CONVEYOR TECHNOLOGY
PRODUCT CATALOGUE

HOSCH

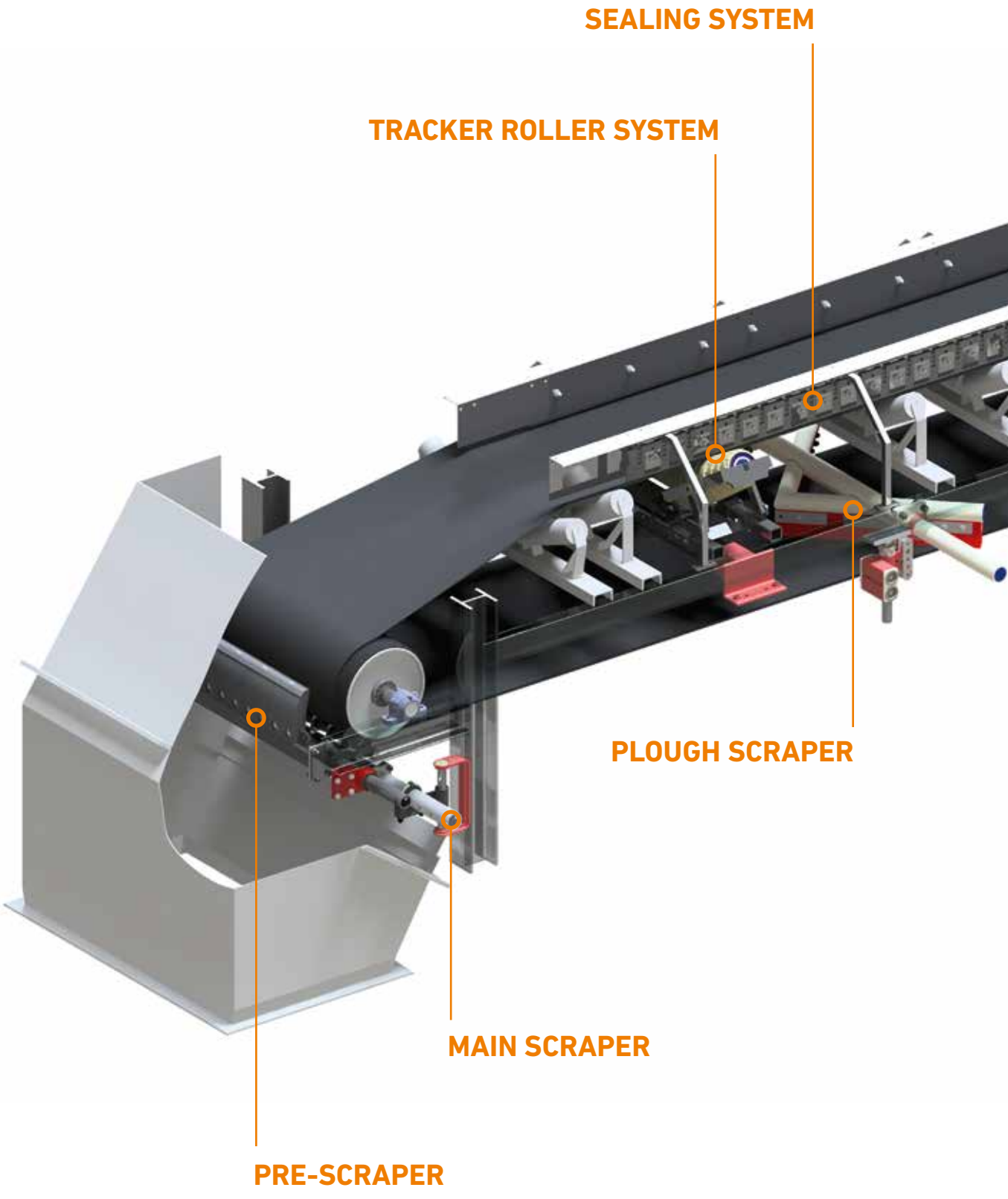
WHEN EXPERIENCE MEETS INNOVATIVE SPIRIT ...

Based on our many years of experience optimising conveyor belt systems, we can offer you individual solutions from our wide range of products.

Due to our worldwide presence, it is always possible for us to send you a specialist for problem analysis, as well as to guarantee long-term service and advice. In doing so, we draw on a global experience network of our employees that has grown over decades.

Especially under extreme conditions such as high conveyor belt speeds, wide conveyor belts and abrasive bulk materials, you will benefit from the proven, developed **HOSCH** technology. Of course, we flexibly cover any belt width and speed with our products. Each plant represents an individual challenge, which we are happy to meet. In many cases, this results in a long-term partnership with the customer.

We are globally recognised specialists in the industry and are constantly developing towards the future through our employees and products. In doing so, we are continually setting ourselves new goals. For example, with **HOSCH**iris, we are creating new possibilities for you in the field of conveyor belt monitoring and data analysis.


SEALING SYSTEM
TRACKER ROLLER SYSTEM
PLOUGH SCRAPER
MAIN SCRAPER
PRE-SCRAPER

CONTENT

THE HOSCH DIFFERENCE.

Permanent contact of the scraper edge to the conveyor belt, long service life due to the selection of the best materials, and research and development work at the highest level. The functionality of **HOSCH** products has many faces. The flexible **HOSCH** modular system allows a variety of individual solutions tailored to your plant.

Consultations, installations and maintenance are carried out by the experienced **HOSCH** Customer and Service Team. In this way, we guarantee you maximum performance over a long period of time.

We offer you this "ALL-ROUND CAREFREE PACKAGE" worldwide.

We are not afraid of any comparison. For this reason, we have developed our own comparative measurement, with which we can measure the performance of different cleaning systems together with you. The so-called carryback measurement has become the industry standard. You don't just see which savings opportunities are available to you on paper but directly on the system at the relevant conveyor belt. Do not hesitate to compare us with other suppliers. Contact us and convince yourself of the **HOSCH** difference.

Please visit our website
www.hosch-international.com
and discover more about us.

A **HOSCH** employee is always near you.
Get in contact with us, and we will come to you - no matter where you are.

OUR SERVICES FOR YOU:

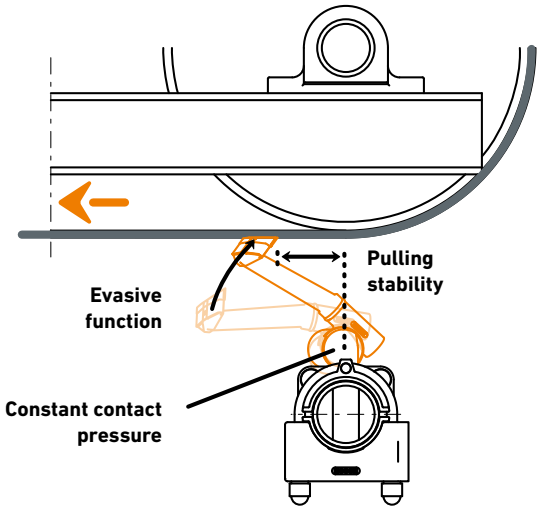
- technical analysis of your belt conveyor systems
- selection of suitable belt cleaning and belt tracking systems, etc.
- CAD-supported installation planning
- installation, commissioning and maintenance of **HOSCH** systems
- support the operation of your equipment by maintaining belt plans and maintenance statistics
- spare and wear parts management
- development of cost-saving potentials
- measurements and business analysis by utilizing carryback measurement

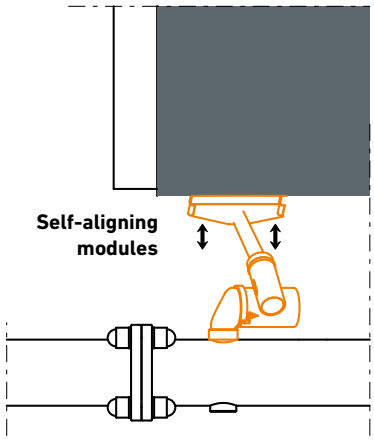
WHAT MAKES HOSCH TECHNOLOGY SO EFFICIENT?

