



WSF WERKZEUGMASCHINEN

SMEC

SLV 800/800M (RH, LH)

VERTICAL TURNING CENTER



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

SMEC **Company**
Engineering
Machine Tools
Samsung

SLV 800/800M

A Type : Chuck Size 18[15]"

B Type : Chuck Size 21"

C Type : Chuck Size 24"

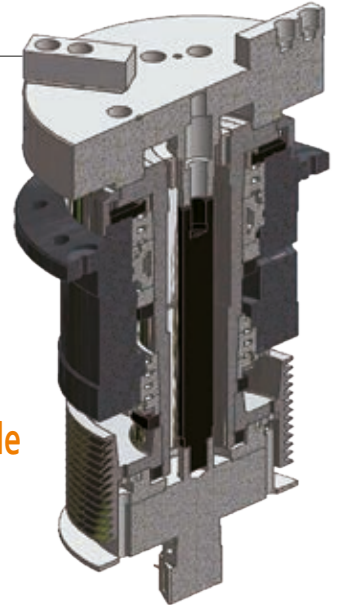
Strongest in class with superb structural design
 Simultaneous heavy duty and precision turning

- High speed, precision and high rigidity spindle
- Stable machine structure
- Significantly reduced non-cutting time and high productivity

High Accuracy, High Rigidity Spindle

Main Spindle Structure

High torque main spindle motor is supported by strong Double Cylindrical Roller bearings and Angular Thrust bearings which allow heavy duty cutting and minimize acceleration/deceleration times.

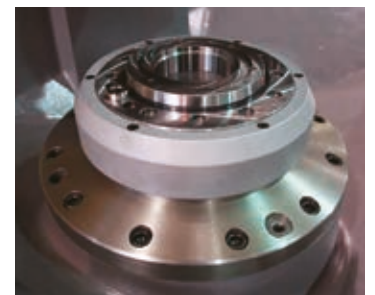


Spindle nose(ASA) : **A2-11**

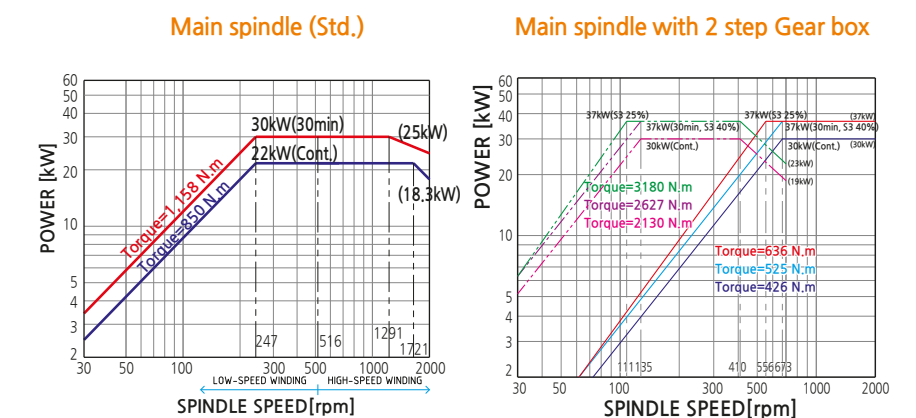
Spindle bearing diameter(front) : **Ø160mm**

A2-11, 15"~24" chuck available

2 Step Gear Box (Opt.)



Spindle Power & Torque Diagram



An innovative high precision, heavy duty CNC Lathe, integrated with all of **SMEC's** advanced technology - **SLV 800/800M**

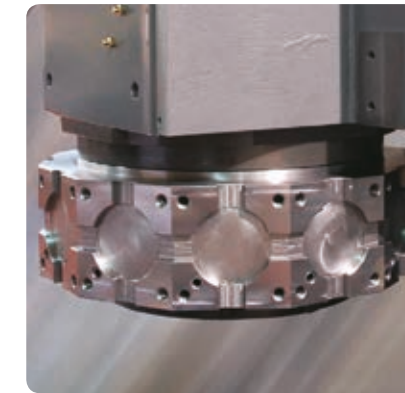


Spindle speed	Max. machining dia.	Max. machining length	Rapid traverse(X/Z)
2,000 rpm (18[15"])	830 mm	800 mm(STD Turret)	20/20 m/min
1,800 rpm (21")		775 mm(MILL Turret)	
1,500 rpm (24")			

Highly Reliable and Rigid Structural Design

Ensure heavy duty and precise cutting with excellent structural design

SLV 800 (Standard Turret)



SLV 800M (Mill Turret)



Indexing Time

0.3 sec(60Hz)

Number of tool positions

12 stations

High Speed, Heavy Duty Servo Turret

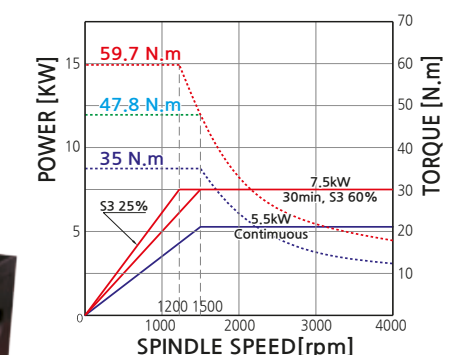
Driven by a reliable high torque servo motor, the 12-station heavy-duty turret indexes nonstop, bi-directionally with a fast 0.3 second from station to station. Large diameter 3 pieces precision Curvic coupling with 8,011 kg-f of turret clamping force enables precision as well as heavy-duty cutting.

