

**DMG MORI**

HORIZONTAL UNIVERSAL TWIN SPINDLE MACHINE  
FOR 5-SIDED/5-AXIS MACHINING

DMU 55 H Twin  
DMC 55 H Twin

## DMU/C 55 H Twin



DMU/C 55 H Twin

# Groundbreaking!

The DMU/C 55 H Twin is designed for high-end mass production, which is defined by identical or very similar components without free-form surfaces, particularly for mechanical engineering and the medical industry. The focus is on machining flat sealing surfaces and various bores, fits, and threads. The process ensures maximum stability and minimum cycle times, while at the same time achieving high quantities and maximum availability.

Thanks to its unique, innovative concept, the H Twin series combines the flexibility of a universal machining center with the productivity and process reliability of a horizontal twin-spindle machine.

The various innovative table variants, the option of customer-specific clamping devices, and the flexible automation options ensure the widest possible range of parts with maximum machine utilization and contribute significantly to reducing production costs.

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**MX POSS**



### Engineering



### Mobility

+ Compressor disk



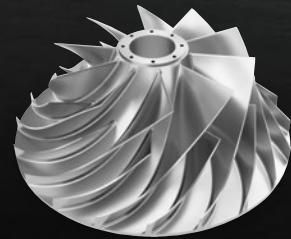
### Tooling

+ Tools



### Medical

+ Knee joint



### Aviation & Space

+ Impeller

# ABILITIES

DMU/C 55 H Twin

# Double productivity, unlimited flexibility

## FLEXIBLE

- + Tool length compensation via independent Z-axis
- + Tool radius compensation via independent axes in X (+/- 5 mm) and Y
- + Scalable wheel magazine with up to 214 tools per spindle
- + Diverse table variants
- + Permanent synchronization of spindles with each other (SIEMENS Syncmot)

## PRODUCTIVE

- + Maximum cutting performance thanks to a rigid machine bed
- + Impressive dynamics with acceleration of 7/10/8 m/s<sup>2</sup>
- + High dynamics thanks to rapid traverse speeds of 75/100/75 m/min (X/Y/Z) and low moving masses
- + Compact footprint with double the output
- + Fast tool change with chip-to-chip time of up to 2,9 s

## PRECISE

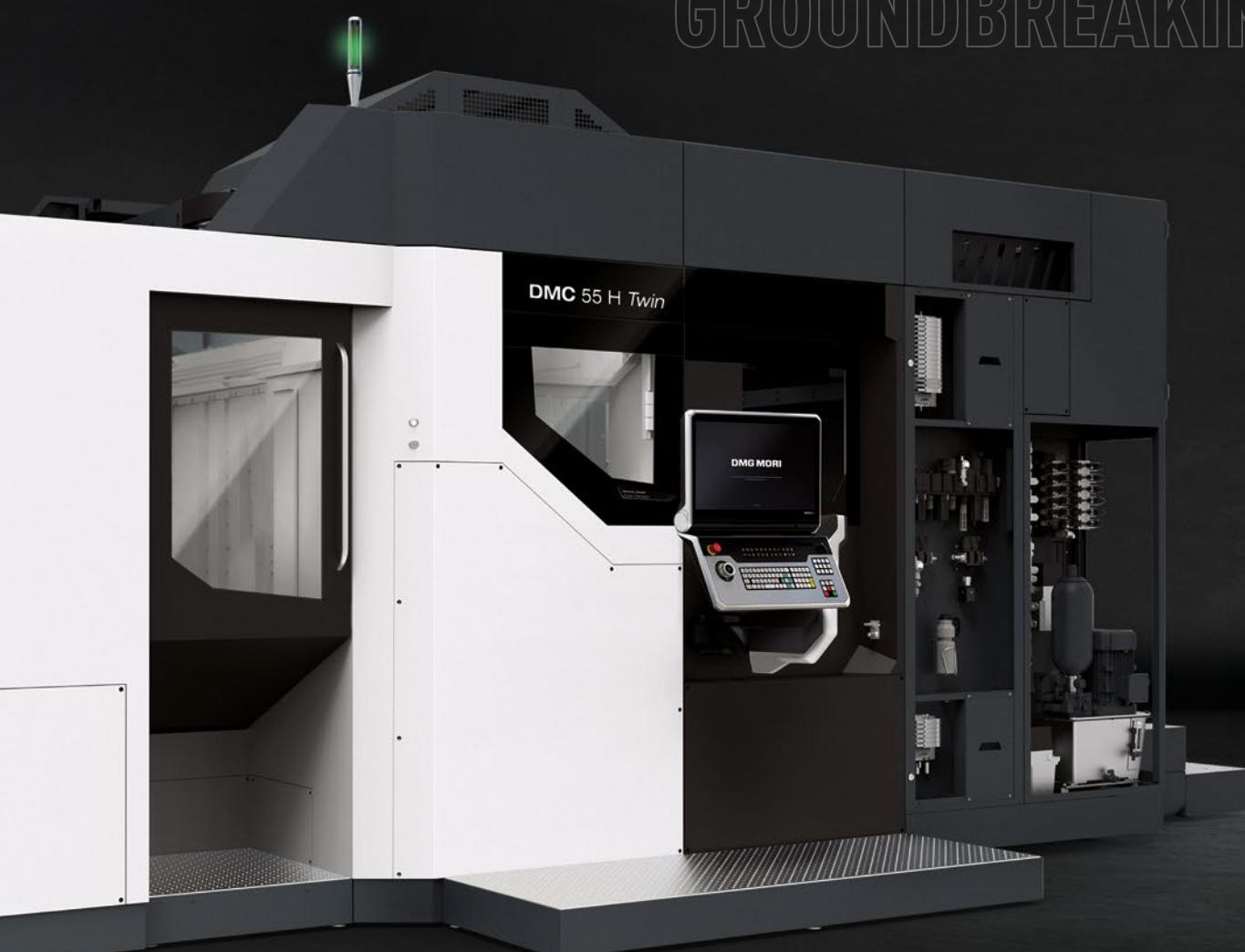
- + Positioning accuracy of 5 µm
- + Cooling of all heat-generating components
- + Stable basic structure and good damping properties thanks to EN-GJS-600
- + 3 guides in the X direction
- + Highest surface quality

## GROUNDBREAKING

- + MX Machining – Technology integration through milling, turning, and grinding
- + Wide range of automation options
- + Digitization with CELOS X
- + Exclusive DMG MORI technology cycles
- + Sustainable thanks to GREENMODE



PRECISE  
FLEXIBLE  
PRODUCTIVE  
GROUNDBREAKING



DMU/C 55 H Twin

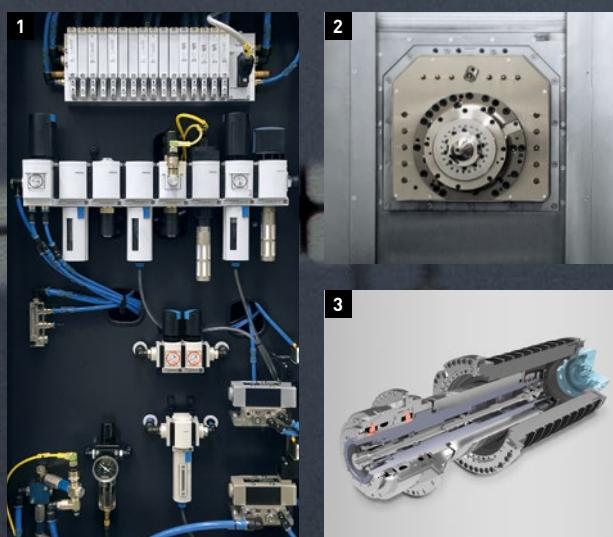
## Highest availability!

Unplanned machine downtime disrupts any production planning, which is why high technical availability is necessary to keep OEE (Overall Equipment Efficiency) high.

For this reason, tried-and-tested DMG MORI components were used in the DMU/C H Twin, such as the wheel magazine and the spindles from our MASTER series, which come with a 36-month warranty with no spindle hour limit.

