

SMEC

MCV 5700 Series

LM GUIDE TYPE
VERTICAL MACHINING CENTER



WERKZEUGMASCHINEN

MCV 5700 Series

| MCV 5700
| MCV 5700L



MCV 5700 Series

MCV 5700/5700L

Largest in class X-axis travel and table with low-center of gravity design

- largest in class X-axis travel of 1,600mm (MCV 5700L)
- largest in class table size of 1,700 x 570mm (MCV 5700L)
- easy user accessibility with a table surface height of 900mm
- with 4 rows of Roller LM-Guides in the Y-axis, overhang is prevented (MCV 5700L)
- high strength and high precision with the highly rigid saddle and arched column design
- maximized space efficiency with the compact design

Category		MCV 5700	MCV 5700L
Travel (X/Y/Z)	mm(inch)	1,050/570/520(41.34/22.45/20.48)	1,600/570/520(63.00/22.45/20.48)
Table size	mm(inch)	1,300x570(51.19x22.45)	1,700x570(66.93x22.45)
Table loading capacity	kgf(lb)	1,000(2,204.63)	1,000(2,204.63)
Table surface	mm(inch)	18H8(0.71H8) T-slotxp125(4.93)x4ea	18H8(0.71H8) T-slotxp125(4.93)x4ea
Max. spindle speed	rpm	12,000	12,000
Tool-to-tool time	sec	1.3	1.3
Rapid traverse (X/Y/Z)	m/min(ipm)	36/36/30(1,417.33/1,417.33/1,181.11)	30/36/30(1,181.11/1,417.33/1,181.11)
Tool storage capacity	EA	30	30

High productivity

The use of roller type LM guide ways with excellent responsiveness minimizes the amount of noise generated during travels and greatly shortens non-cutting times.

High performance, high precision machining

Stable machine design to ensure reliable machining, while low-vibration, low thermal growth direct-drive spindle enables high precision machining

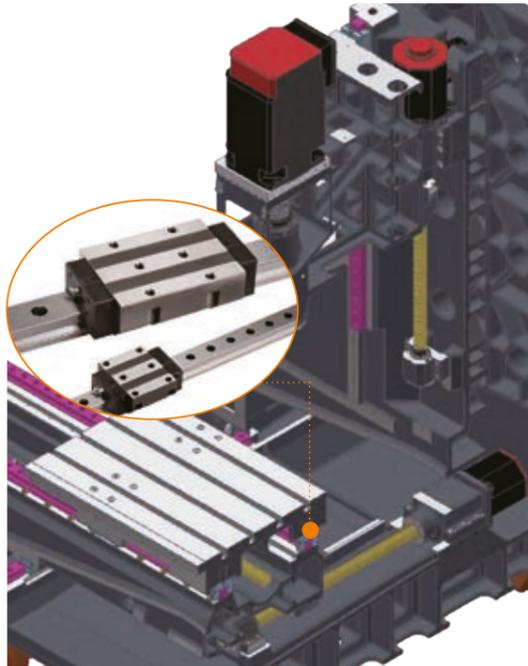
Easy Accessibility

The low center of gravity design and minimized gap between the front cover and table edge allows easy load/unload of materials with minimal operator

Operator Convenience

The high performance NC option (S4 package), standard operator-centric OP Panel (15" screen) and eco-friendly coolant system maximizes operator convenience

High productivity



Roller type LM guide way

The use of roller type LM guide ways with excellent responsiveness minimizes the amount of noise generated during travels and greatly shortens non-cutting times.

- Enhanced speed, rigidity and durability
- Compared to ball type LM guides, it significantly improves wear resistance, thus improving travel precision and durability

Rapid traverse (X/Y/Z)

MCV 5700 : **36/36/30** m/min
(1,417.33/1,417.33/1,181.11 ipm)

MCV 5700L : **30/36/30** m/min
(1,181.11/1,417.33/1,181.11 ipm)

High performance, high precision machining

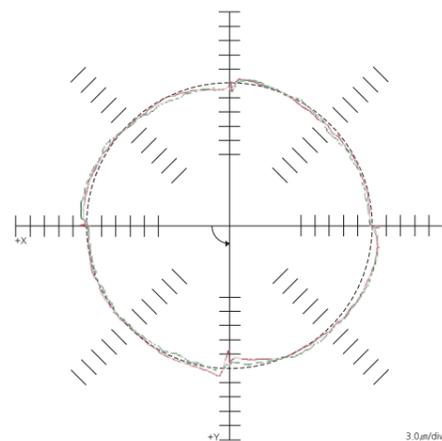
Excellent machine design for high precision machining

- Stable machine design to ensure reliable machining
- High precision machining with the use of low-vibration, low thermal growth direct-drive spindle

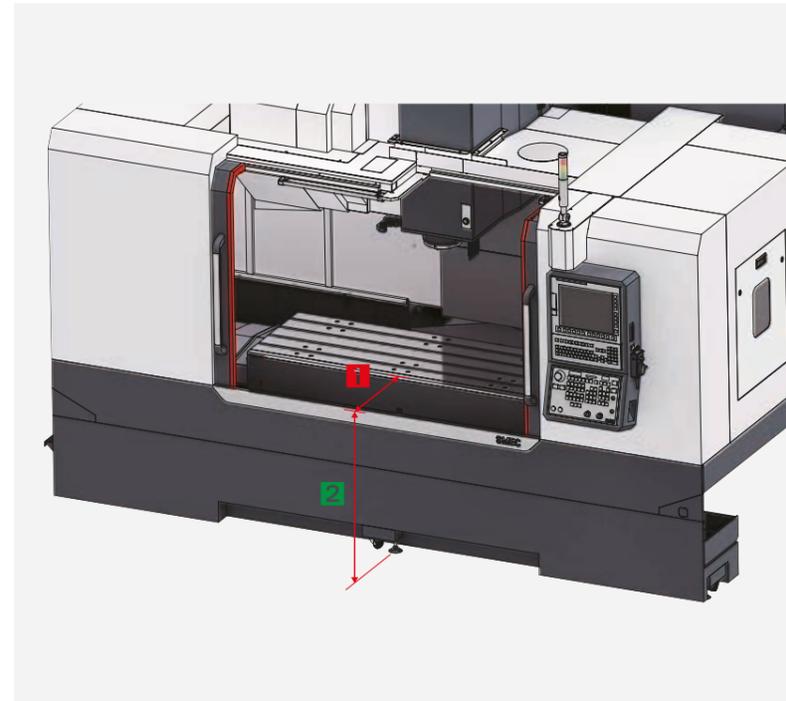


Low center of gravity design provides high-quality accuracy

- high rigidity single-piece bed with low center of gravity design
- overhang prevented with widest-in-class saddle for Roller type LM guide way
- high speed, high precision direct-drive spindle



Superior Accessibility

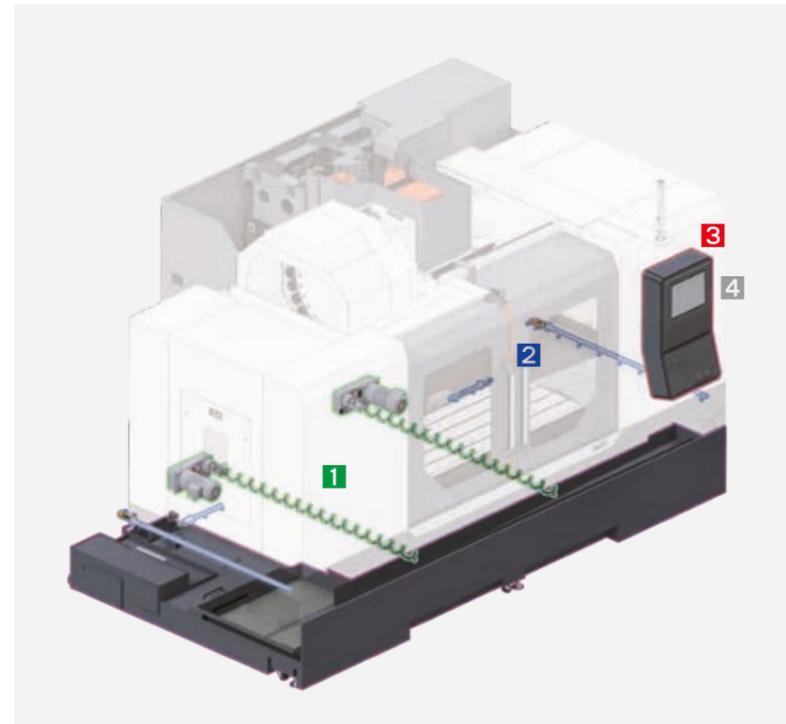


- With the door opened, a hoist can be brought in past the center point of the table, making it very easy to move heavy materials into the machine
- The distance between the cover and the table was minimized for easy loading/unloading of materials and to allow access to the entire table surface