SPRING AND DAMPING SYSTEM

An essential criteria for the efficient cleaning of conveyor belts is permanent contact between the scraper edge and the conveyor belt. We can ensure this with the **HOSCH** spring and damping system even under very rough and dynamic conditions. The combination of damping systems and pulling stability supports the low-vibration running behaviour of the scraper.

The **HOSCH** spring and damping system and the pulling stability guarantee:
- steady and long-lasting belt contact of the scraper edge
- a flexible evasion in case of interfering edges (e.g. mechanical splices)
- the maintenance of constant contact pressure with continuous wear
- the smooth running of the scraper





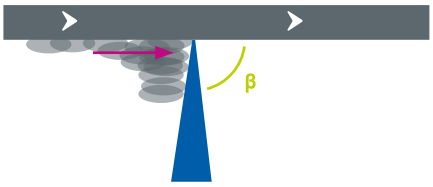
ADAPTATION TO THE BELT SURFACE

Due to individual height adjustment, pre-tensioning as well as three-dimensional, independent alignment, the modules ideally adapt to the belt contour. This innovative belt adaptability of the **HOSCH** scrapers is an elementary component of cleaning efficiency.

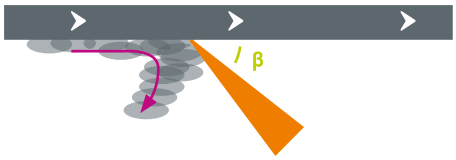
PAINT SCRAPER PRINCIPLE

Around the scraper, three distinguishable geometric arrangements of the cleaning elements have emerged through different approaches. In the following, we explain the different positions and why **HOSCH** has specialised in the paint scraper principle.

Dragging arrangement
- insufficient cleaning efficiency due to pocket formation and increased material jam
- increasing belt load due to the strong contact pressure required



Bar principle, 90° to the belt
- moderate cleaning efficiency but still higher contact pressure needed to ensure belt contact



Paint scraper principle
- highest possible cleaning efficiency
- optimal drainage of the material
- low contact pressure between scraper edge and belt
- minimum belt strain

OVERLAPPING ARRANGEMENT OF THE SCRAPER MODULES

An overlapping arrangement of the module rows avoids material drafts between the individual scraper segments. Due to its very high cleaning efficiency, HOSCH can often do without a pre-scraper.

MODULAR PRINCIPLE

We meet the complex requirements of your plant with a high degree of flexibility without having to make extensive changes. Solutions for special features such as increased vibrations, extraordinary abrasiveness or mechanical splices are made possible by our modular system.

KEEP IT RUNNING
HOSCHiris

Start into the future with us, „iris“ stands for „intelligent responsive information system“.
With the digital solutions you can keep an eye on your systems and gain new insights. In line with the 360° approach, **HOSCH**iris connects devices, users, technicians and **HOSCH** engineers. Central data is exchanged and made available digitally. **HOSCH**iris is your entry into digital monitoring. Problems are identified at an early stage and the risk of downtimes is minimized. Maintenance, operations and spare parts management can be planned more easily. Last but not least, **HOSCH**iris makes a contribution to occupational safety, since a well-maintained system and problems with the conveyor belt that are recognized early reduce safety risks.

HOSCH iris DATA

Device and service data management

Captures relevant information and provides access to advanced digital solutions. Increases transparency and work safety.

HOSCH iris DETECT

Battery powered belt incident detector

Measures and reports belt damage in case defined limit value is exceeded. Enables higher asset availability and reduces personnel costs.

HOSCH iris DISCOVER

Continuous belt monitoring and data visualisation

Seamless belt monitoring and individual warning system with belt-specific, processed live data. For increased asset availability and continuous production.

HOSCH iris DATA

THE STRUGGLE IS REAL!

Keeping an overview of all assets and track of critical spare parts and service missions is a daily challenge. **HOSCH**iris DATA provides all critical information anytime, anywhere! Whether you are on-site or in the office, get an overview of service history and service planning. The **HOSCH**iris DATA app keeps track of spare parts and service missions around your scraper. Even without mobile network.

BENEFITS

transparent service and inventory
- receive digital service reports and access your asset data remotely

increase work safety
- have all necessary data and emergency contacts available remotely and on-site

reduce management efforts
- automated inspection scheduling, reporting and invoicing, spare part demand forecast

Service report

HOSCH

Type: Maintenance (In Progress)

- Created at: 03-26-22
- Operation /Location: Test Operation NFC21
- Plant/Area: Test Plant NFC21
- Conveyor: NFC21
- Position: Test ConveyorNFC21_LR_0.20_H
- Device type: B6-C
- Device-ID: 04846EA696680

Device detail:

Type	Article number	Changed
End-section	0544630	
Mounting	0551520	
Assembly carrier-Midsection	0541510	
Module / Blades / Blocks	SET0000045	1
Elements	0530279	9
Module / Blades / Blocks	SET0000056	5
Assembly carrier locking device	SET0551591	
Spindle	SET0000136	
Other / accessories / small parts	0562230	

Summary

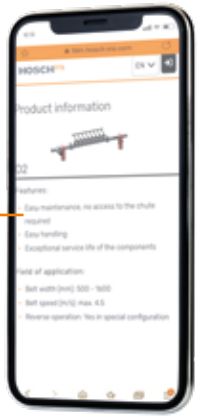
1. Maintenance Team
2. Maintenance Type
3. Conveyor Status - Prior Service
4. Scraper Status - Prior Service

Device and service data management

Captures relevant information and provides access to advanced digital solutions. Increases transparency and work safety.

AND THAT'S HOW EASY IT WORKS:

- Attach the **HOSCH**iris DATA tag at your asset
- The tag is scanned to inventorise the asset with details on plant, location, belt and scraper type
- Service staff will regularly scan the tag and update data on scraper type, condition, spare parts and other data
- All information is available at a glance even without mobile network



SYSTEM FEATURES

- straight forward device inventory
- digital capture via NFC and QR code
- usable with mobile, tablet and PC
- device data always at hand
  - device configuration
  - service history
  - belt information
  - spare parts monitoring
  - work place emergency information

collecting in-field data since 2019

applied in over 1,000 operations

Information on 7,550 conveyor belts digitized

available worldwide

HOSCH iris DETECT

NOBODY LIKES UNSCHEDULED DOWNTIME!

How about getting notified when an issue at your belt occurs? Even before an emergency shutdown is necessary? What if belt inspections are performed on demand instead of when scheduled? Dreams of the future?
No: **HOSCH**iris DETECT the belt incident detector!

BENEFITS

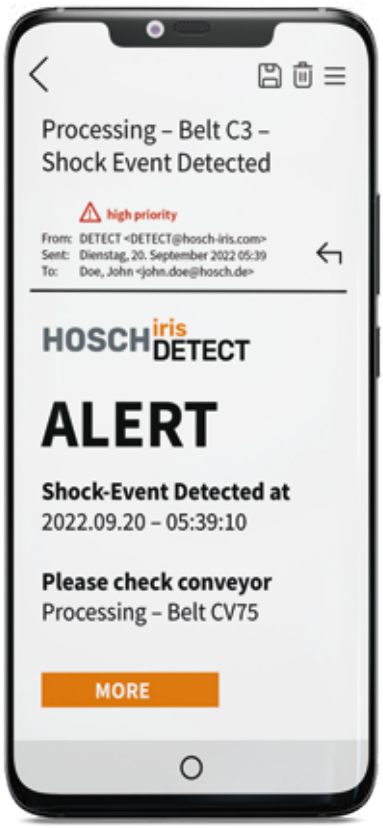
reduce manual inspection efforts
• be notified about potential incidents rather than inspect remote installations frequently
increase work safety
• perform on-site inspections on demand, instead of matching schedules
increase uptime
• be informed about potential issues before they cause breakdowns

Battery powered belt incident detector

Measures and reports belt damage in case defined limit value is exceeded. Enables higher asset availability and reduces personnel costs.

