WSF WERKZEUGMASCHINEN

SMEC

SL 2000/2500 Y series

Y-AXIS HORIZONTAL TURNING CENTER

SMEC SMEC CO.,LTD.

- 1988 - Started as Samsung Heavy Industries Machine Tools Business
- 1989 - Horizontal and vertical machining center technology partnership with OKK Japan
- 1991 - Turning center and vertical machining center technology partnership with Mori Seiki
- 1996 - 5-sided processing center technology partnership with Toshiba
- 1999 - Spun out from Samsung Aerospace Industries and established SMEC Co., Ltd

Samsung **M**achine Tools **E**ngineering **C**ompany

SL 2000 Y series

SL 2000Y/2000SY(A/B Type)

SL 2500 Y series

SL 2500Y/2500SY/2500LY/2500LSY(A/B Type)

Strongest in class with superb structural design
Simultaneous heavy duty and precision turning

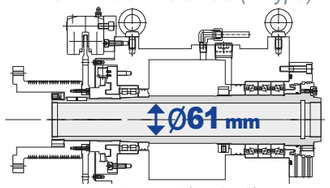
- 30 degree torque tube type bed to support heavy duty turning
- Significantly reduced non-cutting time and efficient turning
- Low-center of gravity reducing vibration, thermal deformation and improving rigidity

High Accuracy, High Rigidity Spindle

SPINDLE & HEADSTOCK

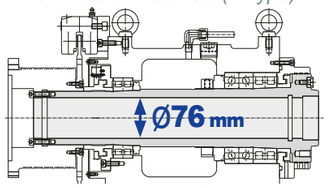
The Spindle and Headstock are machined and ground in temperature controlled environment and assembled in a clean room.

SL 2000 Y Series *(A Type)*



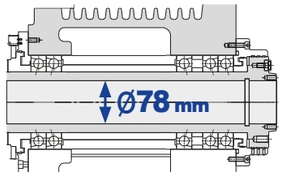
Spindle Speed **(6" Chuck)**
Max **6,000** rpm

SL 2000 Y series *(B Type)*



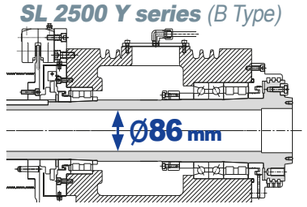
Spindle Speed **(8" Chuck)**
Max **4,500** rpm

SL 2500 Y Series *(A Type)*

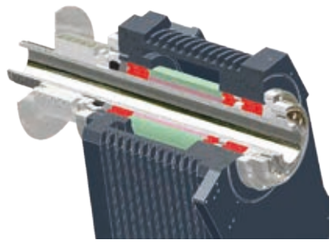


Spindle Speed **(8" Chuck)**
Max **4,500** rpm

SL 2500 Y series *(B Type)*



Spindle Speed **(10" Chuck)**
Max **3,500** rpm



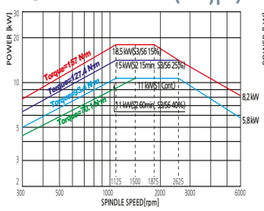
Pin Tube Rib Design for Minimal Thermal Growth

The pin tube rib design of the Headstock ensures minimal thermal growth, and precision (class P4) angular contact ball bearings in the front and rear provides high rigidity for heavy-duty machining and unsurpassed surface finish.

Main-Spindle Power & Torque Diagram

FANUC

SL 2000 Y series (A Type)



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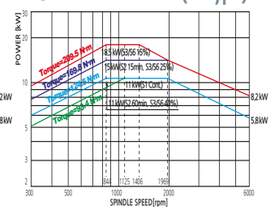
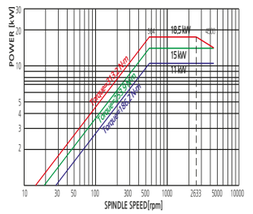


SL 2500 Y series (A Type)



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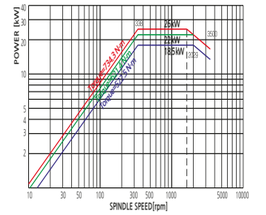
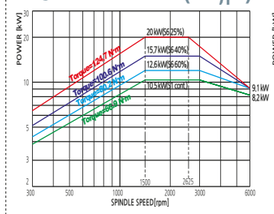
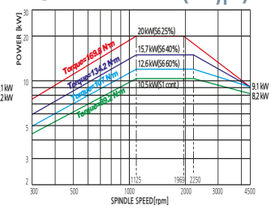


SIEMENS

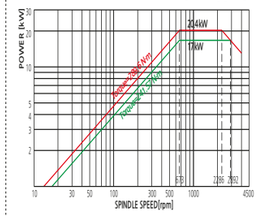
SL 2000 Y series (A Type)



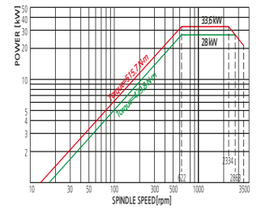
SL 2000 Y series (B Type)



SL 2500 Y series (A Type)



SL 2500 Y series (B Type)



SL 2000/2500 Y series is a heavy-duty, ultra precision Turning Center, combined with SMEC's advanced technological features.

Spindle motor(Cont./Max) / kW

Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type	11/18.5	11/18.5	11/18.5	11/18.5	11/18.5	11/18.5
B Type	11/18.5	11/18.5	18.5/26	18.5/26	18.5/26	18.5/26

Spindle speed(Main) / rpm

Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type	6,000	6,000	4,500	4,500	4,500	4,500
B Type	4,500	4,500	3,500	3,500	3,500	3,500

Spindle speed(Sub) / rpm [ ] : option

Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type	-	6,000	-	6,000	-	6,000
B Type	-	6,000	-	6,000[4,500]	-	6,000[4,500]

Rapid traverse(X/Y/Z/B) / m/min

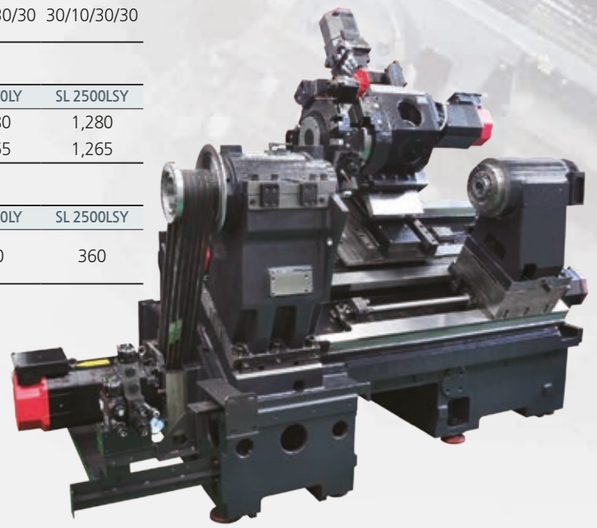
Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type B Type	24/10/30/24	24/10/30/24	18/12/24/24	18/12/24/24	30/10/30/30	30/10/30/30

Max. turning length / mm

Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type	490	490	490	490	1,280	1,280
B Type	450	450	476	476	1,265	1,265

Max. turning diameter / mm

Model	SL 2000Y	SL 2000SY	SL 2500Y	SL 2500SY	SL 2500LY	SL 2500LSY
A Type B Type	395	395	360	360	360	360



Highly Reliable and Rigid Structural Design

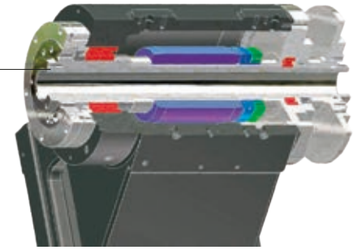
·One piece Meehanite casting with heavily ribbed torque tube design
·Rigid bed supports for powerful cutting
·Excellent vibration dampening and thermal displacement design

High Accuracy, High Rigidity ***Sub-Spindle***

Built-in Sub-Spindle Motor

The sub-spindle with full C-axis allows milling, drilling and tapping on the back side of parts, and a powerful 7.5kW Fanuc built-in motor provides fast acceleration with high torque (52N.m)

Precision angular contact ball bearings located in the front and double row cylindrical roller bearings in the rear of the sub-spindle ensure heavy-duty cutting as well as unsurpassed surface finish.



Sub-Spindle Power & Torque Diagram

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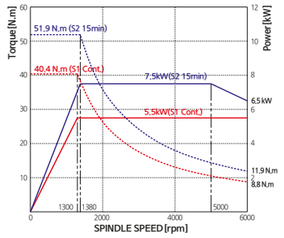
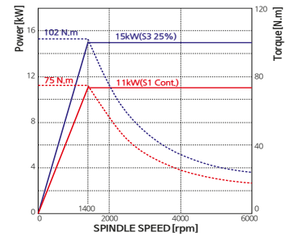
SL 2000SY/2500SY/LSY (STD.)