1 Distance between front door and table
220mm (8.67 inch)

2 Distance from floor to table top
900mm (35.44 inch)

Operator Convenience



1 Coil Conveyor

The 2 standard internal coil conveyors efficiently removes the chips that are created during machining

2 Bed Flushing (MCV 5700L : STD, MCV 5700 : OPT)

The standard bed flush system installed along the sides of the machine prevents chip build-up and ensure effective chip removal

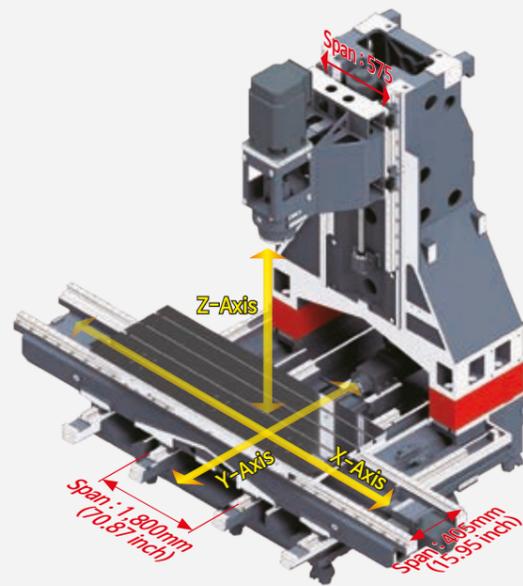
3 Operator-centric 15" Large Screen OP Panel

The swivel-type OP Panel is easy to work with and the QWERTY keyboard and high visibility buttons and efficient arrangement improves operator convenience

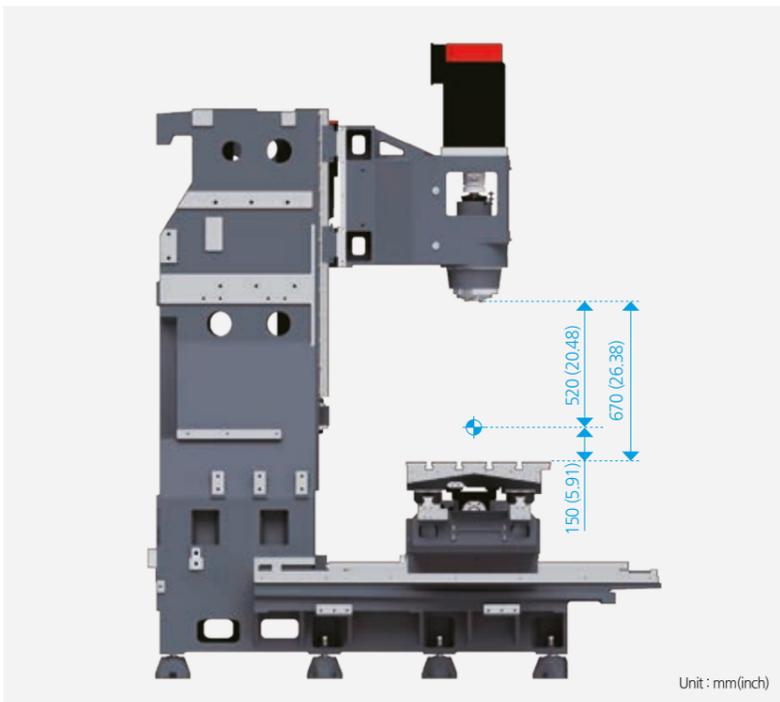
4 Machining Performance Enhancing High Performance NC Options Made Standard

Data server and various NC options are made standard to significantly improve machining performance

Machine Design



Model	Travel [mm (inch)]		
	X-axis	Y-axis	Z-axis
MCV 5700	1,050 (41.34)	570 (22.45)	520 (20.48)
MCV 5700L	1,600 (63.00)	570 (22.45)	520 (20.48)



Unit : mm(inch)

The application of Roller Type LM Guides to X and Y axes minimizes the noise created during travel and the superior accel/decel minimizes the non-cutting time

Highly Rigid Saddle with no X-axis Overhang

Longest-in-class X-axis with 1,550mm(61.03 inch) stroke and high rigidity saddle design makes it idea for reliable machining of long workpieces

4 Row Y-axis Guide Way Bed (MCV 5700L)

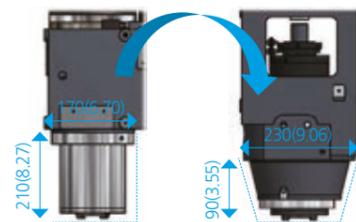
Overhang is minimized with the 4 rows of LM Guides supporting the Y-axis with the widest in class span

Z-axis High Rigidity Arched Column

The arched column ensures high rigidity and high precision machining performance

Unit : mm(inch)

Quill-Type Head stock



High speed direct drive head
- high precision and efficient cooling operation

The standard quill-type head enables high speed, ultra precise machining while providing greater rigidity and minimizes thermal growth with forced heat dissipation

Spindle to table-top distance

150~670mm (5.91~26.38 inch)

Spindle



The ultra precision spindle is supported by 4 rows of P4 class high-speed angular bearings allowing high speed, high precision machining with the direct-coupled head that minimizes thermal growth through forced heat dissipation.

Max spindle speed
12,000rpm

Power (Cont/Max)
11/22.2kW
(14.76/29.78 Hp)

Torque (Cont/Max)
70/141.4N·m
(51.63/104.30 lbs-ft)

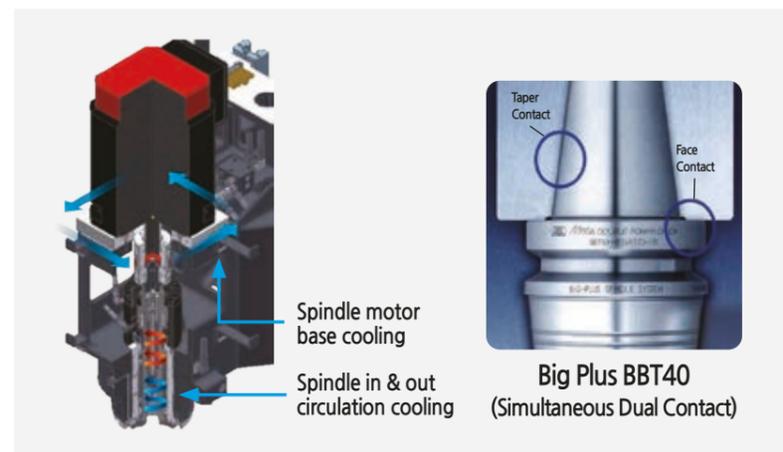
JACKET Circulation Cooling

Semi-permanent grease lubrication applied to the bearings, while thermal growth is minimized using jacket circulation cooling around the bearing housing (a source of heat) via a Fan Cooler, ensuring stable performance and extending the lifetime of the spindle.

