





The BOXer – The technologically superior system

The BOXer small parts unit is part of a series of aisle stacker cranes for automated container, tray or box warehouses. Thanks to innovatively and consistent- lifting mechanism ensure optimum ly applied lightweight construction, adjustment of acceleration, propulsion new standards are being set with regard to energy consumption. With a compa- aisles, traveling speeds of up to 6 m/s rable level of system performance, the BOXers are the most lightweight and thus most energy-saving small parts aisle stacker cranes on the mar-Stöcklin also offers ket the BOXer series as a complete turnkey system comprised of stacker cranes, racking, loading equipment (containers, trays), controls and warehouse manage- Increased reliability ment.

tenance costs

tenance-friendly design, the individual components of the mechanics and the a collision. control technology can be changed very quickly. Short downtimes ensure a high level of availability as well as low maintenance costs.

High throughput and vibration reduction

Regulated drives for the chassis and and braking curves. In sufficiently long are possible.

The proven lightweight aluminum mast construction combined with the smooth propulsion curve permits dynamic, low-vibration operation. Corrective movements for subsequent positioning are generally not required.

The standard rack gap monitoring function monitors the space Highest availability with low main- between the stacker crane and the rack. If a container or package is Thanks to the ergonomic and very main- identified within the area of movement, the device stops instantly, thus avoiding

QUALITIES

Flexible

The BOXer is suitable for a wide variety of load carriers (boxes, trays, containers)

Modular

The system is built with the suitable functions and framework

Versatile

A number of standard load handling attachments (single-, double- and guadruple-depth) are available

Efficient

Automatic load handling with two load handlers offers an increase in performance of up to 30%

Vibration-free

Also available with anti-pendulum drive for taller devices





The BOXer in figures

Stöcklin offers the modular BOXer series in three basic versions. One of our greatest strengths, however, is flexibility, which means we are able to adapt the BOXer to your needs and circumstances. With our help, you'll find the optimum solution.

The performance of the plant or system is always one of the core points, but high speeds and accelerations also always mean greater wear and tear on components and greater energy requirements, so they are only worthwhile if you also really need them. We configure your system so that you have sufficient reserves to turn over your merchandise, but we also help you to avoid unnecessarily high operating costs.

The modular structure of the mast is one of the most lightweight in its class and is therefore a clear indication of the "Think Green" orientation. The energetic interplay of the drive regulators of the forward and lift drives makes it possible for the braking energy to be swapped between the drives. This is due to the electrical connection between the intermediate circuits of the frequency converter. Furthermore, the movements of the axes are aligned in such a way that the energy exchange between the drives, and the braking energy of the forward drive is used to lift the load handling attachment – the lifting mechanism is started at an optimum point in time. Furthermore, the energy balance of the devices can be improved through the use of energy recovery modules.

Anti-pendulum system

Another new feature is the anti-pendulum system, with which a high throughput level can be achieved even with very tall small parts units (15 to 22 m). The attachment of an additional anti-pendulum drive to the masthead, which eliminates the vibration of the mast to the greatest extent possible and supports the movement of the unit in the horizontal direction of travel, guarantees there will be no vibration. If required, vibration can also be prevented with the use of special software modules.

Rail and conductor line

In order to be able to guarantee quiet and smooth running, the BOXer travels on polyamide wheels along a solid steel rail. This is mounted like a railway sleeper on threaded braces set into the base. Dual-level applications are fixed in such a way as to minimize vibration and noise.

There are end plates at both ends of the aisles, on which the hydraulic emergency end buffer and the belt tension stations are mounted. The power supply required for components that also travel is provided via a guide rail attached directly to the shelf uprights. This offers a variety of attachment options for both single-position and shelved racking.

	Single-mast	Double-mast	
Single-depth storage	BOXer E1	BOXer E2	BOXer E2V
Number of load handling devices	1 single-depth	2 single-depth	2 single-depth
Payload max.	1 x 100 kg	2 x 50 kg	2 x 50 kg
Device height max.	15 m / 18 m*	15 m / 18 m*	22 m*
Aisle width clearance	800 mm	800 mm	800 mm
Traveling speed max.	6 m/s	6 m/s	5 m/s
Traveling acceleration max.**	4.0 m/s ²	3.0 m/s ²	2.5 m/s ²
Lifting speed max.	3.0 m/s	3.0 m/s	3.0 m/s
Lifting acceleration max.	3.0 m/s ²	3.0 m/s ²	3.0 m/s ²

	Single-mast	Double-mast	
Double-depth storage	BOXer D1	BOXer D2	BOXer D2V
Number of load handling devices	1 double-depth	2 double-depth	2 double-depth
Payload max.	2 x 100 kg	4 x 50 kg	4 x 50 kg
Device height max.	15 m / 18 m*	15 m / 18 m*	22 m*
Aisle width clearance	1450 mm	1450 mm	1450 mm
Traveling speed max.	6 m/s	6 m/s	5 m/s
Traveling acceleration max.**	4.0 m/s ²	3.0 m/s ²	2.5 m/s ²
Lifting speed max.	3.0 m/s	3.0 m/s	3.0 m/s
Lifting acceleration max.	3.0 m/s ²	3.0 m/s ²	3.0 m/s ²

* with anti-pendulum system ** dependent on the height



Stoecklin Logistics Inc. US-Atlanta, GA 30319 tel +1 678 244 1537

info-us@stoecklin.com

C.A.S. Engineering Ltd. GB-Aston Oxon OX18 2DQ tel +44 1993 851790 fax +44 1993 851793

info@stocklin.co.uk



Stöcklin Logistik AG

CH-4143 Dornach tel +41 61 705 81 11 fax +41 61 701 30 32

info@stoecklin.com www.stoecklin.com

