

baumann

# lean | box

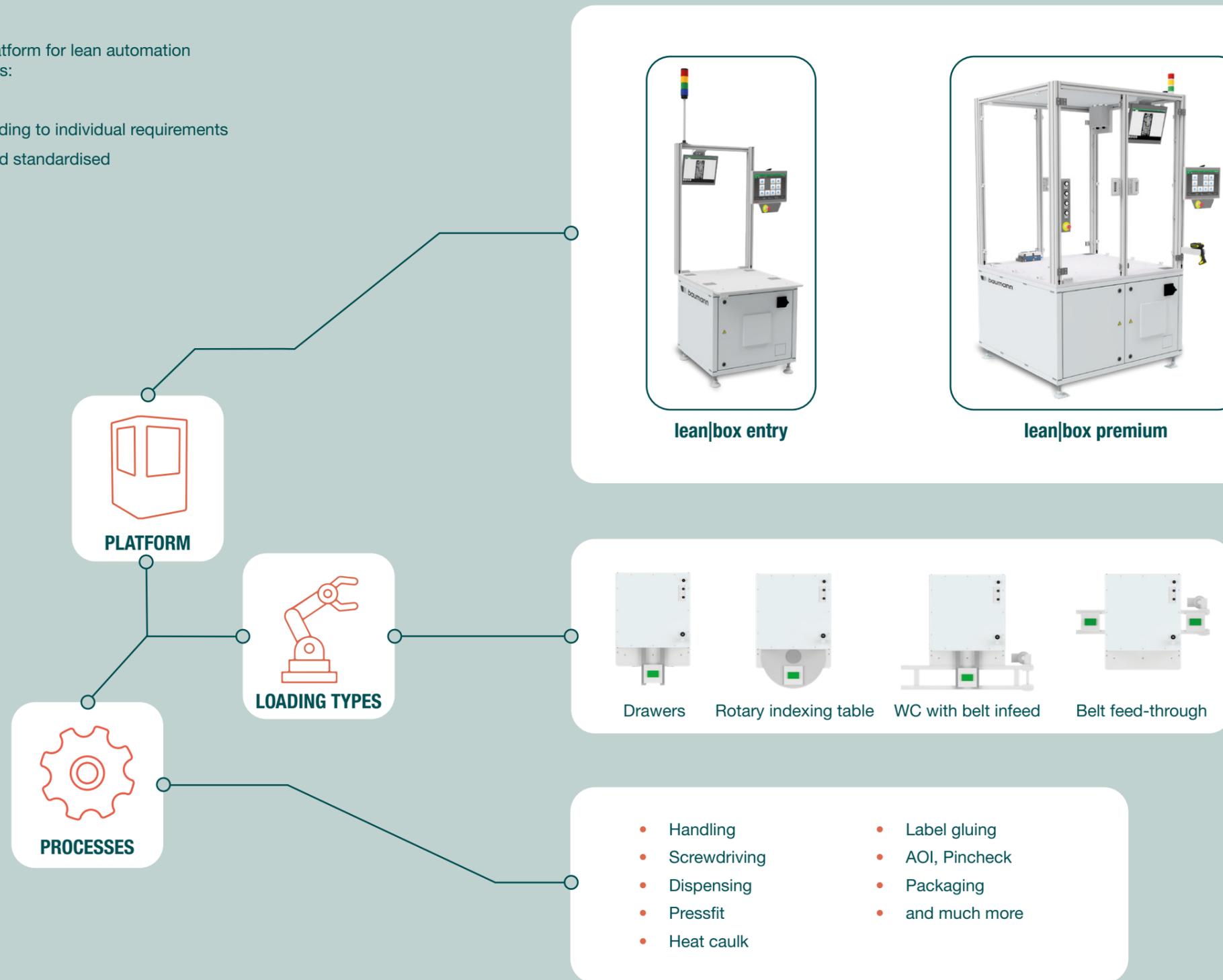


# PERFECTED TO THE DETAILS REDUCED TO THE ESSENTIALS.

# CONFIGURATIONS

The Baumann lean|box is a standardised platform for lean automation and is characterised by the following aspects:

- Configurability by modular design according to individual requirements
- Complex processes simply designed and standardised
- Cost efficient
- Short delivery times
- Compatible loading types



# PLATFORMS



## lean|box entry

The basic version of the lean|box entry is a cost-efficient platform developed specifically for manual assembly and testing processes. It combines the principles of lean automation and offers an optimised, lean solution for efficient production.

