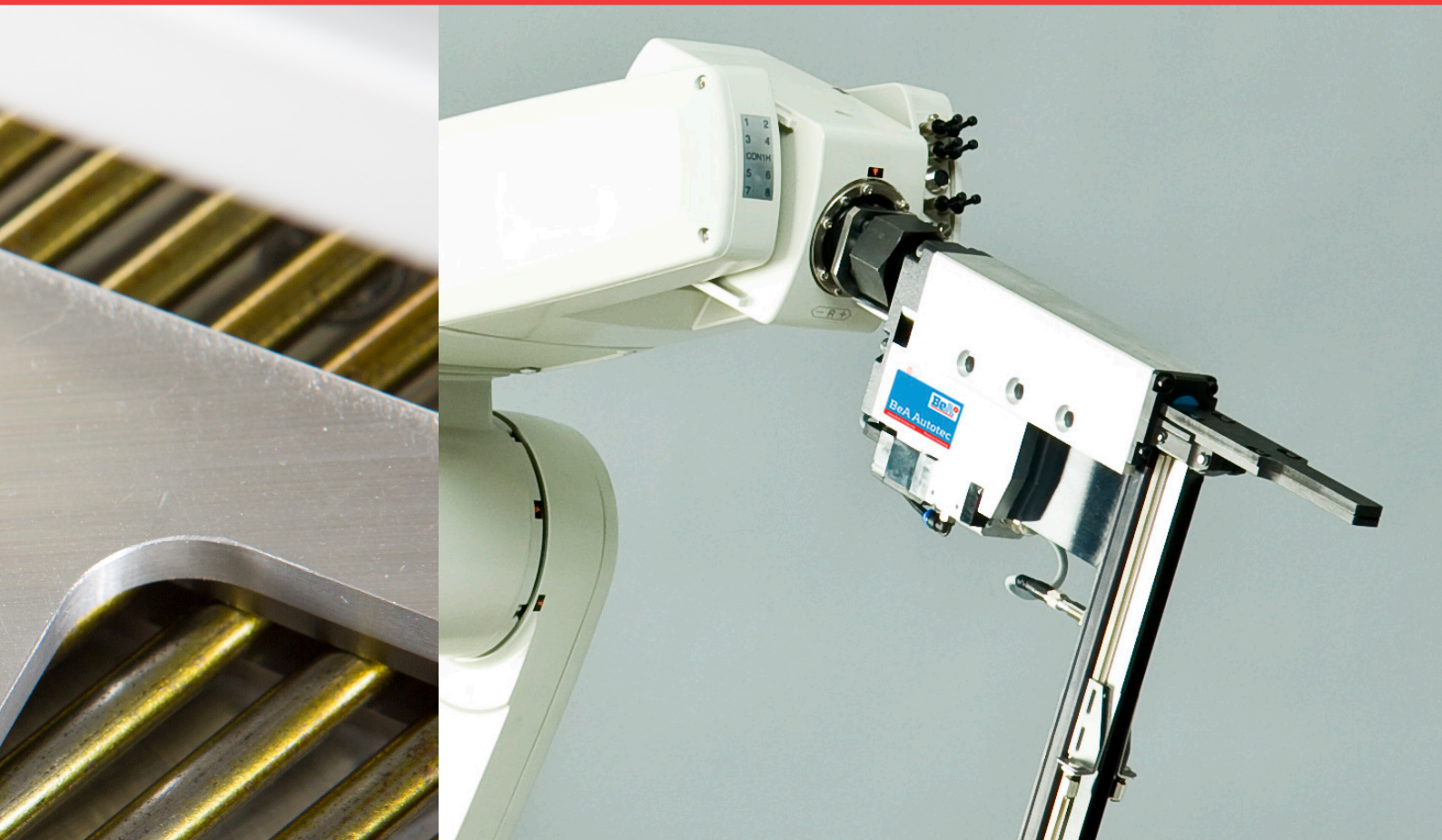


THE POWER OF FASTENING



BeA Autotec

Automation technology



BeA Autotec

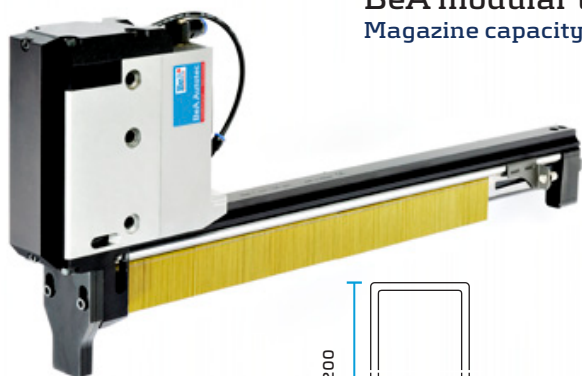
The BeA Autotec system offers the following benefits:

