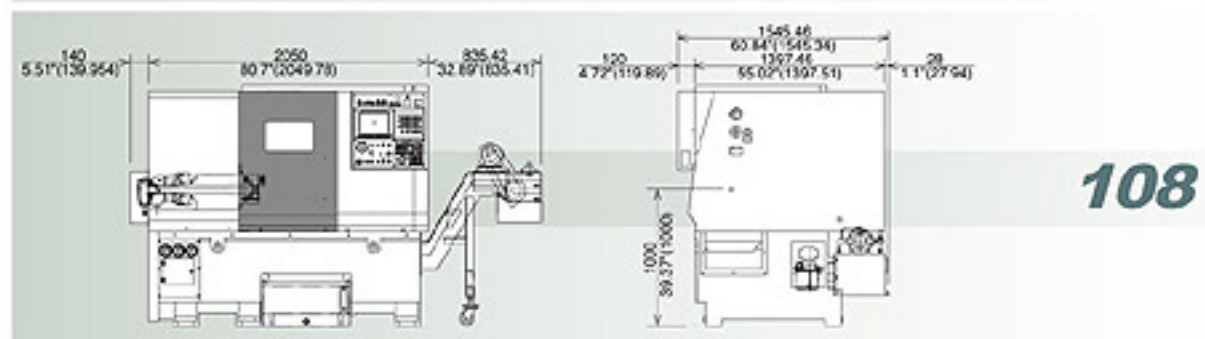
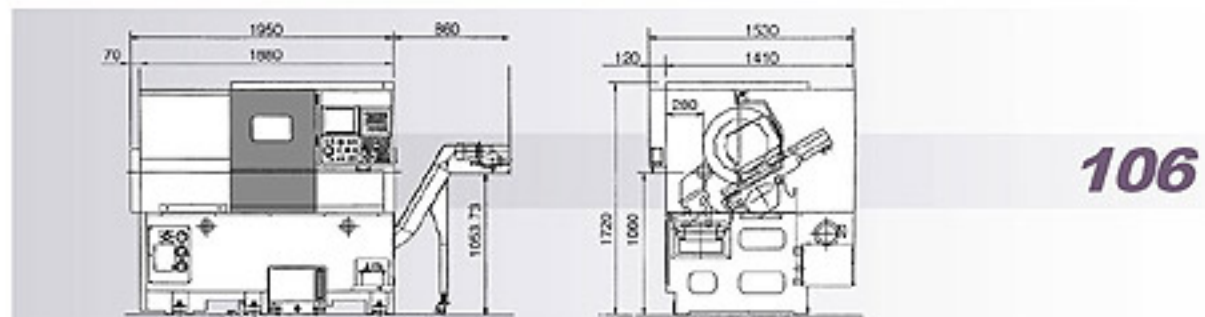
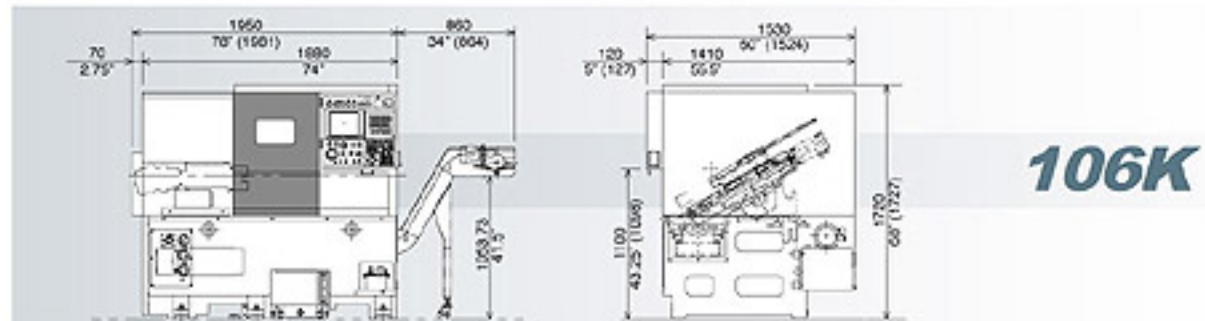
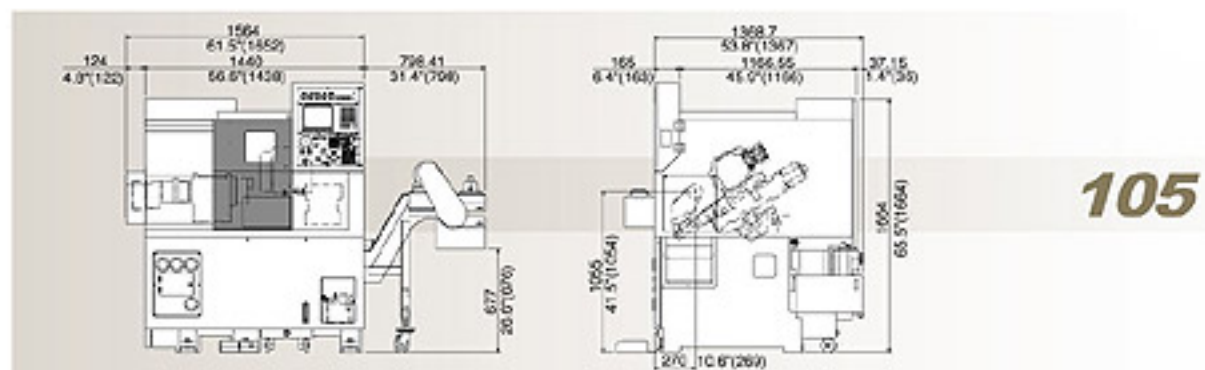