AND THAT'S HOW EASY IT WORKS:

- **HOSCH**iris DETECT is installed on your scraper
- by regular measurement the limit values for common vibration are defined
- relevant contacts for receiving notifications are defined
- if limit values are exceeded you will be notified automatically



SYSTEM FEATURES

- event based warning system right at the conveyor belt
- easy installation and maintenance
- automatic calibration and data -transmission (NB-IoT)
- battery powered (lifetime 6-12 months)
- energy-saving stand-by mode
- regular norm measurement and threshold setting
- usable with mobile, tablet and PC
- when individual limit values are exceeded:
  - direct notification via e-mail
  - detail measurement and data transmission for analysis of the incident

online in top 5 world iron ore operations
securing continuous belt operations since April 2022
operating in the toughest climates and environments
available worldwide

HOSCH iris DISCOVER

NO TIME FOR SURPRISES!

Take advantage of the privileged position of **HOSCH** scrapers right at the belt. **HOSCH**iris DISCOVER expands the HD-PU scraper-line by adding sensors, cameras and data transmission for a continuous belt monitoring. This tailor made remote monitoring tool leverages asset specific and automatically processed data. Improve work safety and asset availability, now!

BENEFITS

reduce down-time and assure continuous production
• be informed about potential issues before they cause breakdowns or damages

reduce risk for costly belt damages
• continuously monitor changes in belt surface and scraper behaviour

increase work safety
• perform on-site inspections on demand instead of following schedules

reduce labour input
• benefit from digital monitoring to reduce manual inspection efforts of your conveyor

Continuous belt monitoring and data visualisation

Seamless belt monitoring and individual warning system with belt-specific, processed live data. For increased asset availability and continuous production.

FLAGSHIP PROJECT BRENNER TUNNEL

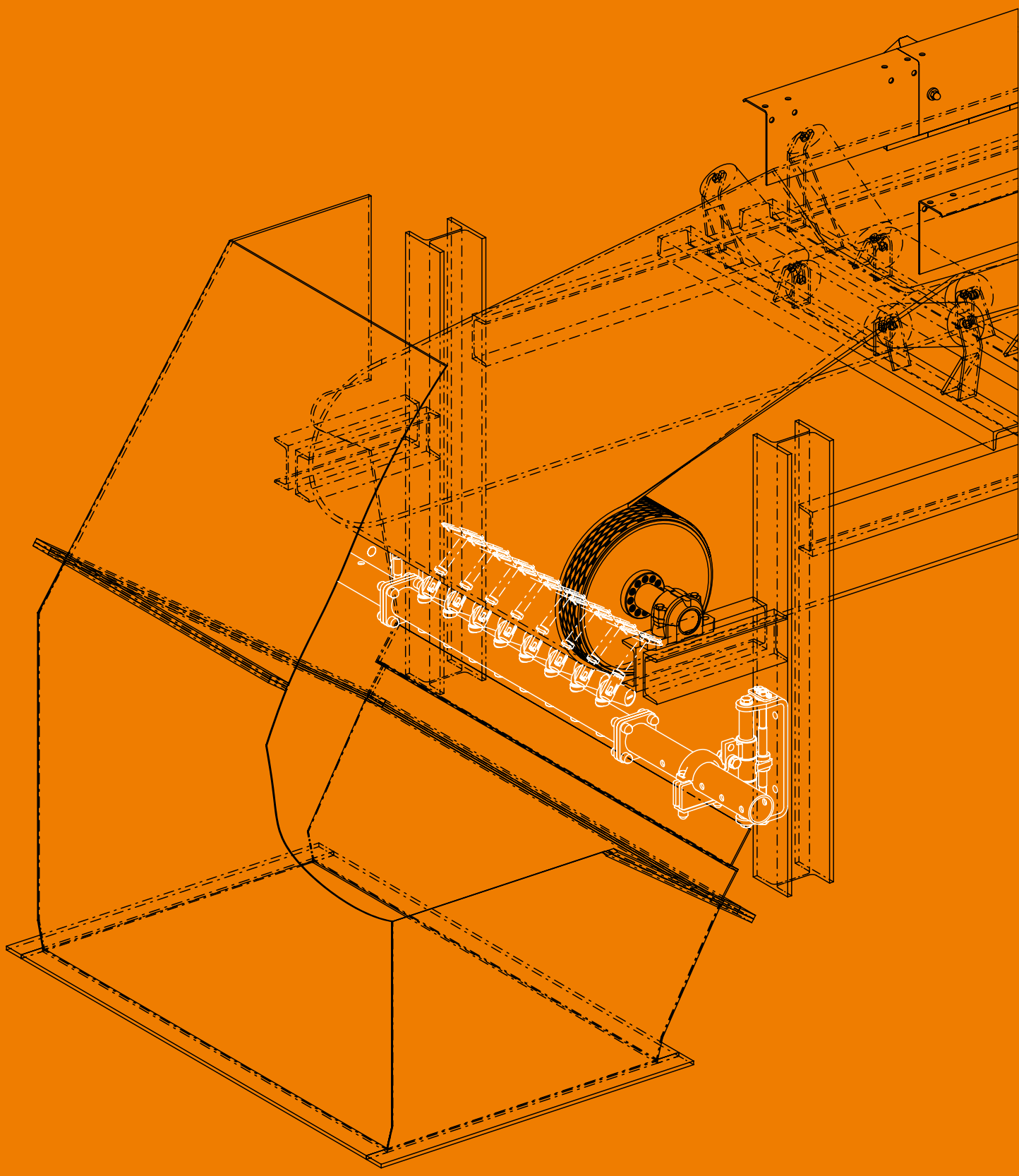
Under the Brenner Pass the longest underground railway tunnel of the world is being constructed. In the shallow tunnel construction, down-times of the main conveyor will cause an immediate stop of the tunnelling progress and generate enormous costs.

*"Thanks to **HOSCH**iris I do not need to worry about the belt, unless I receive an e-mail notification by the system. This gives me time to focus on production and helps to schedule belt maintenance efficiently."*
Mattia Corna, Plant Manager, Brennero Tunnel Construction

SYSTEM FEATURES

• continuous belt monitoring and data visualisation • vibration resistant HD data • recording and transmission • video stream of belt operation • data storage on-site and in the cloud • online visualisation with live data in individual dashboards • signal history • individual configuration options • remote access from any device via web-browser • event notification and alerts via e-mail • support of the **HOSCH** expert team • reliable data can be used for further applications and analyses

- online in Europe's largest tunnelling project
- prevented 10.2 Mio.€ in belt damages in its first year
- 181 Mio. meter of belt scanned
- continuous and high resolution data transmission
- available worldwide



MAIN SCRAPERS

It is customary in the market to install several scrapers, but one optimally matched main scraper from **HOSCH** is usually sufficient to achieve maximum cleaning results. This not only saves investment costs, but also minimises the installation and maintenance effort. The use of only one highly efficient main scraper, which replaces two or three conventional scrapers, also minimises the necessary modifications to the transfer.

The highest productivity with low manpower is an absolute must for conveyor operators worldwide in today's world.

In extreme applications, an additional pre-scraper can be used to relieve the load. However, this is usually not required due to the unique performance of **HOSCH** main scrapers. Our primary goal is to provide you with a perfect result with the minimum amount of equipment. A **HOSCH** main scraper will exceed your expectations.