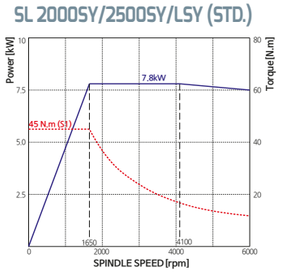


SL 2500SY/LSY (OPT.) B Type only

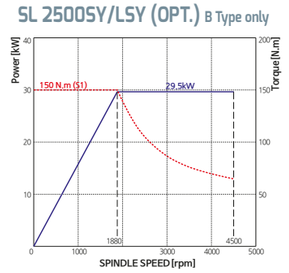


SIEMENS

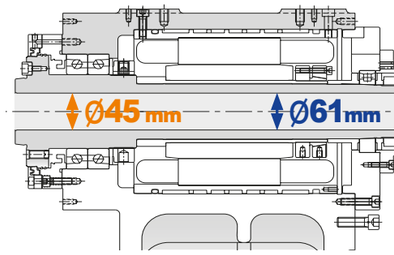
SL 2000SY/2500SY/LSY (STD.)



SL 2500SY/LSY (OPT.) B Type only



Sub-Spindle & Headstock

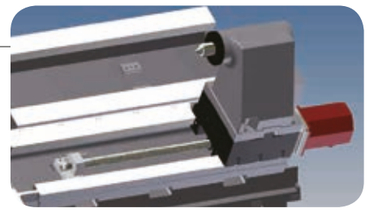


Spindle Speed (6" Chuck)
Max 6,000 rpm
SL 2000SY/2500SY/2500LSY

Spindle Speed (8" Chuck)
Max 4,500 rpm
SL 2500SY/LSY (OPT.) **B Type only**

Servo Tailstock Interface

Tailstock positioning and quill thrust force are simple to set up using the specially designed servo tailstock interface.
The high speed servo driven tailstock offers high speed high precision positioning and digitally controlled thrust force settings. Quill thrust force can be set according to part length & diameter. This results in reduced down time and increased manufacturing efficiency.



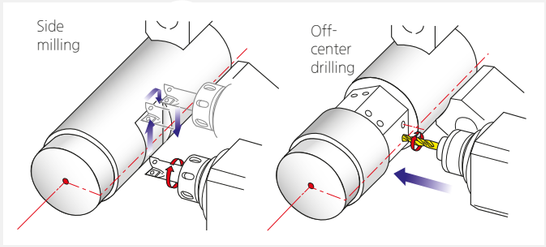
Swivel Operation Panel

Swivel operation panel of 10.4 inch color TFT LCD monitor can turn to 81 degree, providing operators with easy access to the control panel while working on the machine.

Y-Axis Machining

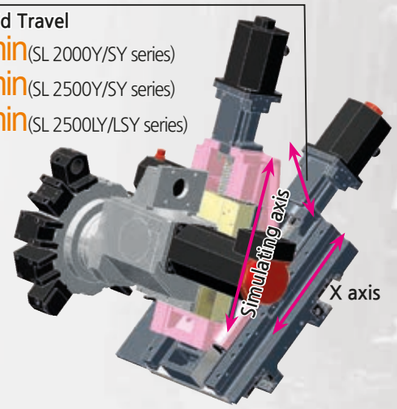
Y-axis adds integrated machining feature to a conventional turning center, providing machining capability on the workpiece that is not parallel or perpendicular to the spindle center line.

Bar machining with Y-axis control



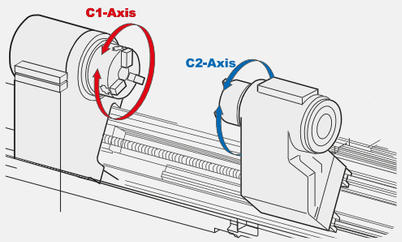
Y axis Travel
± 52.5 mm(SL 2000SY/Y series)
± 50 mm(SL 2500LSY/LY/SY/Y series)

Y axis Rapid Travel
10 m/min(SL 2000Y/SY series)
12 m/min(SL 2500Y/SY series)
10 m/min(SL 2500LY/LSY series)



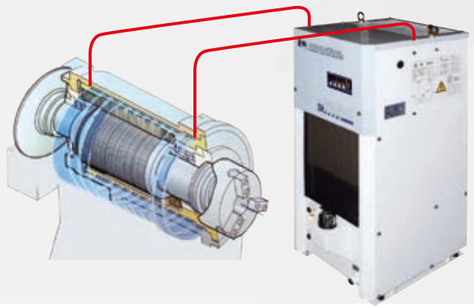
Synchronized C1 and C2-Axis Indexing

Synchronized C1-axis(main spindle) and C2-axis(sub-spindle) indexing provides machining flexibility in a wide variety of workpiece configurations. From simple turning and milling to multi-axis simultaneous machining, all operations can be completed in one set-up.



Sub-Spindle Oil Cooling Unit

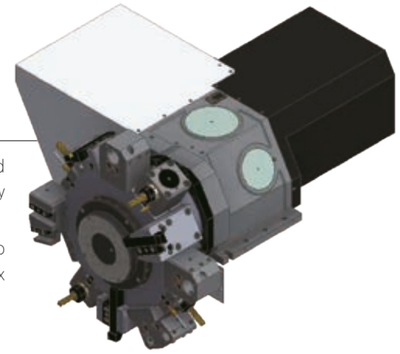
Sup-spindle is surrounded by an oil jacket cooling system to minimize thermal displacement and to ensure machining accuracy regardless of different machining conditions.



Fast Indexing and Heavy-Duty Turret Design

The 12 station heavy-duty turret features a large diameter 3-piece Curvic coupling and 4,735kgf(35kgf/㎠) of hydraulic clamp force. The heavy-duty design provides high rigidity for heavy cutting, unsurpassed surface finishes and long tool life.

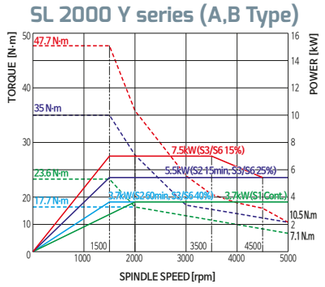
Turret rotation, deceleration and clamp are all controlled by a reliable high torque servo motor. Turret indexing is non-stop bi-directional with a 0.15 second next station index time. Each turret station is capable of accepting both milling and turning tools.



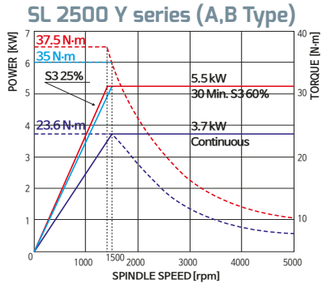
Turret Torque Diagram

FANUC

SL 2000 Y series (A,B Type)

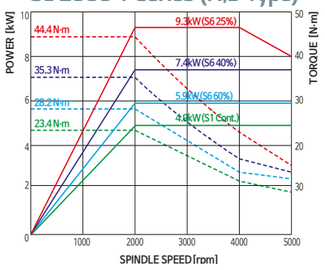


SL 2500 Y series (A,B Type)

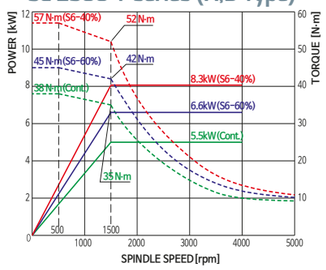


SIEMENS

SL 2000 Y series (A,B Type)

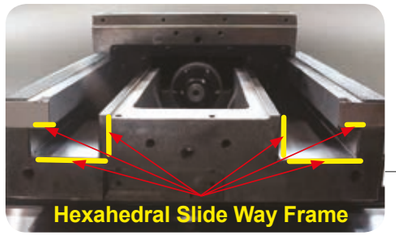


SL 2500 Y series (A,B Type)

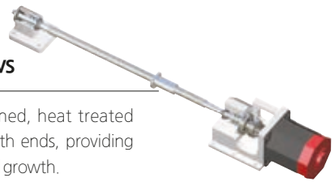


Rigid 30 degree Slant Bed

30 degree slant torque tube design bed and wide guide slide way ensure long term rigidity and machining accuracy.



Pre-tensioned and Double Anchored Ballscrews



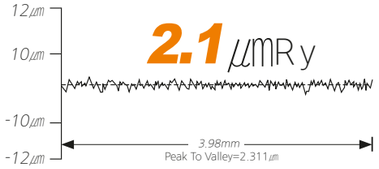
All axes ballscrews are pre-tensioned, heat treated and fixed by double anchors on both ends, providing ultimate rigidity and minimal thermal growth.

Hexahedral Slide Way Frame (X-axis)

Wide integral way is machined from the casting, induction hardened and precision ground to ensure long-term rigidity, machining accuracy and heavy-duty machining.