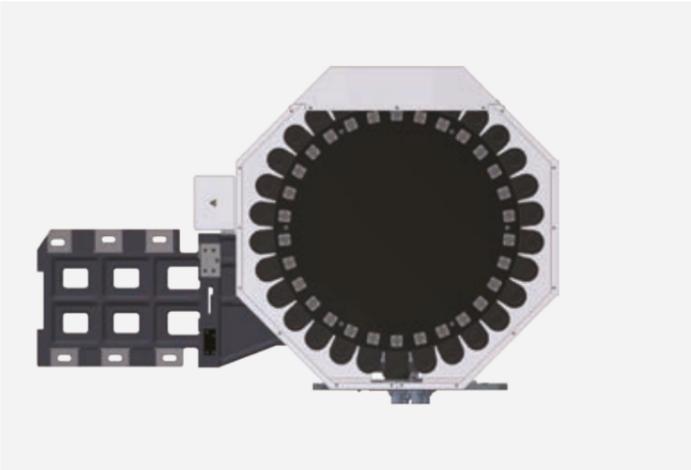
Standardized Dual-Contact Spindle

The dual-contact system that provides taper and flange contact when tool holders are clamped into the spindle

- with both the taper and flange in contact, improved stability with reduced vibration
- improved machining capability and surface finish under extreme conditions
- 100% compatible with current tools.(BT40)



ATC / Magazine



ATC Magazine

Designed with a standard 30 tool magazine with short travel distance to enable quick tool changes

Fast and errorless tool changes are made possible using the memory random technique and double arm type tool changer, minimizing non-cutting time

Tool storage capacity : 30ea

Tool-to-tool time : 1.3sec

Max. tool dia. [adjacent empty] : 80[125]mm (3.15[4.93]inch)

Max. tool length : 300mm (11.82 inch)

Max. tool weight : 8kg (17.64 lb)

Table

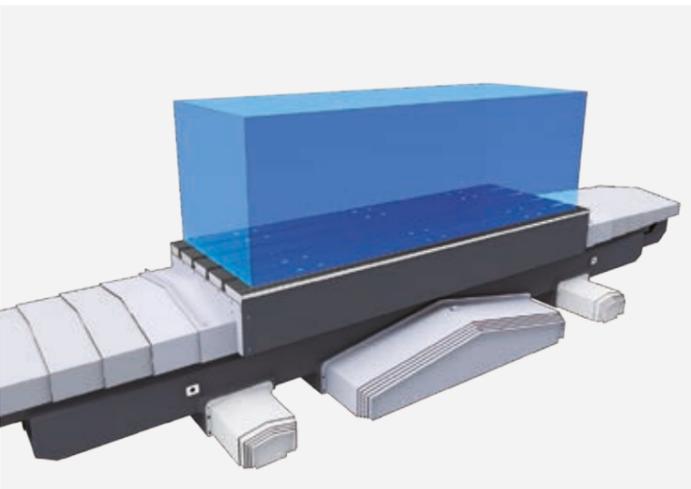


Table size and Table loading capacity were increased to support larger work area

Table size :

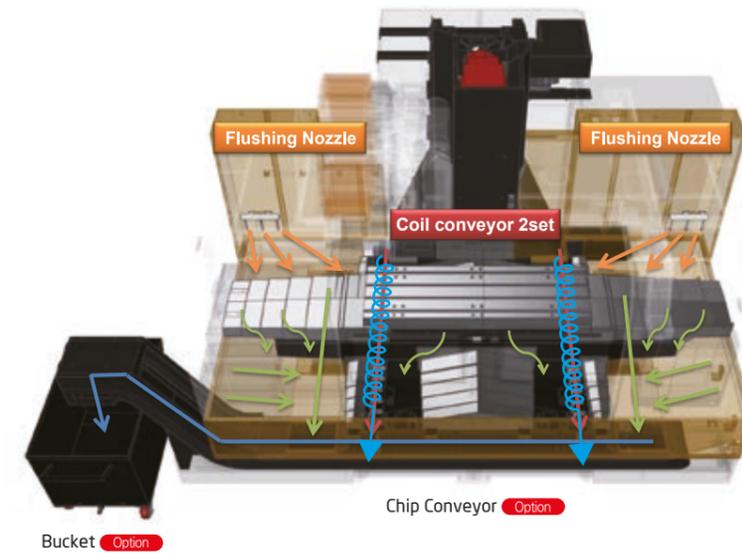
MCV 5700 : 1,300×570mm (51.15×22.44 inch)

MCV 5700L : 1,700×570mm (66.93×22.44 inch)

Table surface : 18H8×p125×4ea (0.71H8×p4.93×4ea)

Table loading capacity : 1000kgf (2,204.63 lbs)

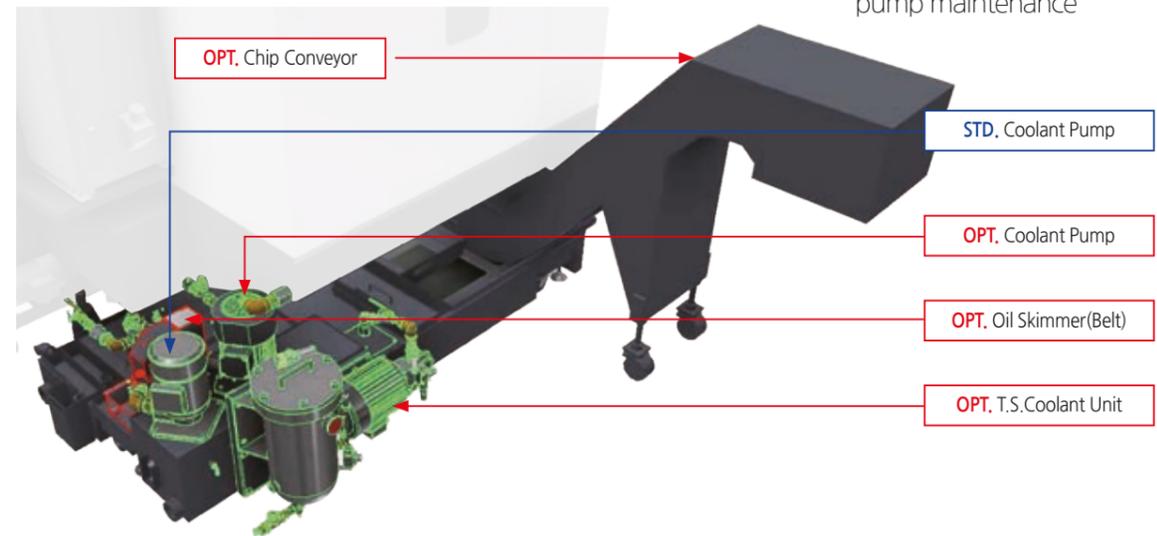
Eco-Friendly Chip Disposal



Complete chip discharge through the series of chip disposal processes by the coolant nozzle, bed flush, coil conveyor and chip conveyor

- the large, rectangular S/GUARD design and rear coolant tank ensures easy chip removal
- using bed flushing, complete chip disposal off the surface of the bed
- the chip conveyor can be installed in either the left or right direction according to the required layout for efficient chip disposal

Automated Coolant Supply



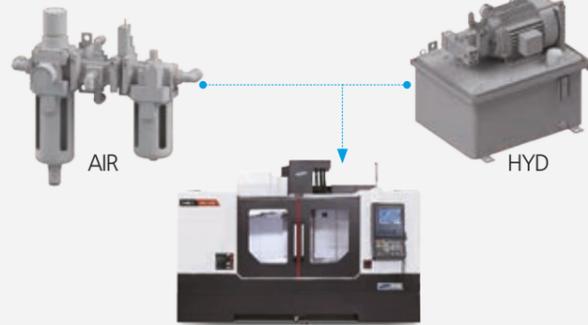
Large capacity coolant tank located behind the machine enables easy coolant exchange, tank cleaning and pump maintenance

Coolant tank capacity : 400ℓ (105.67 gal)

Options

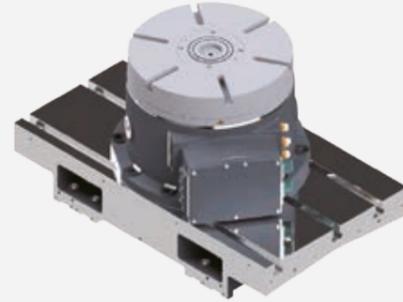
Rotary table and air/hyd fixture preparation

Components necessary for the installation of rotary table and fixtures may be added during assembly wherein hydraulic or pneumatic preparation may be selected.



NC rotary table

When using an NC rotary table, multi-axis machining of diverse shapes is possible.



Tool measurement probe

Various automated tool diameter, length and lifetime measuring devices may be installed.