When designing the work area, care was taken to ensure that all linear guides and drives are mounted outside the work area and are protected by high-quality covers. In the unlikely event of component failure, the maintenance area can be quickly accessed by service technicians and maintenance personnel and enables components to be lifted directly out of the machine by crane.

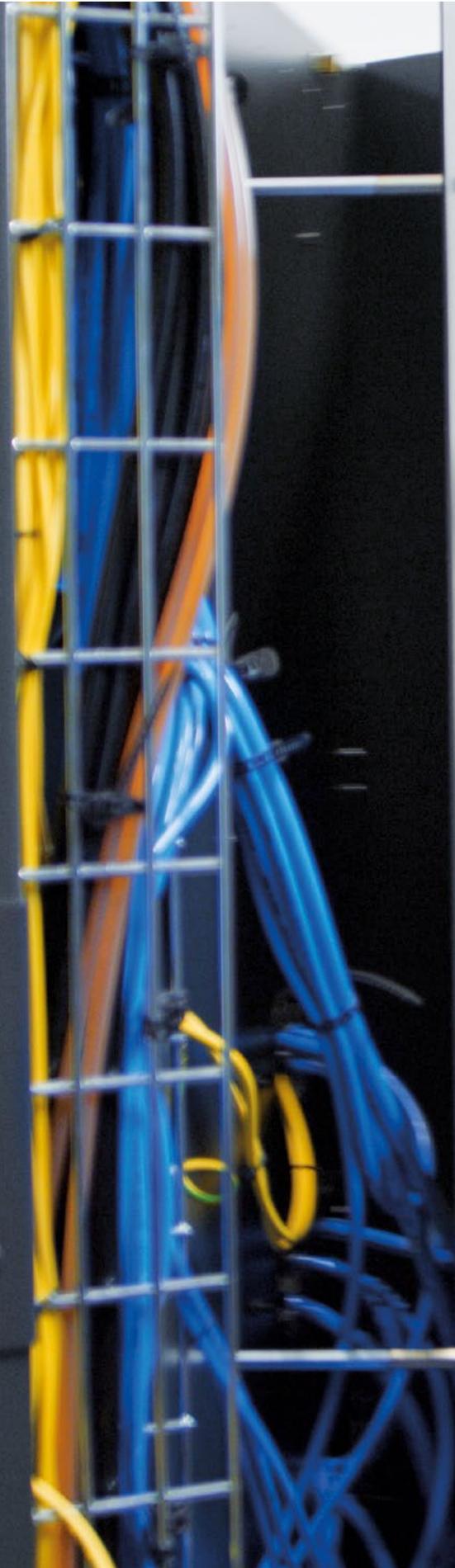
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**1: Easily accessible fluid box** with state-of-the-art IO link sensors for evaluation via the NETservice and automatic parameterization

**2: Low-maintenance aluminum cover** in the XY-axis

**3: speedMASTER motor spindle** in cartridge design rotor replacement in less than 4 hours possible for shortest downtimes following a crash





## MAINTENANCE ACCESS

The maintenance door located directly next to the operator allows quick access to all important components of the machine to reduce downtimes to a minimum.

# EXPLORE THE WORLD OF

# MX

MACHINING  
TRANSFORMATION

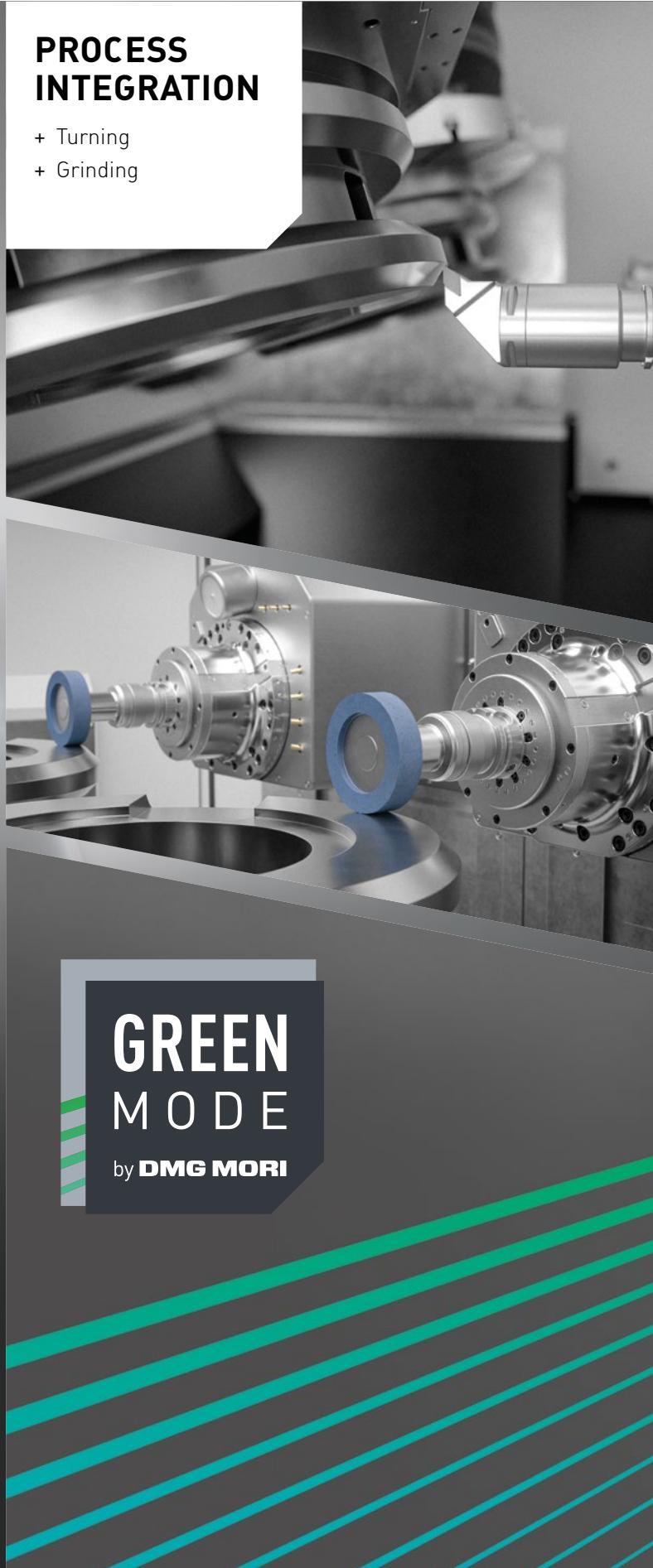
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Machining Transformation (MX) by means of process integration, automation, digitalization and sustainability.

- + Workpieces are efficiently manufactured on a single technology-integrated machine
- + Better utilization of a complete machining center rather than partial utilization of several simple machines
- + Additional low-manpower or unmanned night and weekend shifts thanks to automated manufacturing solutions
- + Digital solutions create competitive advantages by improving work processes and generating new ways of improving efficiency and reducing power consumption