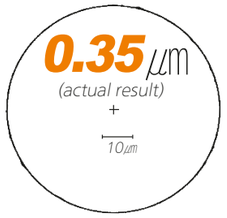
High Precision

Surface Roughness



Model : SL 2500ASY

Roundness

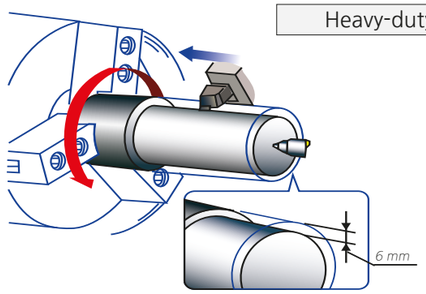


Cutting condition	
Tool	Diamond tool <nose radius 0.020 inch>
Material	AL150<Aluminum>
Cutting speed	230 m/min
Feedrate	0.05 mm/rev
Depth of cut	0.1 mm
Outer diameter	200 mm
Filter	1-50

Processing Speed

Turning Performance (material:SM45C) SL 2500SY

Heavy-duty cutting (O.D) <25mm×25mm qualified tool>



Spindle speed
518 rpm
Cutting speed
120m/min
Depth of cut
6 mm **<Spindle Load 40%>**
Feedrate
0.3 mm/rev

Standard Accessories

- 6" hollow 3 jaws chuck (SL 2000Y/SY A Type main, SL 2000SY A/B Type sub, SL 2500SY/LSY A/B Type sub)
- 8" hollow 3 jaws chuck (SL 2000Y/SY B Type main, SL 2500Y/SY/LSY A Type main)
- 10" hollow 3 jaws chuck (SL 2500Y/SY/LSY B Type main)
- Chuck clamp confirmation
- Chuck clamp foot switch
- Chuck pressure switch
- Coolant system
- Door interlock
- Full splash guard with coolant tank
- Jaw (soft 3set, hard 1set)
- Leveling unit
- Manual/Part list (1set)
- Oil cooler (for sub spindle) *only SL 2000SY/2500SY/LSY series
- Patrol lamp (3colors)
- Safety precaution name plate
- Spindle orientation
- Tailstock (digital servo) *only SL 2000Y/2500Y series
- Tool box
- Tool holders
- Work light (LED lamp)

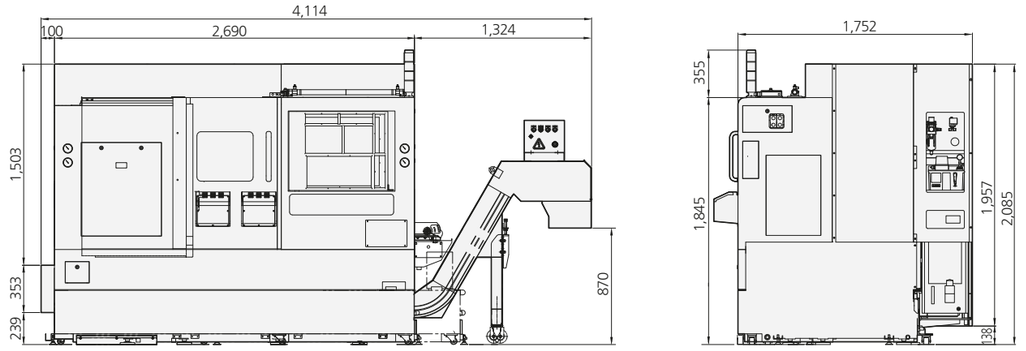
Optional Accessories

- 8" hollow 3 jaws chuck (SL 2500SY/LSY B Type sub)
- Air blower
- Air conditioners (electric cabinet)
- Air gun
- Auto door
- Bar Feeder Interface
- Chip bucket
- Chip conveyor
- Coolant gun
- Counter (total, multi, tool, work)
- Dual pressure chucking
- Oil mist collector
- Oil skimmer
- Robot interface
- Special chuck
- Steady rest
- Tool presetter (manual/auto)
- Transformer

