Do It All.

RoboFMS ONE

Flexible Automation from 3 to 5 Axis

RoboFMS ONE opens up new possibilities, combining the reach of an industrial robot and flexibility of a fully integrated automation system. It can integrate nearly any machine tool or device, including 5-axis machining centers and machine tools without pallet changers.

5 x ONE BENEFITS

1 Timely and efficient production

Let the intelligent Manufacturing Management Software (MMS) take care of your production planning, scheduling and forecasting based on the latest data in your ERP and maximizing your resources in production.

2 24/7 operation without compromising the resting time

With RoboFMS ONE the 24/7 operation is possible without compromizing the resting time of your employees. MMS control makes sure that production rate remains high at all times.

3 Solution that adapts to your changing production needs

RoboFMS ONE can be extended later to adapt to changes in your production demands.

4 Turn your production phases one by one to an integrated process: any machines, devices and material management in one system

Make your automated process chains longer by integrating many types of machine tools and/or pallets and your material logistics flow into the same system for maximised spindle utilization and automatic just-in-time deliveries.

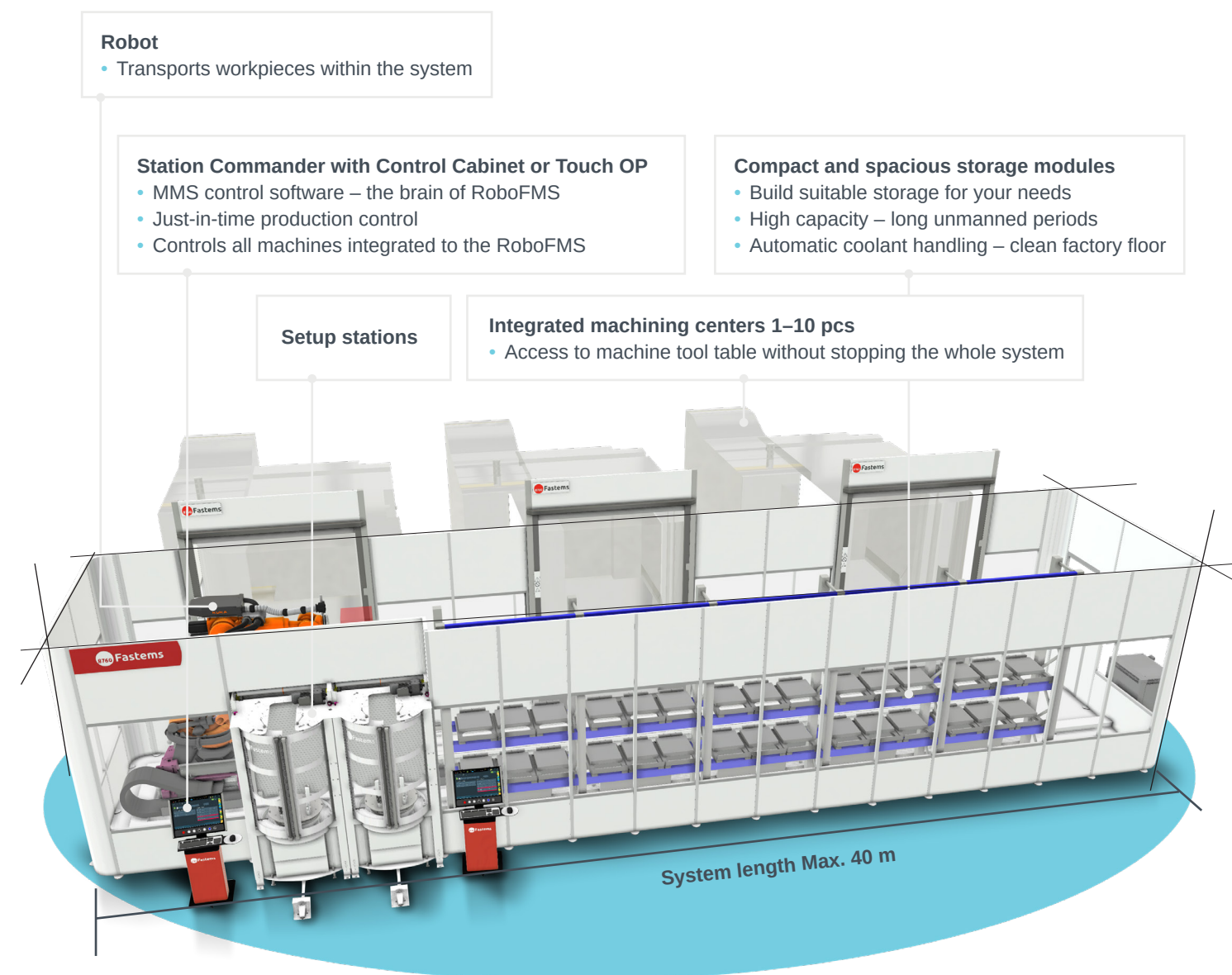**5** Compact fit on your shopfloor with spacious storage modules

RoboFMS ONE is built from compact modules to fit perfectly in any space.