## PROCESS INTEGRATION

- + Turning
- + Grinding



**GREEN  
M O D E**

by **DMG MORI**

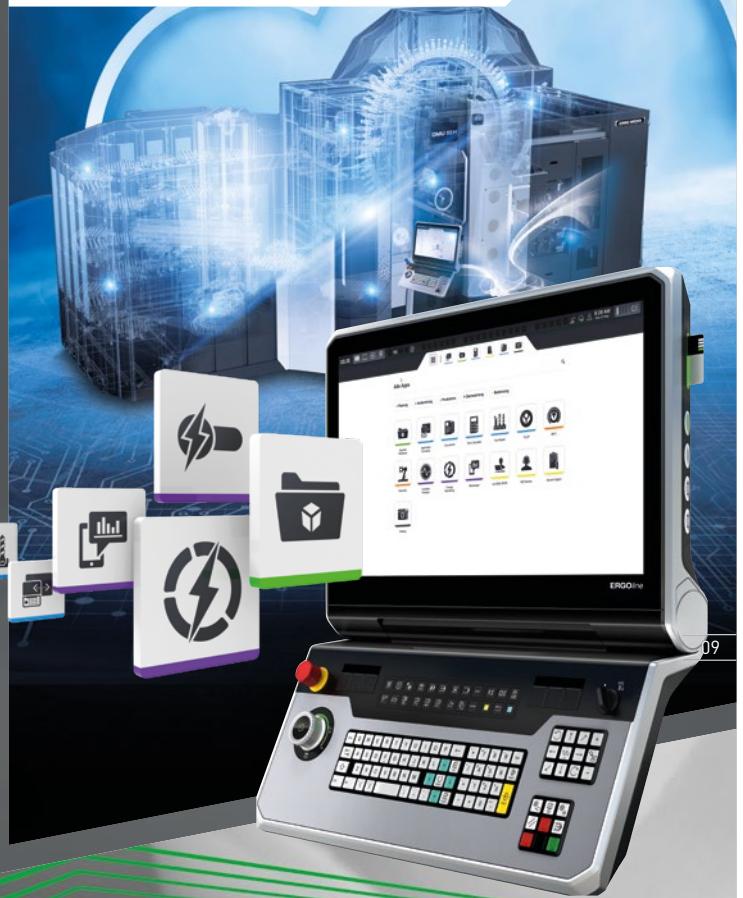
## AUTOMATION

- + Production cell with robotic loading
- + Pallet handling with the PH Cell



## DX – DIGITAL TRANSFORMATION

- + CELOS X
- + Exclusive DMG MORI Technology Cycles



DMU/C 55 H Twin

# Turning

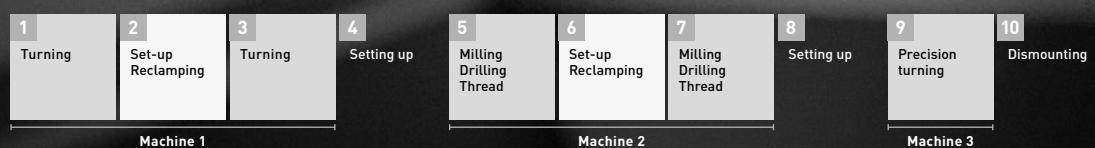
## HIGHLIGHTS DMU/C 55 H TWIN

- + Complete machining thanks to milling and turning in a single setup on one machine with Direct Drive technology for up to 1,200 rpm
- + Lower investment costs and smaller footprint thanks to the use of a single machine
- + Faster machining times and reduced logistics due to the elimination of downtimes and work steps – lower unit costs and greater precision
- + Up to 1,200 revolutions for high cutting speeds even when machining close to the centre and small components

## Conventional machining process with single-purpose machines

### Conventional machining process:

3 machines  
10 machining steps



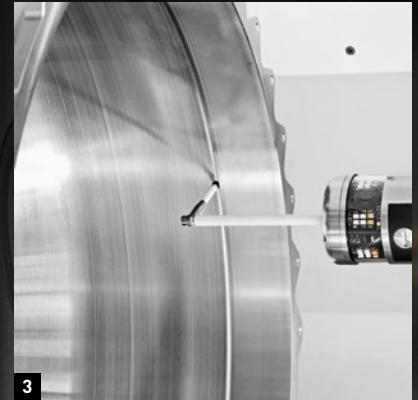
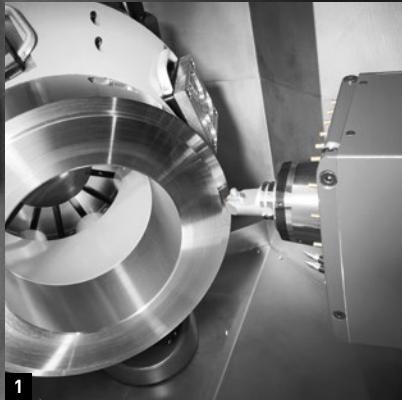
## Complete machining process DMU FD | DMC FD machines

### Complete machining process:

1 machine  
4 machining steps

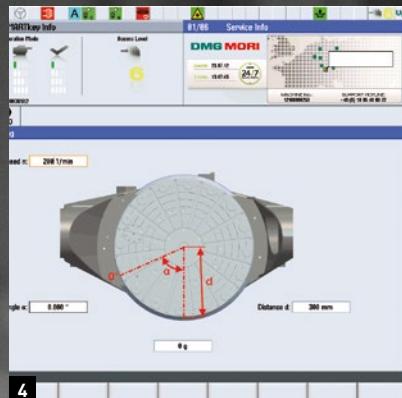


**300 %** MORE PRODUCTIVITY



- 1: Tilted turning with A-axis
- 2: Use of multi-bladed tools (up to nine blades)\*
- 3: Measuring cycles for in-process workpiece measurement\*
- 4: Electronic balancing
- 5: Measurement of turning and milling tools\*

\*Option



## Exclusive mill-turn cycles

- + Tilted turning with A-axis
- + **Multitool:** Use of multi-blade tools (up to nine blades on one tool)\*
- + **Measuring cycle for (L-) touch-probe:**  
Calibrate touch-probes in the work space, measure grooves and undercuts, save measuring data, output and transmit\*
- + **Milling and turning tool measurement\***
- + **Alternating speed**, process validation by means of avoiding vibration\*
- + **Imbalance** determination, checking and monitoring

\*Optional

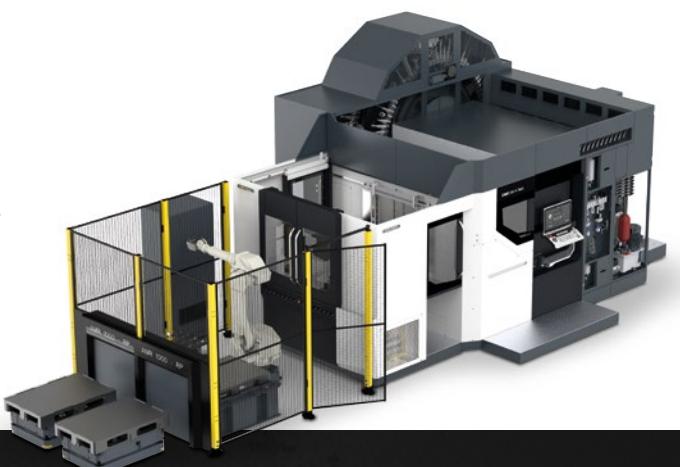
DMU/C 55 H Twin

# Automation-ready!

The flexible automation solutions from DMG MORI provide maximum machine utilization and therefore lead to a reduction in machining and personnel costs. The DMG MORI automation solutions range from machine-integrated solutions to advanced systems for linking several machines together. The main focus is always on the accessibility of the working area and the ergonomics for the operator. All automation solutions shown are available on request.

## ROBOT CELL

- + Productivity through workpiece handling (low-mix high-volume)
- + High reproducibility ensures high process stability
- + Modular design for customer-specific requirements
- + Customized gripper solution (e.g., double workpiece gripper)



## LPP 2000

- + Connection of up to 8 machines to one system
- + Up to 99 pallets and up to 5 setup stations
- + Thanks to integrated double pallet changer ideal for loading directly into the work area
- + Retrofitting is possible (e.g., machines or additional storage spaces)



## PH CELL 2000

- + Double fork for simultaneous replacement of both pallets
- + Maximum transfer weight of 2,000 kg
- + Modular concept with up to 21 double pallets (total 42 pallets)
- + Integrated pallet changer for fast pallet changes
- + With DMG MORI Pallet Master software



## GANTRY LOADER

- + Customized solution for high productivity
- + Most space-efficient concept
- + Central workpiece storage possible
- + Can be combined with a central tool magazine
- + Loading through the open roof



DX – DIGITAL TRANSFORMATION

# CELOS X – The future-proof solution for manufacturing

CELOS X platform offers a holistic solution for the digital transformation. Combined with the ERGOline X control panel, manufacturing companies will increase their competitiveness worldwide.

CELOS X consists of the two components **CELOS Xchange**, the open, secure and scalable data platform, and **CELOS Xperience**, which gives access to all applications and systems within the CELOS X ecosystem. This enables a comprehensive and seamless digital experience for the user with the goal of easy machine operation, extended spindle hours while maximizing energy efficiency. CELOS X is therefore the centerpiece of the digital transformation (DX) and a significant contribution to DMG MORI's Machining Transformation (MX) strategy.