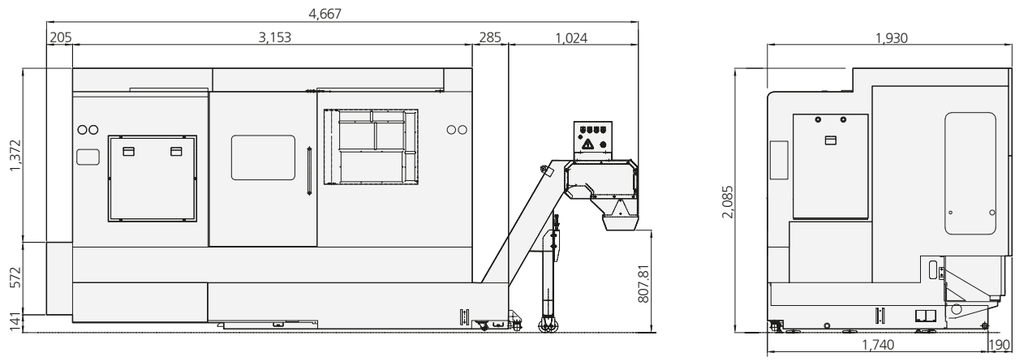
Machine Dimensions

Unit : mm

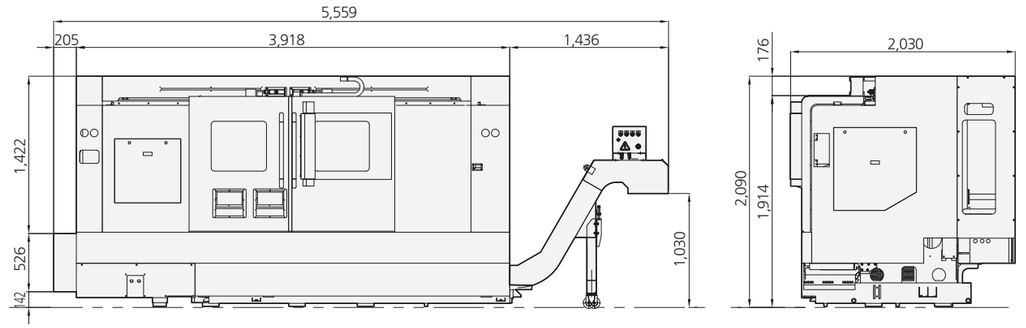
SL 2000SY/Y series



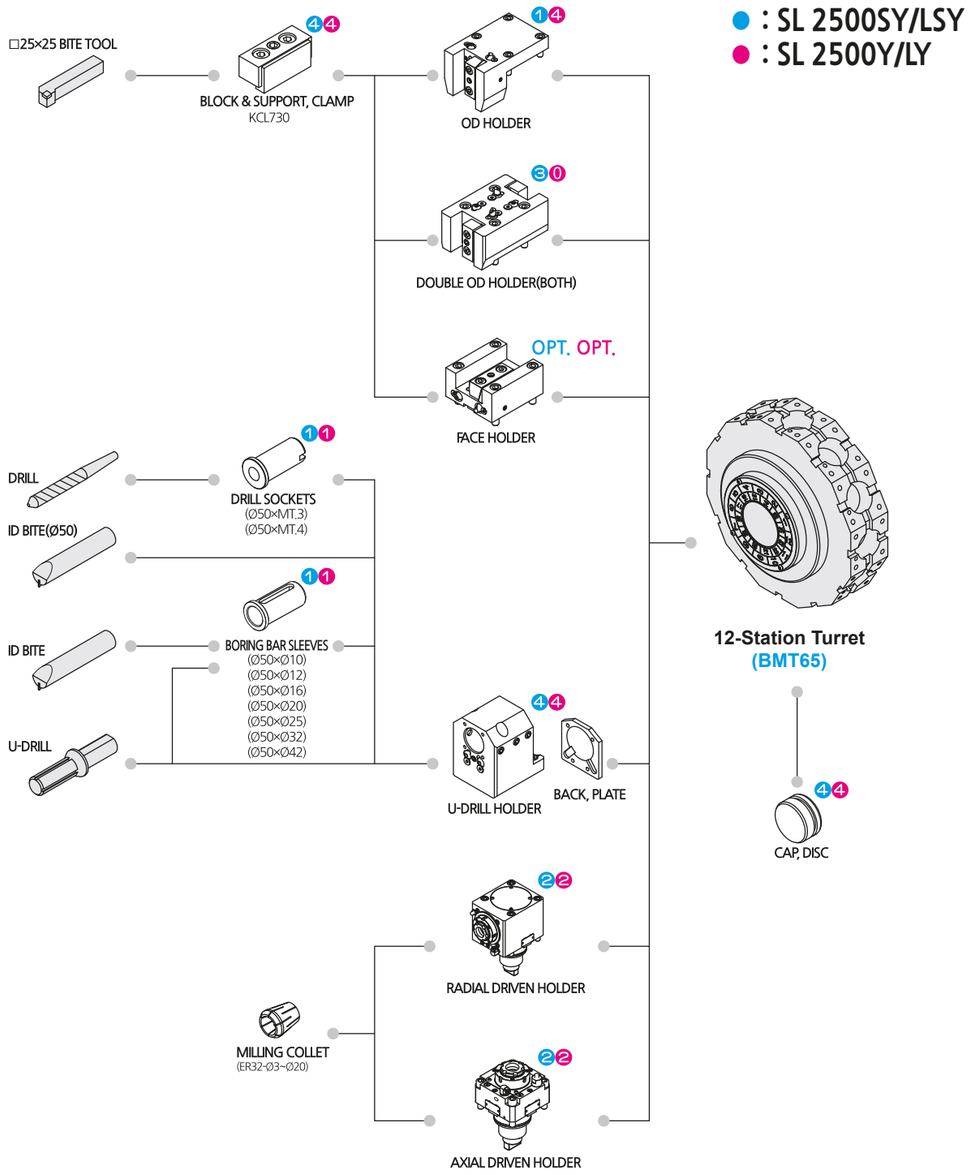
SL 2500SY/Y series



SL 2500LSY/LY series



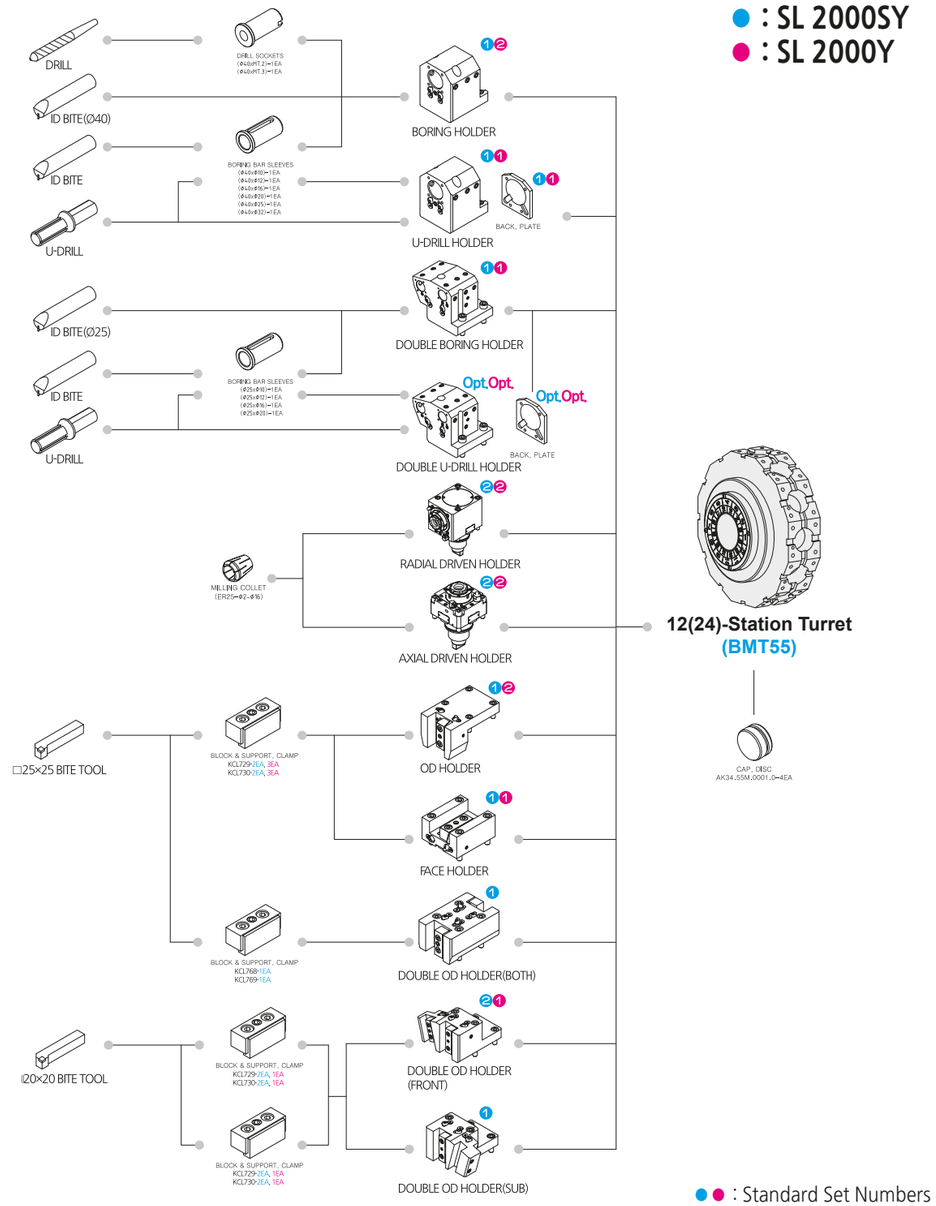
Tooling System



● : SL 2500SY/LSY
● : SL 2500Y/LY

●● : Standard Set Numbers

Tooling System



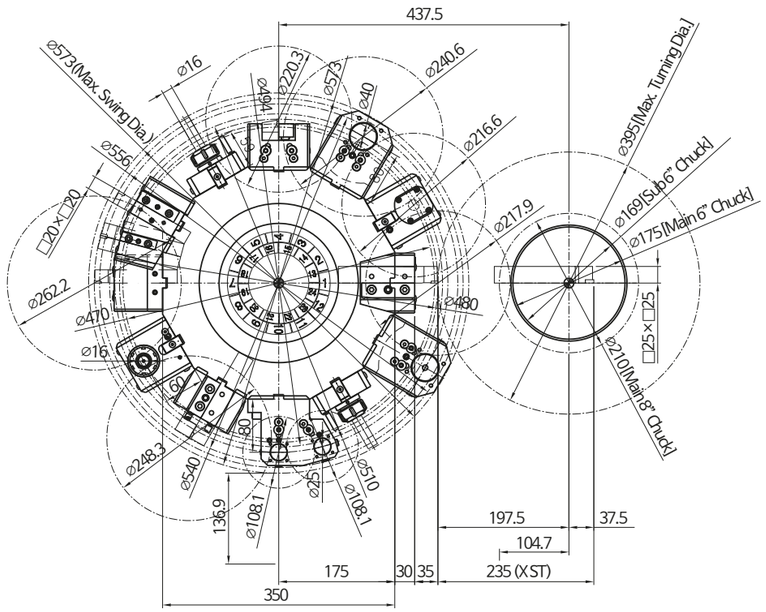
● : SL 2000SY
● : SL 2000Y

●● : Standard Set Numbers

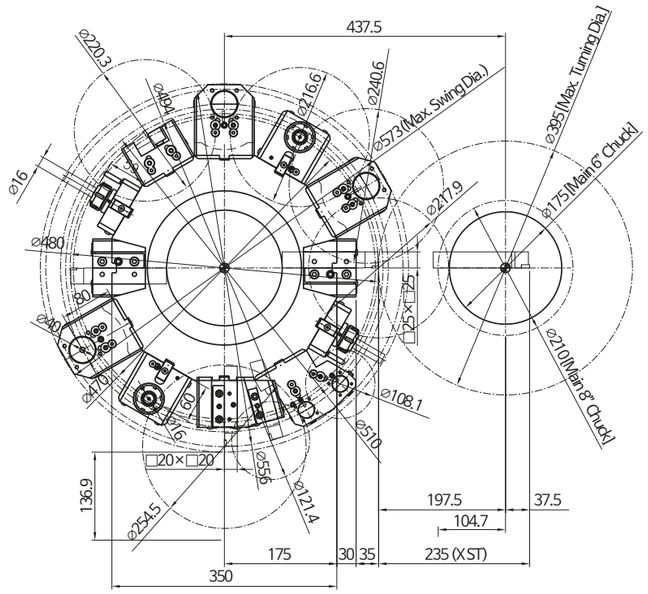
Turret Head Interference

Unit : mm

SL 2000SY



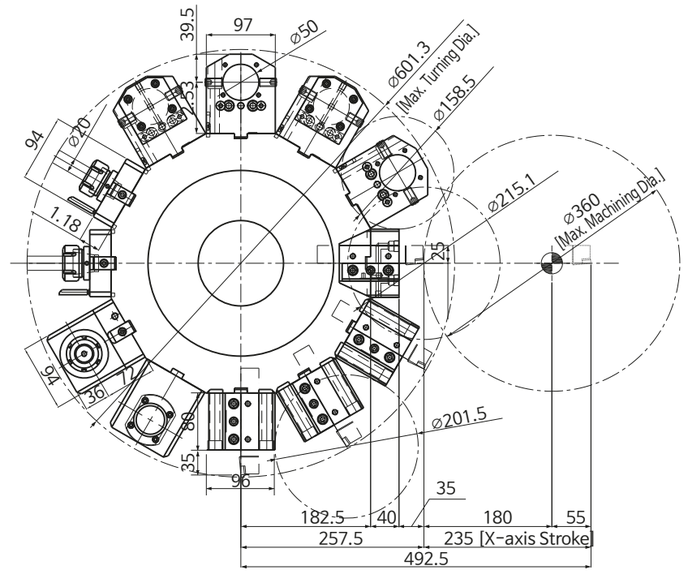
SL 2000Y



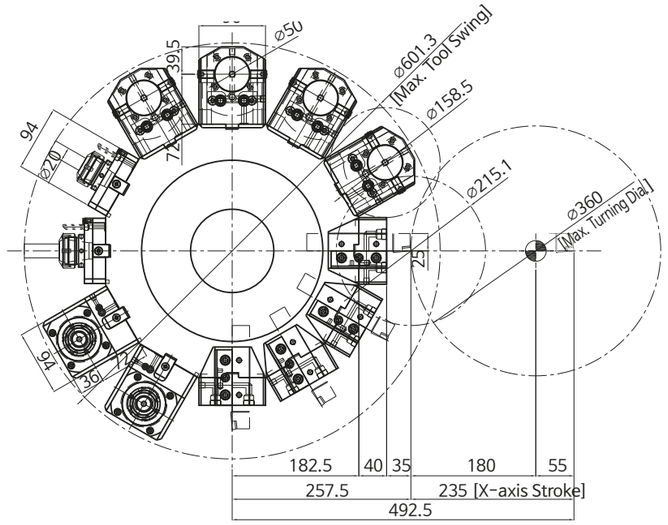
Turret Head Interference

Unit : mm

SL 2500SY/ LSY



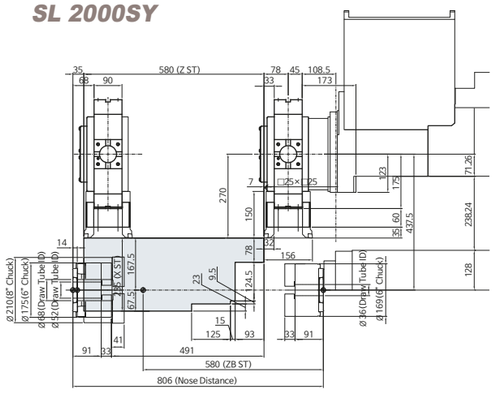
SL 2500Y/LY



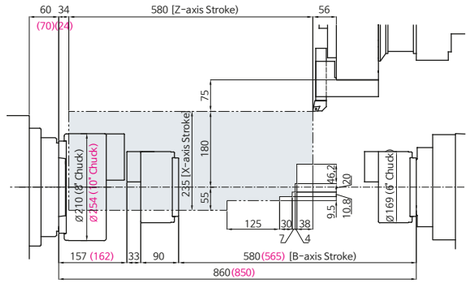
Work Range

Unit : mm

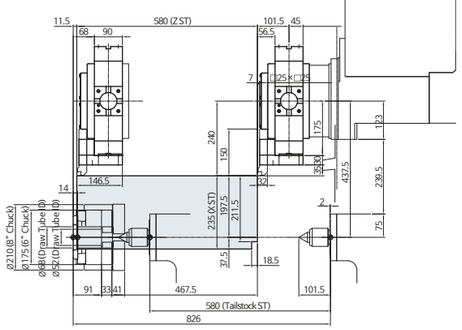
SL 2000SY



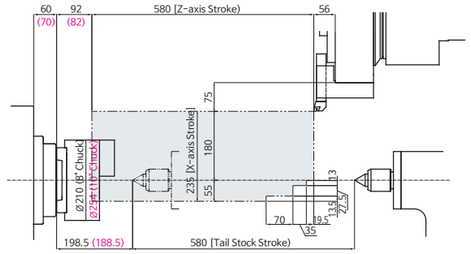
SL 2500SY(A/B Type)



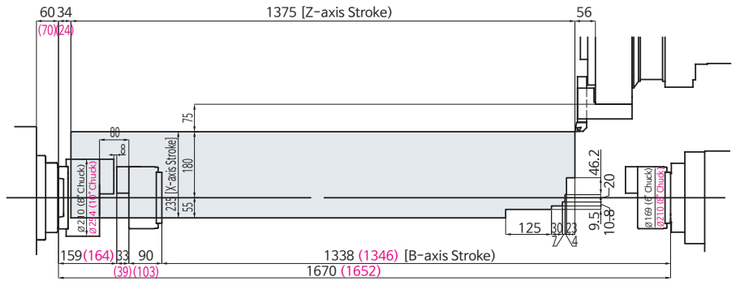
SL 2000Y



SL 2500Y(A/B Type)



SL 2500LSY(A/B Type)



Major Specifications

DESCRIPTION			SL 2000Y		SL 2000SY	
			A type	B type	A type	B type
Chuck	Chuck size (Main/Sub)	inch	6"/—	8"/—	6"/6"	8"/6"
Capacity	Swing over bed	mm	650	650	650	650
	Swing over cross slide	mm	540	540	540	540
	Max. turning diameter	mm	395	395	395	395
	Max. milling diameter	mm	310	310	310	310
	Max. machining length	mm	490	450	490	450
Spindle	Spindle speed (Main/Sub)	rpm	6,000/—	4,500/—	6,000/6,000	4,500/6,000
	Spindle nose (Main/Sub)	ASA	A2-5/—	A2-6/—	A2-5/A2-5	A2-6/A2-5
	Draw tube ID	mm	52	68	52	68
	Spindle bore diameter	mm	61	76	61	76
	Main spindle motor (Cont./Max)	kW	11/18.5 | 10.5/20	11/18.5 | 10.5/20	11/18.5 | 10.5/20	11/18.5 | 10.5/20
	Sub spindle motor (Cont./Max)	kW	-	-	5.5/7.5 | 7.8/7.8	5.5/7.5 | 7.8/7.8
Travels	X-axis travel	mm	235	235	235	235
	Y-axis travel	mm	105 (±52.5)	105 (±52.5)	105 (±52.5)	105 (±52.5)
	Z-axis travel	mm	580	580	580	580
	ZB-axis travel	mm	580	580	580	580
	X-axis Rapid traverse rate	m/min	24	24	24	24
	Y-axis Rapid traverse rate	m/min	10	10	10	10
	Z-axis Rapid traverse rate	m/min	30	30	30	30
	ZB-axis Rapid traverse rate	m/min	24	24	24	24
Turret	Number of tool stations	ea	12[24] (BMT55)	12[24] (BMT55)	12[24] (BMT55)	12[24] (BMT55)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	40	40	40	40
	Turret index time(next station swivel time)	sec	0.15	0.15	0.15	0.15
	Rotary tool speed	rpm	5,000	5,000	5,000	5,000
	Rotary tool motor (Cont./Max)	kW	3.7/5.5 | 4.9/9.3	3.7/5.5 | 4.9/9.3	3.7/5.5 | 4.9/9.3	3.7/5.5 | 4.9/9.3
Tailstock	Quill diameter	mm	-	-	-	-