SLV 800M is equipped with standard 12-station BMT 75 turret, capable of accepting rotary tools at any station.

CLAMP FORCE [HYD. CLAMPING] [SPRING CLAMPING]	kgf	8,063(TOTAL) [8,011(50kgf/cm ²) [52]
---	-----	--



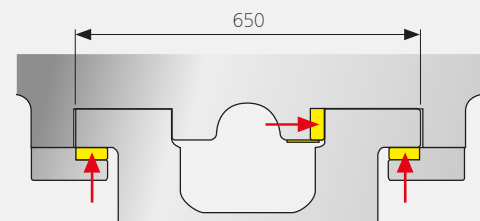
Milling Motor Torque Diagram





Main Body Construction

The main body of SLV 800/800M is consisted of one piece meehanite cast iron bed, wide column, anti-heat displacement spindle and headstock, and integral Box way construction with anti-friction mating way surfaces that ensure unsurpassed long term rigidity and superior accuracy.



Three(3) adjustable Gibs on X and Z axis provide easier maintenance as well as long term rigidity and accuracy

Column Span : The largest in its class
650mm



Easy Chip Removal and High Volume Coolant System.

Large volume of flushing coolant allows minimal chip build-up, and slanted splash guard design effectively removes the chip out from the machine.

Coolant Pump
Motor Discharge Capacity
1.1 kW 30 L/min

BED Shower Coolant
Motor Discharge Capacity
1.1 kW 165 L/min



Swivel Operation Panel

Swivel operation panel of 10.4 inch color TFT LCD monitor can turn to 90 degree, providing operators with easy access to the control panel while working on the machine.

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.



Reliable Lubrication Dispenser

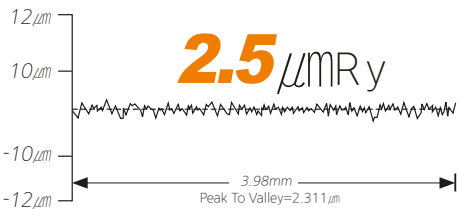
Lubrication pump adopted LUBE which is one of the most reliable brand and offers exact amount of oil on each face.

·Capacity : **3 Liter**
·Pressure : **1.5 Mpa**



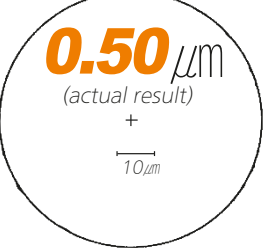
High Precision

Surface Roughness



Model : SLV 800V

Roundness

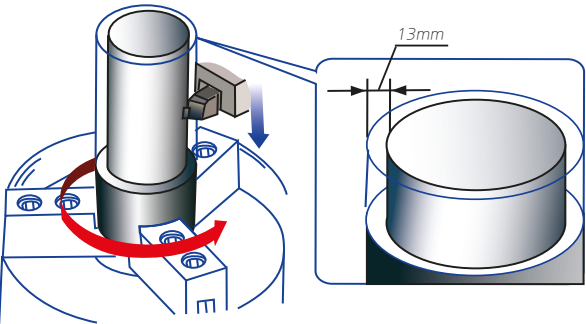


Cutting condition	
Tool	Diamond tool <nose radius 0.020 inch>
Material	AL150<Aluminum>
Cutting speed	198 m/min
Feedrate	0.05 mm/rev
Depth of cut	0.1 mm
Outer diameter	200 mm
Filter	1-50

Processing Speed

Turning Performance (material:SM45C) PL800

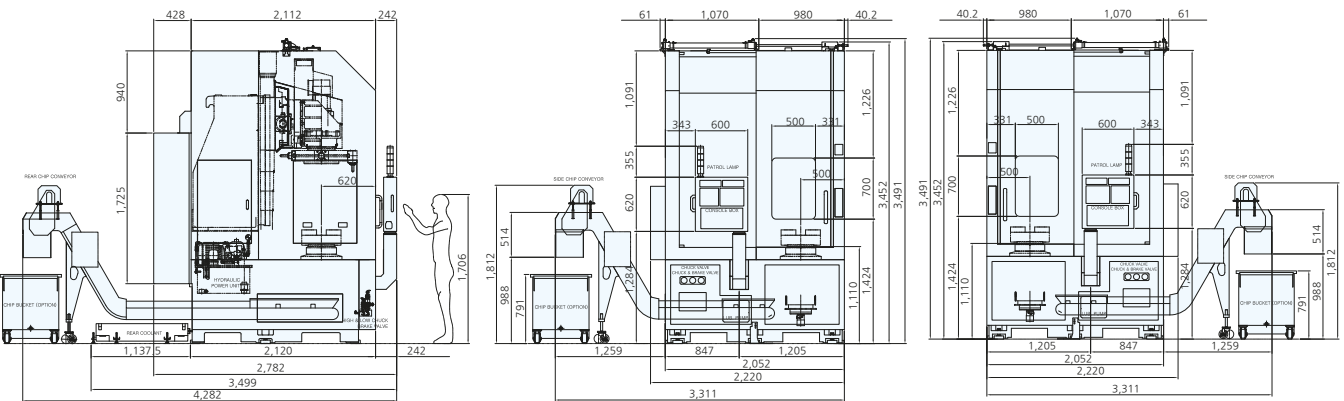
Heavy-duty cutting (O.D) <32mm×32mm qualified tool>



