

DMG MORI

MODULAR AUTOMATION CONCEPT
FOR UP TO 99 PALLETS

LPP - LINEAR PALLET POOL

LPP-Series



Product highlights

Modular system kit

Product portfolio

Pallet Master Software

Layouts

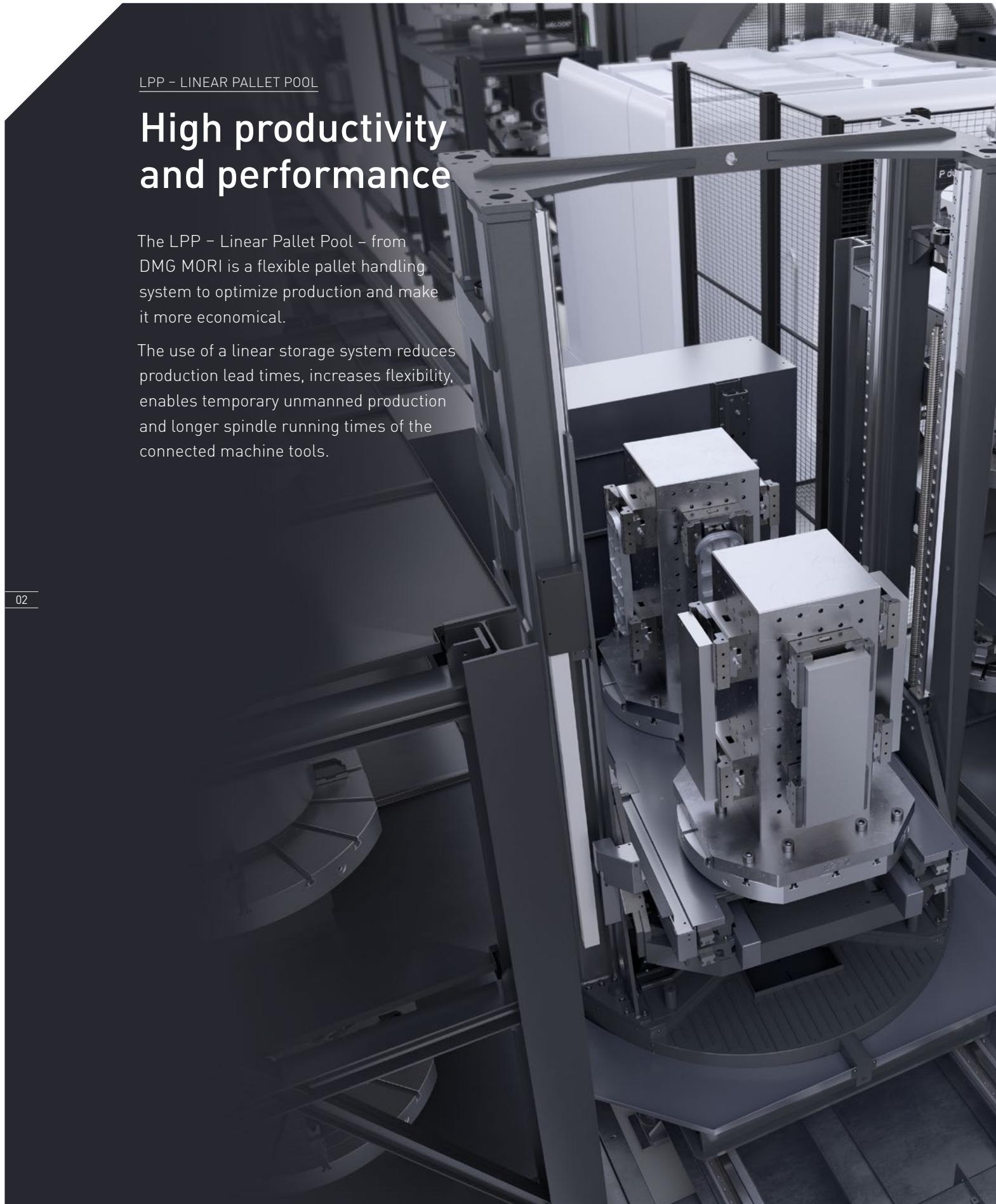
Technical data

LPP – LINEAR PALLET POOL

High productivity and performance

The LPP – Linear Pallet Pool – from DMG MORI is a flexible pallet handling system to optimize production and make it more economical.