	Quill stroke	mm	-	-	-	-
	Spindle taper	MT	MT5 (Servo motor)	MT5 (Servo motor)	-	-
Machine	Size (with Side Chip conveyor) L×W×H	mm	2,790(4,114) × 1,752 × 2,085		2,790(4,114) × 1,752 × 2,085	
	Size (with Rear Chip conveyor) L×W×H	mm	-		-	
	weight	kg	3,850	3,900	4,150	4,200
	Coolant tank capacity	Liter	170	170	170	170
ELECTRIC POWER SUPPLY		kVA/V	43/220	45/220	55/220	58[66]/220
CONTROLLER			FANUC, SIEMENS			

※Design and specifications subject to change without notice.

• [ ] : Option

Major Specifications

DESCRIPTION			SL 2500Y		SL 2500SY	
			A type	B type	A type	B type
Chuck	Chuck size (Main/Sub)	inch	8"/—	10"/—	8"/6"	10"/6[8]"
Capacity	Swing over bed	mm	650	650	650	650
	Swing over cross slide	mm	540	540	540	540
	Max. turning diameter	mm	360	360	360	360
	Max. milling diameter	mm	374	374	374	374
	Max. machining length	mm	490	476	490	476
Spindle	Spindle speed (Main/Sub)	rpm	4,500/—	3,500/—	4,500/6,000	3,500/6,000[4,500]
	Spindle nose (Main/Sub)	ASA	A2-6/—	A2-8/—	A2-6/A2-5	A2-8/A2-5[A2-6]
	Draw tube ID	mm	68	77	68/36	77/36[52]
	Spindle bore diameter	mm	78	86	78/45	86/45[61]
	Main spindle motor (Cont./Max)	kW	11/18.5 | 17/20.4	18.5/26 | 28/33.6	11/18.5 | 17/20.4	18.5/26 | 28/33.6
	Sub spindle motor (Cont./Max)	kW	-	-	5.5/7.5 | 7.8/7.8	5.5/7.5 | 7.8/7.8[29.5/29.5]
Travels	X-axis travel	mm	235	235	235	235
	Y-axis travel	mm	100 (±50)	100 (±50)	100 (±50)	100 (±50)
	Z-axis travel	mm	580	580	580	580
	B-axis travel	mm	580	565	580	565
	X-axis Rapid traverse rate	m/min	18	18	18	18
	Y-axis Rapid traverse rate	m/min	12	12	12	12
	Z-axis Rapid traverse rate	m/min	24	24	24	24
	B-axis Rapid traverse rate	m/min	24	24	24	24
Turret	Number of tool stations	ea	12[24] (BMT65)	12[24] (BMT65)	12[24] (BMT65)	12[24] (BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
	Turret index time(next station swivel time)	sec	0.20	0.20	0.20	0.20
	Rotary tool speed	rpm	5,000	5,000	5,000	5,000
	Rotary tool motor (Cont./Max)	kW	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3
Tailstock	Quill diameter	mm	-	-	-	-
	Quill stroke	mm	-	-	-	-
	Spindle taper	MT	MT5 (Servo motor)	MT5 (Servo motor)	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,643(4,667) × 1,930 × 2,085		3,643(4,667) × 1,930 × 2,085	
	Size (with Rear Chip conveyor) LxWxH	mm	3,358 × 2,478(2,820) × 2,085		3,358 × 2,478(2,820) × 2,085	
	weight	kg	5,600	5,800	5,800	6,000
	Coolant tank capacity	Liter	173	173	173	173
ELECTRIC POWER SUPPLY		kVA/V	43/220	55/220	45/220	58[66]/220
CONTROLLER			FANUC, SIEMENS			

※Design and specifications subject to change without notice.