Spindle speed
357 rpm
Cutting speed
142 m/min
Depth of cut
13 mm <Spindle Load 65%>
Feedrate
0.3 mm/rev

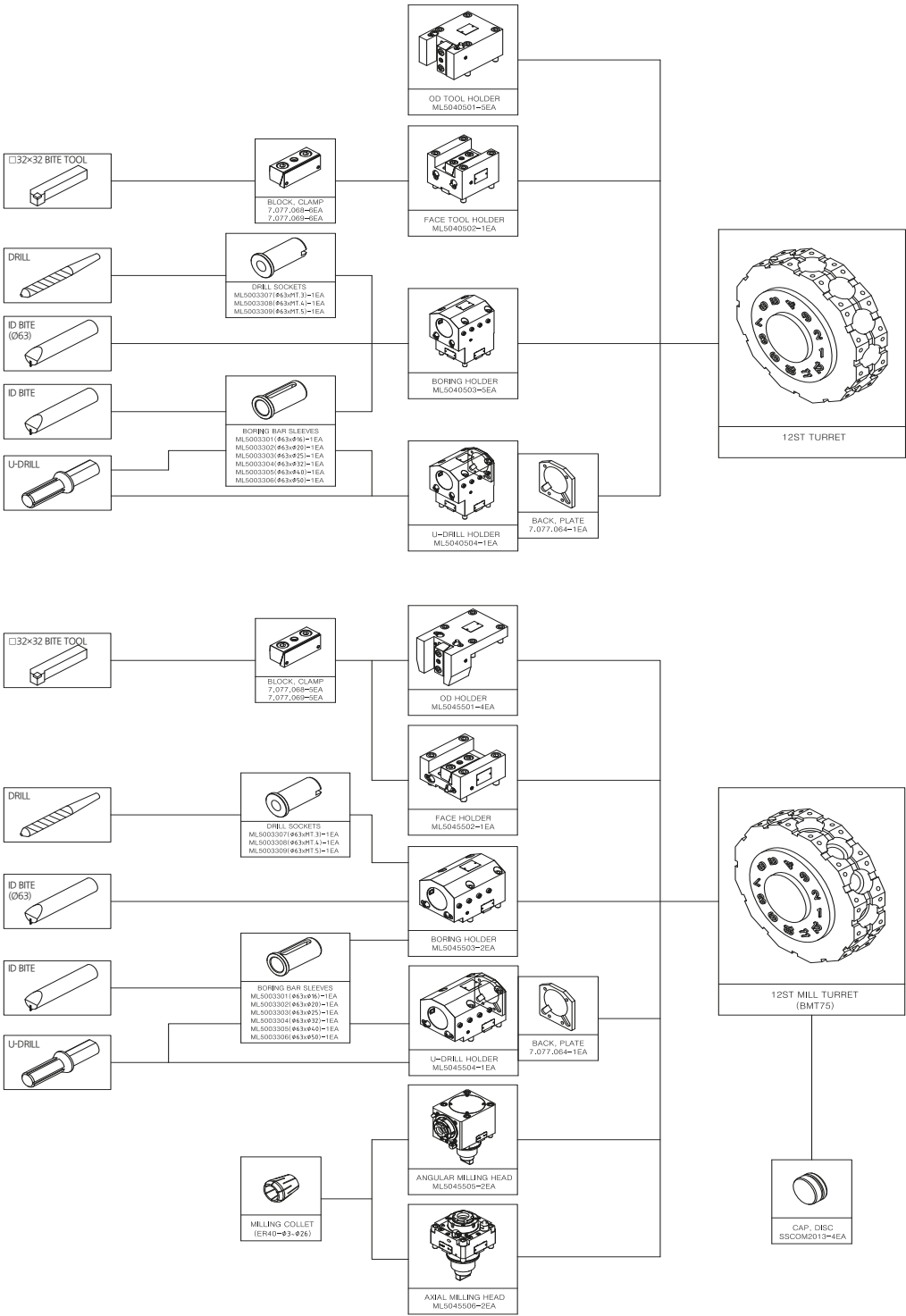
Machine Dimensions

Unit : mm



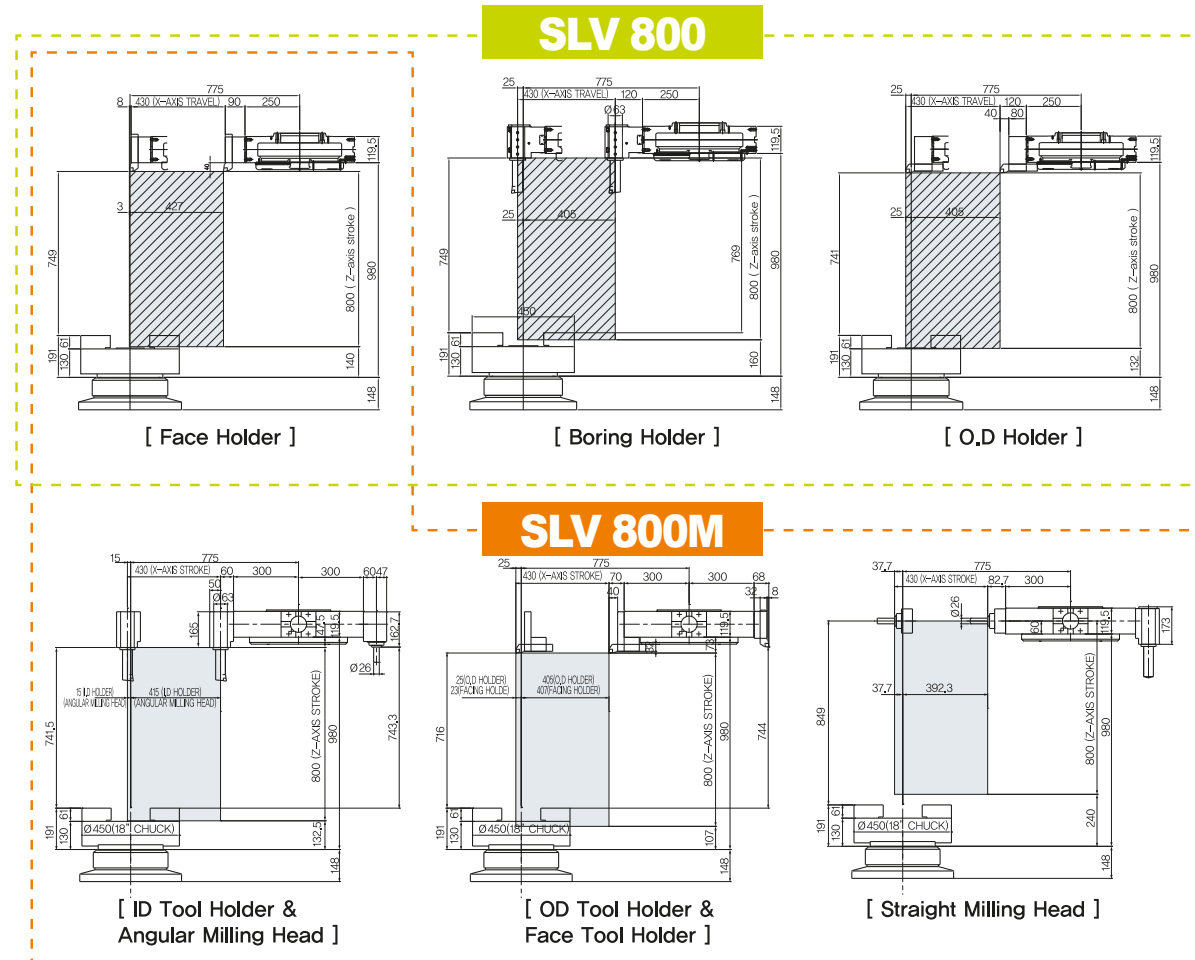
Tool Holders & Sleeves

Unit : mm



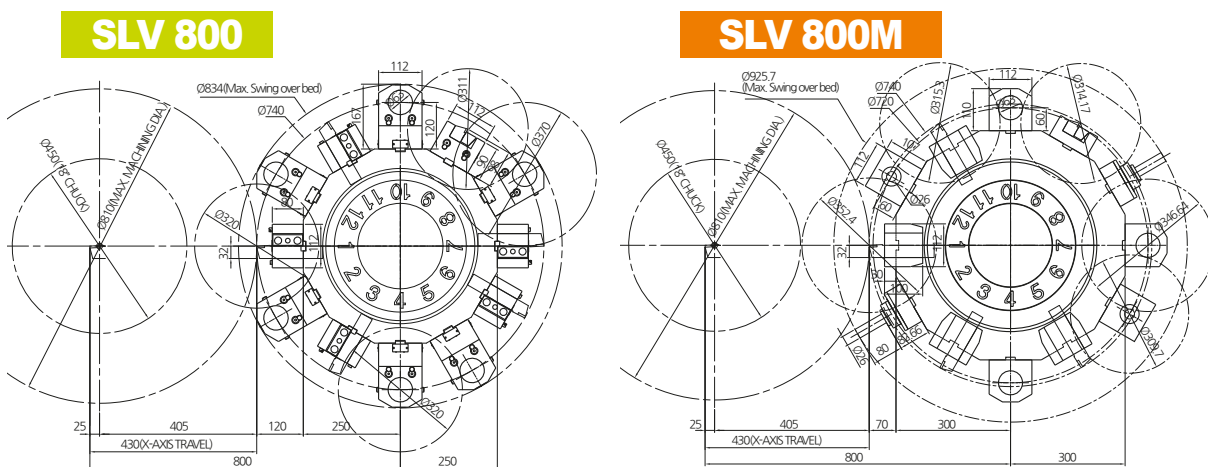
Work Range

Unit : mm



Turret Head Interference

Unit : mm



Major Specifications

DESCRIPTION			SLV 800 RH/LH			SLV 800M RH/LH		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	18[15]"	21"	24"	18[15]"	21"	24"
Capacity	Swing over bed	mm	890	890	890	890	890	890
	Swing over cross slide (with Tailstock)	mm	740	740	740	740	740	740
	Max. turning diameter	mm	830	830	830	830	830	830
	Max. milling diameter	mm	-	-	-	624	624	624
	Max. machining length	mm	800	800	800	775	775	775
Spindle	Spindle speed	rpm	2,000	1,800	1,500	2,000	1,800	1,500
	Spindle nose	ASA	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
	Draw tube ID	mm	-	-	-	-	-	-
	Spindle bore diameter	mm	104	104	104	104	104	104