The use of a linear storage system reduces production lead times, increases flexibility, enables temporary unmanned production and longer spindle running times of the connected machine tools.





Automated manufacturing solutions from DMG MORI enable future-proof production.



03

HIGHLIGHTS LPP – LINEAR PALLET POOL

- + **Cost-efficient and reliable** due to the use of standardized components
- + **Minimum space requirement** due to solution without transfer stations or integrated pallet changer in the machine
- + **Short assembly time** thanks to the prepared rail system and pre-assembled components
- + **Freely scalable** storage system for up to **99 storage places**, connection of up to **10 machines** and up to **5 set-up stations**
- + Workpieces **up to Ø 3,400 mm** and a transfer weight of up to **15 tons**
- + Pallets of sizes from **500 to 2,500 mm**
- + **DMG MORI master computer** MCC-LPS 4 in-house developed

[Product highlights](#)

Modular system kit

[Product portfolio](#)

[Pallet Master Software](#)

[Layouts](#)

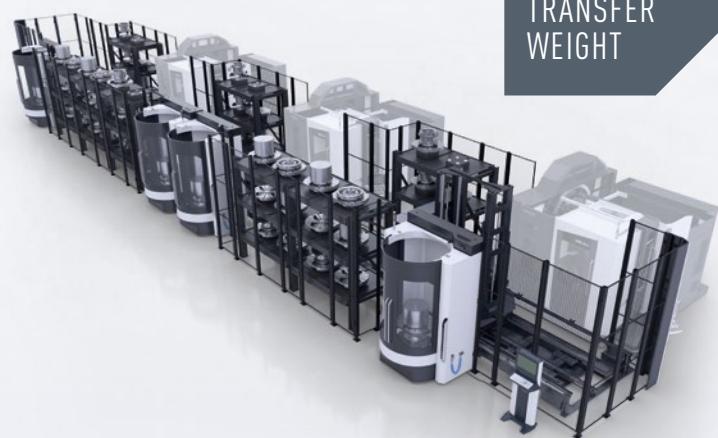
[Technical data](#)

LPP – LINEAR PALLET POOL

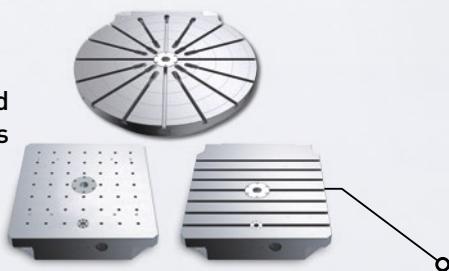
Modular construction kit!

UP TO
5,000 kg
TRANSFER
WEIGHT

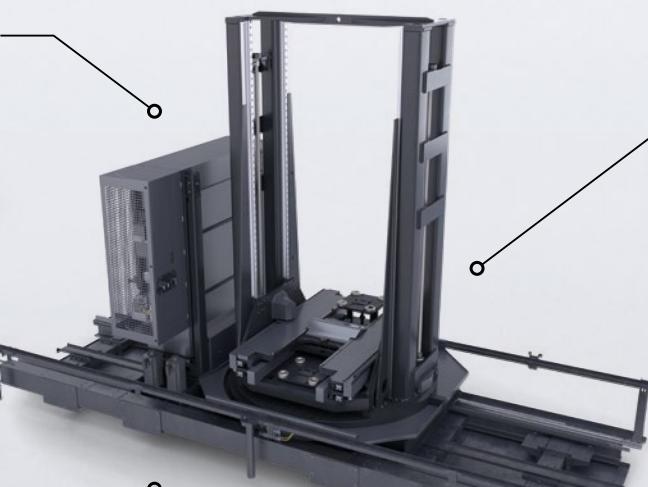
**LPP with Single
or Twin Fork Technology**



Customized
pallets



Up to 99
storage places



Master computer
MCC LPS 4 /
Operator panel



Up to 10 machines
NHX, H monoBLOCK, duoBLOCK



Up to 5
setup stations

Benefit from the modularity of the LPP. It can be individually configured according to customer requirements and is available either with a single or twin fork pallet handling device for a transfer weight of up to 6,000 kg or as a pallet shuttle for a transfer weight of up to 15 tons.