- Rugged yet precision-manufactured German made equipment guarantees performance reliability
- Automated staple signal input, either 24 V CD or pneumatic
- Individual energy adjustment of the stapler head to the specific application

- Wide array of accessories, including electronic placement and magazine supervision, edge guides, rollers, etc.
- Reduces your manufacturing cost through
 - Customized design
 - Installation into new or existing equipment
 - Availability of customized components and accessories for tool mounting and fastener application

BeA modular tool - long magazine 235 / 245 / 265 / 285

Magazine capacity: 300 - 500 fasteners [approx.] Leg lengths: 4 - 200 mm



- Placement and stapling possible in any position and orientation
- Various leg lengths can be loaded without further adjustments
- Electronic placement and magazine supervision
- High speed fastening - frequency up to twelve cycles per second
- Multiple mounting options facilitate installation

Applications:

prefabricated houses, window and door frames, packaging, furniture, pallets and crates

ROUND HEAD NAILS

Nails	Magazine capacity	Frequency/sec.	Air consumption
Ø 2.8 - 4.1 / 50 - 100 mm	120 Nails	max 4 - 5 /sec	3.5 - 4 Litre at 6 bar

D-HEAD NAILS

Nails	Magazine capacity	Frequency/sec.	Air consumption
Ø 2.9 - 3.4 / 50 - 100 mm	160 Nails	max 4 - 5 /sec	3.5 - 4 Litre at 6 bar



BeA modular tool strip nailer

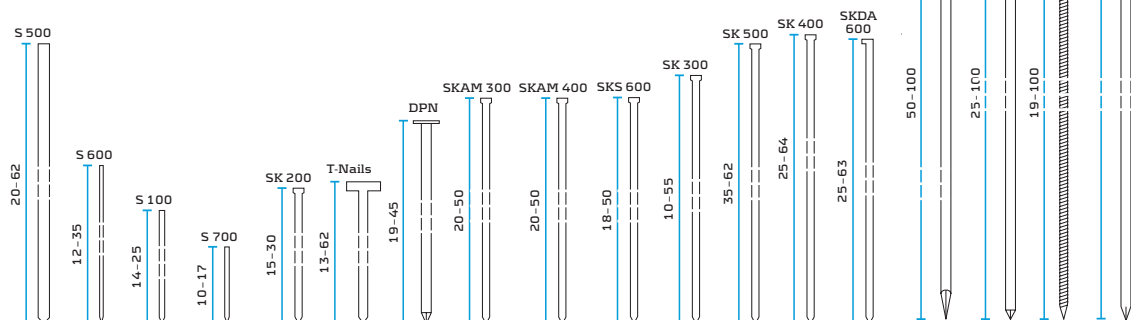
Magazine capacity: up to 140 nails Leg lengths: 50 - 100 mm

- Adjustable magazine capacity
- Electronic placement and magazine control
- Low maintenance
- Long operating life

Applications:

prefabricated houses, furniture frames, pallets and crates

Overview of BeA fasteners:





BeA Autotec strip nailer 296 with automatic feed 297

for strip nails type R20 in lengths 130 – 160 mm
Ø 3,8 – 5,0 mm

BeA Autotec strip nailer 296

- Magazine capacity of 2 nail strips
- Magazine control
- "Dry firing" control
- Multidirectional nailing possible

Reloading station 297 with automatic nail feeding

- Reloading and feeding of the nails happens automatically using a cassette type holding bay for 90 nail strips (=approx. 1.800 nails)
- Filling of the nail-cassette (straight out of the carton) is possible in no time.
- The loading station automatically senses the position of the nail head and feeds it correctly into the magazine of the nailer.

Applications:

crating, heavy duty wooden packaging (pallets etc.) and prefabricated house industry.



