

Conveyor HQ

for use with METAL SHARK® BD



Highlights

- Optimally adapted for use with METAL SHARK® BD metal detector
- 100% stainless steel - sturdy construction and easy to clean
- Different belt types and various reject systems for every application
- Accessories such as side rails, lamp stacks, polycarbonate protectors, photo sensors and reject bin can be added individually
- BRC* kit available to meet food safety standards

Features

- System available with feet or castors
- Horizontal, ascending and angled belt versions
- Available belt types are Intralox brand modular chain links and polyurethane. Others on request.
- Various rejection systems available
- IP65 rated protection, washdown options IP66 and IP69k available

*BRC-Kit for the food industry

Kit available to facilities where system must meet the requirements of the Global Standard of the British Retail Consortium (BRC) for food safety and also the current standards for HACCP and IFS.



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Overview

The HQ series conveyors are combined with METAL SHARK® BD metal detectors. The robust stainless-steel frame is easy to clean and ideal where increased hygiene standards are required. Conveyors are available in various widths and lengths and with different belt types or motor outputs.

The extensive range of accessories, from side rails, reject devices or polycarbonate access protections to reject confirmation sensors enables us to optimally fit the HQ series conveyors into your production line.

Specifications

Frame	Stainless steel AISI 304 / ISO 1.4301 (CrNi 18/10), profiles closed on all sides, available with adjustable feet (standard) or castor wheels.
Enclosure rating	IP65, optional IP66 / IP69k
Height	800 mm ± 100 mm (31.5 in. +/- 4 in.) other heights and designs possible
Belt speed	12 -24 m/min (40 - 79 ft./min) (with belt control STR/STL) others on request
Motor	SEW 0.25 kW or worm gear motor 0.25KW, depending on requirements also stronger
Product weight	16 kg as standard, other weights possible
Power supply	220-240 VAC, 1ph, 50-60 Hz 110 VAC, 1ph, 60 Hz
Conformity	CE (Declaration of Conformity and Declaration of Manufacturer)

All HQ series conveyors are designed for combination with BD series metal detectors.

BRC Compliance Option

- Lamp stack for audible and visual alarm (blue/clear/red/amber/siren)
- Key-switch for reject confirmation test (interrupts reject signal)
- Full enclosure (transparent) between metal detector and reject bin
- Reject confirmation
- Bin full monitor
- Air pressure error monitor
- Product jam/back up monitor
- Photo sensor for product counter and reject trigger
- Reject bin door monitor (Monitor signals when door is open for 5 minutes)
- Failsafe system with conveyor auto stop (metal detector error, reject device error, reject confirm error, bin full error, air pressure error)
- Reject memory enabled when the belt stops and is restarted.



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Standard Conveyor HQ

The Conveyor HQ consists of solid stainless-steel frames with mounting points for photo cell and reject device. The worm gear motor with 0.25 kw delivers 12 -24 m/min belt speed up to 16 kg product weight. The belt is equipped with an Intralox 900 Flush Grid/open white polypropylene (up to +104°C product temperature, FDA compliant) and a Trespa sliding plate (13mm / 1 in.)



Shown below are some of our available sizes. To discuss a size more suitable to your application, contact us.

Item Number	W x L (mm)	H (mm)	Features
10106040	400 x 1000	800 ± 100	Suitable for SHARK BD sensor up to 175 mm passage height, 4 x height adjustable feet, IP54
10106041	400 x 1000	800 ± 100	Suitable for SHARK BD sensor up to 175 mm passage height, 4 x height-adjustable swivel castors, IP54
10105852	400 x 1400	800 ± 100	Suitable for SHARK BD sensor up to a passage height of 250 mm, 4 x height adjustable feet, IP54
10105845	400 x 1400	800 ± 100	Suitable for SHARK BD sensor up to a passage height of 250 mm, 4 x height-adjustable swivel castors, IP54



Ascending & Angled Belt Conveyors

Ascending conveyors are equipped with special conveyor belts that prevent the transported goods from slipping. The conveyor belt depends on the incline and the unit loads to be transported.



Custom designs available to include one or more angle changes, including the Z-conveyor with a bend at both the beginning and end.