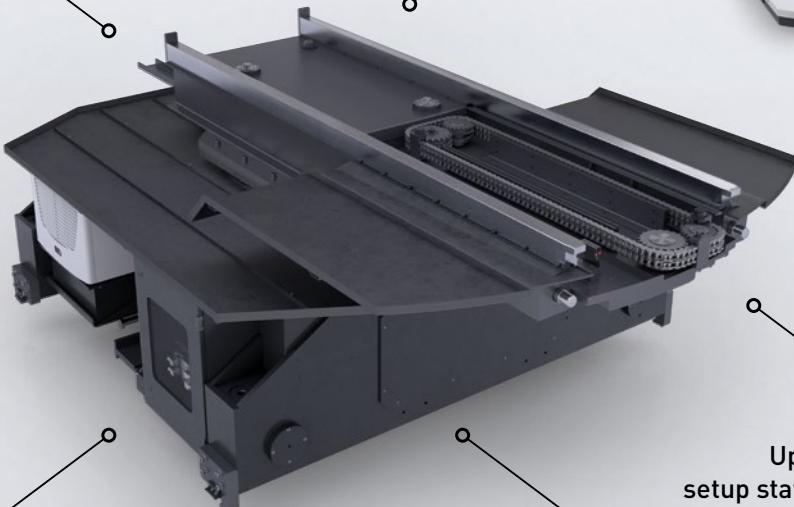
LPP with pallet shuttle



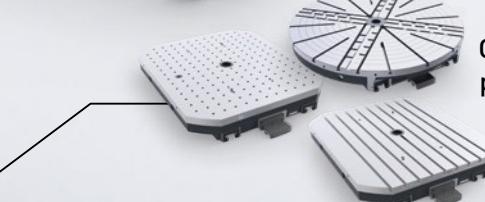
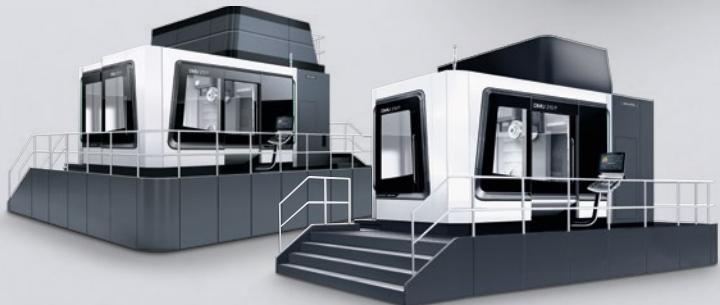
UP TO
15,000 kg
TRANSFER
WEIGHT



Up to 99
storage places



Up to 10 machines
Portal



Customized
pallets



Master computer
MCC LPS 4 /
Operator panel

Up to 5
setup stations

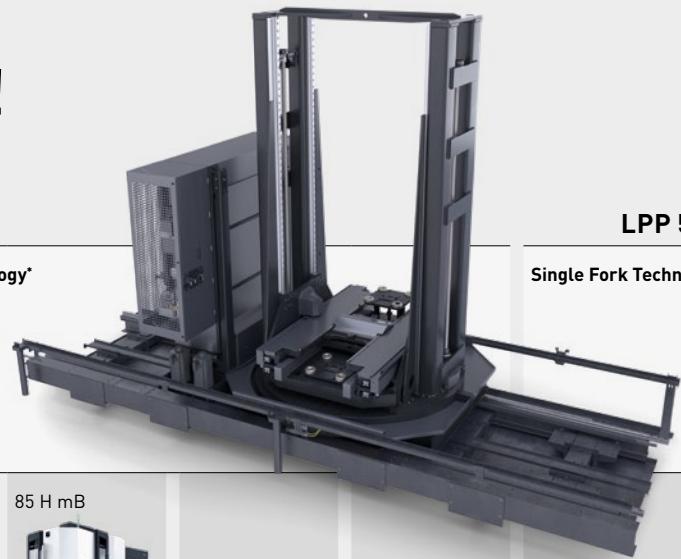


LPP – LINEAR PALLET POOL

Product portfolio!

