

- Conveyor belts HQ - optimally adapted to use with metal detector METAL SHARK® BD
- 100% stainless steel - stable construction and easy to clean
- Different belt types and various ejection systems for every application, FDA compliant and heat resistant up to 120° C
- Accessories such as railing, lights, covers, light sensors can be added individually
- BRC-Kit: Conformity with all current standards for machines in the food industry



- solid stainless steel profiles closed on all sides with feet or rollers
- horizontal, rising and bending versions
- various belt types, especially for food applications, as standard, others on request
- optimally adapted for use with the METAL SHARK® metal detector
- IP protection class IP65, with LPW/HPW package also higher ones possible
- various ejection systems available
- With BRC package optimally suited for the food industry
- Covers, light barriers, railing systems, lights, sirens etc. are mounted individually

### Specifications:

Frame	Stainless steel AISI 304 / ISO 1.4301 (CrNi 18/10), profiles closed on all sides, tubular frame of 40x40x2mm and 80x40x2mm, available with adjustable feet or castors
Protection type	IP65 (IEC 60529) IP66 possible with package LPW-/HPW
Running height	800 mm ± 100 mm other heights and designs possible
Belt speed	12 -24 m/min (variable speed with variant STR/STL) others on request
Engine	SEW 0.25 kW or worm gear motor 0.25KW, depending on requirements also larger
Belt control	Belt control with frequency converter available for 115V and 230V
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 in standard, BRC possible

All HQ series conveyors can be combined with BD series metal detectors.

### Function:

The conveyor belts of the HQ series can be combined with the METAL SHARK BD metal detectors. The sturdy stainless steel frame is easy to clean and therefore ideally suited for increased hygiene requirements.

The belts are of course available in various widths and lengths as well as different belts or motor power. The extensive range of accessories, from railing systems, carriers or covers to ejection systems with connected signal transmitters, enables us to optimally fit the conveyor belts of the HQ series into your production line.

### BRC-Kit for the food industry:

With the option BRC-Kit the device meets the requirements of the Global Standard of the British Retail Consortium (BRC) for food safety and thus also the current standards for HACCP and IFS.

### Industries:

- Food
- Animal and pet food
- Chemistry
- Pharmaceuticals and hygiene
- Toys and Housewares
- etc.



### Belts standard horizontal:



Our conveyor belts HQ consist of solid stainless steel frames with pre-mounted brackets for light sensor and pusher. The worm gear motor with 0,25KW delivers 12 -24 m/min belt speed up to 16 kg product weight. The belt is equipped with an Intralox 900 Flush Grid/open PP white (up to +104°C product temperature, FDA compliant) and a Trespa sliding plate (13mm) for easy product ejection in case of metal contamination.

Art.-No.	W x L (mm)	H (mm)	Properties
# 10106040	400 x 1000	800 ± 100	suitable for SHARK BD sensor up to 175 mm passage height, sensor dimensions: D=100mm; C=280mm, 4 x height adjustable feet
# 10106041	400 x 1000	800 ± 100	suitable for SHARK BD sensor up to 175 mm passage height, Sensor dimensions: D=100mm; C=280mm, 4 x height-adjustable swivel castors
# 10105852	400 x 1400	800 ± 100	suitable for SHARK BD sensor up to a passage height of 250 mm, Sensor dimensions: D=100mm; C=280mm or D=120mm; C=330mm, 4 x height adjustable feet
# 10105845	400 x 1400	800 ± 100	suitable for SHARK BD sensor up to a passage height of 250 mm, Sensor dimensions: D=100mm; C=280mm or D=120mm; C=330mm, 4 x height-adjustable swivel castors

### Ascending & Angled Belt Conveyors:



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

With an angled conveyor, the belt run changes at least once upwards or downwards. L-conveyors bend once, while a bend at the beginning and end of the belt is called a Z-conveyor. With an angled conveyor, the belt run changes at least once upwards or downwards. L-conveyors bend once, while a bend at the beginning and end of the belt is called a Z-conveyor.