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Conveyors for bottles & jars

For the transport of bottles or jars, our bottle conveyor belts are equipped with easy to clean Flat Top belts from Intralox and corresponding lateral guides to stabilize the transported products.

Makrolon (polycarbonate) covers or partitions can be fitted for additional product protection.



Belts

Polyurethane Belts (PU)

PU belts are particularly suitable for all unpackaged products:

- Easy to clean
- Food safe (FDA compliant)
- Available in blue and white



Link chain belts from Intralox

We use link chain goods from Intralox. These belts are driven by sprockets and are easy to assemble and tighten.



Intralox belt versions	
Flush Grid	S800, S900, SI 100
Flush Grid Acetal EC	Abrasion-resistant, antistatic, e.g. suitable for sugar or glass transport
Flat Top	Closed surface for easy cleaning, suitable for unpackaged products/food contact
Thermo Drive	Made of homogeneous thermoplastic material, completely closed surface, for hygienic applications in the food industry





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Side rails, belt edges, tappets



Standard Side Rails



Side rails for for particularly high products



Side rails with silicone lip



CASSEL Inspection conveyor belts offer a wide range of adaptations to product or transport requirements, such as:

- Flexowell edges
- Tappets

Reject devices / Pusher



Transverse pusher TP

Pushes contaminated products sideways off the belt. Ideal for belt widths from 100 to 400 mm.

HQ-Pusher TP	For product weights up to 16 kg
HQ-Pusher TP-heavy duty	For product weights up to 30 kg
HQ-Pusher TP-HPW	For cleaning with high pressure cleaner (IP66 or IP69K)
HQ-Pusher TP bottles	Extra fast for use with bottles and jars



Linear pusher LP

Pushes contaminated products sideways off the belt. Particularly suitable for high belt speeds and where space is limited due to installation above the belt.

HQ-Pusher LP	Including pneumatic cylinder with sliding guide, service unit + pressure reducer
HQ-Pusher LP-heavy duty	For heavy products with high frictional resistance
HQ-Pusher LP-2-ways (surcharge)	Surcharge for pushing in both directions. Ejection takes place alternately to the left and right. The pusher plate remains on the ejection side. Advantage: allows smaller distance between the products.

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Fliparm

Swings onto the conveyor belt and thus deflects contaminated products sideways from the belt. Especially suitable for loose, packed products.

I0106507	Made of edged stainless steel, mounted on the side of the belt for belt width 200 mm
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Air Jet Pusher

Blows at the side of the conveyor belt, usable up to max. belt width 400 mm, air consumption 4-6 bar / approx. 5 liters of air per ejection.

I0106951	Pusher AJ Air Jet 02 Laval
I0106741	Pusher AJ Air Jet – extra strong
I0105241	Pusher AJ Air Jet, HPW (high pressure washing)



Reject flap at the belt end

Rotates upon metal detection and allows the contaminated product to slide under the conveyor belt. Suitable for packed and unpacked products.

I0100372	Reject flap RF1 at end of belt
I0106785	Rejection flap RF2 at end of belt
I0106788	Chute for reject flap
I0106657	Rejection flap made of Teflon at belt end



Folding roller conveyor

Rotates upon metal detection and allows the contaminated product to slide under the conveyor belt. Suitable for randomly lying, packed products.

I0105285	For PU- or link chain belts, up to 600 mm
I0105446	For PU- or link chain belts, 800 mm



Retracting belt-nose

The end of the belt retracts, so that contaminated products can fall into the collecting container under the belt. Suitable for loose products.

Belt nose HQ-GK	Ejector for link chain belt, belt widths 300 - 1300 mm, incl. container
Belt nose HQ-PU	Ejector for PU belts, belt widths 300 - 1300 mm, incl. container
Makrolon (polycarbonate) cover, access protection above or around retracting belt nose	



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Optional Extras

- Lockable reject bin or product chute for ejected products.
- Castors
- Makrolon (polycarbonate) cover, transparent
- BRC conformity
- SHARKNET® software
- USB interface
- Signal light, also with acoustic alarm
- Compressed air monitoring



Test samples provided

- Certified test pieces with Fe, NFe, and SS sticks, balls and cards available in various diameters.



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