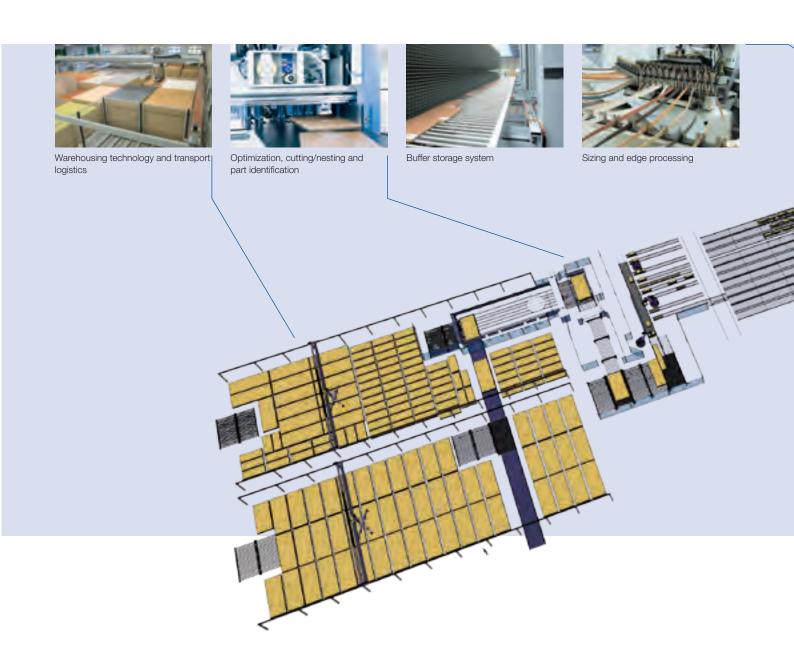


Economical batch size 1 production

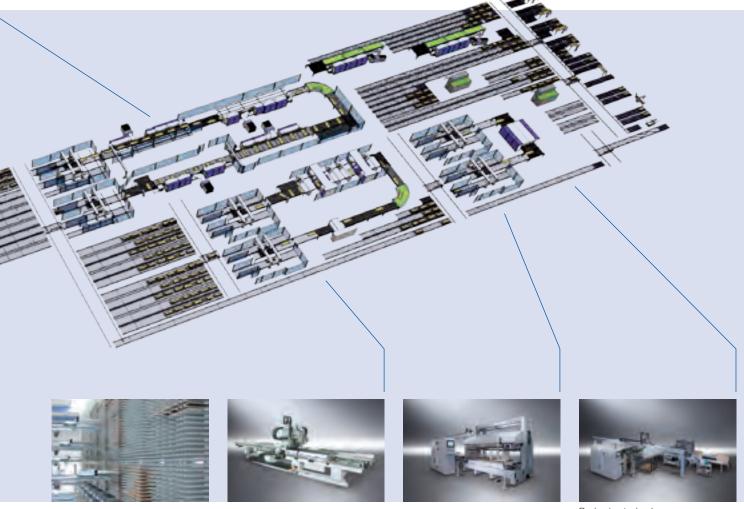


Secure your future and your competitive standing with our solutions

Batch size 1 production – individually tailored and highly flexible solutions from the HOMAG Group



Your ability to stay ahead of your competitors and secure your company's future can hinge on finding the optimum underlying concept for your new production line. Particularly in these times of high variant diversity, keeping production costs competitive through the optimum use of resources, short throughfeed times and minimal inventories can make that decisive difference. Finding the most suitable production philosophy to meet your needs is key. HOMAG Group Engineering will guide you through the crucial planning phase with the benefit of outstanding trade-specific knowledge, many years of experience and comprehensive expertise across the widest product spectrum – all from a single source.



Sorting and order picking

Drilling and hardware mounting systems

Assembly technology

Packaging technology

PRODUCTION PHILOSOPHIES

Customer-specific production order

Here, the component is produced for a specific customer order. Each component has its own unique number and is assigned to the customer order early on in the production process (label with customer reference). This production method requires a high level of transparency, permitting the use of a manufacturing execution system.