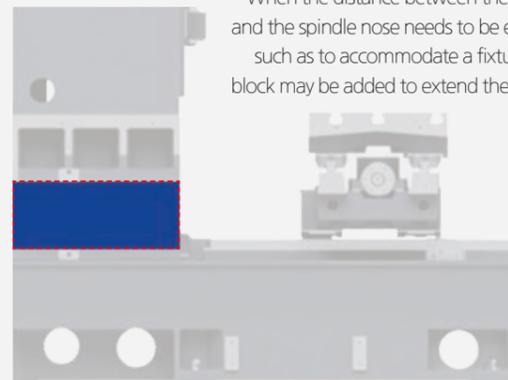
Chip conveyor

Equipment meant to remove chips created during machining



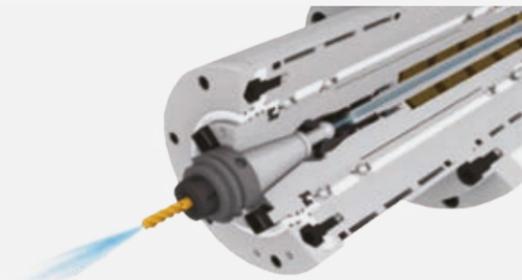
High column

When the distance between the table top and the spindle nose needs to be extended, such as to accommodate a fixture, a riser block may be added to extend the distance.



Through spindle cooling (TSC)

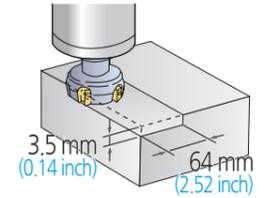
The TSC option may be added to improve machining effectiveness



Cutting performance

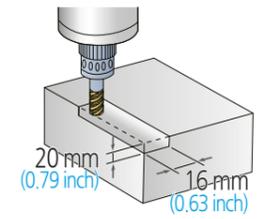
Face mill [Ø80mm (Ø3.15")] / Carbon steel (SM45C)

Chip removal rate [cm ³ /min (inch ³ /min)]	Spindle speed (r/min)	Feedrate [mm/min (ipm)]
605 (36.92)	1,500	2,700 (106.3)



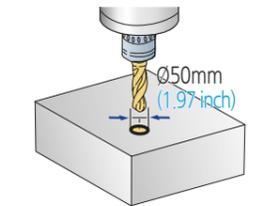
End mill [Ø25mm (Ø1")] / Carbon steel (SM45C)

Chip removal rate [cm ³ /min (inch ³ /min)]	Spindle speed (r/min)	Feedrate [mm/min (ipm)]
68.8 (4.2)	1,528	138 (5.44)



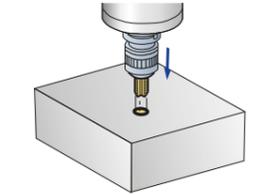
U-Drill [Ø50mm (Ø1.97")] / Carbon steel (SM45C)

Cutting rate [cm ³ /min (inch ³ /min)]	Spindle speed (r/min)	Feedrate [mm/min (ipm)]
353 (21.55)	1,500	210 (8.27)



Tap / Carbon steel (SM45C)

Cutting rate [cm ³ /min (inch ³ /min)]	Spindle speed (r/min)	Tap size (mm)
212 (12.94)	742	M30×3.5



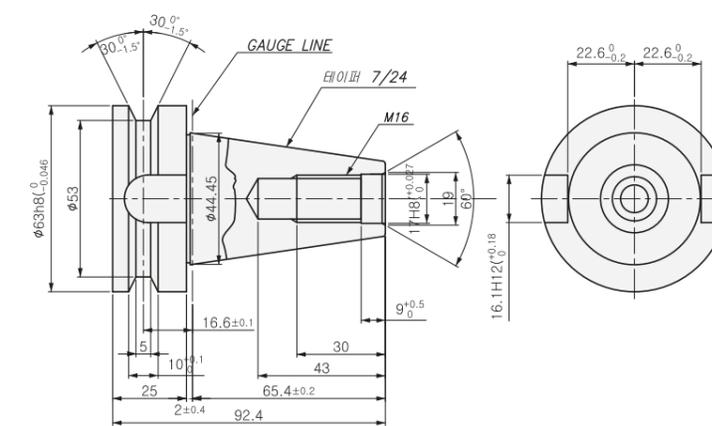
TEST conditions : MCV 5700L - 12,000rpm [BT40]

※ The above data is based on internal testing. Values may change depending on cutting conditions.

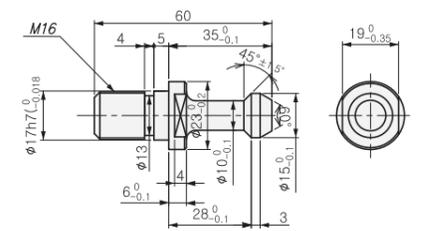
Tool Shank

Unit : mm

BT40



PULL STUD



MCV 5700 Series
VERTICAL MACHINING CENTER

Spindle Power & Torque Diagram

Max Spindle Speed
12,000rpm

Power (Cont/Max)
11/22.2kW
(14.76/29.78 Hp)

Torque (Cont/Max)
70/141.4N·m
(51.63/104.30 lbs-ft)

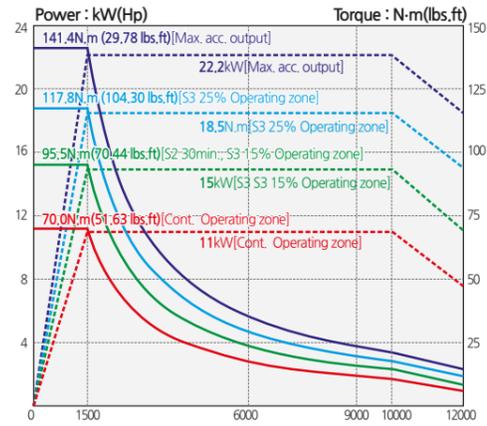
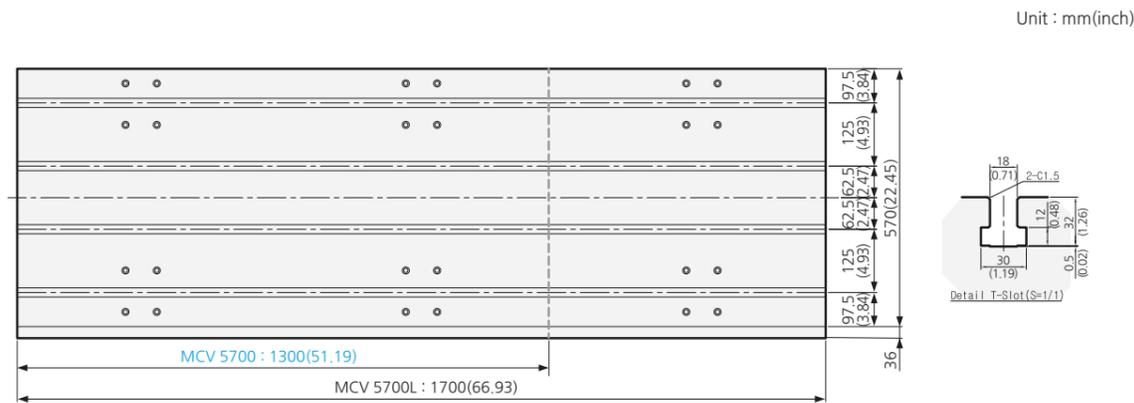
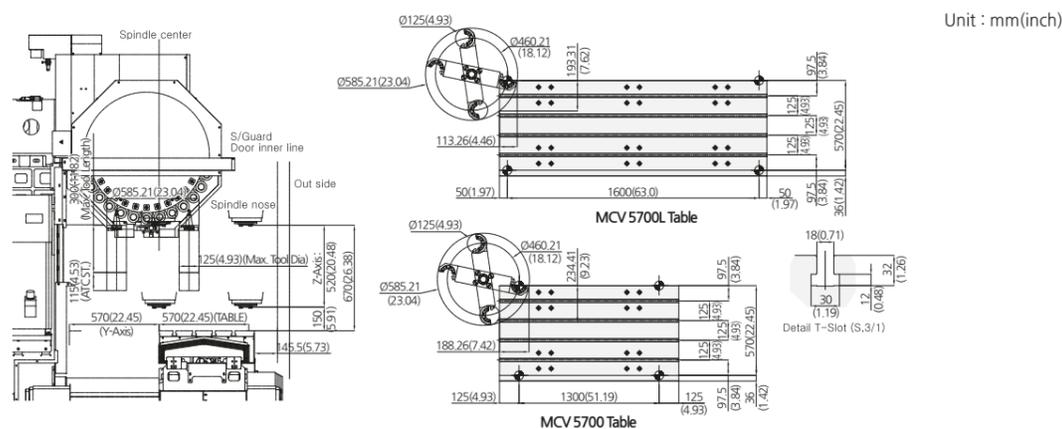