NEX-110 Spindle Output Diagram



NEX-110 P Motor Spindle Output Diagram (Option)





Machine Accessories *Standard ▲Optional

Items			NEX-105	EX-106K	NEX-106	NEX-108	NEX-110
CAPACITY	Swing over bed	mm	400	300	350	400	495
	Swing on cross slide	mm	290	--	290	320	400
	Max.Swing (on front door)	mm	450	--	510	490	560
	Standard turning dia	mm	200(T8)	--	177	230(T10) / 210(T12)	275
	Max. turning dia	mm	220(T8)	--	240	320	400
	Max. turning length	mm	185	325	350	481	657
	Bar capacity	mm	42	43	43	52	75 / (op:77)
TRAVEL	X-axis Stroke	mm	130(T8)	--	140	180	220
	Z-axis Stroke	mm	200	--	350	530	710
SPINDLE	Spindle speed	rpm	6000	60-6000	5000	4000	50-3500
	Chuck size		6"	--	6"	8"	10"
	Spindle nose		FLAT140	FLAT 140	FLAT140	A2-6	A2-8
	Spindle thru-hole dia	mm	53	56	56	63	86
	Spindle bearing dia	mm	80	--	80	100	120
	Spindle No.		1	1	1	1	1
TURRET	Type of tool post		T8	Gang type	T12	T10 (T12)	T10
	Height of square tool		20	20	20	25	25
	Die of boring bar hole	mm	25	32	32	40	50
	Stroke of tailstock	mm	150	--	290	435	580
TAILSTOCK	Tailstock's shaft hole dia	mm	55	--	75	75	110
	Taper of tailstock	mm	MT.3	--	MT.4	MT.4	MT.5
	Stroke of tailstock's shaft		80	--	100	100	150
	Stroke of X-axis	mm	--	280	--	--	--
	Stroke of Z-axis	mm	--	325	--	--	--
FEED	Rapid travel X-axis	m/min	24	24	24	24	16
	Rapid travel Z-axis	m/min	30	30	30	24	20
MOTOR	Spindle motor	Kw	5.5 / 7.5	5.5 / 7.5	5.5 / 7.5	7.5 / 11	15 / 18.5
	Servo motor X-axis	Kw	1.2	1.2	1.2	1.2	1.2
	Servo motor Z-axis	Kw	1.8	2.5	2.5	2.5	2.5
	Hydraulic pump	Kw	--	1.5	--	--	--
	Lubrication pump	Kw	--	0.004	--	--	--
	Coolant pump	w	--	400	--	--	--
POWER	Electric	KVA	13.7	19	17	21	35
TANK	Hydraulic	L(Kw)	25(1.1)	40	40(1.5)	40(1.5)	40(1.5)
	Coolant tank	L(Kw)	90(0.4)	160	160(0.4)	200(0.4)	230(0.4)
	Lubrication	L(Kw)	2(0.004)	2	2(0.004)	2(0.004)	2(0.004)
SIZE	Height	mm	1710	1720	1665	1765	1755
	Length x Width	mmxmm	1440 x 1327	1950 x 1530	2080 x 1500	2150 x 1660	2830 x 1760
	Weight of machine	kg	2500	3500	3500	3800	5000

Items	NEX-105	EX-106K	NEX-106	NEX-108	NEX-110
Fanuc spindle motor	★	★	★	★	
Two-steps gear box spindle					★
Hydraulic servo turret	★		★	★	★
Gang type tool post		★			
3-Jaw thru-hole chuck (soft jaw & T-nut: 1Set)	★	★	★	★	★
Boring bar tool holder x4PC	★	★	★	★	★
U-drill tool holder x2PC	★	★	★	★	★
End face tool holder x1PC	★	★	★	★	★
Boring bar bush 6e	★	★	★		
Boring bar bush 8e	★	★	★	★	
Boring bar bush 10e	★	★	★	★	★
Boring bar bush 12e	★	★	★	★	★
Boring bar bush 16e	★	★	★	★	★
Boring bar bush 20e	★	★	★	★	★
Boring bar bush 25e				★	★
Boring bar bush 32e					★
U-drill bush 16e	★	★			
U-drill bush 20e			★	★	
U-drill bush 25e				★	★
U-drill bush 32e					★
Working lamp	★	★	★	★	★
Tool box	★	★	★	★	★
Operation manual	★	★	★	★	★
Programmable hydraulic tailstock quill	★		★	★	★
Hydraulic chuck	★	★	★	★	★
Foot switch	★	★	★	★	★
Chip conveyor & chip cart	▲	▲	▲	▲	▲
Parts catcher	▲	▲	▲	▲	▲
Parts conveyor	▲	▲	▲	▲	▲
Bar feeder & interface	▲	▲	▲	▲	▲
Parts counter	▲	▲	▲	▲	▲
Auto power off	▲	▲	▲	▲	▲
Air blow	▲	▲	▲	▲	▲
Auto matic front door	▲	▲	▲	▲	▲
Robot in terface	▲	▲	▲	▲	▲
Tool setter	▲	▲	▲	▲	▲
Collet chuck	▲	▲	▲	▲	▲
Programmable tailstock	▲		▲	▲	▲