LPP 2000

Twin Fork Technology*



LPP 5000

Single Fork Technology

DMU/C H monoBLOCK

65 H mB



85 H mB



DMU/C duoBLOCK

80/90 P/U/FD



100/125 P/U/FD



160 P/U/FD



DMC Portal

Available pallet sizes

500 × 500 mm
ø 630 mm

630 × 630 mm
ø 800 × 630 mm

630 × 630 mm
ø 800 × 630 mm

800 × 800 mm
ø 900 mm
1,000 × 800 mm
ø 1,080 mm

1,250 × 1,000 mm
ø 1,400 mm

Maximum transfer weight

2,000 kg

2,000 kg

2,000 kg

2,000 kg

5,000 kg

Maximum workpiece sizes



ø 840 × 770



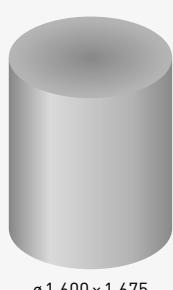
ø 1,040 × 1,000



ø 950 × 1,450



ø 1,100 × 1,600

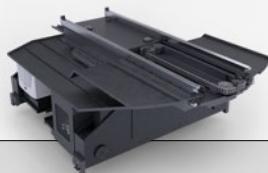


ø 1,600 × 1,675

UP TO
15,000 kg
TRANSFER
WEIGHT

LPP 8000

Pallet shuttle



LPP 13000

Pallet shuttle



LPP 15000

Pallet shuttle



210 U/FD



$1,600 \times 1,400 \text{ mm}$
 $\varnothing 1,850 \text{ mm}$

8,000 kg

270 U/FD



$2,000 \times 2,000 \text{ mm}$
 $\varnothing 2,200 \text{ mm}$

13,000 kg

340 U/FD



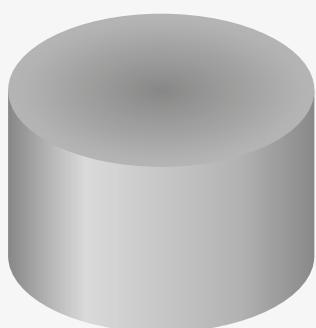
$2,500 \times 2,000 \text{ mm}$
 $\varnothing 2,500 \text{ mm}$

15,000 kg

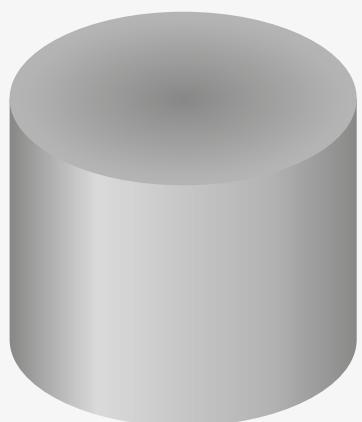
07



$\varnothing 2,100 \times 1,460$



$\varnothing 3,000 \times 1,620$



$\varnothing 3,400 \times 2,360$

LPP – LINEAR PALLET POOL

Efficient master computer

MASTER
Master computer
DMG MORI



SLAVE



Pallet handling device

Machine 1

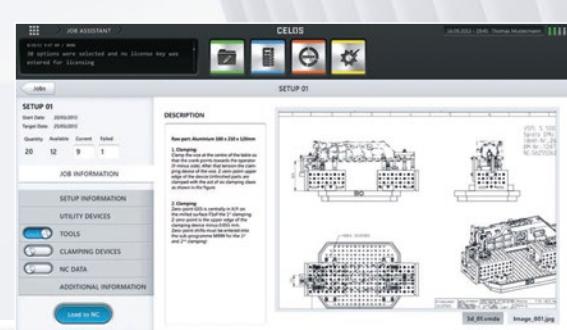
Machine 2

Machine 3

Shelf storage

Setup station 1

Setup station 2

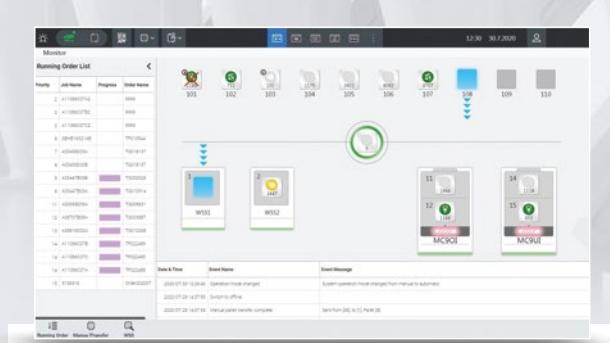


DMG MORI CONTROL COMPUTER – MCC LPS IV (ADVANCED)