- Longer post-production times
- Exchange of components is very difficult
- Low number of multiple storage processes, consequently lower capacity and dynamic utilization in the buffer, storage or sorting system

Component-specific production order

The component can be

produced for several customer orders. Each component has its own unique number and is assigned to the customer order at a late stage in the production process (label without customer reference). The high degree of flexibility fundamental to this production method calls for the use of a manufacturing execution system.

- Higher sorting qualities required
- Sorting and order picking at the latest possible stage, as

- this promotes the longest flexibility in the part flow (multiple depth storage, change of sequence)
- Post-production parts can be taken from stock if required
- High probability of multiple storage and high capacity and dynamic utilization in the buffer, storage or sorting system
- Sequence of components has no relevance



When implementing new production lines, we aspire to combine variant diversity and batch size 1 production with outstanding economy. HOMAG Group Engineering will devise the optimum machine configuration for your individual requirement, making optimum use of key factors for your success.

Recuts

Fully automatic recuts during running production increase the economy achievable with batch size 1 production

Your benefit

- Reduced material costs through optimum utilization of panels and minimized cutting waste
- Lower labor costs as manual recuts are eliminated
- Low energy consumption and low tooling costs

Decoupling buffer

These decouple components from processes or block components to ensure optimum preparation of the downstream machine. Entry into and removal from storage take place in multiple layers or lanes.

Decoupling buffers are used between dividing and edge application, between edge application and drilling, or within a process step. Your benefit

- Savings due to optimum material

 flow
- Reduced downtimes

Flexible edge application

You do not need to abide by any rules in terms of component dimensions. Flexible machines and units ensure the shortest possible changeover gap for edges.

Your benefit

Optimum productivity

Sorting and order picking

A pre-drilling sorting process makes sense where there are different non-redundant drilling lines and several production routes. A post-drilling sorting process is recommended where automatic hardware mounting restrictions exist, or where parts requiring drilling and parts not requiring drilling are simply controlled.

Your benefit

 More efficient, more cost effective production sequences due to higher access to identical parts (parent parts)

Networked drilling

Here, all components remain in a single production flow. The processing dimensions are adjusted by means of suitable machine configuration to the complete component spectrum, e.g. carcases, fronts or table tops.

Your benefit

- Labor cost savings through reduced organizational intervention by operators
- Less scrap due to reduced







Storage system

component damage as a result of manual handling

• Higher level of usage

The right information at the right time

As well as requiring efficient and flexible machines, batch size 1 production really comes into its own through the use of an intelligent higher-level manufacturing execution system. The HOMAG Group provides this essential ingredient in the form of its Software Manufacturing Organization System (MOS).

MOS provides optimum communication between your ERP system and your batch size 1 production.

Your benefit

- Central database for production
- Supply of data and information to

your machines

- Order and part tracking, completeness check
- Control and evaluation of production batches and units
- Management of production routes and deadlines

Performance category I

400-500 parts/shift*

TLF 210

TLF 411

Performance category II 800-1 100 parts/shift*

TLF 610

Performance category III 1 800–2 200 parts/shift*

TLF 610

Performance category IV 4 500–5 000 (6 500) parts/shift*

0.

^{* = 8} hours













Dividing/cutting

Dividing/nesting

Buffer storage system

Sizing and edging

Sizing and edging

HPP/HPL/HKL	BHP 200	TPK 400	Basic concept 1, 2, 3, 5,	BMG 500
HPP/L 300	BHC 900	TPK 400	Basic concept 4 or 6	BAZ 700
				III WILL WILL WILL
HKL 300		TLB 220	Basic concept 7	
Individual solutions		TLB 220	Basic concept 8	













Sorting and order picking

Drilling

Drilling with hardware mounting

Assembly

Packaging

TLB 320	BHX 050	ABH 100	MPH 410	VKV 020
W. Constitution of the con				
TLB 320	BHX 500	ABF 600		
TLB 320	ABH 100	ABL 100		
TLB 320	BST 800	ABF 800	MDE 160	VKV 710
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