Table & T-Slot

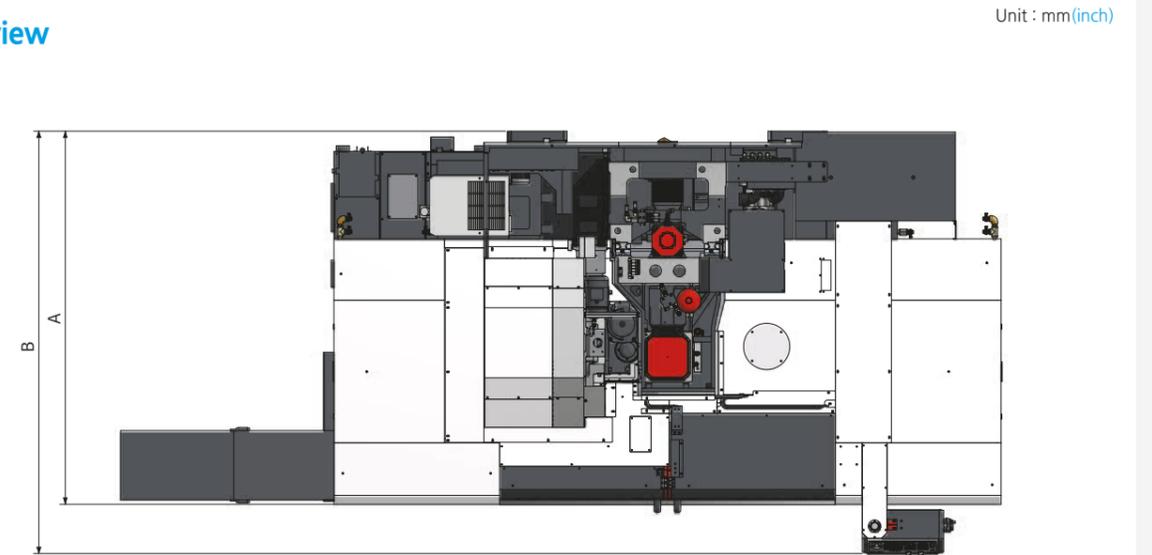


ATC Interference

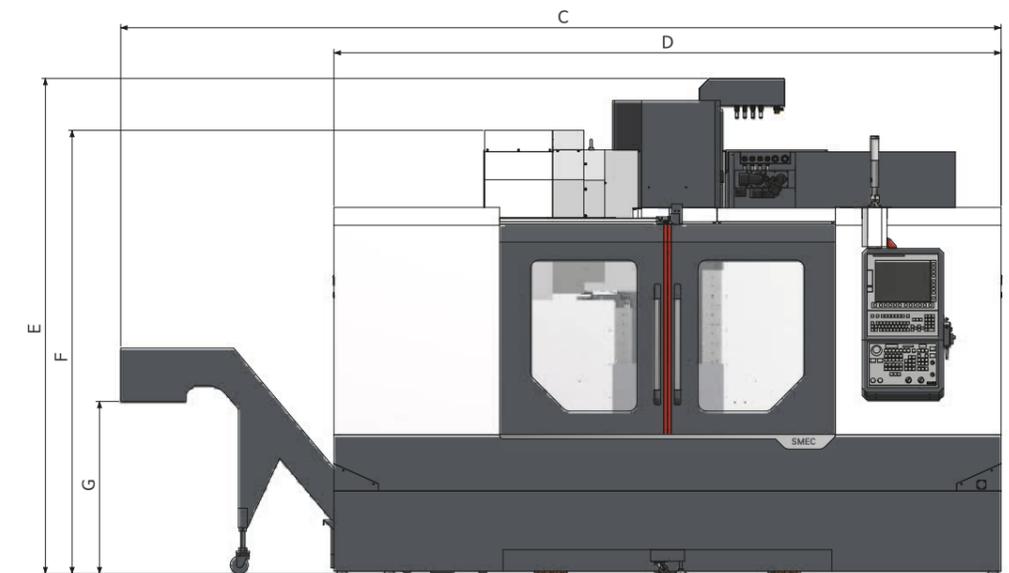


Machine Dimensions

Top view



Front view



Model	A [Length]	B [Length (incl OP Panel)]	C [Width (incl C/C)]	D [Width]	E [Height (max)]	F [Height (magazine)]	G [Height (C/C disposal chute)]
MCV 5700	2,063 (81.23)	2,370 (93.31)	4,181 (164.61)	2,949 (116.11)	2,783 (109.57)	2,373 (93.43)	970 (38.19)
MCV 5700L	2,099 (82.64)	2,377 (93.59)	4,954 (195.04)	3,754 (147.80)	2,786 (109.69)	2,495 (98.23)	970 (38.19)

Machining Solution (STD)

S4(sMEC sMOOTH SURFACE SYSTEM) Package

High performance NC options to improve machining performance provided as standard



15 inch LCD monitor standard	
AICC II (AI Contour Control II)	Efficient accel/deceleration (200 block look ahead)
Jerk control	Speed control during acceleration changes
Smooth tolerance plus control	Stable curved shape forming
Machining conditions selection function	Adjust accuracy level according to machining conditions
Machining quality selection function	
Manual Guide i	Visual machining check and setup guide
Data server	Transfer large program files
Part program storage	2MB (5,120M)
Number of registered programs	1,000ea



Without S4 Package



With S4 Package

IoT Solution (OPT)



NC-Gate Basic Platform



IoT-Gate Expansion Platform

NC-Gate / IoT-Gate

The NC-Gate / IoT-Gate that was developed in-house with our ICT technology is a universal gateway that not only interworks with our machine tools, but machine tools from other manufacturers, robots, automation equipment, and analog / digital sensors as a network device capable of bi-directional communication.

Supported drivers : Fanuc / Mitsubishi / Siemens NC, Modbus TCP, DeviceNet, Profibus, Ethernet, AI/DI/DO

KPI (Key Performance Indexes)



Provides key performance indicators and displays target achievement

- Indicators : achievement rate, productivity, process defect rate, equipment and factory usage, quality defect rate, lead time, and average cycle time

OEE (Overall Equipment Effectiveness)



Provides figures and graphs of overall equipment effectiveness

- Availability, performance, quality, etc.

Realtime Monitoring



Provides operation status and alarm information in case of problems in the production line

- Provides information about the operation status, speed, production alarms, etc. of each machine

Remote Control/Management



Remote control and operation

- Emergency stop switch, program editing, etc.

Remote A/S



Problem diagnosis via remote control

- Provide remote diagnosis services to users via the IIoT solution

SMEC User Interface



Fanuc Oi MF Plus

- 15" LCD color display
- Part program size 2MB
- High quality designed OP Panel
- SMEC Custom S/W
- Portable M.P.G

SMEC Custom S/W displayed using MDI's button or OP Panel's button

CUSTOM : Provide operator convenience and improve productivity using the support function for tool management and additional device setting.