YOUR ADVANTAGES

- significantly reduce cleaning and operating costs
- increase your plant availability by:
  - shortened installation and maintenance times due to extremely simple and innovative handling
  - extended maintenance intervals due to exceptionally long component service life
- acquire a maximum flexible product that meets the most challenging requirements
- use a wide range of optional accessories to compensate for any special features caused by the analogue system
- use a wide range of individualised special components to solve your problems, such as: extreme abrasion, chemical influences or special dynamic effects extreme

MAIN SCRAPER
TYPE A1

Ingeniously easy

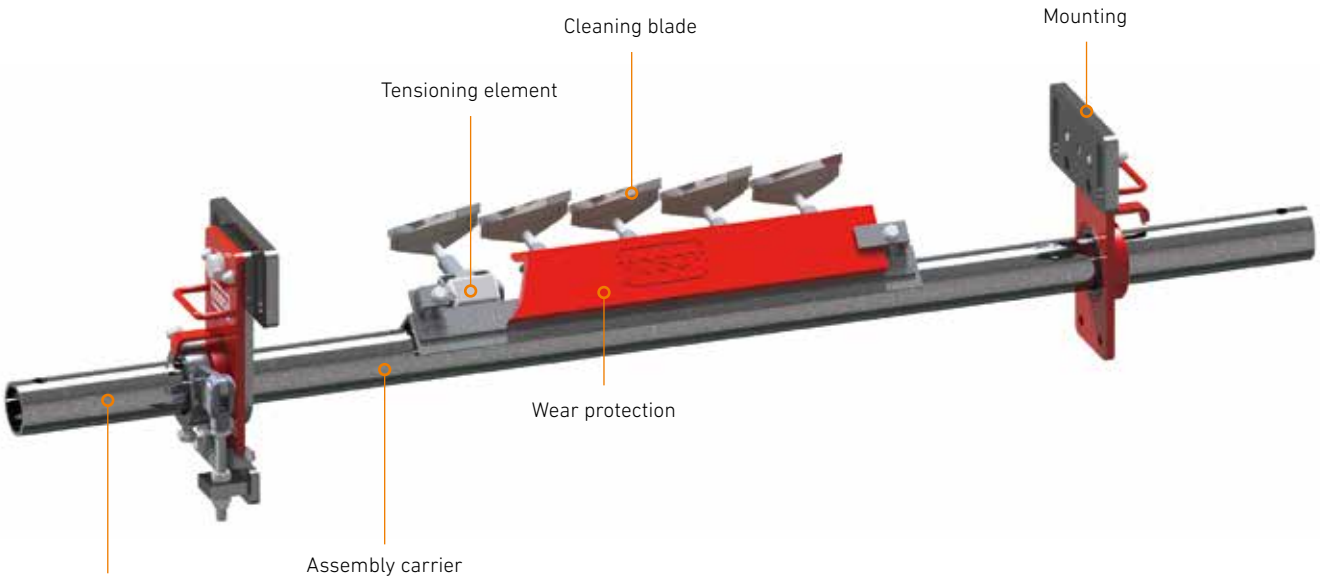
We have listened to our customers and put their wishes into practice: Scrapers should be installed quickly and easily, perform immediately and reliably, and be safe. This basic scraper was created for simple and safe applications. Maintenance costs are considerably lower due to its innovative and carefully thought-out design. With "Plug & Scrape" we have found a name for these advantages. The patented module change "Plug and Scrape" means: Push, turn, engage – ready. No effort, no tools, maximum reliability. The type A1 is equipped with the proven HOSCH qualities and offers very good value for money for standard applications.

Give it a go yourself!

TECHNICAL DATA

Data/Type	A1
Belt width	500 – 1,200 mm
Belt speed	≤ 3.5 m/s
Conveyor Belt	For smooth fabric and steel cord belts with vulcanised splices
Reverse operation	No
Runback	No
Installation position	In the lower belt area
Cleaning modules	Spring-loaded, carbide-tipped modules with individual evasion function
Design	Modular design

MAIN SCRAPER
TYPE A1



PLUG & SCRAPE

Tool free module change

SPECIAL FEATURES

- long service life due to carbide scraper edges
- tool-free patented module change with Plug & Scrape
- fast deinstallation of assembly carrier (patent application)
- overlapping modules for gapless cleaning
- suited to smaller belts
- no tensioning is required during the complete lifespan of modules

OPTIONS

OPTIONAL INSTALLATION AID

The installation aid makes it easier to pull out the scraper from the side for maintenance or testing, eliminating the need to step into the chute.

MAIN SCRAPER
D-SERIES

With the D-Series, **HOSCH** has taken up the challenge of making innovative products even more user-friendly. All the practical experience gained in collaboration with **HOSCH**'s own research and development department has gone into the realisation of the D-Series.

With its numerous innovations, the D-Series shows its strengths not only in its very high cleaning performance, but also in terms of manageability. For many of our customers, using a scraper that is easy to operate but still meets the highest demands is important.

With the D-Series, **HOSCH** once again points the way to the future as a technological industry leader.

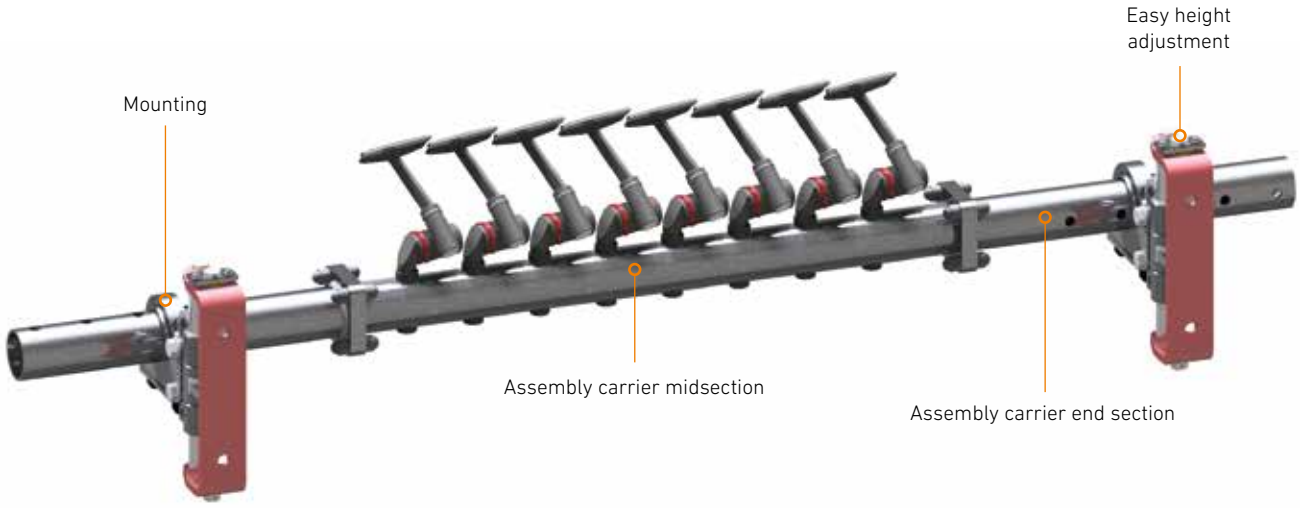
- the simple and self-explanatory handling
- ensuring permanent belt contact due to increased absorption capacity of dynamic forces
- the improved material flow between the scraper modules and the resulting lower material build-up enable trouble-free operation
- significant reduction of installation and maintenance effort, as all settings can be made outside the chute
- long component service life
- fewer wearing parts and extended maintenance intervals

We proudly present the result: Get to know the D-Series with its technical data, special features and optional accessories.