Further information on  
CELOS X can be found at:  
<https://celos.dmgmori.com>

## HIGHLIGHT APPS



### Operator Workbook

Optimal order processing in the office and throughout the shopfloor.



### Application Connector

Operate IT-systems directly on the control panel.



### Monitoring

Increase planning reliability and productivity through digital transparency.



### Tool Master

Manage tools directly on the machine.



### Energy Saving

Optimize the machine's carbon footprint by managing and reducing energy consumption.



### Energy Monitoring

Track and monitor the energy consumption of the machine.

**3**  
GOALS

**>30**  
APPS

**>300**  
FEATURES



ALL YOUR DATA IN

## CELOS Xchange

POWERED BY DMG MORI CONNECTIVITY

ALL APPS IN

## CELOS Xperience

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### EASY OPERATION

In the manufacturing industry, the userfriendliness and ease of operation of machine tools plays a decisive role for the efficiency and productivity.

#### ADDED VALUE

- + Faster programming
- + Reduction of errors
- + Increased efficiency



### EXTENDED SPINDLE HOURS

In addition to easy operation, productivity is another crucial parameter, which requires a holistic view across all production processes.

#### ADDED VALUE

- + Optimization of set-up processes & capacity planning
- + Shorter processing times and order changes
- + Increased machine availability



### ENERGY EFFICIENCY

The energy efficiency of machine tools is of utmost importance to DMG MORI and CELOS X makes a valuable contribution to this, adding direct value to the customer.

#### ADDED VALUE

- + Real-time monitoring of energy consumption
- + Automated adaptation of energy requirements to machining processes
- + Optimized & demand-driven air and cooling lubricant supply

CONTROL TECHNOLOGY

## ERGOline X – Innovative control panels for every type of controller

The ERGOline X control panel provides the machine operator with an even more intuitive user experience, whereby the ergonomics and the functionality in particular have been optimized. The ERGOline X control panel gives the user access to CELOS Xperience and the native NC controller.



**24" ERGOline X Panel**  
mit Sinumerik ONE und CELOS X

### SMARTride

- + Integrated panic function to instantly reduce the feed rate/rapid traverse to 0
- + Integrated haptic feedback to recognize 0 % & 100 %
- + Feed rate, rapid traverse & NC-start combined in one control element

### CONNECTIVITY

by **DMG MORI**

- + Standard connectivity thanks to integrated IoTconnector
- + MDE (Machine Data Recording) possible
- + Automatic output of at least 17 standardized production status signals
- + Openness to third-party products
- + Communication in accordance with standard protocols:



## SMARTkey

- + Compact credit card format
- + Personalized access rights depending on user level
- + Independently customizable SMARTkeys

## CELOS X

Uniform user interface,  
independent of the CNC control.

## SIEMENS SINUMERIK ONE

- + Maximum speed and shorter idle times
- + Standard SIEMENS control interface
- + 3D shop floor programming exclusively for DMG MORI
- + Feature-based programming in Shop Mill/Turn directly on the machine
- + Compatibility with SIEMENS 840d Solutionline and 828d

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## MACHINE SIGNALS VIA OPC-UA, MTCONNECT AND MQTT

### MACHINE DATA

1. Serial number of the machine
2. Operating hours
3. Machine on hours

### MACHINE STATUS

4. Status display
5. Number of alarms
6. Messages, alarms, warnings
7. Control mode
8. Machine version status

### PRODUCTIVITY

9. Workpiece counter, current
10. Workpiece counter, total
11. Target quantity
12. Current program runtime

### PROCESS DATA

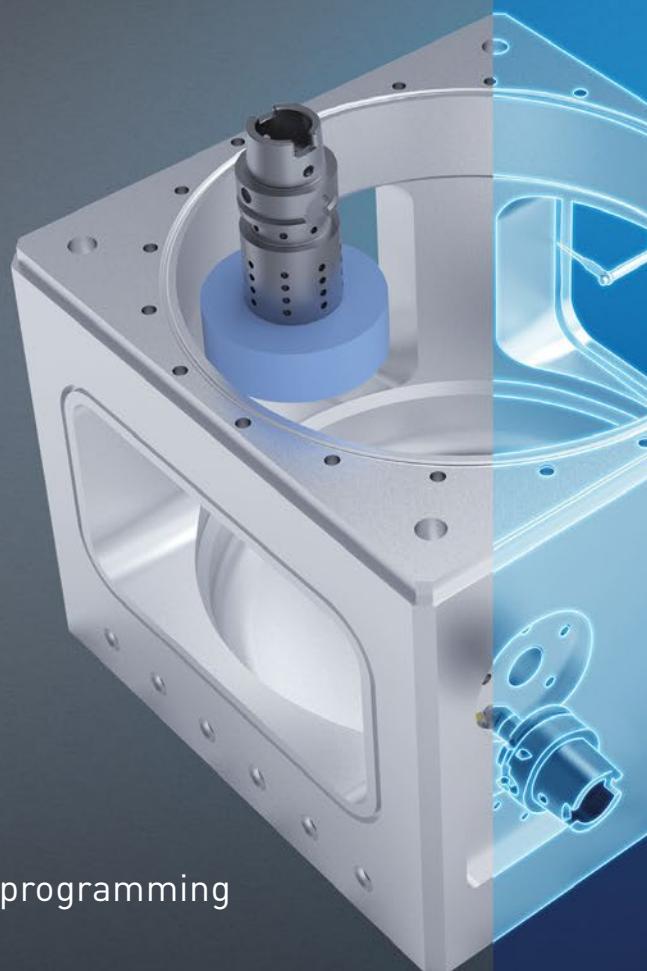
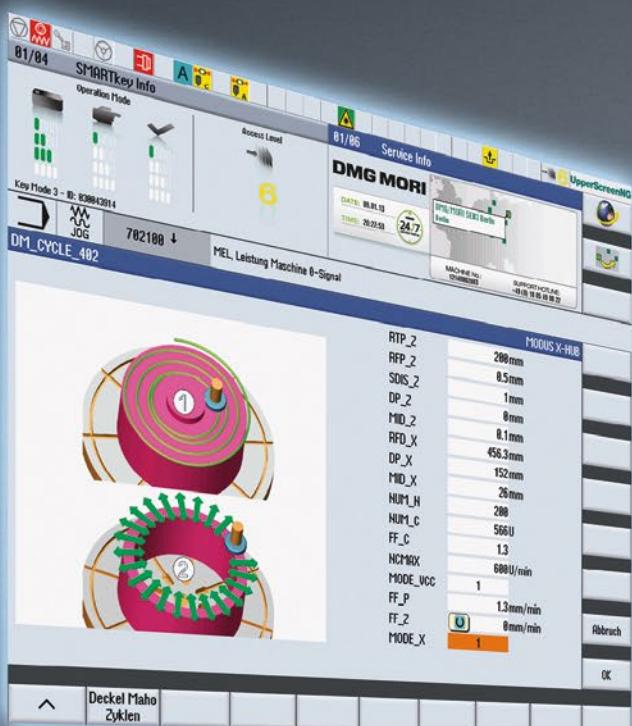
13. Spindle speed correction
14. Fast speed correction
15. Infeed correction
16. Active tool
17. Name of the current NC program

### ADDITIONAL MACHINE SIGNALS

Machine-specific signals, e.g. spindle speed, coolant status etc.

DMG MORI TECHNOLOGY CYCLES:

**Complex machining, realized in a simple way! Up to 60 % faster due to dialog-assisted programming.**



**With** technology cycles – dialog-assisted programming

- + Clear programming structure
- + Up to 60 % faster programming
- + Fault minimization by means of dialog-assisted programming
- + Technology integration (gearing, grinding)
- + Technology know-how saved in the program

**Without** technology cycles – classic DIN programming

- + Long programs
- + Unclear structure
- + Difficulties during re-entry
- + User-dependent know-ho

The exclusive DMG MORI technology cycles are genuine assistants for shop floor-oriented programming for boosting productivity and safety and enhancing machine capability.