- Simple design - minimum space, maximum efficiency
- Fast loading and unloading process - reduced cycle times
- Guided assembly - via visualisation or pick-by-light technology

	600	800	1000	1200	1400
600					
800					
1000					
1200					
1400					

### SIZES

#### lean|box entry

- from 600 x 600 mm up to max. 1400 x 1400 mm

## lean|box premium

The lean|box premium is the perfect choice for semi-automatic and fully automatic cells with manual loading and medium to high control requirements. The HD (heavy duty) cells are also designed for particularly heavy loads and robots. The robust profile frame with side polycarbonate panes ensures safety and stability. Convenient access via doors at the front and back.

- Optimised protection - thanks to closed design
- Flexible use - for semi-automatic and fully automatic processes
- Ideal for higher control requirements



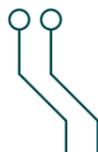
	600	800	1000	1200	1400
600				HD	HD
800				HD	HD
1000				HD	HD
1200				HD	HD
1400				HD	HD

### SIZES

#### lean|box premium

- from 600 x 600 mm up to max. 1400 x 1400 mm
- from width 1200 mm Heavy Duty version (HD)

	600	800	1000	1200	1400
600				HD	HD
800				HD	HD
1000				HD	HD
1200				HD	HD
1400				HD	HD



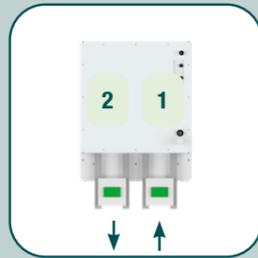
DRAWERS

### CHAKU-CHAKU



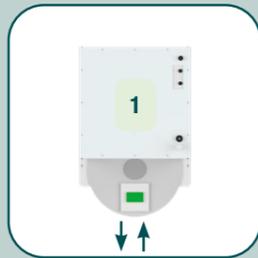
1 Drawer  
1 Process

### ONE-PIECE FLOW STEP 1

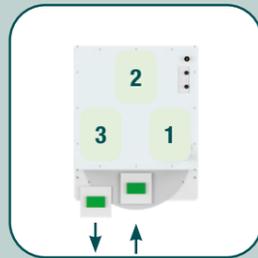


2 Drawers  
1 Component handling  
1-2 Processes

ROTARY INDEXING TABLE

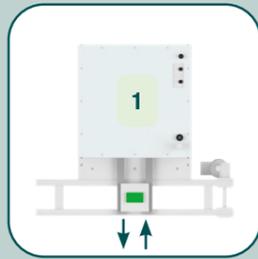


1 Rotary indexing table  
1 Insert area with light grid  
1 Process

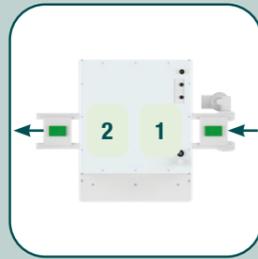


1 Insert area  
1 Autoject for removal  
Up to 3 processes

BELT TECHNOLOGY

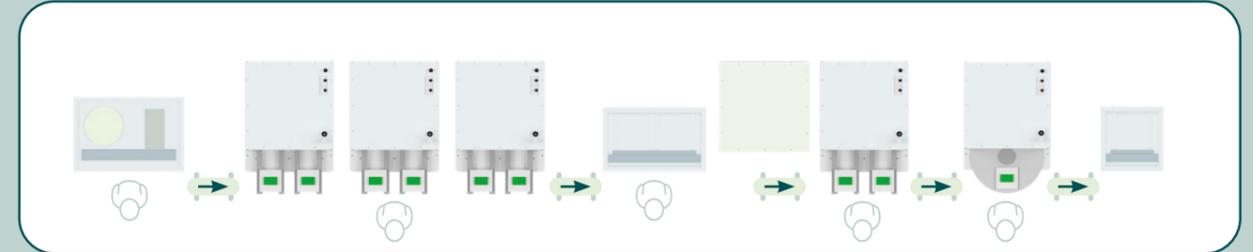


1 Belt infeed  
1 Process

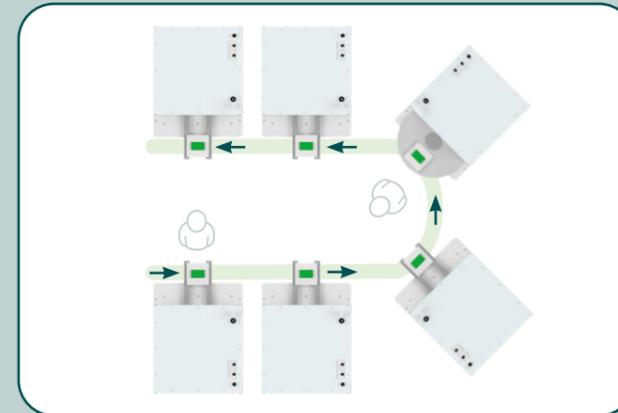


Baumann standard electronic belt  
Up to 2 processes

### CLASSIC CHAINING - ONE PIECE FLOW

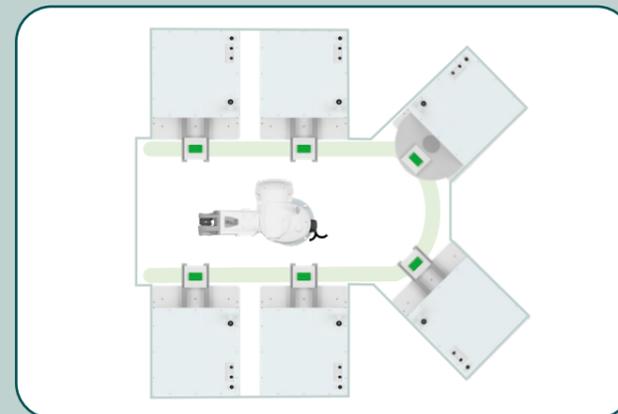


### U-SHAPE - CHAKU-CHAKU



### FULLY AUTOMATED

lean|box connected to our flex|box



# PROCESSES



## lean|box entry

### APPLICATION EXAMPLES:

Manual workstations for simple assembly tasks

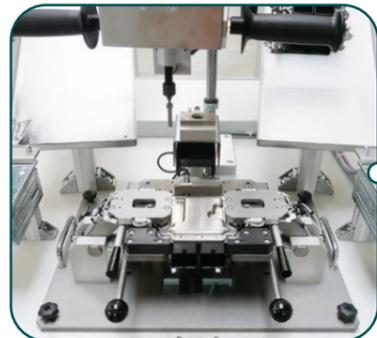
- Screw with a handheld screwdriver
- Pressing with a hand press
- Gluing labels
- Test stations
  - Shared control cabinet with integrated test computer