TECHNICAL DATA

Data/Type	D2	D3
Belt width	500 – 1,600 mm	1,400 – 2,000 mm
Belt speed	≤ 4.5 m/s	≤ 5.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices	
Reverse operation	Yes, in a special version (see optional accessories)	
Runback	Yes, in a special version (see optional accessories)	
Installation position	In the lower belt area	
Cleaning modules	Spring-loaded, separately adjustable, carbide-tipped modules with evasive function	
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)	

D-SERIES
TYPE D2/D3



SPECIAL FEATURES

- uniform cleaning performance over the entire belt width due to a defined pretensioning of the modules
- the high pulling stability guarantees smooth running and avoids material buildup on the assembly carrier
- using the adjustment scale, each module is provided with the correct pretension and adapted to the belt contour
- accelerated maintenance process due to reproducible adjustment of the scraper by means of the optional adjustment ring
- the single-row, overlapping arrangement of the modules enables gap-free cleaning and simplifies installation
- wear limit control through fixed end position guarantees maximum safety for your conveyor belt

OPTIONS

VERSION WITH RUNBACK DEVICE RV-D2/D3

In the case of system-related runback (shuttle belt, rising conveyor belts, etc.), it is possible to use a **HOSCH** runback device (for further information, see scraper accessories).

VERSION WITH DISENGAGING DEVICE ASV

With an electric disengaging device (ASV-D-E), the scraper type D can also be used in reverse operation (for further information, see scraper accessories).

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

OPTIONAL INSTALLATION AID

The installation aid makes it easier to pull out the scraper from the side for maintenance or testing, eliminating the need to step into the chute.

OPTIONAL COVER PLATES

Access hatch covers can be supplied on request to prevent fine-grained bulk materials from escaping from the access hatch.

VERSION WITH OFFSETS

With the help of offset profiles, obstacles in the belt construction can be bypassed, so nothing stands in the way of optimal installation.

VERSION FOR MECHANICAL BELT SPLICES

HOSCH scrapers type D can be equipped with K-modules to ensure safety and cleaning performance even with mechanical belt splices or poor conveyor belt surfaces.

VERSION WITH HEATING SYSTEM

The scraper can also be used at low operating temperatures with the option of a special heating system (for further information, see scraper accessories).

MAIN SCRAPER
C-SERIES

With the development of the C-Series in the early 90s, **HOSCH** set new standards in the field of scraper technology. Over the years, the product family has been expanded and optimised according to customer requirements. Today, the C-Series offers you the highest possible flexibility in terms of installation position and cleaning performance typical of **HOSCH**. From narrow conveyor belts in sand and gravel plants to wide and fast conveyor belts in open pit mining, C-Series scrapers can be used in all areas. Numerous optional accessories and combination possibilities make a C-Series scraper a versatile and practical tool for cleaning your conveyor belts.

In addition to the different designs of the individual C-types, they all have the following special features:

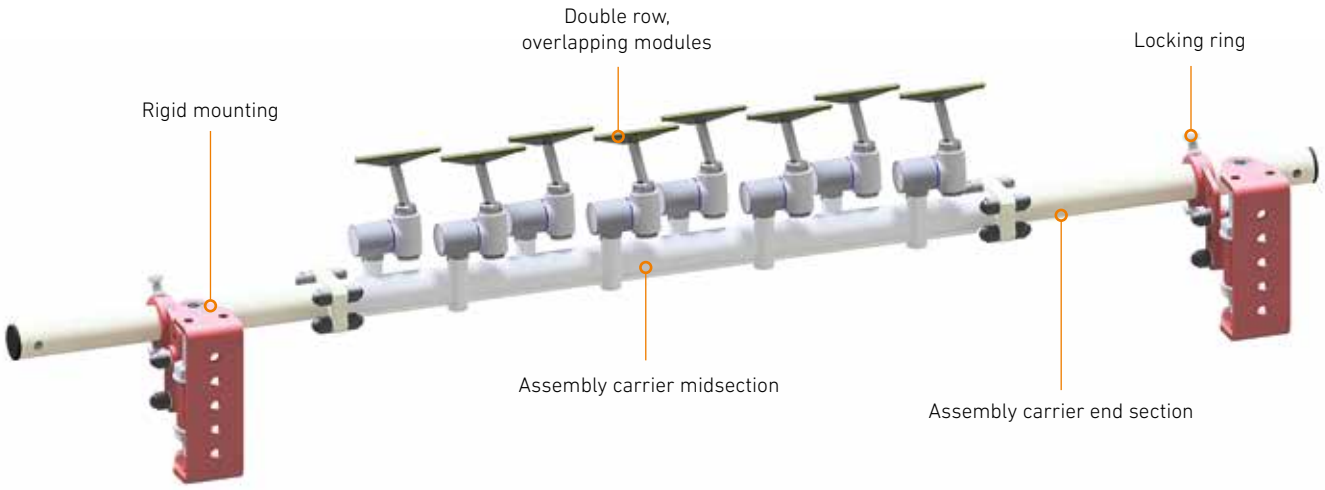
- double-row module arrangement for gapless belt cleaning
- evasive function of the modules in case of a collision with interfering edges as well as immediate return to the conveyor belt.
- adaptation to belt contour by self-adjusting and damping modules
- the **HOSCH** automatic adjustment system ensures that the scraper edges are always in full contact with the belt surface

A scraper that is adaptable and gives you the cleaning performance you want.

TECHNICAL DATA

Data/Type	C1®/C1®V	C2	C3	C4	CT
Belt width	300 – 1,000 mm	600 – 2,000 mm	1,400 – 3,200 mm	1,400 – 3,200 mm	600 – 2,000 mm
Belt speed	≤ 2.5 m/s	≤ 4.5 m/s	≤ 7.5 m/s	≤ 7.5 m/s	≤ 3.5 m/s
Conveyor belt	For smooth fabric or steel cord belts with vulcanised splices				
Reverse operation	Yes, in a special version (see optional accessories)				
Runback	Yes, in a special version (see optional accessories)			No	Yes, in a special version (see optional accessories)
Installation position	In the lower belt area as well as on the drum	In the lower belt area			At the head drum
Cleaning modules	Spring-loaded, separately adjustable, carbide-tipped modules with evasive function				
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)				