## 3D quickSET

**Achieving the highest level of accuracy quickly and easily**

- + Tool kit for checking and correcting the kinematic accuracy of 4-axis and 5-axis machine configurations
- + All head variants and each table axis



## Application Tuning Cycle

**Process optimization at the push of a button**

- + Process-oriented tuning of the feed drives
- + Minimization of machining time while maximizing the relevant component quality, also in dependence on the workpiece weight
- + High surface quality during finishing



## TCC – Tool Control Center

**Process safety and efficiency**

- + Chip detection on face and taper support
- + Monitoring of pull force
- + Detection of broken cutting edges in the process by means of symmetry monitoring of the bending moment per cutting edge (polar plot)



## Maintenance Package i4.0

**Reduced maintenance without manual intervention**

- + Automatic detection of tool clamping force for consistently high process stability
- + Leakage detection and consumption measurement of the pneumatic system



If your mobile phone has QR code recognition software, you will be taken directly to all of the information about the DMG MORI technology cycles.



## MPC 2.5 Machine Protection Control

**Machine protection by means of rapid shutdown**

- + Rapid shutdown in case of a crash
- + Torque monitoring for drilling and thread-cutting
- + Analysis of imbalance for tools
- + Milling spindle bearing status diagnosis
- + Automatic sister tool change in dependence on tool life and MPC reaction in the process

DMU/C 55 H Twin

## Twin Power – Flexibility and Productivity in Perfect Harmony

True greatness comes from within. With a compact footprint, the DMU/C 55 H Twin offers space for two components up to 630 mm in diameter and weighing up to 400 kg. The work area can be loaded from above without restriction, and with the standard stainless steel lining of the work area, the machines offer high value retention.

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DMC 55 H Twin **Just 24.6 m<sup>2</sup>**

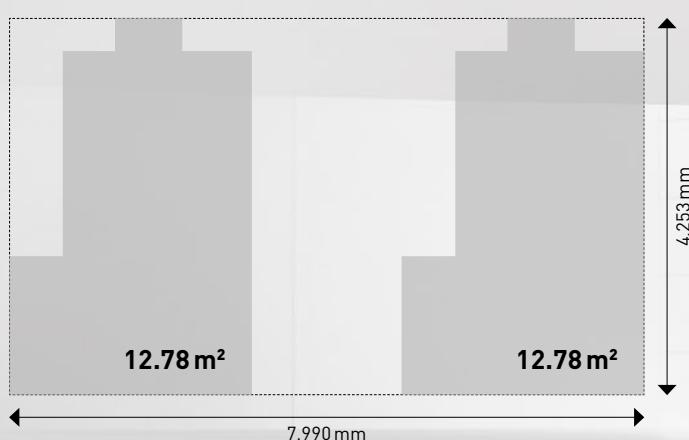
DMU 55 H Twin **Just 18.4 m<sup>2</sup>**

**-45%**

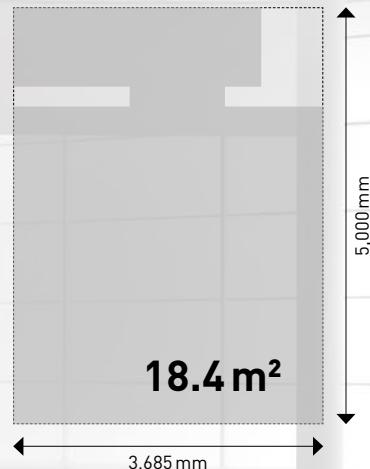
SMALLER  
FOOTPRINT

## Footprint

2x DMU 65 H monoBLOCK



DMU 55 H Twin



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Travel X/Y/Z	mm
Spindle distance	mm
Rapid traverse	mm
Acceleration	m/s <sup>2</sup>
Tool diameter	mm
Tool length	mm
Chip-to-chip time	s
Workpiece dimensions	mm

DMU/C 55 H Twin

580/750/500

640

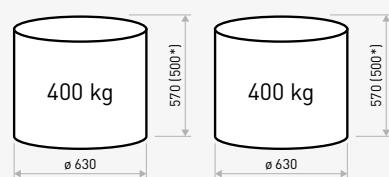
75/100/75

7/10/8

160

400

2.9



\*DMC variants

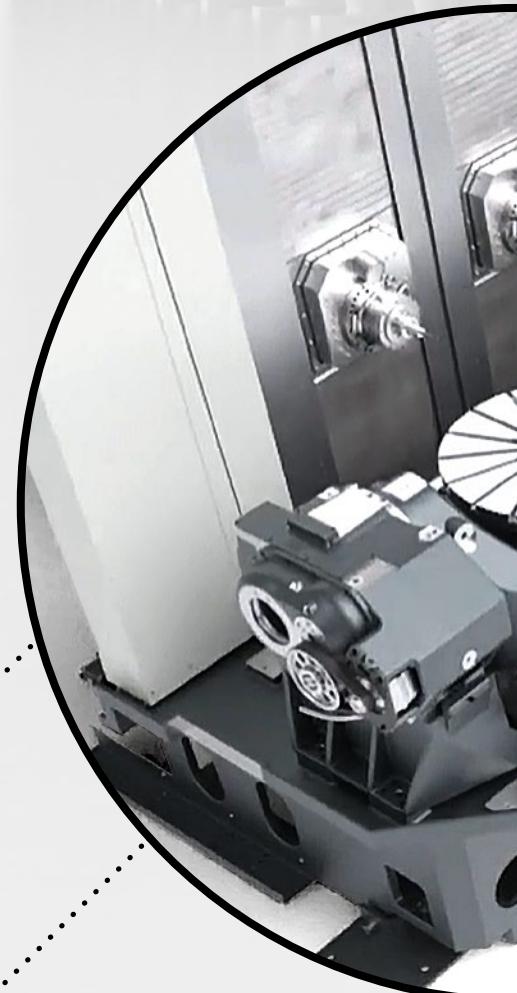
DMU/C 55 H Twin

# Flexible!



## TOOL MAGAZINES

2 - 5 wheels and up to  
214 pockets per spindle  
(428 pockets total)



## TABLES



4-axis table



5-axis table



FD table



Small swivel bridge  
HSK/Capto (2 or 4 B axes)



Double trunnion  
(2x 2 or 4 B axes)

## MOTOR SPINDLES HSK-A63/SK40



15,000 rpm  
111 Nm  
21 kW



15,000 rpm  
200 Nm  
46 kW



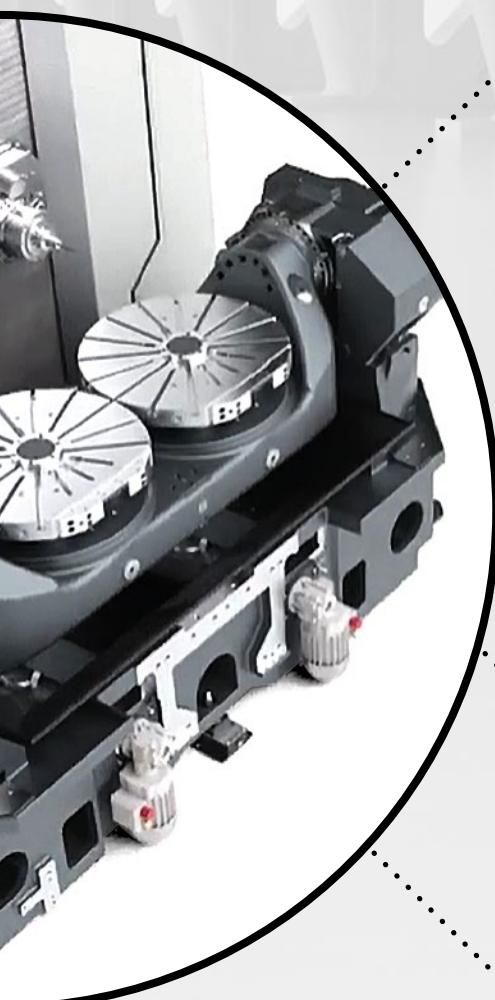
20,000 rpm  
130 Nm  
35 kW



24,000 rpm  
130 Nm  
35 kW



30,000 rpm  
67 Nm  
40 kW

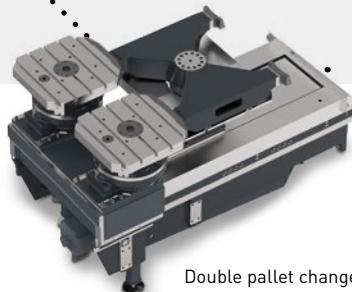


## CONTROL

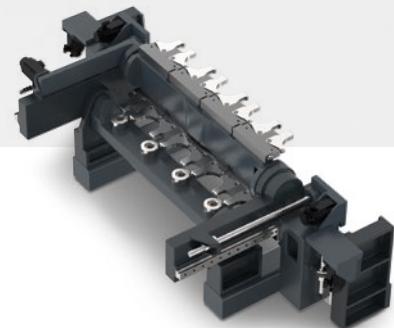
CELOS X  
SIEMENS Simuerik ONE  
ERGOline X control panel