SMEC HMI



M/G-Code check function

Allows the operator to directly read the M/G-Code on the machine for easy application programming



PMC alarm check function

When a PMC alarm occurs, the cause and countermeasures are described in detail, making operation and maintenance more convenient



ATC Magazine status check, setting and maintenance function



Work coordinates, tool setting support function



Counter for each T-Code



MCV 5700 Series
VERTICAL MACHINING CENTER



Standard / Optional

Category	MCV 5700	MCV 5700L
Spindle		
RPM	12R ●	15R ●
Spindle chiller	●	●
ATC		
Tool type	BBT40 ●	CAT40 ○
	CAT40 ○	HSK-A63 X
Pull Stud	45° ●	●
Table & Column		
T-slot table	●	●
High column	200mm ○	300mm ○
	300mm ○	400mm ○
Coolant Equipment		
FULL SPLASH GUARD	●	●
Shower coolant	○	○
Coolant gun	○	○
Bed flushing	○	●
Air gun	○	○
Air blow	○	○
Tool measurement air blow (with tool measuring device)	○	○
Internal screw conveyor	●	●
Chip conveyor, HINGE	Left ○	Right ○
	Rear X	X
Chip conveyor, SCRAPER	Left ○	Right ○
	Rear X	X
Chip bucket	STD (380ℓ) ○	Rotating (200ℓ) ○
Electrical Equipment		
3 step patrol lamp & buzzer	●	●
Elec. cabinet light	○	○
Remote MPG	○	○
3-axis MPG	●	●
Work counter	GUI ●	●
Total counter	GUI ●	●
Tool counter	GUI ●	●
Multi counter	GUI ●	●
Residual current breaker	○	○
AVR (Auto Voltage Regulator)	○	○

● : Standard ○ : Optional X : N/A

Category	MCV 5700	MCV 5700L
Electrical equipment		
Transformer	50kVA ○	○
Auto Power Off	○	○
Power outage backup module	○	○
Z-axis drop prevention	●	●
Precision machining option		
AICC II (AI Contour Control II)	●	●
Jerk control	●	●
Smooth tolerance plus control	●	●
Machining condition selection function	●	●
Machining quality selection function	●	●
Data server	●	●
Manual guide i	●	●
Measurement		
Workpiece contact check device	TACO ○	SMC ○
Auto tool measuring device	○	○
Tool breakage detection	○	○
Linear scale	X-axis ○	Y-axis ○
	Z-axis ○	○
Coolant level detection	○	○
Environmental		
Air conditioner	○	○
Oil mist collector	○	○
Oil skimmer	○	○
Fixture & automation		
Auto door	STD ○	High speed X
Auto shutter	X	X
Operation sub-console	○	○
NC rotary table	○	○
NC rotary table interface	○	○
Rotary table control	+1 axis ○	+2 axis ○
Add. M-code (4 sets)	○	○
Robot interface	○	○
I/O expansion	○	○
Hydraulic equipment		
Hydraulic unit for fixtures	○	○
Safety device		
Door interlock	●	●
KCs	●	●

* For detailed information, please contact your local SMEC dealer.

Machine Specifications

Category	MCV 5700	MCV 5700L	
Travel	X-axis travel mm(inch)	1,050(41.34)	1,600(63.00)
	Y-axis travel mm(inch)	570(22.45)	570(22.45)
	Z-axis travel mm(inch)	520(20.48)	520(20.48)
	Spindle to table surface mm(inch)	150~670(5.91~26.38)	150~670(5.91~26.38)
Table	Table size mm(inch)	1,300 × 570(51.19×22.45)	1,700 × 570(66.93×22.45)
	Table loading capacity kgf(lb)	1,000(2,204.63)	1,000(2,204.63)
	Table surface mm(inch)	18H8(0.71H8) T-slot × p125(4.93) × 4ea	18H8(0.71H8) T-slot × p125(4.93) × 4ea
Spindle	Spindle speed rpm	12,000	12,000
	Power (Cont/Max) kW(HP)	11 / 22.2(14.76/29.78)	11 / 22.2(14.76/29.78)
	Torque (Cont/Max) N.m(lbs.ft)	70.1 / 141.4(51.63/104.30)	70.1 / 141.4(51.63/104.30)
Feedrate	X-axis rapid traverse rate m/min(ipm)	36(1,417.33)	30(1,181.11)
	Y-axis rapid traverse rate m/min(ipm)	36(1,417.33)	36(1,417.33)
	Z-axis rapid traverse rate m/min(ipm)	30(1,181.11)	30(1,181.11)
	Cutting feed(X/Y/Z) mm/min(ipm)	1-15,000(0.04-570.56)	1-15,000(0.04-570.56)
ATC	Tool shank	-	BT40(CAT40)
	Pull stud	-	MAS P40T-1
	Tool storage capacity ea	30	30
	Max tool diameter [adjacent empty] mm(inch)	80(3.15)[125(4.93)]	80(3.15)[125(4.93)]
	Max tool length / weight mm/kgf(inch/lb)	300/8(11.82/17.64)	300/8(11.82/17.64)
	Tool-to-tool time sec	1.3	1.3
	Tool changing method	-	Double Arm Swing
	Tool select type	-	Memory random
Machine	Size [with SIDE chip conveyor] L×W×H mm(inch)	2,949[4,181] × 2,063 × 2,782 (116.11[164.61] × 81.23 × 109.53)	3,754[4,954] × 2,099 × 2,786 (147.8[195.04] × 82.64 × 109.69)
	Size [with REAR chip conveyor] L×W×H mm(inch)	-	-
	Weight kg(lb)	6,700 (14,770.98)	7,000 (15,432.36)
Coolant tank capacity	Liter(gal)	400 (105.67)	400 (105.67)
Electric power supply	kVA/V	32/220	32/220
Controller	FANUC Oi-MF Plus		

* Design and specifications are subject to change without notice.

MCV 5700 Series
VERTICAL MACHINING CENTER



NC Specification / FANUC

● : STD ○ : Optional X : N/A



Category		0i-MF Plus	
Controlled axis	Controlled axes	X, Y, Z	
	Max simultaneously controlled axes	4	
	Least input increment	0.001mm / 0.0001"	
	Built-in stroke limit	Soft overtravel 1, 2, 3	
	Machine lock	●	
Operation function	Manual handle feed	X1, X10, X100	
	Dry run	●	
	Single block	●	
	Feed per minute	G94	
	Feed per revolution	G95	
	DNC operation	Ethernet, CF card	
	Retraction for rigid tapping	●	
Interpolation function	Linear interpolation	G01	
	Circular interpolation	G02, G03	
	Dwell	G04	
	Cylindrical interpolation	G70.1	
	Skip	G31	
	Fine surface machining	●	
	Smooth tolerance control	●	
	Nano smoothing	●	
	Polar coordinate interpolation	X	
	Reference position (zero) return	G28	
	Reference position (zero) return check	G27	
	2nd, 3rd, 4th reference point return	G30	
	Feed function	Rapid traverse override	F0, 25%, 50%, 100%
		Feedrate override	0~200%
Jog override		0 ~ 5,000 mm/min	
AI look ahead		20 block	
AI contour control II		200 block	
Look ahead block expansion (F0i) (400 Block)		○	
High-speed processing		X	
Look ahead block expansion (F31i)		X	
Jerk Control		●	
Spindle function	Spindle orientation	●	
	Rigid tapping	M29	
	Spindle override	50 ~ 150%	
Tool function	Tool number command	T2-Digt Tool number	
	Tool nose radius compensation	G40 ~ G42	
	Tool offset pairs	400 pairs	
	Tool geometry / wear offset	●	
	Tool length offset	●	
	Tool life management	●	
Tool path graphic display	●		

NC 사양 / FANUC Series

● : STD ○ : Optional X : N/A



Category		0i-MF Plus
Program input	Absolute / incremental command	G90/G91
	Repeating canned cycle	X
	Repeating canned cycle 2	X
	Canned cycles	X
	Drilling canned cycle	G73/74/76, G80~89
	Decimal point input	●
	Inch / metric conversion	G20 / G21
	Program restart	●
	Sub program call	●
	Max programmable value	±99999.999mm/±9999.9999"
	M function	3 digit
	Custom macro	●
	Addition of custom macro common variables	#100~#199, #500~#999 (#98000~#98499)
	Programmable data input	G10
	Tape code	ISO / EIA
	Optional block skip	●
	Workpiece coordinate system	G52 ~ G59
Addition of workpiece coordinate system	48(300) pairs	
Interface function	Embedded ethernet	●
	Fast ethernet	100 Mbps
Setting and display	Alarm and operator history display	●
	Run hour and parts count display	●
	Loadmeter display	●
	Self diagnosis function	●
	Extended part program editing	●
	Machining condition selection function (10 levels)	●
	Machining quality level adjustment (3 levels)	●
	Display screen	15" LCD
	Multi-language display	25 language
Data input/output	Fast data server	●
	RS232C interface	●
	Memory card input / output	●
Editing operation	USB memory input / output	●
	Part program storage size	2MB
	Number of registered programs	1,000EA
	Manual guidei	●
Manual guide 0i	○	