• [ ] : Option

Major Specifications

DESCRIPTION			SL 2500LY		SL 2500LSY	
			A type	B type	A type	B type
Chuck	Chuck size (Main/Sub)	inch	8"/—	10"/—	8"/6"	10"/6[8]"
Capacity	Swing over bed	mm	650	650	650	650
	Swing over cross slide	mm	540	540	540	540
	Max. turning diameter	mm	360	360	360	360
	Max. milling diameter	mm	374	374	374	374
	Max. machining length	mm	1,280	1,265	1,280	1,265
Spindle	Spindle speed (Main/Sub)	rpm	4,500/—	3,500/—	4,500/6,000	3,500/6,000[4,500]
	Spindle nose (Main/Sub)	ASA	A2-6/—	A2-8/—	A2-6/A2-5	A2-8/A2-5[A2-6]
	Draw tube ID (Main/Sub)	mm	68	77	68/36	77/36[52]
	Spindle bore diameter (Main/Sub)	mm	78	86	78/45	86/45[61]
	Main spindle motor (Cont./Max)	kW	11/18.5 | 17/20.4	18.5/26 | 28/33.6	11/18.5 | 17/20.4	18.5/26 | 28/33.6
	Sub spindle motor (Cont./Max)	kW	-	-	5.5/7.5 | 7.8/7.8	5.5/7.5 | 7.8/7.8[29.5/29.5]
Travels	X-axis travel	mm	235	235	235	235
	Y-axis travel	mm	100 (±50)	100 (±50)	100 (±50)	100 (±50)
	Z-axis travel	mm	1,375	1,375	1,375	1,375
	B-axis travel	mm	1,388	1,346	1,388	1,346
	X-axis Rapid traverse rate	m/min	30	30	30	30
	Y-axis Rapid traverse rate	m/min	10	10	10	10
	Z-axis Rapid traverse rate	m/min	30	30	30	30
	B-axis Rapid traverse rate	m/min	30	30	30	30
Turret	Number of tool stations	ea	12[24] (BMT65)	12[24] (BMT65)	12[24] (BMT65)	12[24] (BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
	Turret index time(next station swivel time)	sec	0.15	0.15	0.15	0.15
	Rotary tool speed	rpm	5,000	5,000	5,000	5,000
	Rotary tool motor (Cont./Max)	kW	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3	3.7/5.5 | 5.5/8.3
Tailstock	Quill diameter	mm	-	-	-	-
	Quill stroke	mm	-	-	-	-
	Spindle taper	MT	MT5 (Servo motor)	MT5 (Servo motor)	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	4,123(5,559) × 2,030 × 2,090		4,123(5,559) × 2,030 × 2,090	
	Size (with Rear Chip conveyor) LxWxH	mm	-		-	
	weight	kg	7,400	7,500	7,500	7,600
	Coolant tank capacity	Liter	250	250	250	250
ELECTRIC POWER SUPPLY		kVA/V	43/220	55/220	45/220	66/220
CONTROLLER			FANUC, SIEMENS			

※Design and specifications subject to change without notice.

• [ ] : Option

NC Specifications / Fanuc Series

Item		Description
Controlled axes	Controlled axes	2-axis(X,Z)
	Max. simultaneously controlled axes	Positioning(G00) / Linear Interpolation(G01) Circular Interpolation(G02, G03)
	Least input increment	0.001mm
Spindle function	Spindle speed control	S5 (5 Digit)
	Spindle speed override	50~120%
	Spindle orientation	M19
Feed function	Feedrate override (10% increase)	0~200%
	Dwell	G04
	Reference position return	G27, G28
	Manual pulse generator	0.001/0.01/0.1mm
	Dry run	F0(Fine Feed), 25/50/100%
	Rapid traverse override	F0(Fine Feed), 25/50/100%
Tool function	Tool number command	T2 (2 Digit)
	Tool nose radius compensation	G40 ~ G42
	Tool offset pairs	128EA
	Tool geometry / wear offset	GEOMETRY & WEAR DATA
Programming function	Canned cycle	G70~G72, G74~G76
	Decimal point input	Able to input up to decimal point
	SUB program	4 phase
	Work coordindate system	G52~G59
	Max program dimension	±99999.999mm
Tape Functions	M function	M3 (3 digit)
	Input code	ISO/EIA auto recognition
	I/O interface	RS232C
	Program storage space	1280M(512kb)
	Number of stored programs	400ea
Other features	Display unit / MDI	10.4" color LCD / Soft input type MDI
	Synchronized tapping	Rigid tapping function
	Background editing	Program saving / editing during automatic operation
	Backlash compensation	Pitch error offset compensation for each axis
	Search function	Sequence / program number search
	Safety function	Emergency stop / overtravel
	Program test function	Machine Lock / Single Block
	Control function	Memory / MDI / Manual
	Mirror image	
	Run hour and parts count display	
	Custom macro	#100 ~ #199, #500 ~ #999

NC Specifications / SIEMENS

Item		S828D
Configuration	PPU	PPU290.3
	System software	SW28x
	CNC user memory, up to	10M
	Display size (TFT color displays)	15.6"
Axis functions	Travel to fixed stop	●
	Travel to fixed stop with Force Control	●
	Feedrate override	0%~120%
	Measuring systems 1 and 2, selectable	●
Spindle functions	Spindle override	50%~120%
	Oriented spindle stop	●
	Constant cutting speed	●
	Thread cutting	●
	Tapping with compensating chuck/rigid tapping	●
Tool function	Interpolating axes, up to	4
	Helical interpolation	●
	Straight line, circle, helix	●
	Universal interpolator NURBS	●
Couplings	Generic coupling CP-Comfort	●
Transformations	TRANSMIT/cylinder surface transformation	●
	Inclined axis	Y axis
Measuring functions and measuring cycles	Measuring cycles for drilling/milling and turning	●
	Calibration of workpiece probe, workpiece measurement, tool measurement	●
Technologies	Handwheel override	x1, x10, x100
CNC programming language	Programming language DIN 66025 and high-level language expansion	●
	Subprogram levels/interrupt routines, max.	11/4
	Number of levels for skip blocks	2
	Polar coordinates	●
	Predefined user variables	300
	Predefined global user variables	100
	Part programs maximum number	750
	Workpieces maximum number	250
	Online ISO dialect interpreter	●
	Settable offsets, maximum number	100
	Work offsets, programmable (frames)	●
Programming support	ShopTurn machining step programming	●
	Technology cycles for drilling/milling	●
	Residual material detection and machining for contour pockets and stock removal	●
Simulations	Simulation 1 (finished part) in 3D representation	●
	Simultaneous recording	●
Operating modes	Execution from storage medium connected to the front USB interface of the operator panel	●
Tools/tool management	Tool / Magazine list	●
	Number of tools/cutting edges in the tool list, up to	768/1536
	Spare tools	●
	Tool life monitoring	●
Communication and data management	Network drive	Windows Share/FTP
	USB storage medium	●
	RS232C serial interface	●
Operation	Plain text display of user variables	●
	Operating software languages	10(32) languages
	2D representation of the 3D protection/working areas	●
Safety functions	Drive-based Safety Integrated	●
	Extended Safety Integrated functions	●

FANUC

WSF

Fanuc Manual Guide i

Erstellen Sie Ihre Teileprogramme in nur wenigen Schritten

Reduzieren Sie den Zeitaufwand bei der Überführung Ihrer Zeichnungen in die Produktion:
Mit dem FANUC MANUAL GUIDE i lassen sich sowohl einfache als auch hoch komplizierte Maschinenzyklen inklusive Dreh-, Fräs-, Bohr- und Messzyklen schnell und einfach umsetzen. Dabei unterstützt die Software Sie durch intuitive interaktive Benutzerführung sowie spezielle Funktionen zur einfachen Teileprogrammierung und Simulation.