## PALLET/ WORKPIECE CHANGER



Double pallet changer



Workpiece changer  
(2 or 4 x HSK/Capto)

DMU/C 55 H Twin

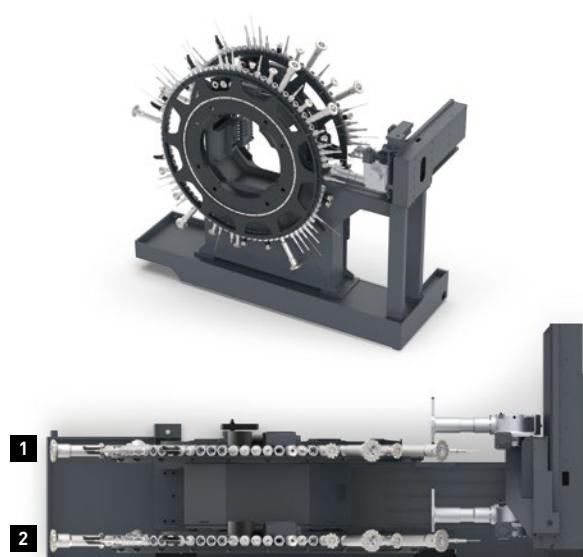
## Technical data tool magazines

DMU/C 55 H Twin	Wheel magazine	
	small wheel	big wheel
Spindle taper	HSK-A63/SK 40	HSK-A63
Number of magazine pockets	123 (1×60 + 1×63) 183 (2×60 + 1×63) 303 (4×60 + 1×63)	173 (1×85 + 1×88) 258 (2×85 + 1×88) 428 (4×85 + 1×88)
Tool diameter (free adjacent pockets) mm	160	160
Tool diameter (occupied adjacent pockets) mm	80	80
Tool length mm	400	400
Tool weight kg	15	15

### Wheel magazine – Option setup wheel

**WITHOUT SETUP WHEEL**

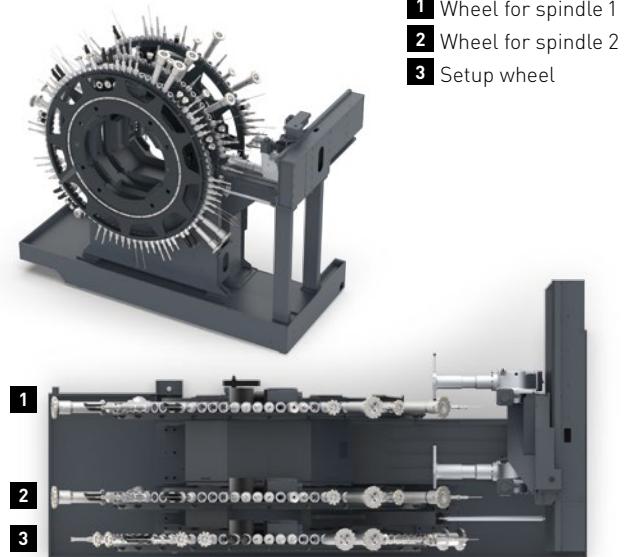
120 or 170 pockets



In the configuration with 2 wheels, where each wheel carries the tools for one spindle, the tools can be set up in parallel during non-productive time. Here, the outer wheel, which is fully occupied (+3 pockets), serves as the setup wheel.

**WITH SETUP WHEEL**

183/303 or 258/428 pockets



In the configuration with 3 or 5 wheels, where each spindle has one or two wheels of its own, the additional external setup wheel makes it possible to set up the tools during both main and non-productive time, as well as to keep spare/sister tools on hand.

## HIGHLIGHTS

- + Compact footprint
- + 2.9 sec. chip-to-chip time
- + Up to 428 tools/214 per spindle possible
- + One setup wheel starting from 3 wheels
- + Setup in batches on the setup wheel parallel to main and non-productive time – Maximum productivity without downtime
- + 400 mm tool length
- + NC program-dependent, fully automatic tool sorting cycle parallel to main time – Shortest tool provisioning times
- + Taper cleaning and tool breakage monitoring

**RAD-MAGAZIN**

MIT BIS ZU  
428 PLÄTZEN

DMU/C 55 H Twin

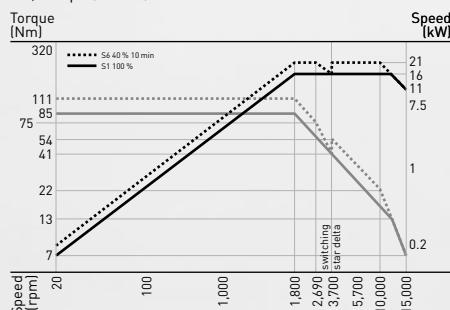
# Largest and most modern spindle range

With its extensive spindle portfolio, the DMU/C 55 H Twin is ready for any machining task. The speedMASTER spindles with up to 30,000 rpm ensure mirror-like surfaces and high metal removal rates in aluminum. The in-house developed motor spindles of the MASTER series are characterized by a particularly long warranty of 36 months with no spindle hour limit. Thanks to the ingenious cartridge design, the spindle can be quickly replaced in the event of collision damage and the machine is ready for use again in no time.

## Motor spindles speedMASTER

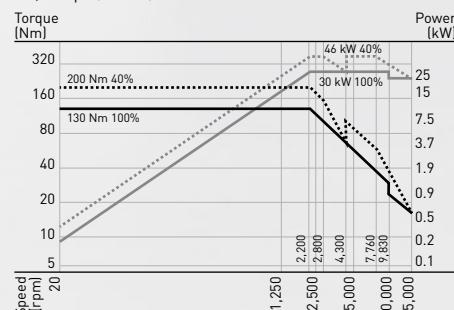
### SK40 / HSK-A63 (standard)

15,000 rpm / 21 kW / 111 Nm



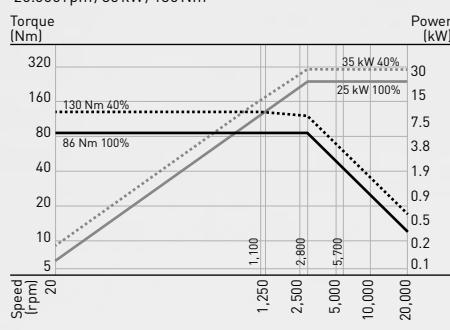
### SK40 / HSK-A63 (option)

15,000 rpm / 46 kW / 200 Nm



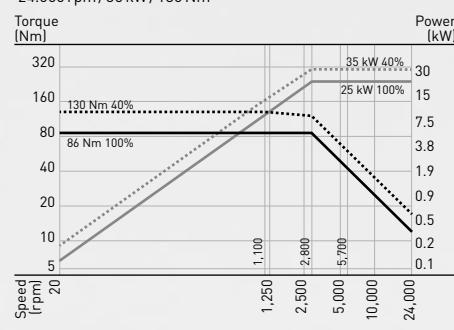
### SK40 / HSK-A63 (option)