The robotic ONE for you

- Automation for:
  - New generation 5-axis universal mills
  - Vertical milling machines
- Zero point technology for table loading
- Long reach for No-APC configurations
- 1–10 machine tools
- Up to 2 different machine types
- Load size 0–275 kg
- Possible to integrate material management

Do you want more?
If you want to ingrate additional processes or your load size is outside the scale, our other FMS solutions might work better for you! Please contact your sales representative for further information.

Robot
- Transports workpieces within the system

Station Commander with Control Cabinet or Touch OP
- MMS control software – the brain of RoboFMS
- Just-in-time production control
- Controls all machines integrated to the RoboFMS

Compact and spacious storage modules
- Build suitable storage for your needs
- High capacity – long unmanned periods
- Automatic coolant handling – clean factory floor

Setup stations

Integrated machining centers 1–10 pcs
- Access to machine tool table without stopping the whole system

System length Max. 40 m

Technical details

Technical data	ROBOFMS ONE-275
Robot nominal load (kg)	300
Typical base plate (mm)	Ø 300-630
Coolant management	Optional
Typical maximum payload (kg)	275
Maximum robot reach (mm)	2,490
Maximum load size (mm)	Ø 630
Maximum system length (m)	40
Load interfaces	
Schunk NSR	1 or 2 pcs
Forks	
Custom	
Storage modules	
A (D x H) (mm)	400 x 350 (6 pcs)
B (D x H) (mm)	630 x 550 (12 pcs)

H

D
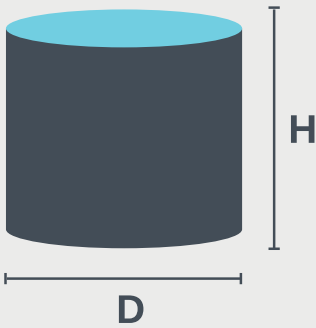
Example part pictures
for measuring H and D

Example configurations
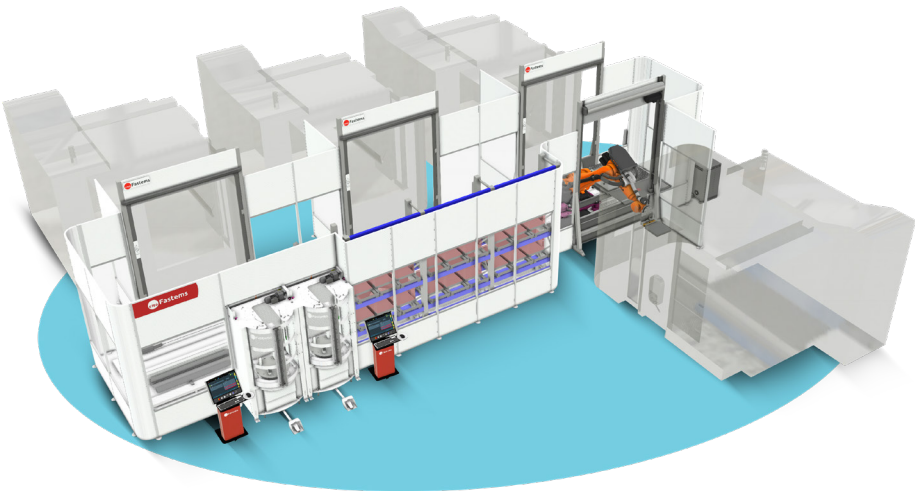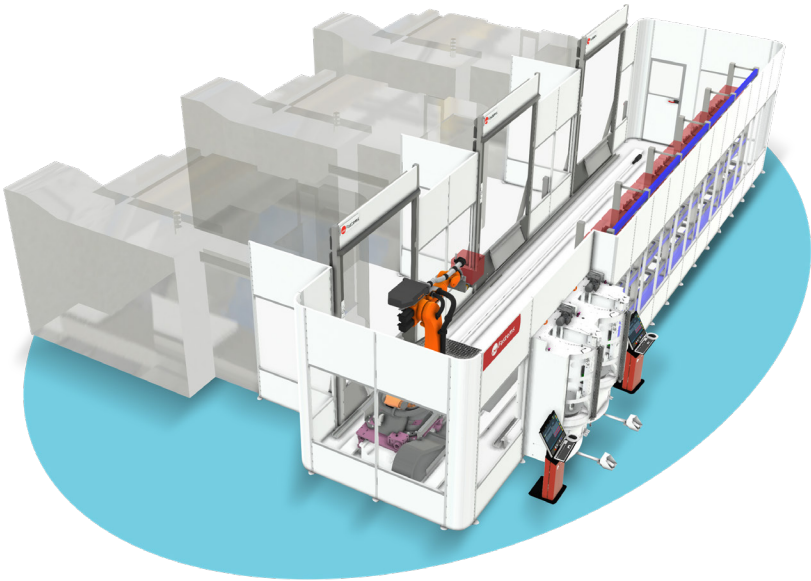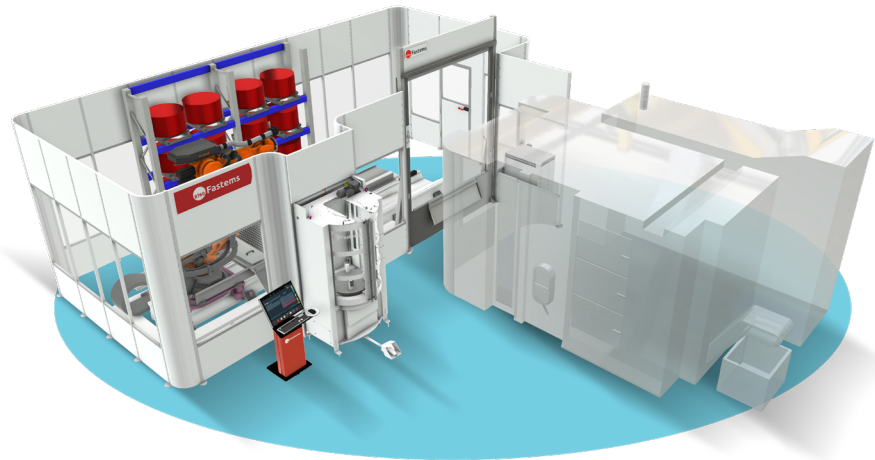
Build your modular RoboFMS ONE