- + System overview, fixture management, material management, tool management, documentation and evaluation in one solution
- + Customized solution
- + Software developed by DMG MORI
- + Reliable operation 24/7
- + User-friendly and quick-to-learn functions thanks to graphic-supported operation
- + Complete integration into the customer logistics process chain
- + Connection to customer ERP system

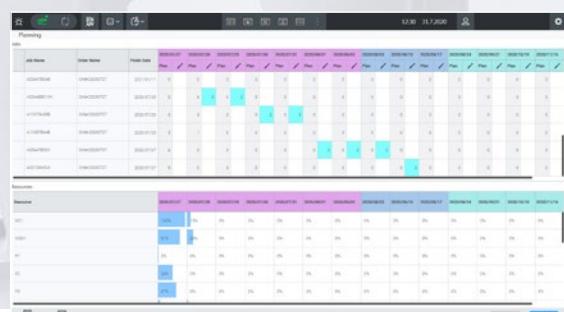
LPP – LINEAR PALLET POOL

Software functions – In-house solution guarantees optimal functionality



SYSTEM OVERVIEW

- + Order management
- + Machine status
- + Pallet management
- + Capacity planning



PRODUCTION PLANNING

- + Capacity planning
- + Schedule Gantt chart
- + Processing planning function



RESOURCE MANAGEMENT

- + Material stock overview
- + Raw and finished part documentation
- + Fixture management

TOOL MANAGEMENT

- + Display tools in the system
- + Tool difference lists
- + Planning tool usage based on the production plan