20,000 rpm / 35 kW / 130 Nm



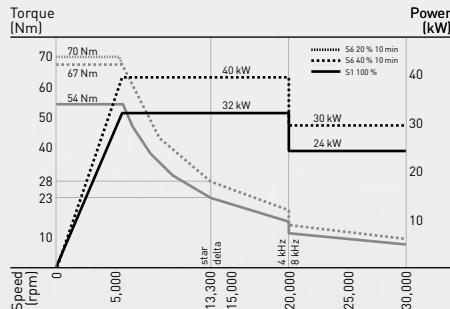
### HSK-A63 (option)

24,000 rpm / 35 kW / 130 Nm



### HSK-A63 (option)

30,000 rpm / 40 kW / 67 Nm



DMU/C 55 H Twin

## Table versions for every application

### Swivel-rotary table

4-axis table
4-axis table with pallet support
5-axis table (opt. DirectDrive B-axis, opt. FD)
5-axis table with pallet support (opt. DirectDrive B-axis, opt. FD)
Small swivel bridge with 2× B-axis (HSK/Capto)
Small swivel bridge with 4× B-axis (HSK/Capto)
Double trunnion 2× A-axis, 2× B-axis each
Double trunnion 2× A-axis, 4× B-axis each

• standard   ◦ option   – not available

### DMU 55 H Twin

### DMC 55 H Twin

•
–
◦
–
◦/◦
◦/◦
◦
◦

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		DMU/C 55 H Twin	Intended use
<b>4-axis table</b>			
Table dimensions	mm	2× 500×500	+ Highly productive machining
Max. loading weight	kg	2×600	
Swivel range A-axis	◦	-	
Rotation range B-axis	◦	360	
Speed A-axis	rpm	-	
Speed B-axis	rpm	40	
<b>5-axis table</b>			
Table dimensions	mm	2× 500×500/2× ø 630	+ Universal machining center for flexible requirements
Max. loading weight	kg	2×400	+ 5-axis simultaneous machining of complex components
Swivel range A-axis	◦	30/-210	
Rotation range B-axis	◦	360	
Speed A-axis	rpm	20	
Speed B-axis	rpm	40/DD: 80/FD: 1.200	
<b>Small swivel bridge</b>			
Table dimensions	mm	2/4×ø 310	+ Ideal for automation solutions in large-scale production
Max. loading weight	kg	4×50	+ With 2 or 4 B-axes
Swivel range A-axis	◦	30/-210	+ Maximum flexibility thanks to standardized clamping device with Capto C8
Rotation range B-axis	◦	360	+ Increased productivity thanks to workpiece change in 7 seconds
Speed A-axis	rpm	20	
Speed B-axis	rpm	80	
<b>Double trunnion</b>			
Table dimensions	mm	4×ø 630/8×ø 310	+ Ideal for automation solutions in large-scale production
Max. loading weight	kg	4×200/8×100	+ With 2 or 4 B-axes
Swivel range A-axis	◦	30/-210	+ Setup parallel to main processing time
Rotation range B-axis	◦	360	+ Highest productivity thanks to workpiece change in 3 seconds
Speed A-axis	rpm	20	
Speed B-axis	rpm	80	



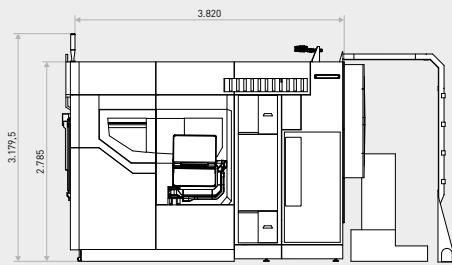
DMU/C 55 H Twin

# Layouts

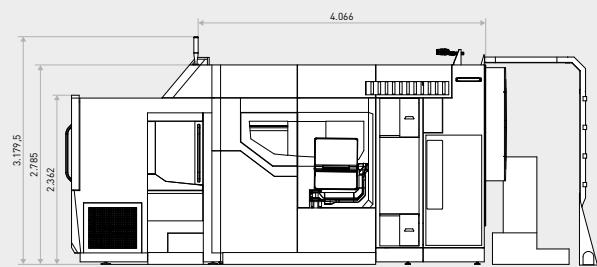
Thanks to the innovative and space-saving wheel magazine, the DMU and DMC H Twin can be placed very close together in flexible manufacturing systems, which increases floor space productivity.

**DMU 55 H Twin**

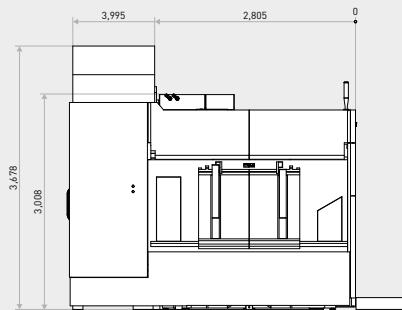
Side view without wheel magazine

**DMC 55 H Twin**

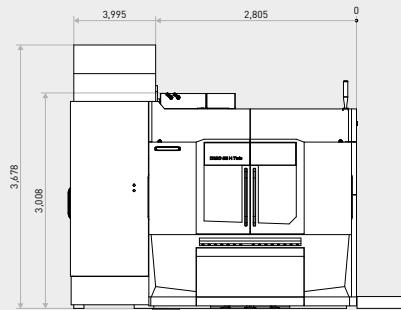
Side view with wheel magazine

**DMU 55 H Twin**

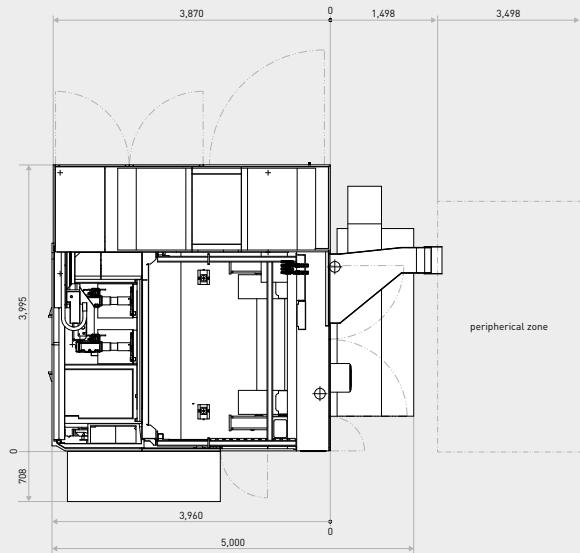
Front view without wheel magazine (258 or 343 tools)

**DMC 55 H Twin**

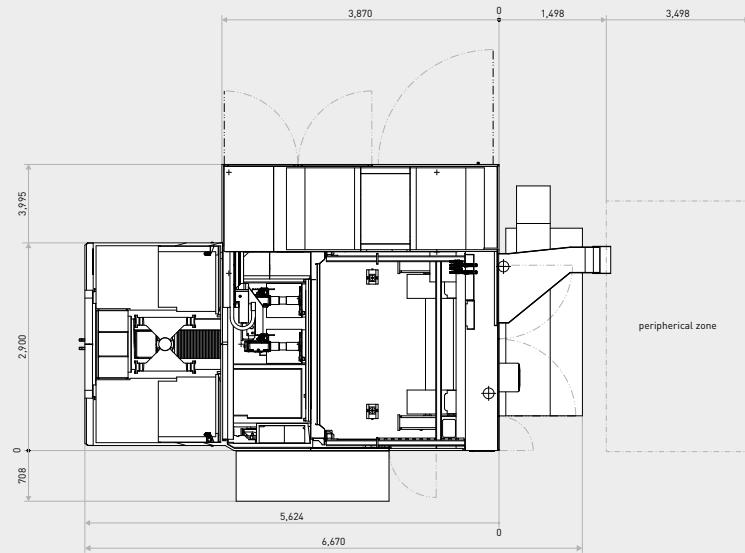
Front view with wheel magazine (258 or 343 tools)