Modules:

Loading station compact LSC
• Manually operated, indexable rotating base plate table.
• Load sizes up to 275 kg (Dia. 630 mm)
• Available with 1 or 2 base plate tables

Storage modules (2)
• Small footprint storage modules with high packing density
• Drip trays for coolant collection (optional)

KUKA robot
• Horizontal transfer movement, tilting of the base plate, and indexable rotating base plate table.

Gripper
• Schunk NSR
• Forks
• Custom

Choose your software

PERFORMANCE				
Machine Status Monitor MMS-5000				
Remote Alarm MMS-5100				

MATERIALS	ORDERS	PROGRAMS		PERFORMANCE	DOCUMENTS
Material Pallets MMS-2000	Order Progress Estimate MMS-3000	NC Program Transfer MMS-4100	**TOOLING**	Production History MMS-5500	
Automatic Material Delivery MMS-2100	ERP Interface MMS-3010	Automatic Imports from CAM MMS-4110	Tool Magazine View & Tool Checking MMS-4150	Dashboard MMS-6000	Production Documents MMS-9000
Production Management MMS-1500					
Quick Automation – Automation Core MMS-1000					

Optional	Standard

Manufacturing Management Software MMS

TRANSPARENT PROCESS CONTROL

MMS is the industry's most advanced production planning and execution software. MMS is always one step ahead by automatically calculating the optimized production workflow and necessary resources based on orders. MMS adapts automatically to unavoidable changes in the daily production schedule, keeping people informed and orders in time.

- **Adaptive for changes**

- **Automatic production scheduling**

- **Recognizes bottlenecks in advance**

- **Automatic resource balacing**

We are Fastems.
We are here for you.

"At Fastems, we believe that building and maintaining a strong manufacturing base is essential for the development of our society and the well-being of the people."

That is why we do everything in our power to increase the competitive advantage of our customers and to make their production facilities as efficient, profitable and forward-thinking as possible – through intelligent digitization and process automation.

- Decades of industry experience and more than 4,000 successfully installed systems worldwide
- Systems that optimize your time cycles, reduce costs and improve the usability of your existing machinery

- Systems that have been developed with the health and safety of your personnel in mind
- 24/7 support to ensure maximum productivity during all 8,760 hours of the year

We look forward to helping you determine the potential of your manufacturing processes and to finding a solution that is right for you!

RoboFMSONE I vers_01_ EN I 09/2018

Subject to technical changes

www.fastems.com