Merkmale:

- Bedienerfreundliche Programmierumgebung
- Erweiterte Zyklusbearbeitung (Drehen und Schleifen)
- Leistungsstarke Profilberechnung
- Nahtloser Umgebungswechsel
- Werkzeugverwaltungsfunktion
- Messzyklen
- Restschnitt
- Bearbeitungssimulationen

Die benutzerfreundliche Software MANUAL GUIDE i zur Fertigungsprogrammierung vereinfacht den Betrieb Ihrer Maschine. Die innovative Programmierung ermöglicht die Entwicklung von der Zeichnung zum Werkstück in kürzester Zeit. Dank MANUAL GUIDE i die CNC-Maschinen von FANUC schnell und einfach für Dreh-, Schleif- und Verbundbearbeitungsprozesse programmiert werden.

Selbsterklärende Menüs und grafische Simulationen führen den Benutzer durch die Programmierung, was selbst bei komplexen Bearbeitungsvorgängen zu hocheffizienten Ergebnissen führt.

Siemens Sinumerik 828D

Mehr Produktivität mit SINUMERIK 828D – Smart Operation

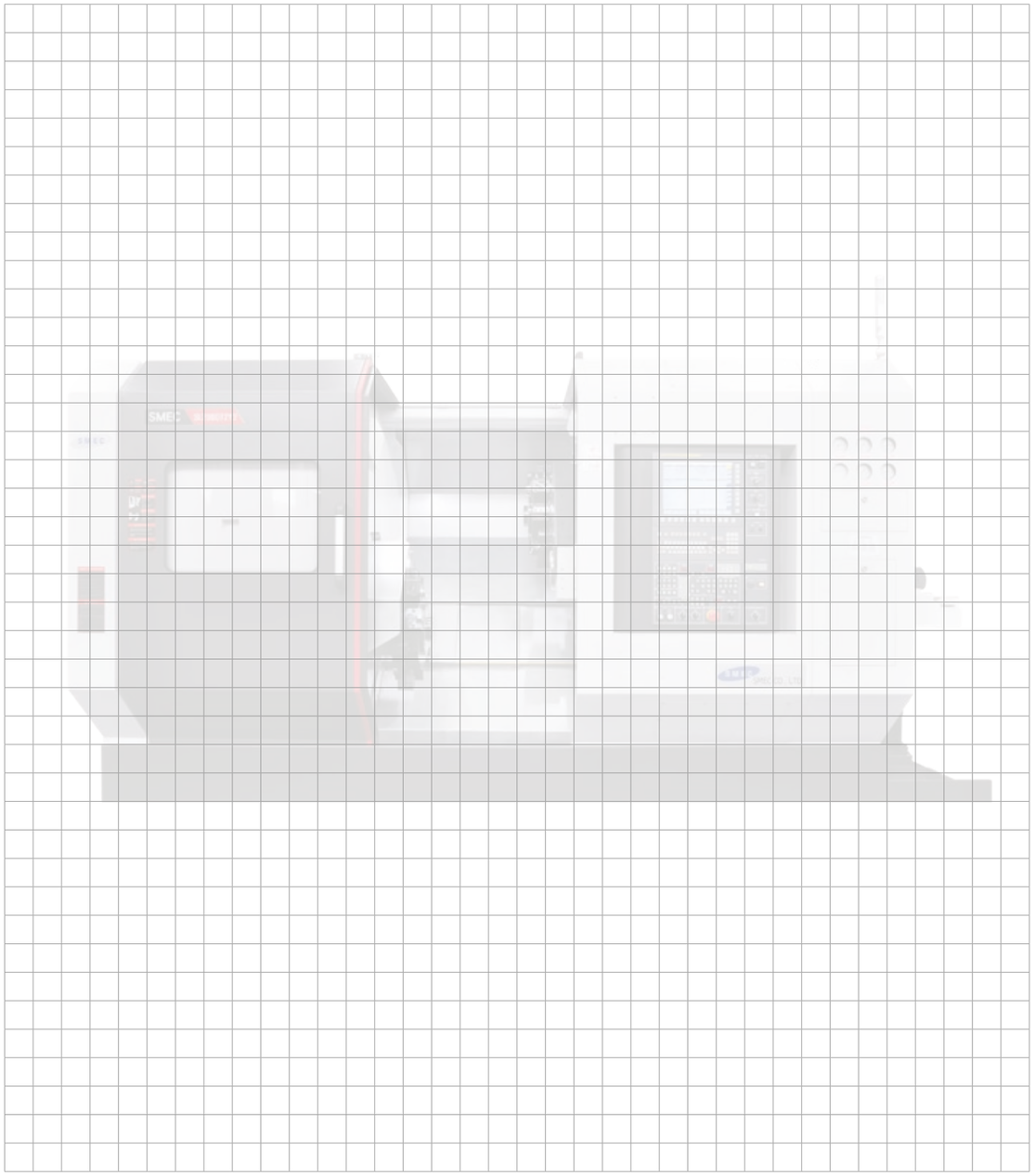
Robuste MultiTouch-Bedienung kombiniert mit SideScreen

Für Werkstatt, Lohnfertigung und Großserienfertigung sind hochproduktive Automatisierungslösungen gefragt, die den Weg in die Digitalisierung begleiten.

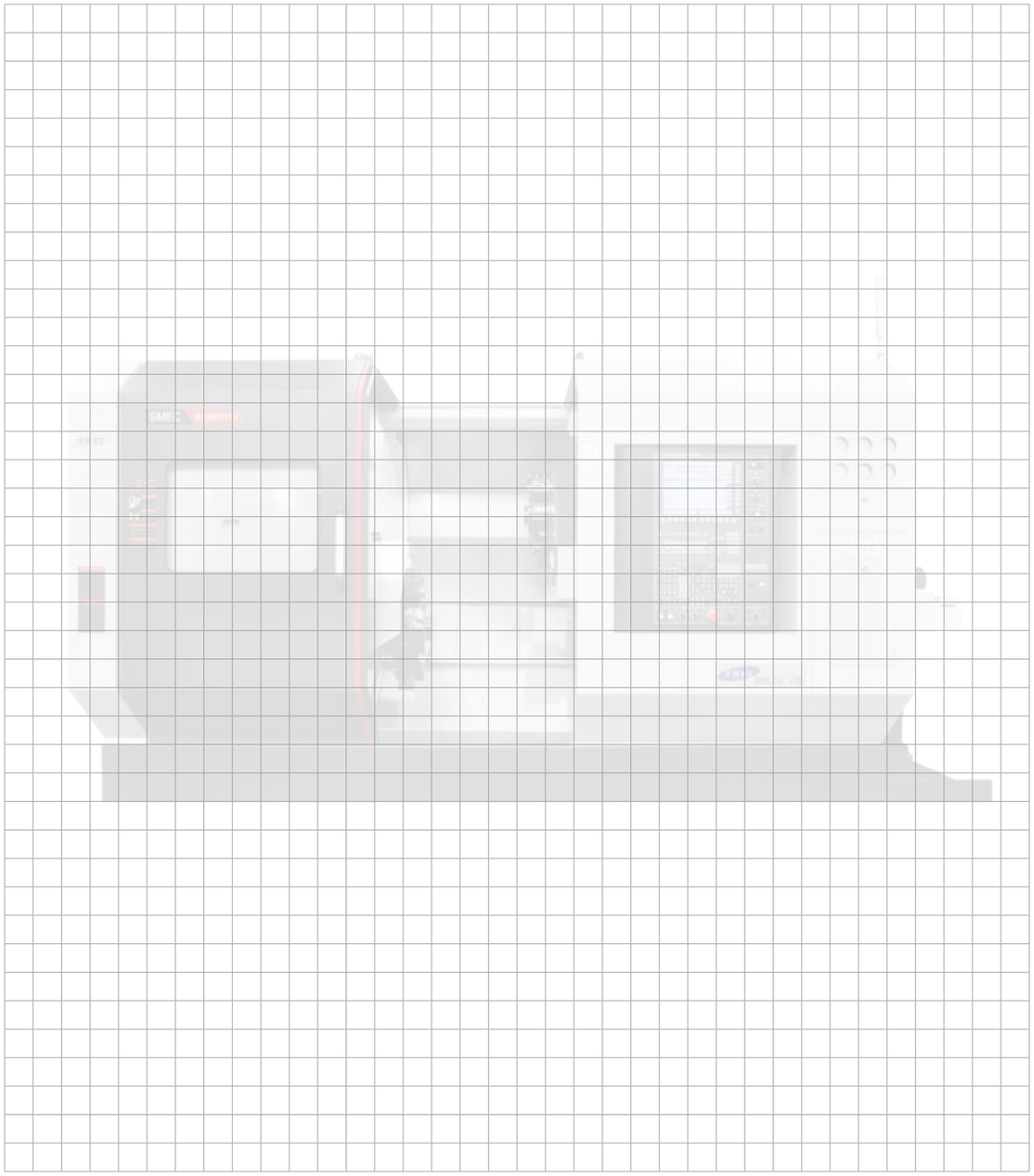
Ob Einzelteil- oder Massenfertigung, einfache oder komplexe Werkstücke – die SINUMERIK CNC-Lösungen bieten Werkzeugmaschinenbetreibern immer die passende Lösung für ihre Anforderungen.