C-SERIES
TYPE C1®/C1®V

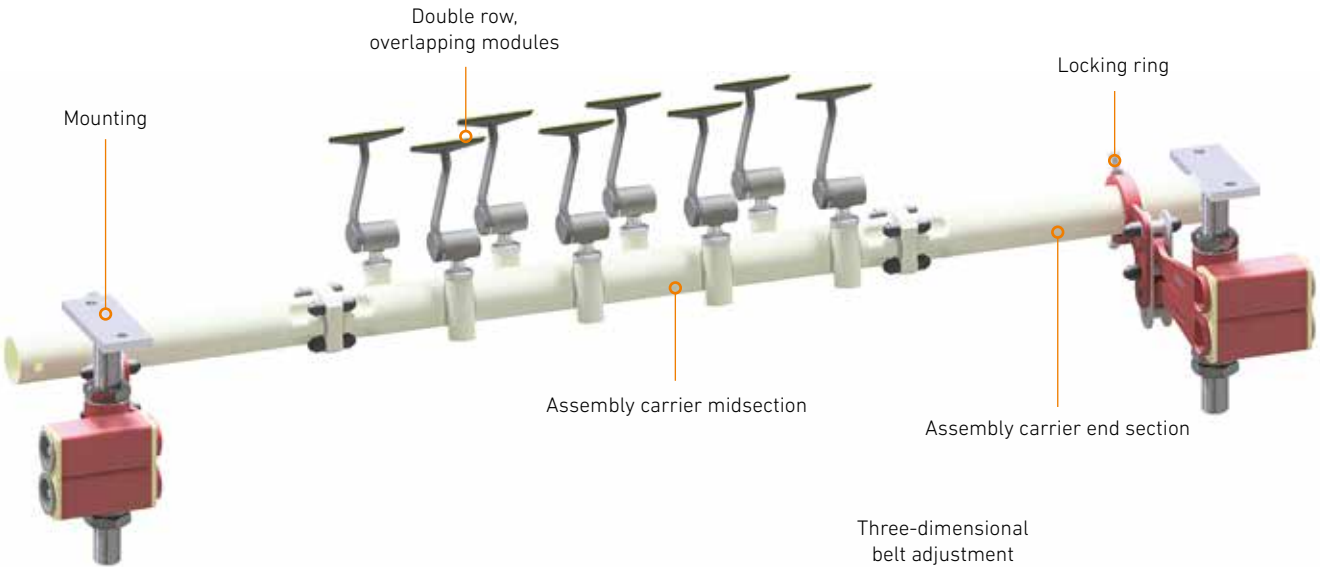


Separate structure of modules

SPECIAL FEATURES

- designed for all belts in the range from 300 to 1,000 mm
- low profile space requirement for the installation area thanks to its compact design
- both the C1® and C1®-V can be mounted in the lower belt area and on the drum
- optional rigid or spring mounting
- two-part design of the module wear components guarantee reduced spare parts costs

C-SERIES
TYPE C2/C3

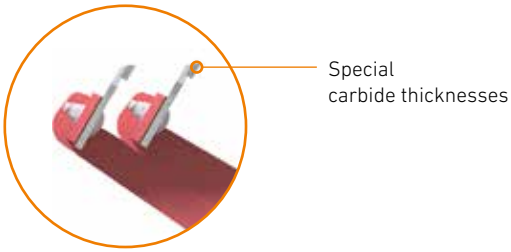


Three-dimensional
belt adjustment

SPECIAL FEATURES

- designed for conveyor belts in the range from 600 to 3,200 mm
- can also be used at extreme belt speeds
- reliable material flow prevents material jams even at high speeds
- absorption of all dynamic forces by the module ensures constant belt contact
- three-dimensional adaptation of the modules to the belt surface

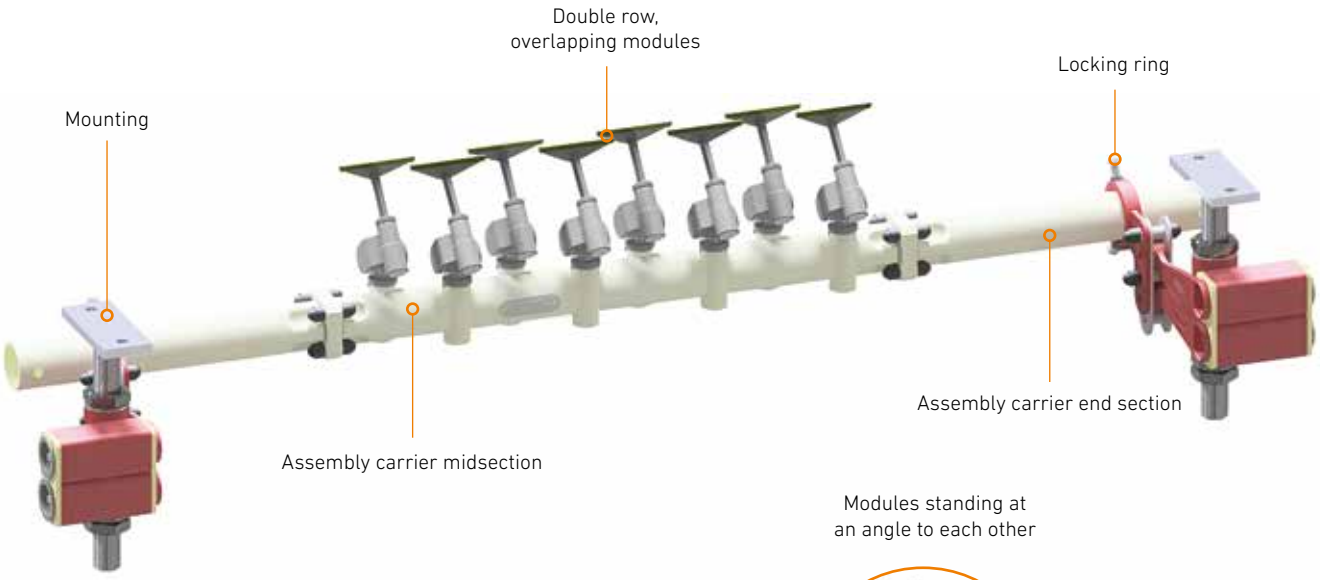
C-SERIES
TYPE C4



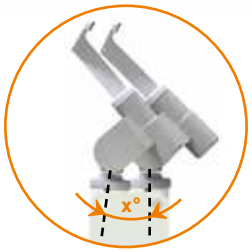
SPECIAL FEATURES

- very robust scraper, suitable for use on wide belt conveyors with high belt speeds and conveying volumes
- special designs available for applications with medium belt widths
- the extended pulling stability of the modules guarantees the necessary smooth running operation, even with high-speed conveyor belts
- special carbide thicknesses to counteract the higher wear speeds caused by the equipment
- heavy duty design of the spring modules compensates for the strong vibration and belt forces
- sophisticated pretensioning mechanism makes the heavy-duty design user-friendly

C-SERIES
TYPE CT



Modules standing at
an angle to each other



SPECIAL FEATURES

- main scraper for use on the drum with the typical **HOSCH** cleaning performance
- used as a powerful pre-scraper or sole main scraper in tight chutes
- the modules of the CT are designed to withstand the increased dynamic loads on the drum
- the angular arrangement of the two rows of modules relative to each other enables optimum adaptation to the drum

OPTIONS

VERSION WITH RUNBACK DEVICE (RV1/RAX)

In the case of runback caused by the plant (loop car, rising conveyor belts, etc.), it is possible to use a runback device (for further information, see scraper accessories).

VERSION WITH DISENGAGING DEVICE ASV

With a disengaging device (ASV), **HOSCH** scrapers can also be used in reverse operation. This can be done electrically, electro-pneumatically or electro-hydraulically (for further information, see scraper accessories).

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

VERSION WITH OFFSETS

With the help of offset profiles, obstacles in the belt construction can be bypassed, so nothing stands in the way of optimal installation.

DESIGN FOR MECHANICAL BELT SPLICES

Almost all C-Series scrapers can be equipped with K-modules to ensure safety and cleaning performance even with mechanical belt splices or poor conveyor belt surfaces.

VERSION WITH SPINDLE SUPPORT

In case of increased vibrations and larger belt widths, the **HOSCH** scrapers are equipped with additional spindle support.

CHEMICALLY RESISTANT (CR) VERSION

The CR version of **HOSCH** scrapers is used in areas that contain chemically corrosive components in the conveyed material due to the process. The use of special materials significantly improves the life cycle and performance of the scraper.

VERSION WITH HEATING SYSTEM

With the option of a special heating system, the scrapers type C2 and C3L can also be used at low operating temperatures (for further information, see scraper accessories).

MAIN SCRAPER
B-SERIES

As early as 1986, the still young company achieved a worldwide breakthrough in scraper technology with the B6 scraper.

The B-Series is the most proven product line in our range and has been continuously developed. With its robust and compact design as well as flexible application possibilities, it is valued as a reliable all-rounder.