	Spindle motor (Cont./Max)	kW	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]
Travels	X-axis travel	mm	440	440	440	440	440	440
	Z-axis travel	mm	800	800	800	800	800	800
	X-axis Rapid traverse rate	m/min	20	20	20	20	20	20
	Z-axis Rapid traverse rate	m/min	20	20	20	20	20	20
Turret	Number of tool stations	ea	12	12	12	12(BMT75)	12(BMT75)	12(BMT75)
	Turning tool shank size	mm	32	32	32	32	32	32
	Boring bar diameter	mm	63	63	63	63	63	63
	Turret index time(next station swivel time)	sec	0.30	0.30	0.30	0.30	0.30	0.30
	Rotary tool speed	rpm	-	-	-	4,000	4,000	4,000
	Rotary tool motor (Cont./Max)	kW	-	-	-	5.5/11	5.5/11	5.5/11
	Quill diameter	mm	-	-	-	-	-	-
Tailstock	Quill stroke	mm	-	-	-	-	-	-
	Spindle taper	MT	-	-	-	-	-	-
Machine	Size (with Side Chip conveyor) L×W×H	mm	2,052(3,311) × 2,782 × 3,491			2,052(3,311) × 2,782 × 3,491		
	Size (with Rear Chip conveyor) L×W×H	mm	2,052 × 2,782(4,282) × 3,491			2,052 × 2,782(4,282) × 3,491		
	weight	kg	11,000	11,000	11,000	11,200	11,200	11,200
	Coolant tank capacity	Liter	300			300		