Durch die tägliche Nutzung von mobilen Geräten wie Smartphones, Tablets oder Computern haben wir eine bestimmte Art der Interaktion mit Maschinen entwickelt. Werkzeugmaschinen bilden hier keine Ausnahme mehr.

- Der Trend zu größeren Bildschirmen eröffnet die Möglichkeit, zusätzliche anpassbare Fenster in das HMI einzubinden.
- Änderung des Bildseitenverhältnis von 4:3 in 16:9.
- Zugleich stehen Lösungen bereit, mit denen die Benutzeroberfläche individuell an die Anforderungen der Kunden angepasst werden kann.
- So kann der Maschinenbediener wesentlich mehr Informationen parallel betrachten.



WSF WERKZEUGMASCHINEN Ihr starker Partner in Sachen Werkzeugmaschinen



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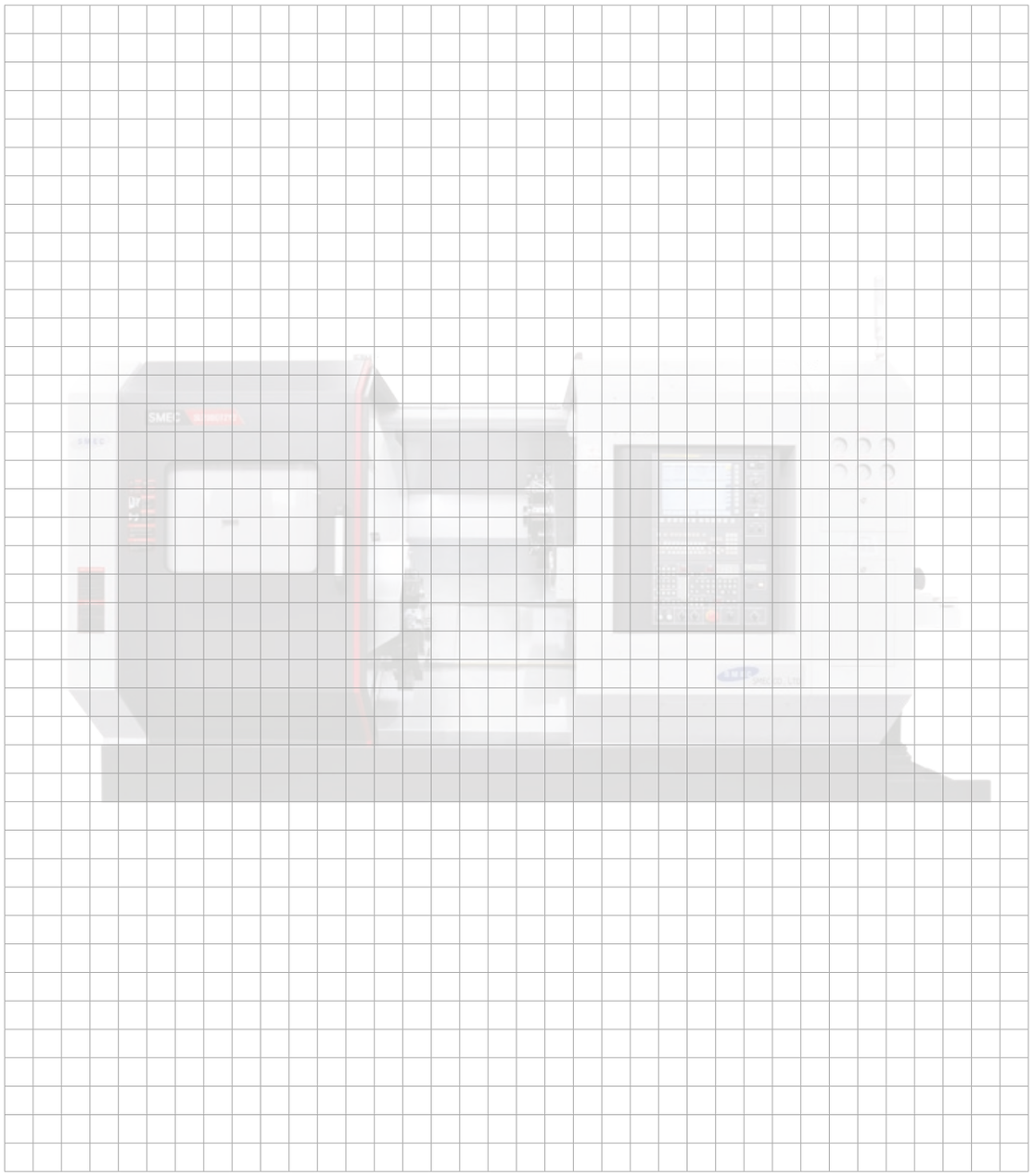

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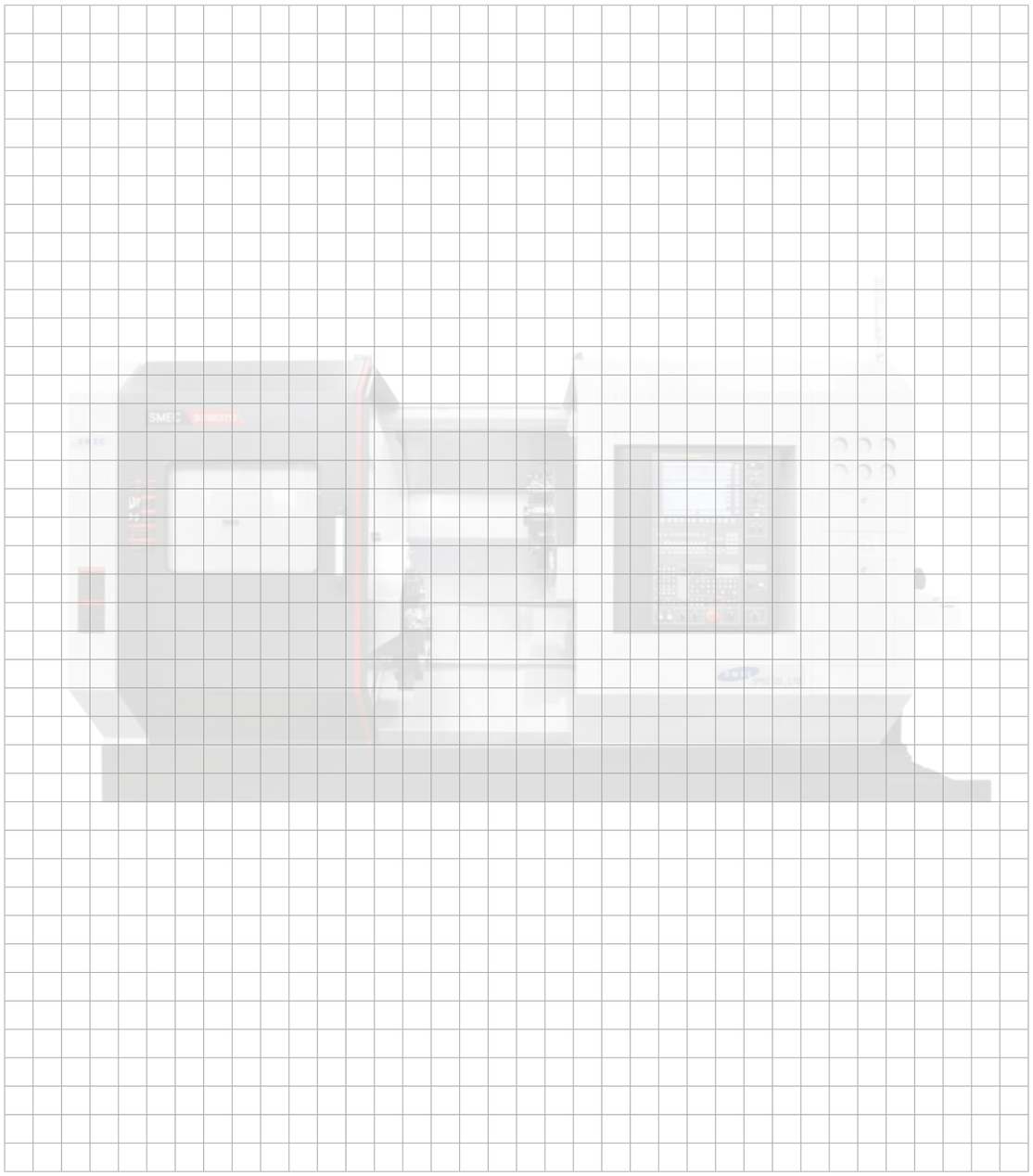

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Gleich einspeichern und **ANGEBOT** sichern!

Tel. 49 (0) 9672 92415-730

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