Description	Length in mm
R20 3.8 x 130 BK	130
R20 3.8 x 130 BK Screw	130
R20 3.8 x 130 BK Ring	130
R20 3.8 x 130 NK	130
R20 4.2 x 130 BK	130
R20 4.2 x 160 BK	160
R20 4.6 x 145 BK	145
R20 4.6 x 160 BK	160
R20 4.6 x 160 BK Screw	160
R20 4.6 x 160 NK	160



BeA modular tool for jumbo coils

Magazine capacity: up to 900 nails

Plastic and wire collated

Nail lengths: 45 – 90 mm

- High magazine capacity
- Electronic placement and magazine control
- Accurate nail placement
- Low maintenance
- Long operating life

Applications:

prefabricated houses, furniture frames, pallets and crates



BDC NAILS

Nails	Magazine capacity	Frequency/sec.	Air consumption
Ø 2.5 - 3.4 / 45 - 90 mm	1 jumbo coil / 750 - 1.100 Nails	max 4 - 5 /sec	2.5 - 4 Litre at 6 bar

TC NAILS

Nails	Magazine capacity	Frequency/sec.	Air consumption
Ø 2.5 - 3.1 / 45 - 90 mm	1 jumbo coil / 750 - 1.100 Nails	max 4 - 5 /sec	2.5 - 4 Litre at 6 bar

BeA modular tool side-loader 232 / 242 / 262 / 282

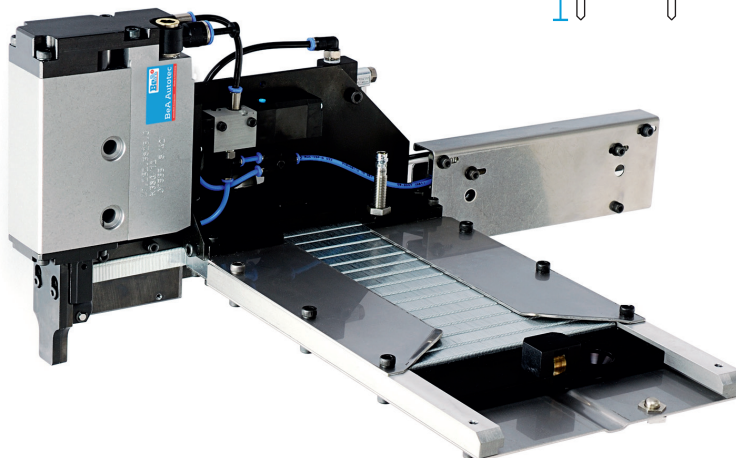
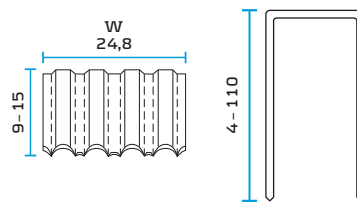
Magazine capacity: up to 5,000 fasteners

Leg lengths: 4 – 110 mm

- High magazine capacity
- Automatic reloading – avoid time intensive manual reloading
- Electronic placement and magazine control
- Frequency up to 8 cycles per second
- Multiple mounting options facilitate installation

Applications:

prefabricated houses, furniture, packaging, pallets and crates



- Increase of output
- Decrease of manufacturing costs
- Higher quality level
- High flexibility
- Relief of the staff
- Reduced changeover times
- Low maintenance

BeA modular tool with changeover cassette 264 / 284

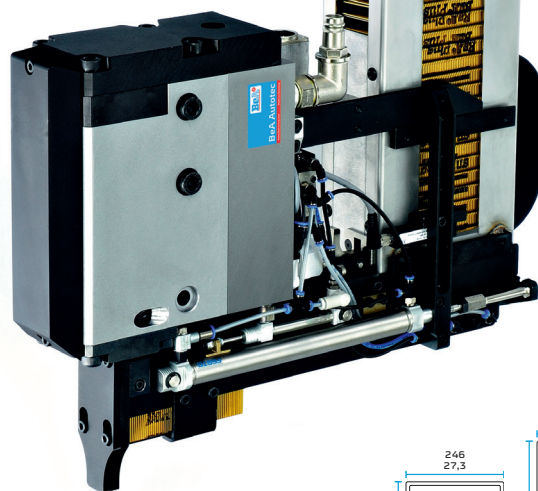
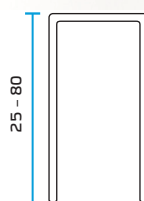
Magazine capacity: up to 2,300 staples