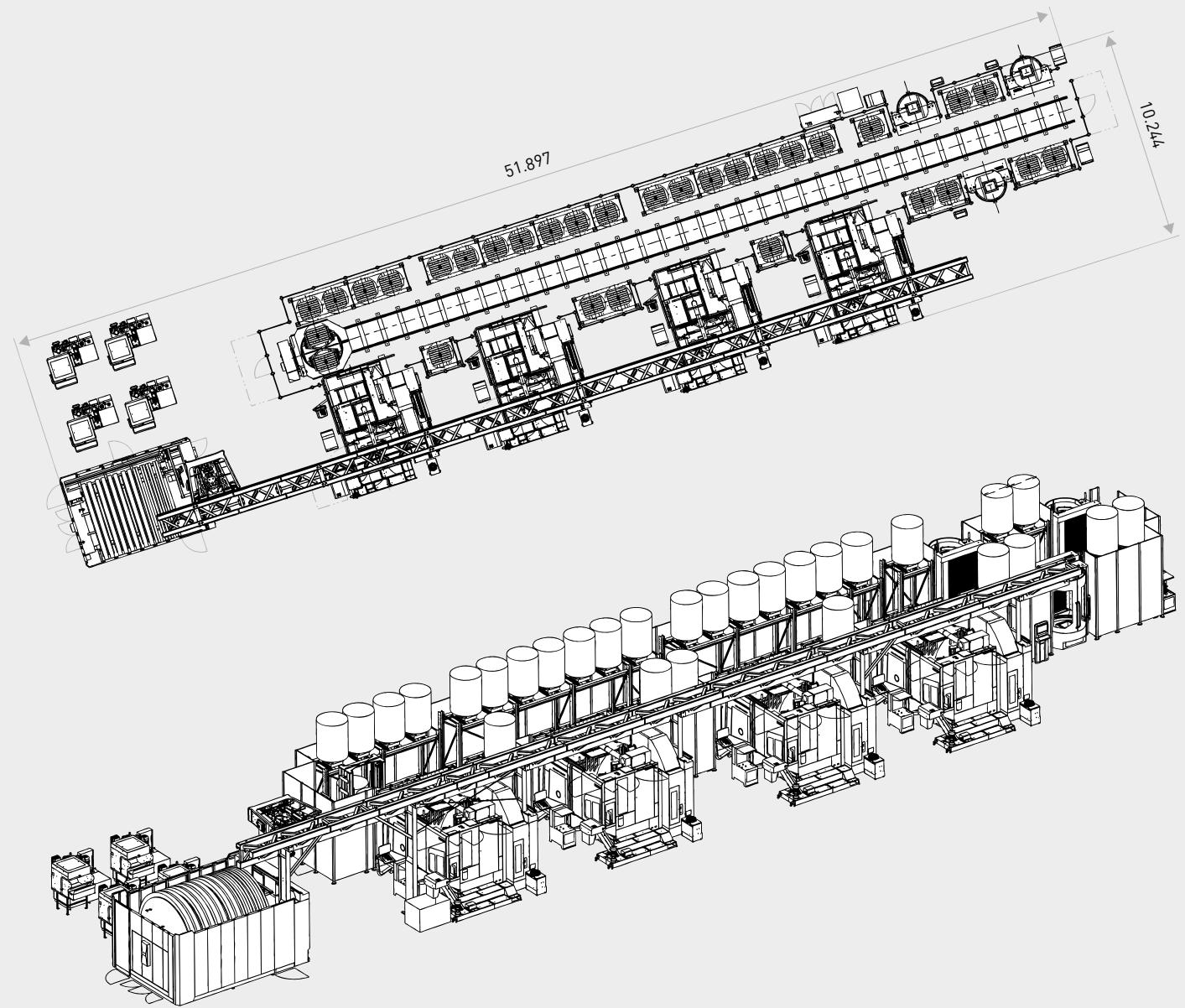
DOCUMENTATION / EVALUATION

- + Cache of the alarm protocol
- + Production graphics
- + Documentation of processing times
- + Graphical presentation of the processing status

