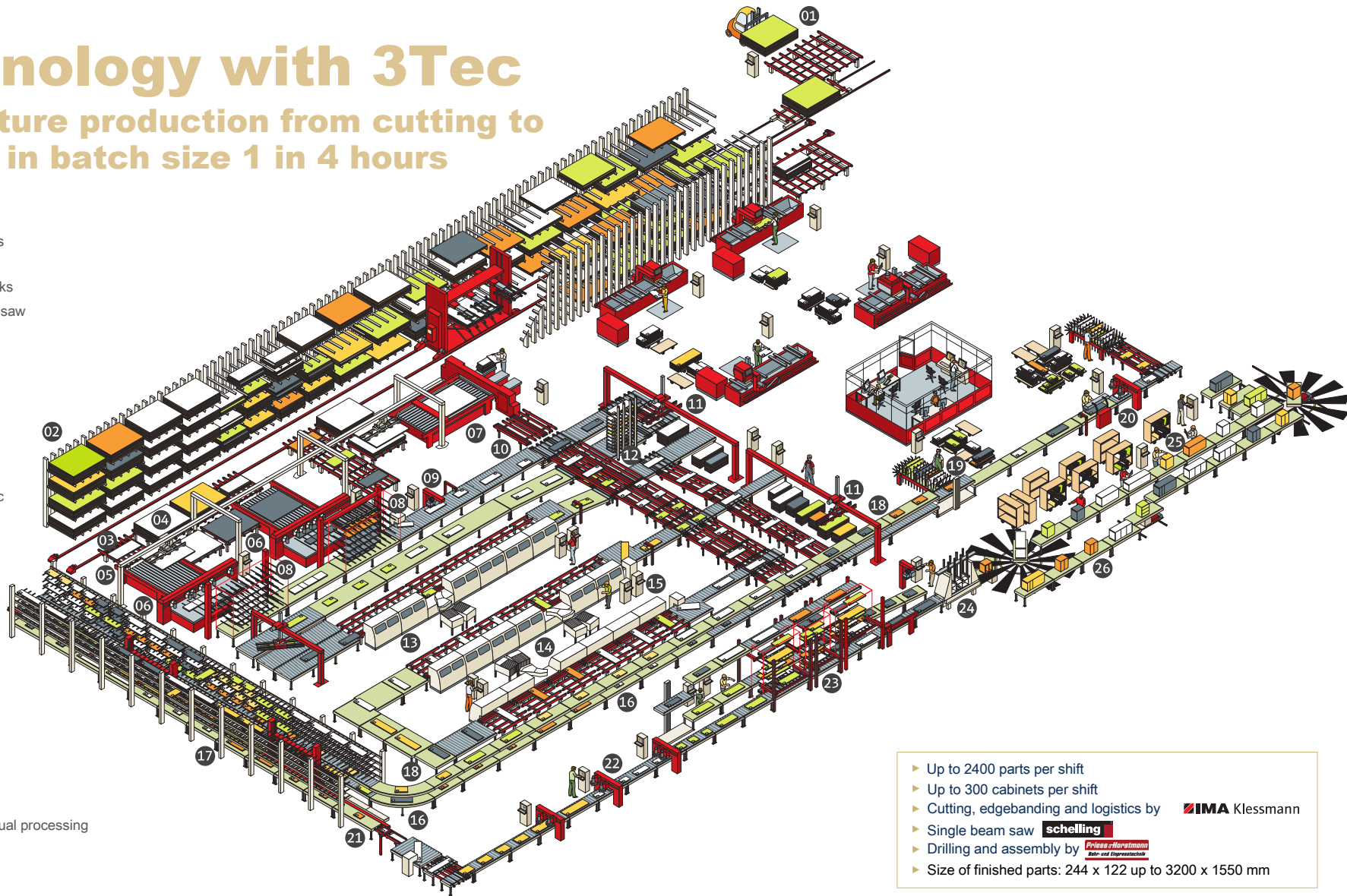


MES technology with 3Tec

Laboratory furniture production from cutting to finished cabinet in batch size 1 in 4 hours

- 01 Preparatopn of stacks
- 02 Rack storage for single boards and stacks
- 03 Return of reusable boards
- 04 Preparatopn area for commissioned stacks
- 05 Infeed for cutting center and single beam saw
- 06 Cutting center
- 07 Single beam saw
- 08 Buffer after cutting
- 09 Turning station and label printer
- 10 Outfeed for reusable boards
- 11 Infeed/outfeed unit
- 12 Buffer for first edgebander loop
- 13 Edgebander loop 1 for melamine-phenolic resin, large and special parts
- 14 Edgebander loop 2 for cabinet parts
- 15 Edgebander preview, glue preview and edgebander material administration
- 16 Return conveyor to sort buffer
- 17 Dual transport sort buffer
- 18 Conveyor outfeed for fronts and commissioned parts
- 19 Hedgehog buffer for commissioned parts and pre-planned quality control
- 20 Automatic drilling machine for fronts
- 21 Conveyor outfeed for cabinet parts
- 22 Row of 3 drilling machines
- 23 Intermediate buffer before and after manual processing
- 24 Cabinet press
- 25 Assembly lines
- 26 Conveyor to shipping



- ▶ Up to 2400 parts per shift
- ▶ Up to 300 cabinets per shift
- ▶ Cutting, edgebanding and logistics by **IMA Klessmann**
- ▶ Single beam saw **schelling**
- ▶ Drilling and assembly by **Poliana Murelmann**
Bohr- und Einbautechnik
- ▶ Size of finished parts: 244 x 122 up to 3200 x 1550 mm

Automation | Information | Transparency

3Tec automation GmbH
 Wilhelmstraße 8
 D-32602 Vlotho
 fon +49.(0)57 33.87 12-0
 fax +49.(0)57 33.96 00 07
 info@3tec.de
 www.3tec.de

3TEC

MES technology with 3Tec

Laboratory furniture production from cutting to finished cabinet in batch size 1 in 4 hours

- **Automatic high-bay rack storage for raw and reusable boards**
- **2 cutting centers and 1 single beam saw for raw board processing**
- **Labelling of component parts**
- **Pre-sorting and intermediate buffering after cutting**
- **Edgebanding on 2 separate edgebanders**
- **Buffering and sorting after edgebanding**
- **Automatic drilling machine for fronts**
- **Automatic drilling and assembly line**

Production data import and preparation

- All data relevant to production is imported from the ERP system
- Production data stored in MS-SQL database
- Cutting plan optimization with capacity utilisation overview for optimal planning
- Creation of cutting plans for cutting centers
- Data preparation for edgebanding
- Automatic generation of component and part processing data
- Office workstations for planned re-work and drilling/assembly programs
- Edgebander preview and edge material administration
- Handling of re-productions and quick shots

Control system

Warehouse management and control of automatic rack storage system

Material flow control

- Tracking of individual parts
- Buffer management
- Connections to production machines
- Edgebander flow control
- Labelling
- Monitoring via barcode scanning
- Sorting

System-wide display elements

- Operator guidance
- Diagnostics and error recovery