The following conveyor belts are possible:

- Conveyor belt with corrugated edges
- Conveyor belt with cross cleats
- Conveyor belt with cross cleats (Intralox)
- Grip or nubbed belt



### 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.

Macrolon covers or partitions can be fitted for additional product protection.

# 10100386	Highly abrasion resistant belt Intralox 900 Flat Top/Azetal blue, adjustable side guides
# 10100387	Highly abrasion resistant belt Intralox 900 Flat Top/Azetal blue, adjustable side guides, two additional lateral transfer belts

### Belts:



#### Belts made of polyurethane (PU)

PU belts are particularly suitable for all unpackaged products.

They are

- easy to clean
- food safe (FDA compliant)
- heat resistant (depending on the version)
- available in different colours



#### Link chain belts from Intralox

We use link chain goods from the company Intralox. The belts are transported via sprockets and therefore do not slip. They are easy to install and re-tension.

Intralox belt versions	
Flush Grid	S 800 – S 1000
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



### Lateral guides, belt edges, drivers:



Lateral guides standard



Lateral guides heavy duty



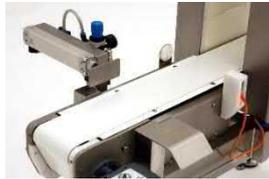
Lateral guide with silicone lip



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

- Flexowell edges
- Carriers
- Intralox stopper

## Ejection systems / Pusher:



### Transverse pusher TP

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

TP 32	for product weights up to 16 kg
TP-Schwerlast	for product weights up to 30 kg
TP-HPW	for cleaning with high pressure cleaner (IP66)
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. For belt widths from 100 to 700 mm.

LP-HQ-DGC	for product weights up ?? kg
LP-HQ-DGC heavy load	for product weights up ?? kg
LP-HQ-DGC 2-ways	for particularly high belt speeds



### Fliparm

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

# 10106507	made of edged stainless steel, mounted on the side of the belt for belt width 400 mm
------------	--



### 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 litres of air per ejection.

# 10100316	Pusher AJ AirJet
# 10106741	Pusher AJ AirJet – extra strong
# 10105241	Pusher AJ AirJet, HPW (high pressure washing)



### Ejection 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.

# 10100372	Ejection flap RF1 at end of belt
# 10106785	Ejection flap RF1 at end of belt
# 10106788	Slide for ejector flap
# 10106657	Ejection 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.

# 10105285	for PU- or link chain belts, 600 mm
# 10105446	for PU- or link chain belts, 800 mm



### Retreating 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 cover, access protection above or around retracting belt nose	

### Accessories:



Flashlight XENON red  
Very bright conspicuous optical alarm, 24V DC, IP 65  
RB 10-100V 2W Xenon beacon  
suitable for tripod or wall mounting



Alarm horn  
Alarm transmitter with very loud acoustic signal, 24 V/DC  
suitable for tripod or wall mounting



Flashlight + horn on stand  
Acoustic and optical alarm on stand, stainless steel,  
with bright xenon flashlight red and horn for conveyor belt mounting



Belt control for variable belt speed  
Start/stop/reset, main switch,  
Frequency converter for motor, stainless steel housing,  
Metal alarm: Band stop + acoustic. signal -or- control pusher



Test specimen set 6 pieces  
Certified, 100mm x 10mm x 10mm, acrylic, types and certificate number  
engraved in colour 2x FE, 2x NFE, 2x VA 1.4401 (sizes depending on  
application)

### CASSEL Quality Promise:

Every single device is thoroughly tested during and after production.  
Before delivery from the factory it is tested over several  
days subjected to a final inspection.

### Contact us:

CASSEL Messtechnik GmbH  
In der Dehne 10  
37127 Dransfeld  
phone: +49 (0)5502 911 50  
fax: +49 (0)5502 911 532  
email: [info@cassel.de](mailto:info@cassel.de)