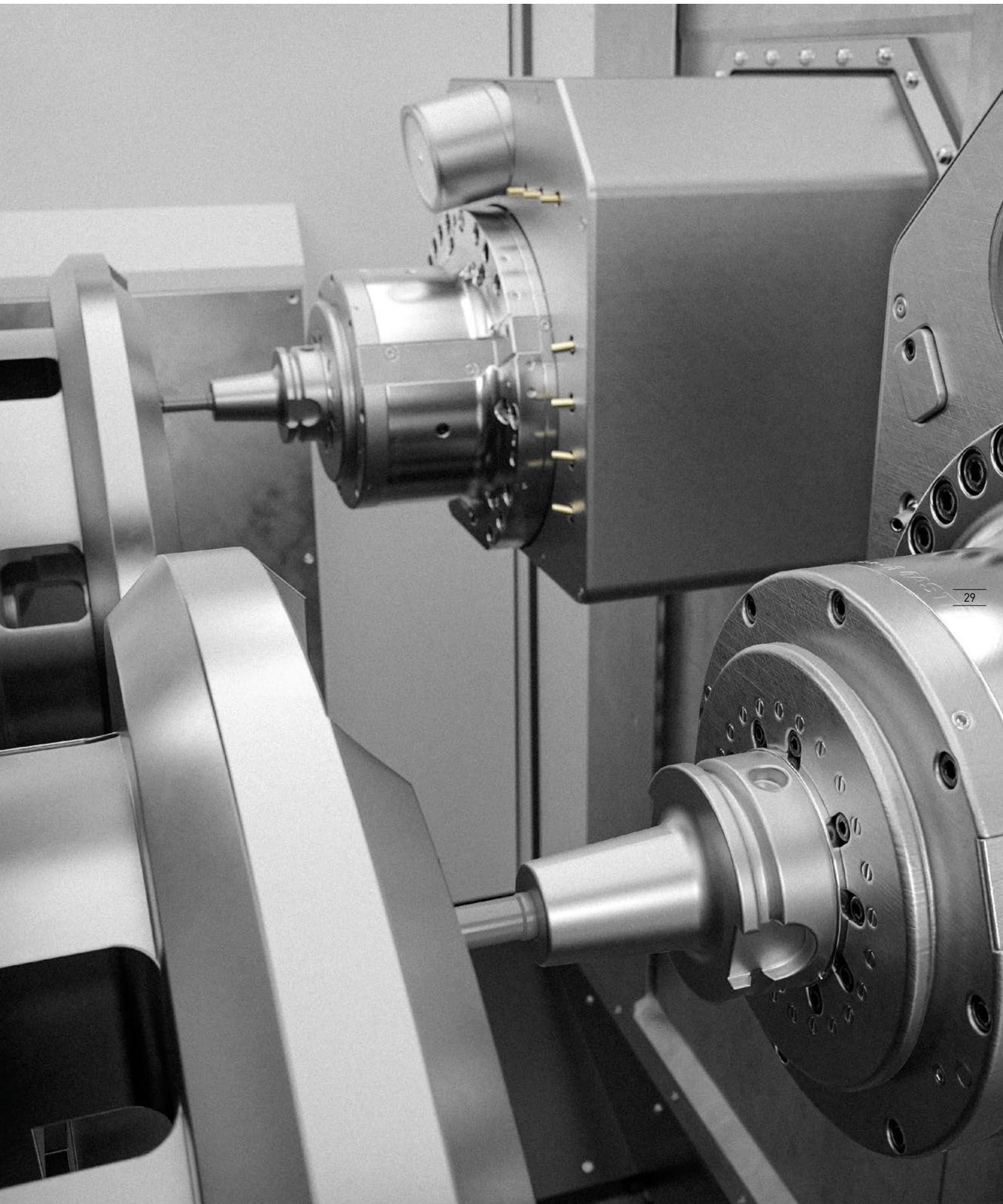
**DMU 55 H Twin**

Top view without wheel magazine (258 or 343 tools)

**DMC 55 H Twin**

Top view with wheel magazine (258 or 343 tools)





DMU/C 55 H Twin

# Technical data

		DMU 55 H Twin	DMC 55 H Twin
<b>Work area</b>			
Travel in X/Y/Z-axis	mm	580/750/500	
Distance between spindles	mm	640	
Distance between spindle nose and center of pallet	mm	90	
<b>Linear axes (X/Y/Z)</b>			
Feed rate/rapid traverse (X/Y/Z) [Standard]	mm/min	75/100/75	
Acceleration (X/Y/Z) [Standard]	m/s <sup>2</sup>	7/10/8	
P <sub>max.</sub> (X/Y/Z) – VDI DGQ 3441/ISO 230-2	µm	5	
<b>Table/Clamping surface/Workpieces</b>			
NC rotary table	rpm	40	
Table dimensions	mm	2× 400×400/2× 500×500/FD: 2× ø 630	
Workpiece weight	kg	2×400	
Workpiece diameter	mm	630	
Workpiece height (DMU/DMC)	mm	570	500
<b>Main drive</b>			
Integrated motor spindle HSK-A63	rpm	15,000	
Power (40/100 % ED)	kW	111/85	
Torque (40/100 % ED)	Nm	21/16	
<b>Tool change system</b>			
Max. Tool length (wheel magazine)	mm	400	
Max. tool diameter	mm	160	
Max. Tool weight HSK-A63	kg	15	
Chip-to-chip time	sec.	2.9	
<b>Machine data</b>			
Machine weight (DMU/DMC)	t	17.5	21
<b>Control</b>			
CELOS X with SIEMENS Sinumerik ONE		•	

● standard ○ option

# Options

	DMU 55 H Twin	DMC 55 H Twin
<b>Table options</b>		
4-axis table	●	-
4-axis table with pallet support	-	●
5-axis table (opt. DirectDrive B-axis, opt. FD)	○	-
5-axis table with pallet support (opt. DirectDrive B-axis, opt. FD)	-	○
Small swivel bridge with 2× B-axis (HSK/Capto)	○/○	○/○
Small swivel bridge with 4× B-axis (HSK/Capto)	○/○	○/○
Double trunnion 2×A-axis, 2×B-axis each	○	○
Double trunnion 2×A-axis, 4×B-axis each	○	○
Clamping hydraulics for table and setup station	○*	○*
e-Pallet interface	○*	○*
<b>Main drive</b>		
Motor spindle HSK-A 63 15,000 rpm   21 kW/111Nm [40 % ED]	○	○
Motor spindle HSK-A 63 15,000 rpm   46 kW/200Nm [40 % ED]	○	○
Motor spindle HSK-A 63 20,000 rpm   35 kW/130Nm [40 % ED]	○	○
Motor spindle HSK-A 63 24,000 rpm   35 kW/130Nm [40 % ED]	○	○
Motor spindle HSK-A 63 30,000 rpm   40 kW/67Nm [40 % ED]	○	○
<b>Tool taper</b>		
HSK-A63/SK40	○	○
<b>Tool magazine</b>		
Wheel magazine 123 (1×60 + 1×63) Pockets (HSK-A63)	●	●
Wheel magazine 183 (2×60 + 1×63) Pockets (HSK-A63)	○	○
Wheel magazine 303 (4×60 + 1×63) Pockets (HSK-A63)	○	○
Wheel magazine 173 (1×85 + 1×88) Pockets (HSK-A63)	○	○
Wheel magazine 258 (2×85 + 1×88) Pockets (HSK-A63)	○	○
Wheel magazine 428 (4×85 + 1×88) Pockets (HSK-A63)	○	○
<b>Automation / Measuring / Monitoring</b>		
Infrared measuring probe: BLUM TC60/RENISHAW PP60 optical (OMP 60) (2×)	○	○
Tool measurement in the working area – BLUM Laser DIGILOG (2×)	○	○
Mechanical tool breakage monitoring (2×)	○	○
SGS - Spindle Growth Sensor (2×)	○	○
rotoLENS (2×)	○	○
4-color signal lamp	○	○
<b>Cooling media / chip disposal</b>		
ICS coolant system 80 bar, 980 l, frequenzgeregelt	●	●
Spray pistol	○	○
Minimum quantity lubrication internally through spindle center, externally via nozzles	○	○
Oil and emulsion mist separator	○	○
Cooling air blast - spindle center (2×)	○	○
<b>Technology cycles</b>		
3D quickSET (2×)	○	○
Machine Protection Control MPC	○	○
Sensor package i4.09	○	○
Maintenance Package I4.0	○	○
<b>General options</b>		
Laminated safety glass for viewing window	○	○
Electronic handwheel	○	○

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