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

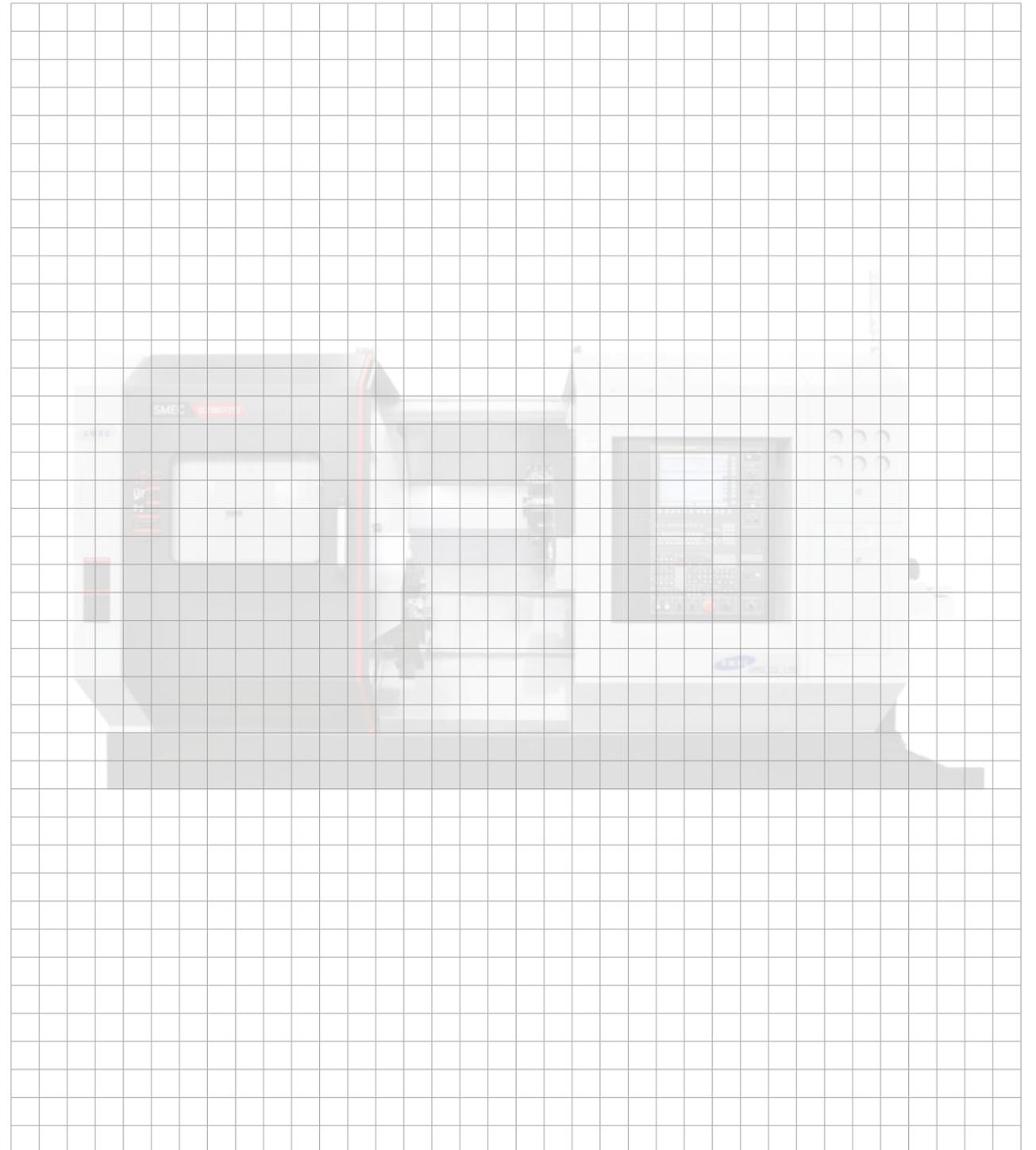
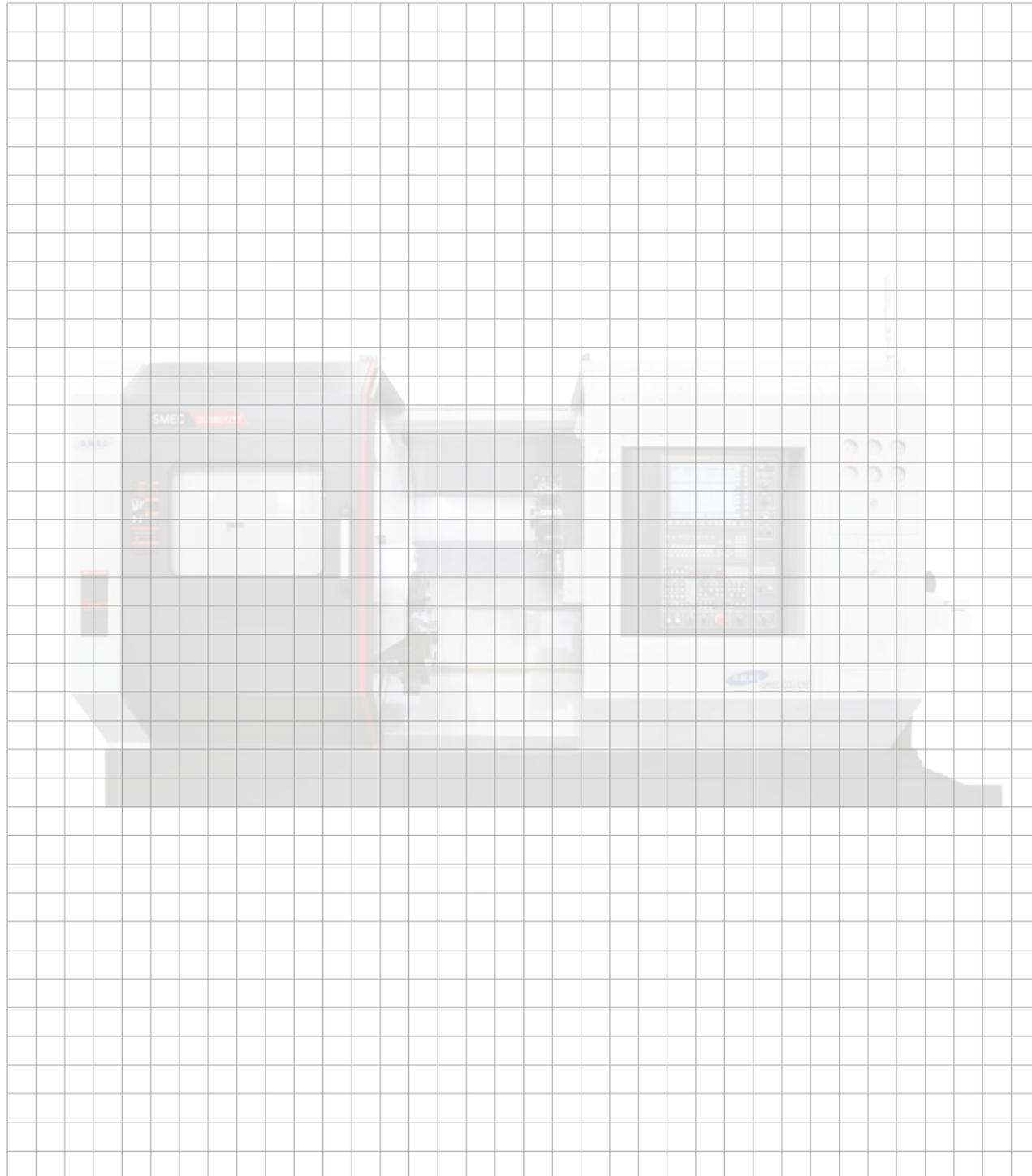
Robuste MultiTouch-Bedienung
kombiniert mit SideScreen