Electric power supply			kVA/V	53/220	53/220	53/220	61/220	61/220
Controller			FANUC					

※ Design and specifications subject to change without notice.

[] : Option

Standard Accessories

- Coolant unit (4.5bar-60Hz)
- Shower coolant unit (1.5bar-60Hz)
- Work light
- S/G & Rear coolant tank
- Tool & work box
- Hyd. Solid chuck (18")
- Soft jaw (3 set)
- Hard jaw (1 set)
- Leveling unit
- Chuck clamp foot switch
- Chuck pressure switch
- 3 Color patrol lamp
- 10.4" LCD monitor
- Auto lubrication pump
- Manual & Parts list
- Safety precaution name plate
- Door interlock

Optional Accessories

- Chip conveyor & bucket (side/rear) (Hinge/Scraper)
- Chip bucket
- Special Chuck
- Dual pressure chucking
- Auto-door
- Air gun
- Air blower
- Oil skimmer
- Chuck coolant
- Coolant gun
- Coolant chiller
- Coolant pressure switch
- Coolant level switch
- High pressure coolant (7, 10, 15, 20bar-60Hz)
- Mist collector
- Transformer
- Tool presetter (Removable)
- Linear scale (X,Z)
- Work Counter
- CE Spec.
- 2 Step Gear Box