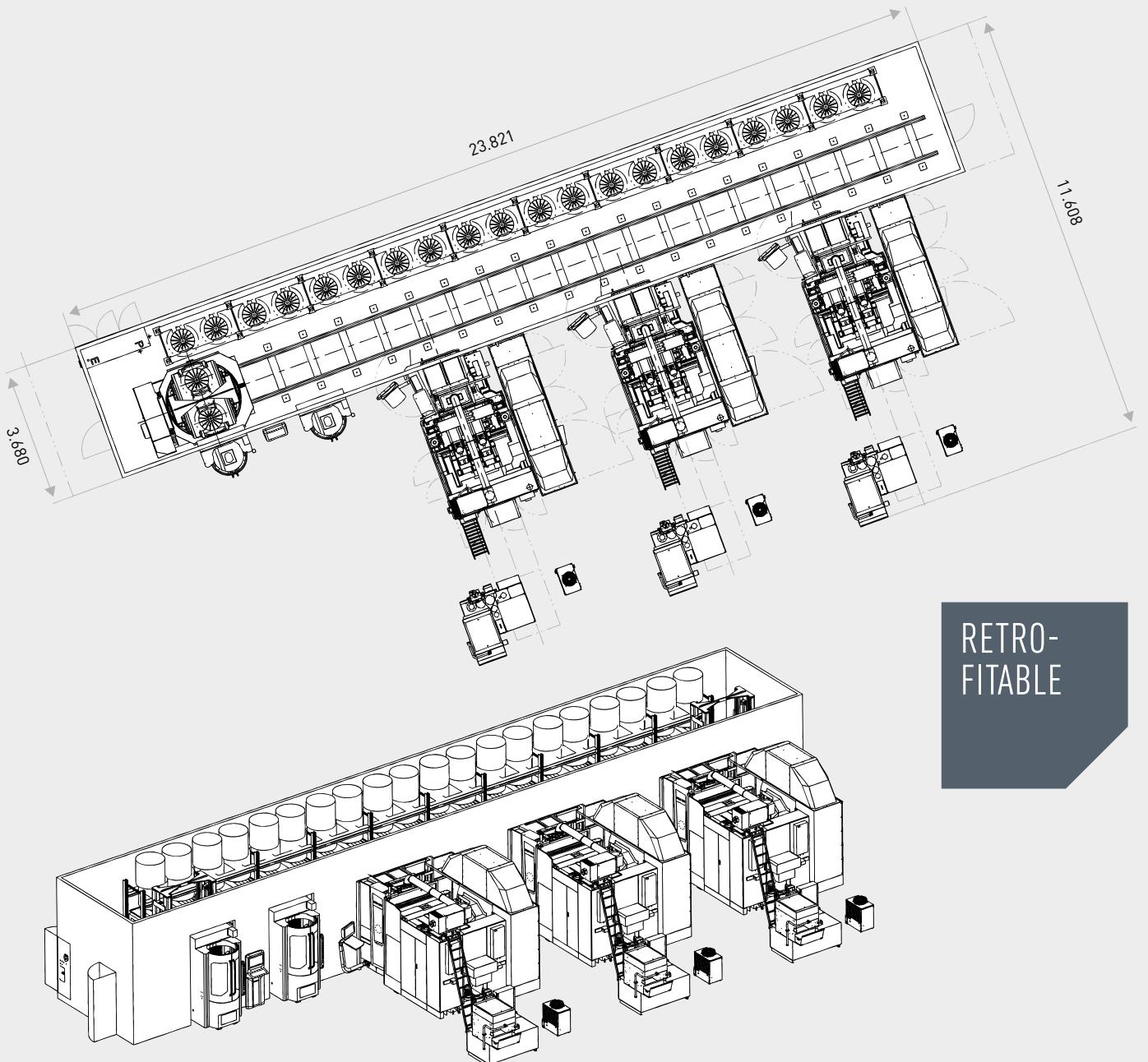
LPP – LINEAR PALLET POOL

Layout samples

4xDMU 125 P with LPP 2000



3x DMU 65 H monoBLOCK with LPP 2000



**Freely scalable storage system for up to
99 storage places, connection of up to 10 machines
and up to 5 set-up stations**

LPP – LINEAR PALLET POOL

Technical data / Product overview LPP

		LPP 2000	LPP 5000
Transferweight			
Max. transfer weight*	kg	2,000	5,000
Pallets			
Pallet size	mm	500 × 500 630 × 630 ø 630 × 500 ø 800 × 630 800 × 800 ø 900 × 800 1,000 × 800 ø 1,100	1,250 × 1,000 ø 1,400
Pallet weight	kg	120 – 700	880 – 1,400
Max. number of pallets		99	99
Pallet handling device			
Single Fork			•
Twin Fork		•	
Pallet shuttle			
Machines			
DMU/C 65 H monoBLOCK		•	
DMU/C 85 H monoBLOCK		•	
DMU/C 80 P/U/FD duoBLOCK		•	
DMU/C 90 P/U/FD duoBLOCK		•	
DMU/C 100 P/U/FD duoBLOCK		•	
DMU/C 125 P/U/FD duoBLOCK		•	
DMU/C 160 P/U/FD duoBLOCK			•

• available *incl. pallet



		LPP 8000	LPP 13000	LPP 15000
Transferweight				
Max. transfer weight*	kg	8,000	13,000	15,000
Pallets				
Pallet size	mm	1,600 × 1,400 Ø 1,850	2,000 × 2,000 Ø 2,200	2,000 × 2,500 Ø 2,500
Pallet weight	kg	2,200 2,400	3,656 3,786	4,848 5,345
Max. number of pallets		99	99	99
Pallet handling device				
Single Fork				
Twin Fork				
Pallet shuttle		•	•	•
Machines				
DMC 210 U/FD		•		
DMC 270 U/FD			•	
DMC 340 U/FD				•

• available *incl. pallet



YOUR ONLINE SERVICE MANAGER

my DMG MORI

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MORE SERVICE

Fast support and live status of your service requests

MORE KNOWLEDGE

All relevant documents can be called up digitally

MORE AVAILABILITY

The direct line to a service expert with guaranteed prioritized processing, registration in <3 minutes

Every customer benefits – at no extra charge!



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Top quality at fair prices. It's a promise!



Best Price Guarantee for Original Spare Parts.

Should you get a spare part offered by us at least 20 % cheaper elsewhere, we will refund the price difference up to 100%*.

*All information and price advantages for Customer First are available at: customer-first.dmgmori.com



Spindle service at best prices.

The highest level of competence from the manufacturer at new and attractive prices – DMG MORI spindle service!

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