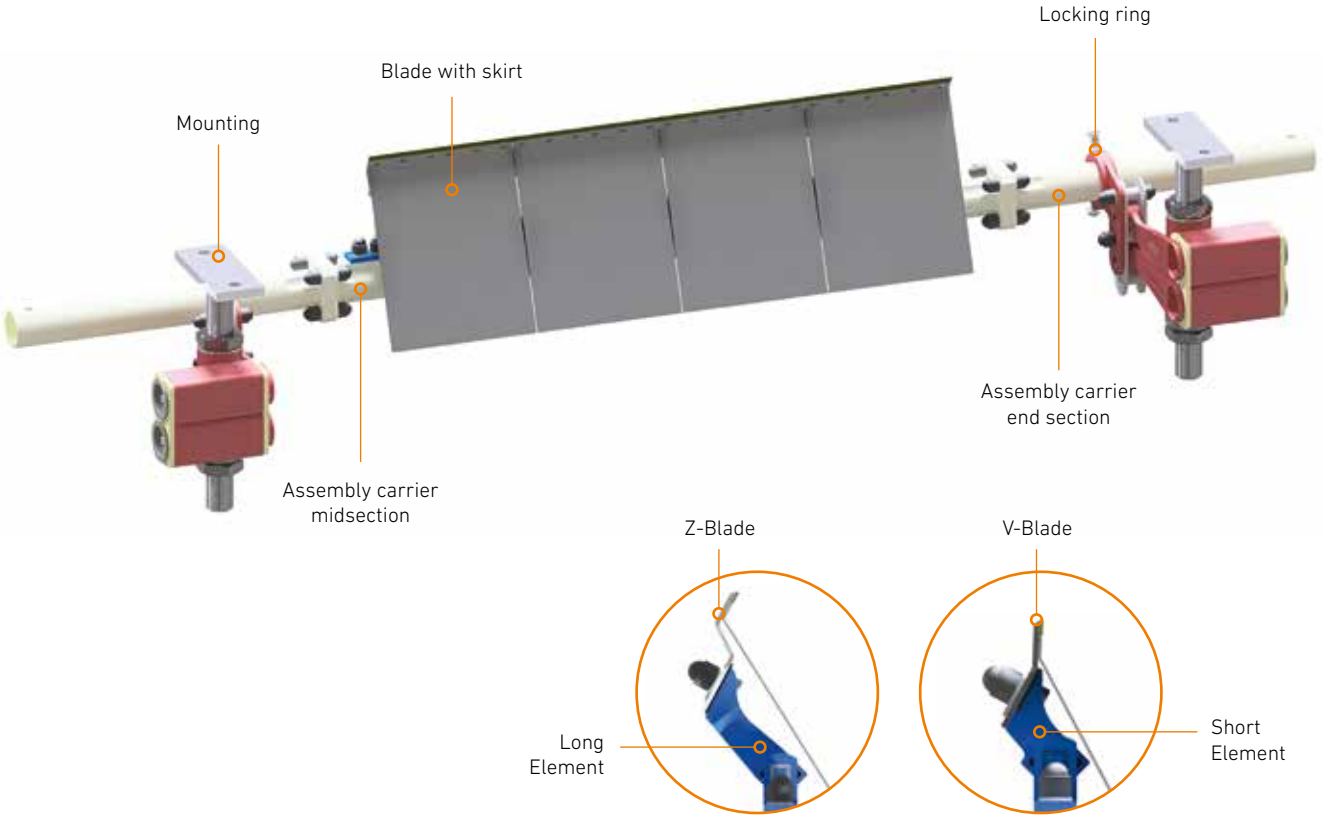
Similar to the concept of the C-Series, it acquires a variety of configurations by means of its modular system. Various blade and element combinations allow for precise adaptation to your installation. From low-cost and simple variants to special designs, the B-Series covers all requirements.

See for yourself the best-selling scraper in the **HOSCH** offer.

TECHNICAL DATA

Data/Type	B6L-C	B6-C
Belt width	400 – 800 mm	650 – 3,200 mm
Belt speed	≤ 3.0 m/s	≤ 6.0 m/s
Conveyor belt	For smooth fabric or steel cord belts with vulcanised splices	
Reverse operation	Yes, in a special version (see optional accessories)	
Runback	Yes, in a special version (see optional accessories)	
Installation position	In the lower belt area and on the drum	
Cleaning blades	Spring-loaded, carbide-tipped blades with individual evasive function	
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)	

B-SERIES
TYPE B6L-C/B6-C



SPECIAL FEATURES

- different cleaning blades ensure versatile application possibilities in all areas (see optional accessories)
- skirts mounted on the blades deflect the material forward and feed it into the material flow
  This is particularly advantageous in tight transfer situations
- also available as OEM configuration
- variable adjustability
- automatic self-adjustment
- compact design for low space requirements
- after consultation with **HOSCH**, also available in special sizes and individual designs

OPTIONS

VERSION WITH DISENGAGING DEVICE (ASV) OR REVERSING ADAPTER (RE-AX)

With a disengaging device (ASV), **HOSCH** B-Series scrapers can also be used in reverse operation. This can be done electrically, electro-pneumatically or electro-hydraulically. In the case of runback or low reversing cycles, reversing adapters (RE-AX) can also be used after consultation with **HOSCH** (for further information, see scraper accessories).

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

VERSION WITH OFFSETS

With the help of offset profiles, obstacles in the belt construction can be bypassed, so nothing stands in the way of optimal installation.

VERSION FOR MECHANICAL BELT SPLICES

In a selected configuration, the B-Series scrapers can ensure safety and cleaning performance even with mechanical belt splices or poor conveyor belt surfaces (please consult **HOSCH** for this).

VERSION WITH SPINDLE SUPPORT

In case of increased vibrations and larger belt widths, the **HOSCH** scrapers are equipped with additional spindle support.

VERSION WITH HEATING SYSTEM

The scraper can also be used at low operating temperatures with the option of a special heating system (for further information, see scraper accessories).

B6-R VERSION

The retractable **HOSCH** scraper has been specifically designed to maintain the equipment without long downtimes outside the chute. This allows a new dimension of maintenance speed with minimal effort (for further information, see scraper accessories).

CHEMICALLY RESISTANT (CR) VERSION

The CR version of **HOSCH** scrapers is used in areas that contain chemically corrosive components in the conveyed material due to the process. The use of special materials significantly improves the life cycle and performance of the scraper.

CR

ONE-PIECE ASSEMBLY CARRIER

In addition to the standard variant with assembly carrier mid- and end sections (type B6-C), the assembly carrier is also available in a one-piece version (type B6), which is intended for use in narrow installation areas, among other places.

Z AND V BLADE

The blades play a special role due to their different shapes. While the so-called Z-blade works on the paint scraper principle and thus stands for high cleaning efficiency, the V-blade has a 90° arrangement and is used for reversing belts and installation on the drum.

LONG AND SHORT ELEMENT

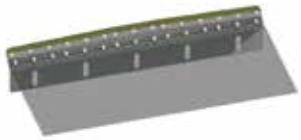
The elements connect the assembly carrier and the blades. They absorb dynamic forces and thus ensure permanent belt contact of the scraper. A long and a short variant of the elements creates additional possibilities for adaptation to the plant conditions.