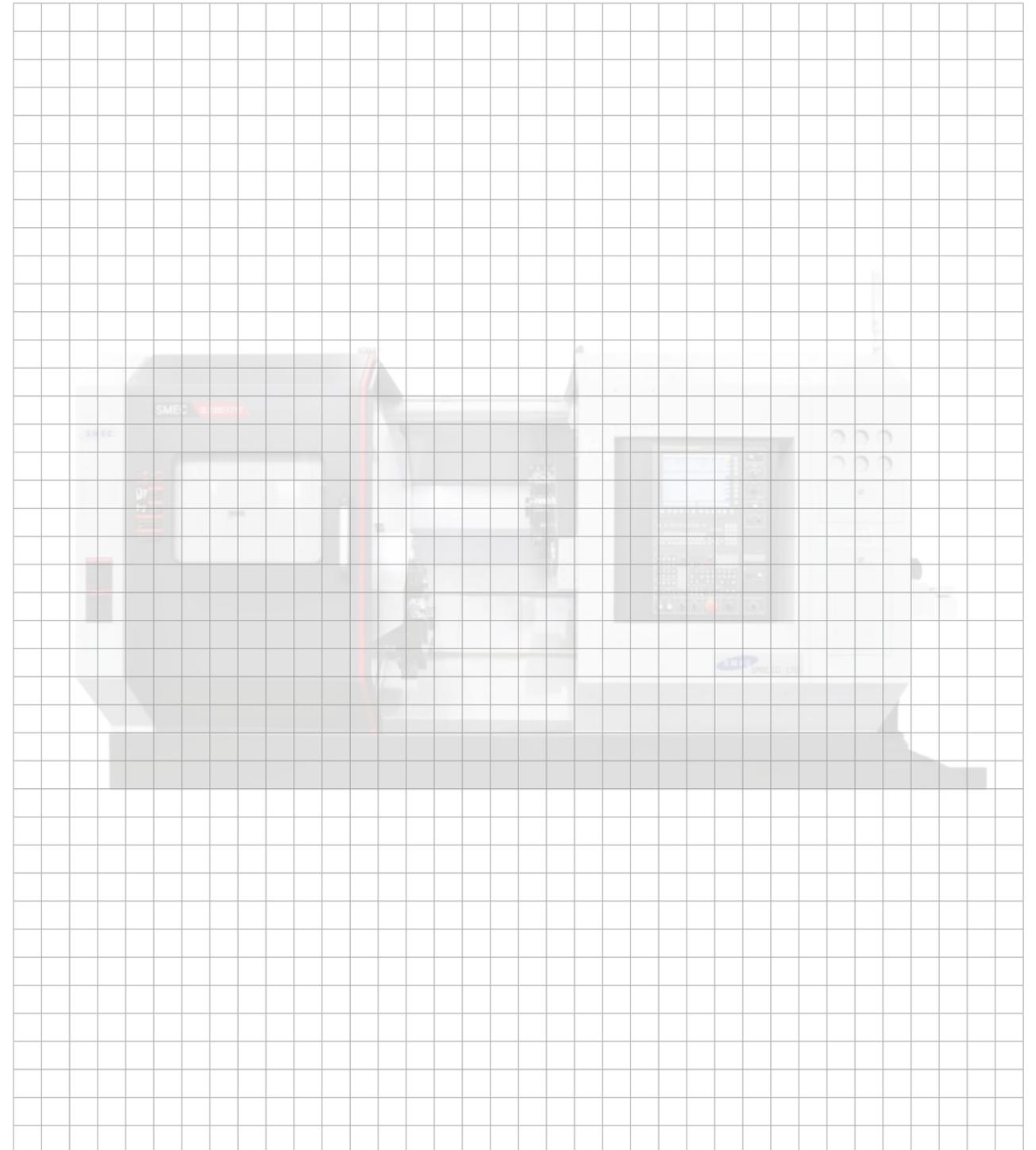
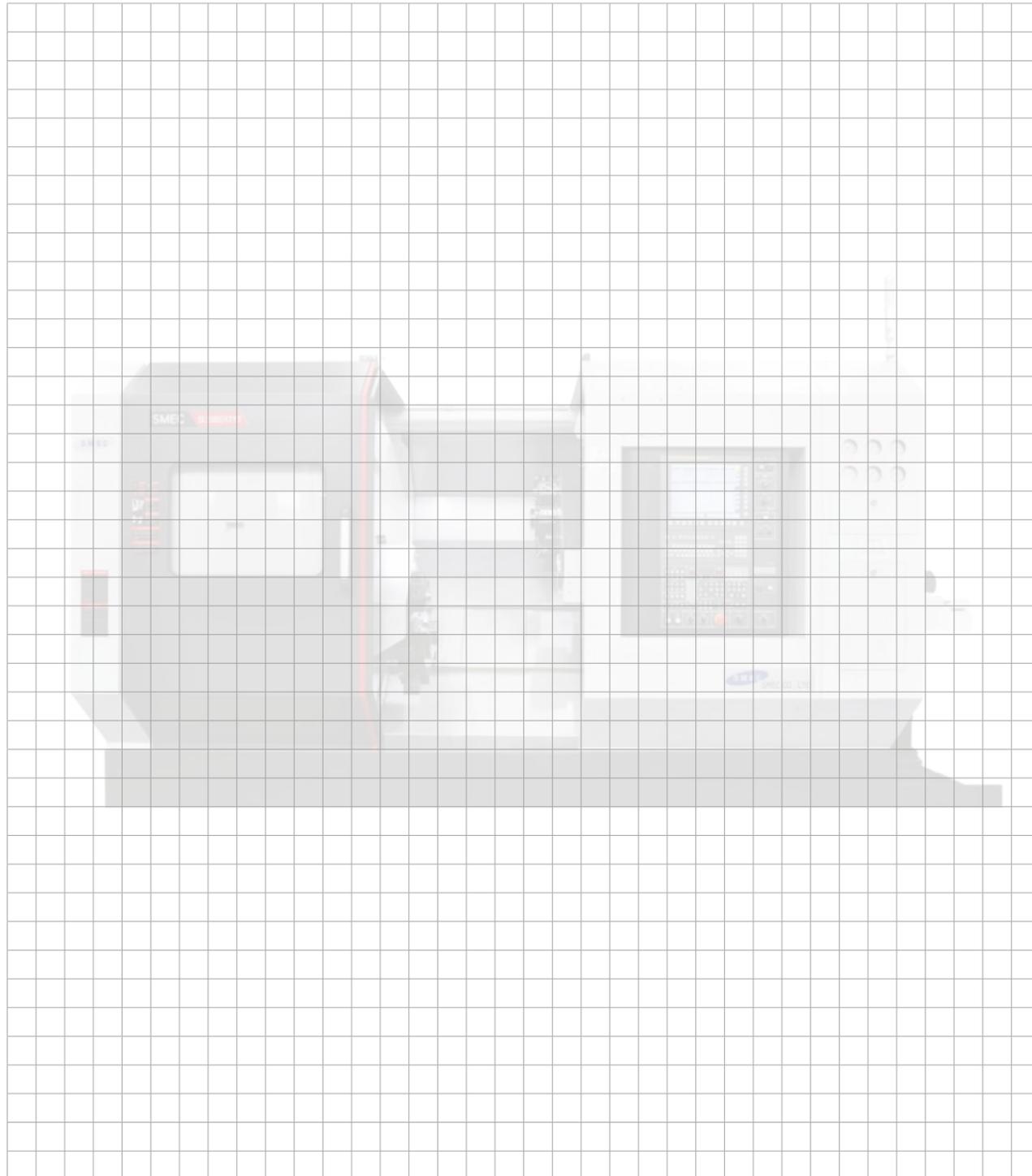
Für Werkstatt, Lohnfertigung und Großserienfertigung sind hochproduktive Automatisierungslösungen gefragt, die den Weg in die Digitalisierung begleiten.

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.





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