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

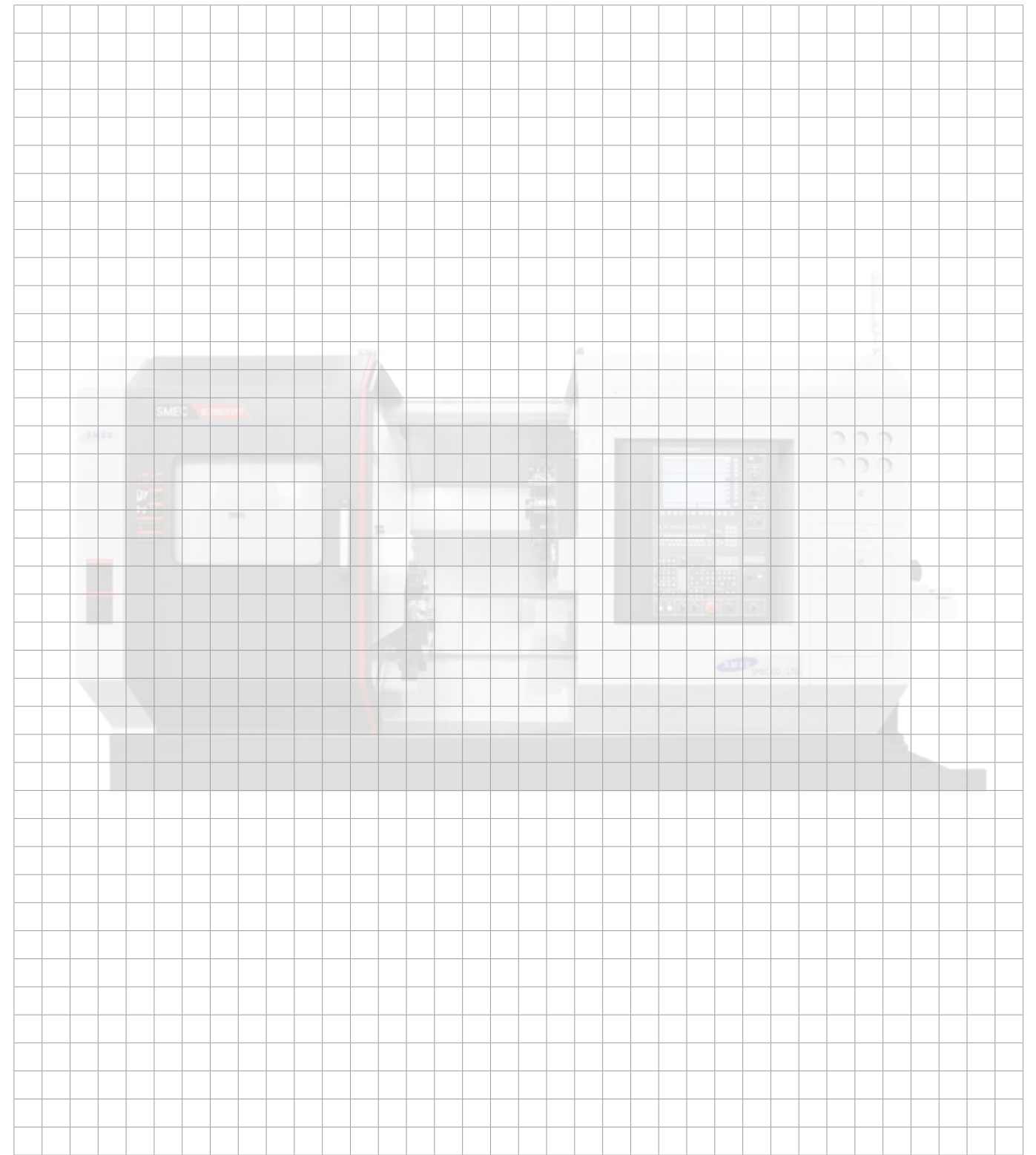
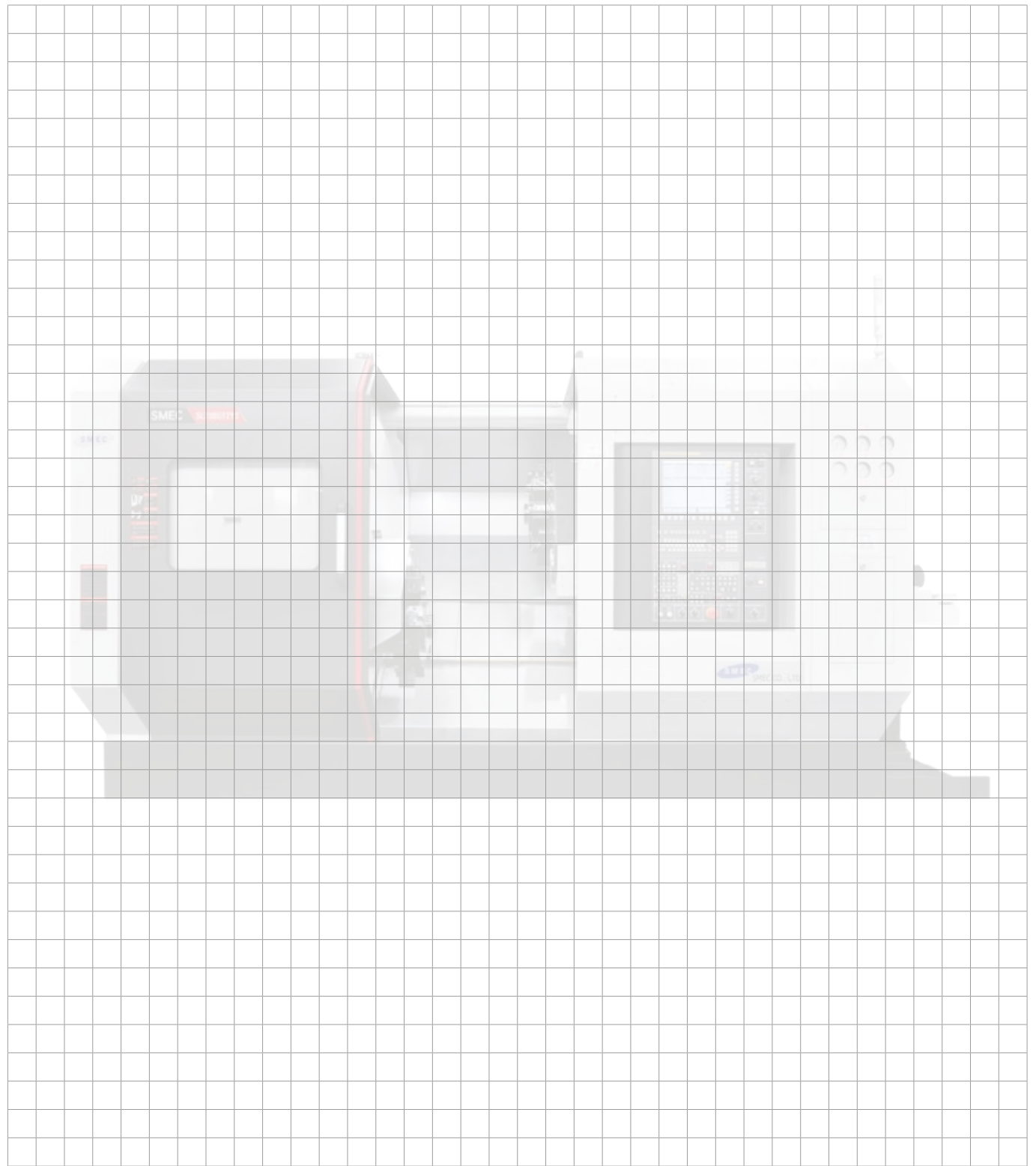
Robuste MultiTouch-Bedienung
kombiniert mit SideScreen