Leg lengths: 25 – 130 mm

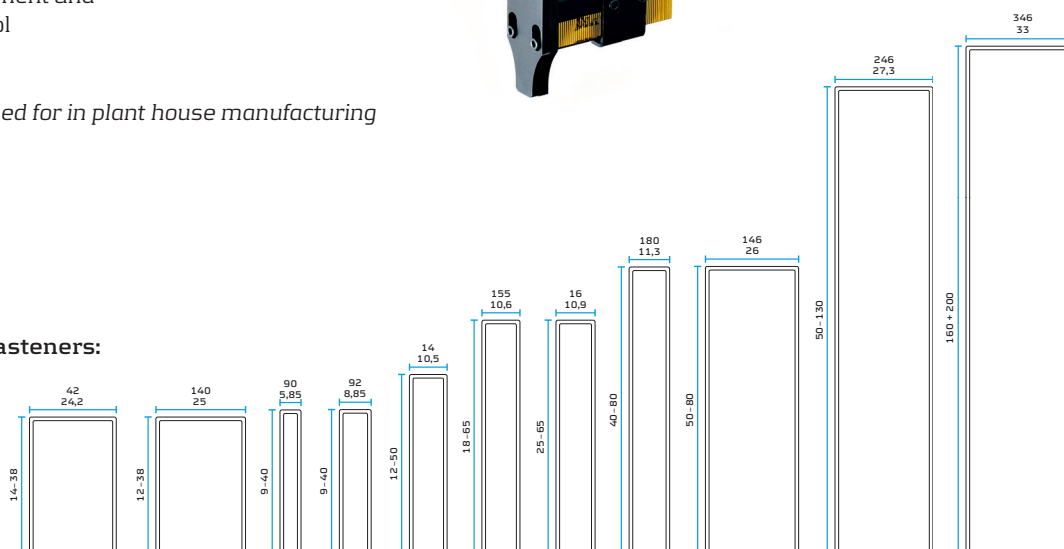
- Compact design
- High speed reloading
- Low maintenance
- Long operating life
- Frequency up to 10 cycles per second
- Electronic placement and magazine control

Applications:

specifically designed for in plant house manufacturing



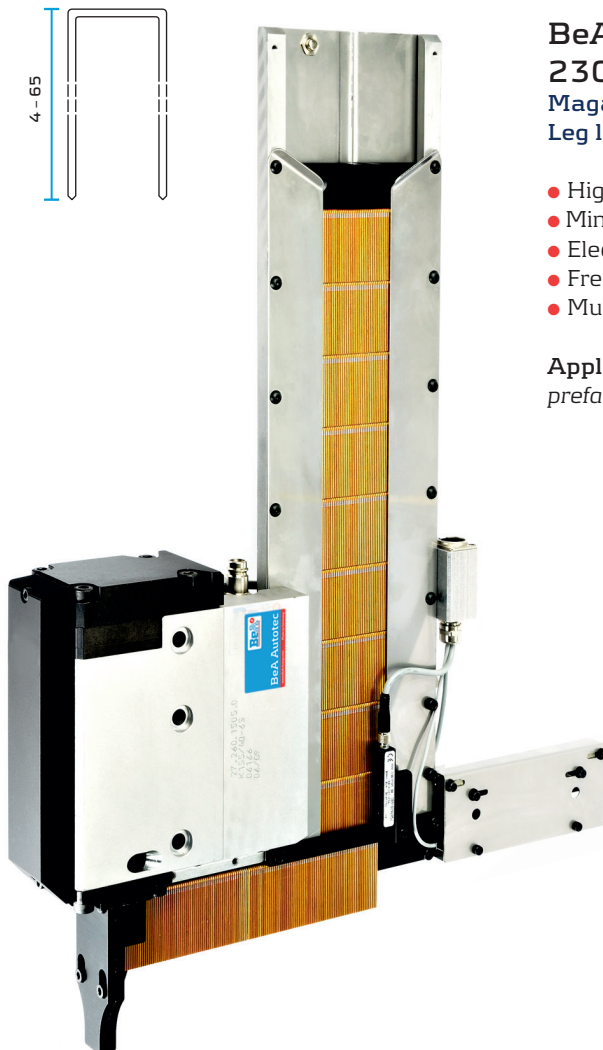
Overview of BeA fasteners:



BeA Automated Fastening Systems – highlights

- 1989 first BeA Autotec tool
- 1999 first BeA Autotec tool with changeover cassette
- 2003 first BeA Autotec tool for wide-crown staples
- 2014 first BeA Autotec tool for staples with a diameter of 3,0 mm
- 2015 first automatic reloading station for 20 degree strip nails used in a robotic Autotec strip-nailer solution

Globally the No. 1 with more than 10.000 Autotec tools sold!



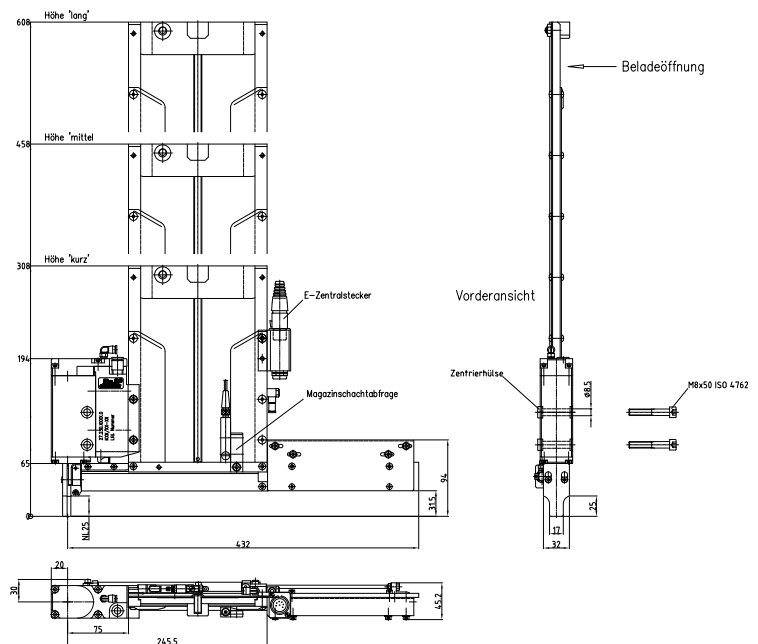
BeA modular tool top-loader 230 / 240 / 260 / 280

Magazine capacity: up to 10,000 fasteners
Leg lengths: 4 – 65 mm

- High magazine capacity
- Minimal reloading time
- Electronic placement and magazine control
- Frequency up to 8 cycles per second
- Multiple mounting options facilitate installation

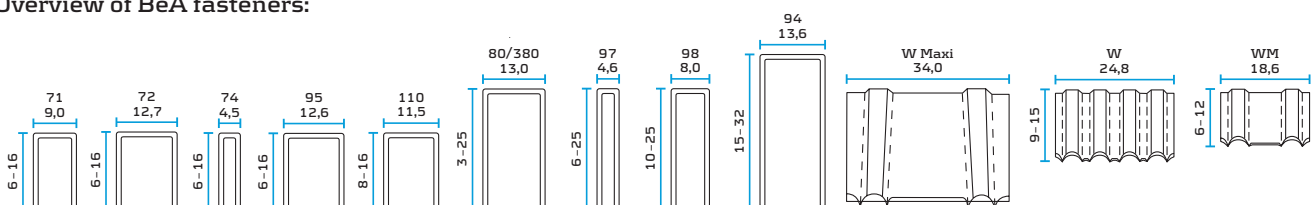
Applications:

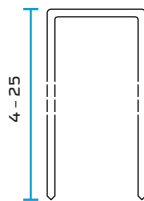
prefabricated houses, furniture, packaging, pallets and crates



BeA Automated Fastening Systems offers a comprehensive line of products, systems and solutions – customized to your manufacturing requirements. Popular applications include furniture, modular and prefabricated houses, packaging, wood to wood and automobile components.