  - Separate cabinet for test computer
- AOI
- Packaging in KLTs, trays

## lean|box premium

### APPLICATION EXAMPLES:

Manual loading and unloading with integrated automatic process

- Handling
- Screwdriving
- Pressfit
- Hot riveting (hot caulking)
- Label gluing (automatic)
- Dispensing
- Test stations
  - Shared control cabinet with integrated test computer
  - Separate cabinet for test computer
  - Integrator smart|vision
- Pincheck
- AOI
- Packaging



Manual screwdriving process



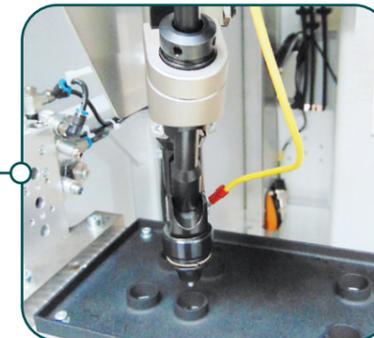
Glue label



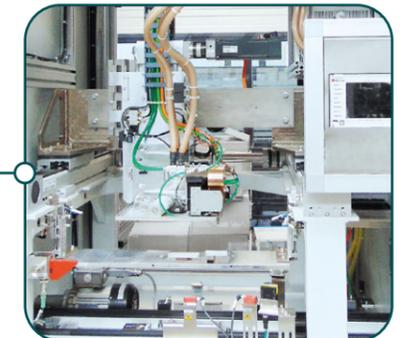
Pick-by-Light assembly



Dispensing



Screwdriving



Welding

# MODULAR AUTOMATION SOLUTIONS

Baumann Automation offers flexible and scalable platforms which can be customised to your individual production requirements. Various processes can be efficiently integrated and expanded with our modular system.

## OUR SOLUTIONS FOR YOUR PRODUCTION AT A GLANCE:

### Handling & assembly:

Using systems such as the ro|box and feed|box for precise component handling and efficient assembly processes.

### Testing & inspection:

Ensure the quality of your products with test systems such as the te|box, combitester, multitester, climate tester and the power|box solutions for end-of-line and ISO tests.

### Modular test system:

Increase your test efficiency with the MTS (Modular Test System) - the flexible platform for customised battery and function tests in the laboratory and series.

### active|alignment:

Achieve maximum precision in the alignment of components with our active|alignment technology.

### Hybrid separation:

The break|box enables gentle separation of sensitive components

### Separators for PCBs:

Rely on precise separation systems with the de|box and rout|box for PCBs.

### Photovoltaics:

Optimise your production in the solar industry with specialised solutions such as the wafer handling plasma.

### Optical inspection:

Benefit from automated inspection solutions such as Automatic Optical Inspection (AOI) for offline inspections and Objective Optical Inspection (OOI) for inline inspections.



# VISIT US ON SOCIAL MEDIA



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## CONTACT

Baumann GmbH • Oskar-von-Miller-Str. 7 • 92224 Amberg  
Tel.: +49 9621 6754-0 • [info@baumann-automation.com](mailto:info@baumann-automation.com)