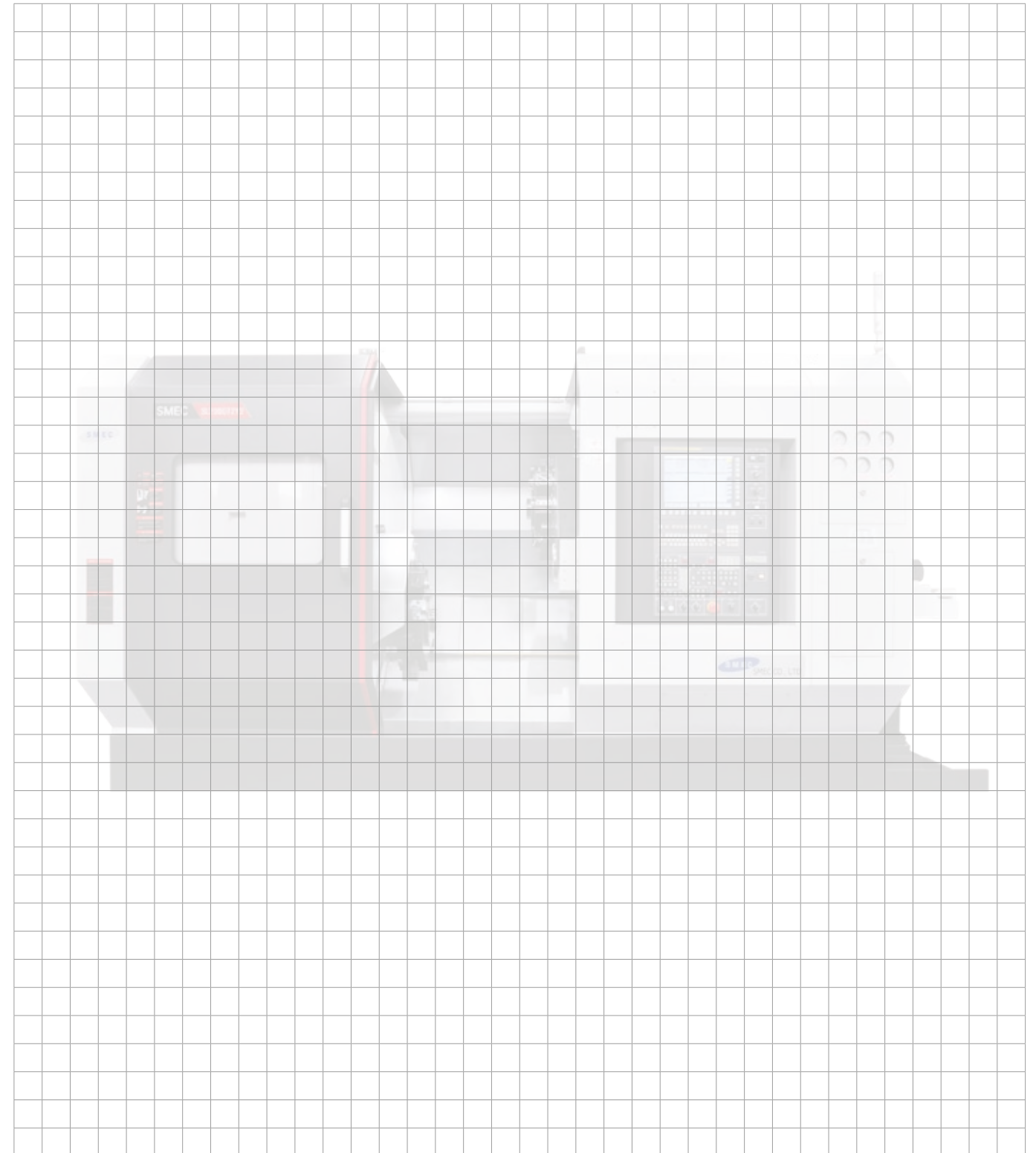
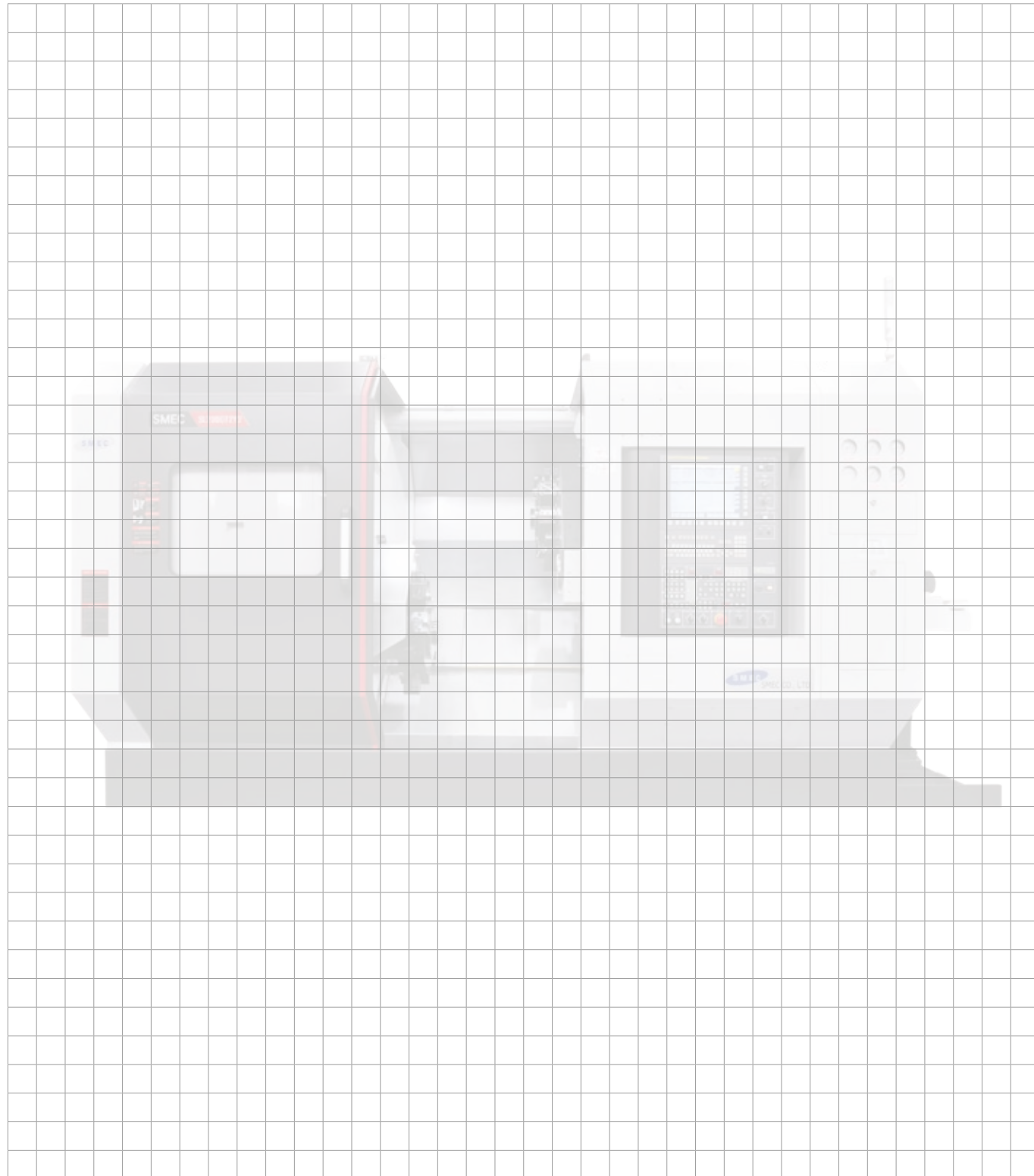
Für Werkstatt, Lohnfertigung und Großserienfertigung sind hochproduktive Automatisierungslösungen gefragt, die den Weg in die Digitalisierung begleiten.

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.





Gleich einspeichern und
ANGEBOT sichern!

Tel. 49 (0) 9672 92415-730

Ihr Partner in
**Deutschland
& Österreich**



Industriestraße 6c
92431 Neunburg v.Wald

Servicehotline
+49 (0) 9672 92415-790

info@wsf-wzm.de
www.wsf-wzm.de