Overview of BeA fasteners:





BeA modular tool long magazine clinching unit

Magazine capacity: 300 - 500 staples
Leg lengths: 4 - 25 mm

Stationary unit, available in automatic or foot-pedal actuation
Hands-free operation facilitates proper feeding and alignment

- Contact actuation
- Foot-pedal actuation
- Available as double clinching-unit

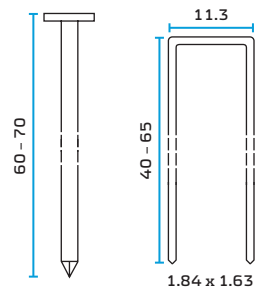
Applications:

packaging, blister packaging, low volume assembly



BeA Skater 14/65-830C and BeA Skater 180/65-835C for heavy duty staples

Magazine capacity up to 152 Staples for fastener type 16/155/180 in lengths 40 - 65 mm



BeA Skater 800C for Coil Nails

Magazine capacity up to 300 nails, type BDC, in lengths of 60 - 70 mm, Ø 2,5 - 3,1 mm



BeA robot – nailer with reloading station

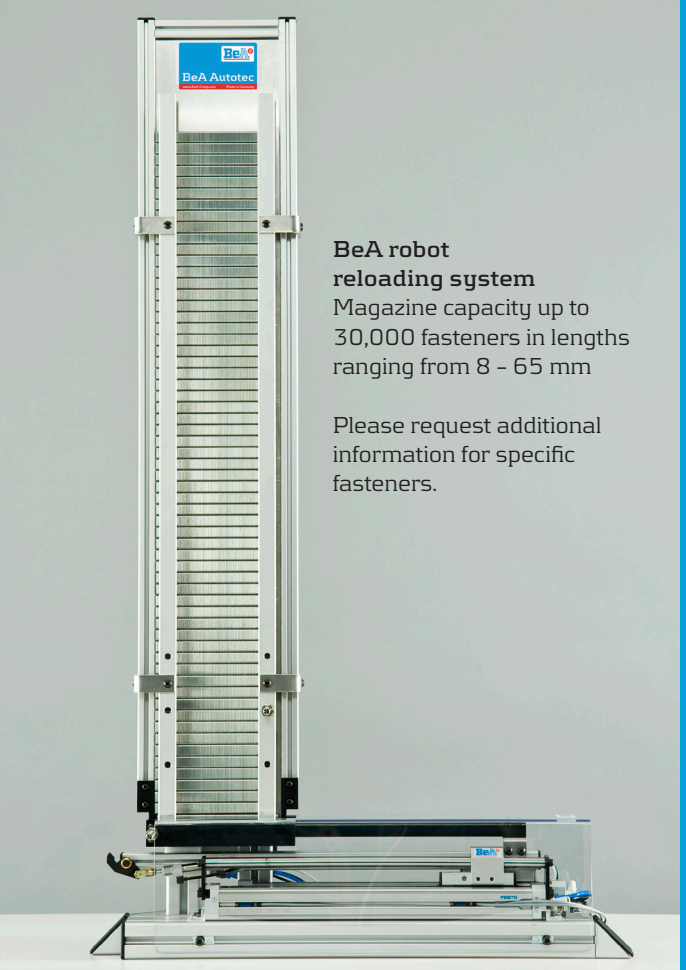
For staples and pins

Incorporates fully automated production processes by being mounted on either multi axis robots or X/Y/Z linear units.

- Small dimensions and low weight (4.5 lbs.) accommodate easy handling and high process speeds. The automatic reloading feature minimizes the tool's weight by carrying only the necessary amount of fasteners per cycle
- Placement and stapling possible in any position and orientation
- Very high capacity of the stationary reloading unit (up to 30,000)

Applications:

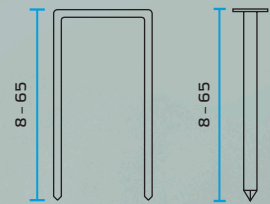
Furniture industry, automotive, molds for sand casting, specialty crate manufacturing



BeA robot reloading system

Magazine capacity up to 30,000 fasteners in lengths ranging from 8 - 65 mm

Please request additional information for specific fasteners.



BeA Automated Fastening Systems – reaching beyond standard solutions



THE POWER OF FASTENING



Joh. Friedrich Behrens AG
Industrial Fastening Systems

Bogenstraße 43 - 45, 22926 Ahrensburg - Germany
Tel. +49 (0) 4102 78 - 444, Fax +49 (0) 4102 78 - 270
info@bea-group.com

www.bea-group.com