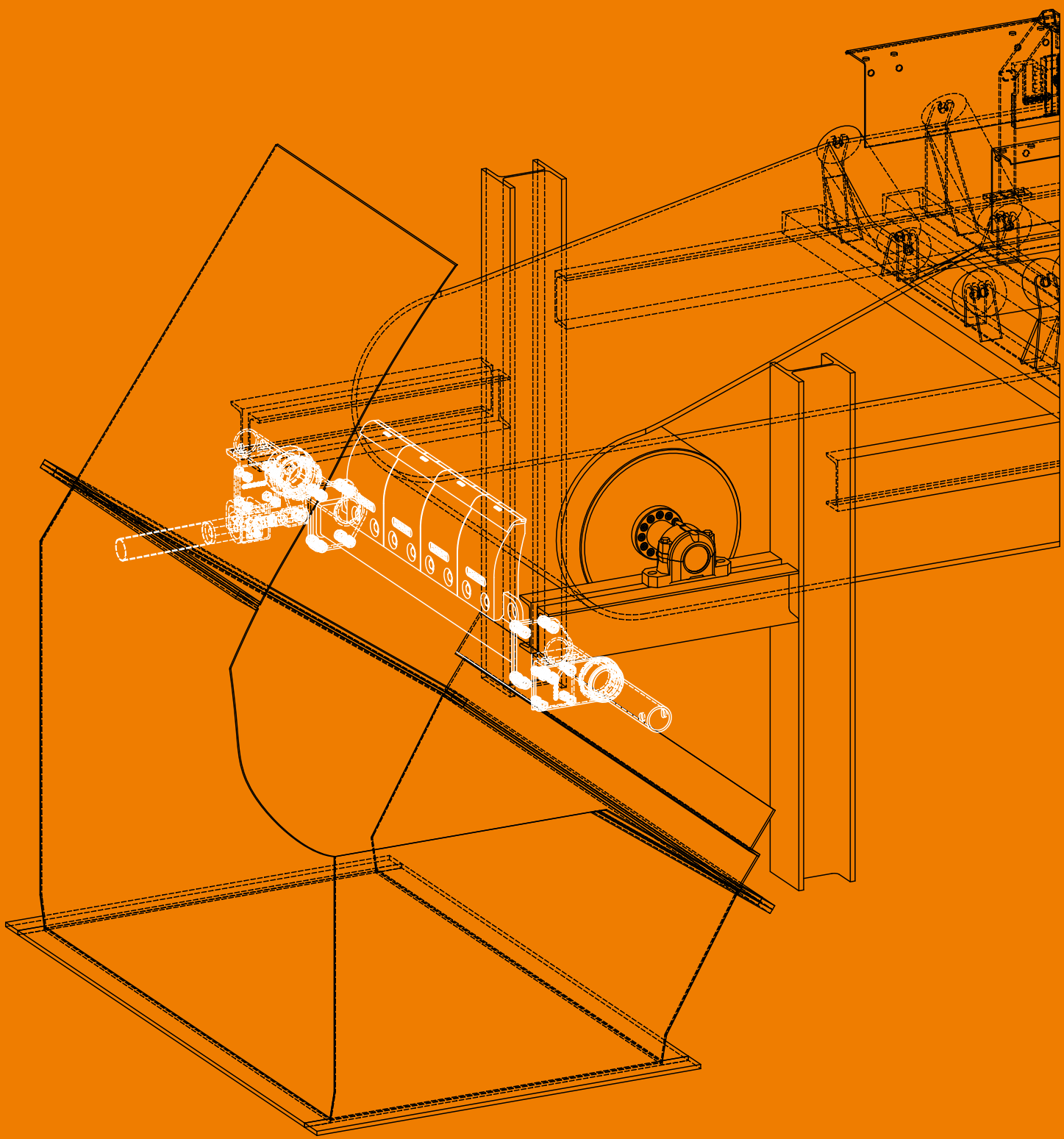
ALTERNATIVE RIGID MOUNTING

Light and slow-running conveyor belt systems are often subject to economic or space constraints, which **HOSCH** meets with separate components. For example, the spring mounting can be exchanged for a rigid mounting variant.

REA BLADE AND COMBI BLADE

In addition to the standard blades, there is the option of using an REA or combi blade. In this case the complete loading width is covered with a single blade. Talk to your **HOSCH** customer support to learn more about the possible applications and advantages of this blade.





PRE-SCRAPERS

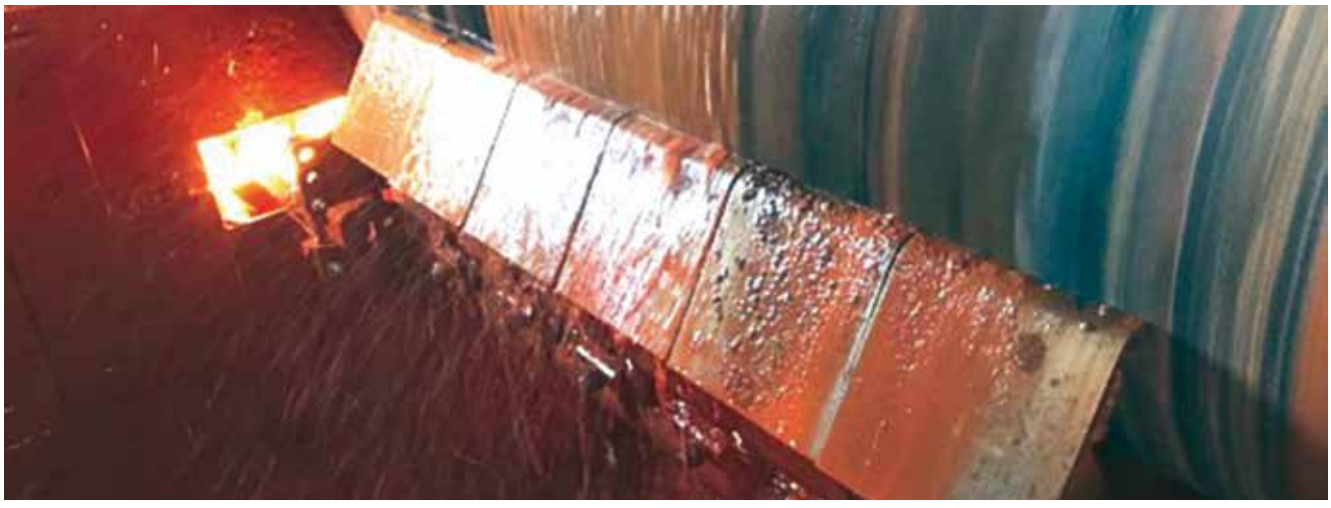
INNOVATIVE HOSCH SCRAPER TECHNOLOGY, ALSO ON THE DISCHARGE DRUM.
Belt conveyors that transport sticky, highly adhesive bulk materials pose special challenges for belt cleaning. Many bulk materials have the property of adhering to the conveyor belt in considerable layer thicknesses. Under such conditions, an additional pre-scraper should be used for the best possible cleaning result of the main scraper. It is also recommended to use a **HOSCH** pre-scraper in case of extreme belt speeds and the resulting high carryback volume.

The **HOSCH** pre-scrapers have been developed with the usual technical expertise and cover every possible application with an extensive product range.

In contrast to other suppliers of pre-scrapers, the **HOSCH** HD0x-Series offers a unique, complete evasive mechanism and a range of different wear parts depending on the bulk material.

YOUR ADVANTAGES

- be assured of continuous, long-lasting and high cleaning performance
- increase your plant availability through reduced installation times and almost maintenance-free operation
- benefit from the precise coordination of the pre-scraper to the overall **HOSCH** concept
- take advantage of various pre-scrapers that can be customised to fit your equipment



PRE-SCRAPERS
HD-PU-S-SERIES

With the development of the HD-PU-S-Series, **HOSCH** has combined the advantages of a polyurethane pre-scraper with those of a durable main scraper.

The head drum scraper is installed between the 3 and 4 o'clock position. The simple but extremely effective design combines the polyurethane blocks with carbide scraper edges, resulting in exceptionally long service lives.

Another notable feature compared to conventional PU pre-scrapers on the market is the special external mounting. In addition to the PU-based flexibility, this enables a planned and defined evasive movement. Compared to conventional PU pre-scrapers, this results in additional operational reliability.

With the HD-PU-S-Series, **HOSCH** has developed a scraper that increases productivity through long service life and extended maintenance intervals.

A scraper of the HD-PU-S-Series offers you:

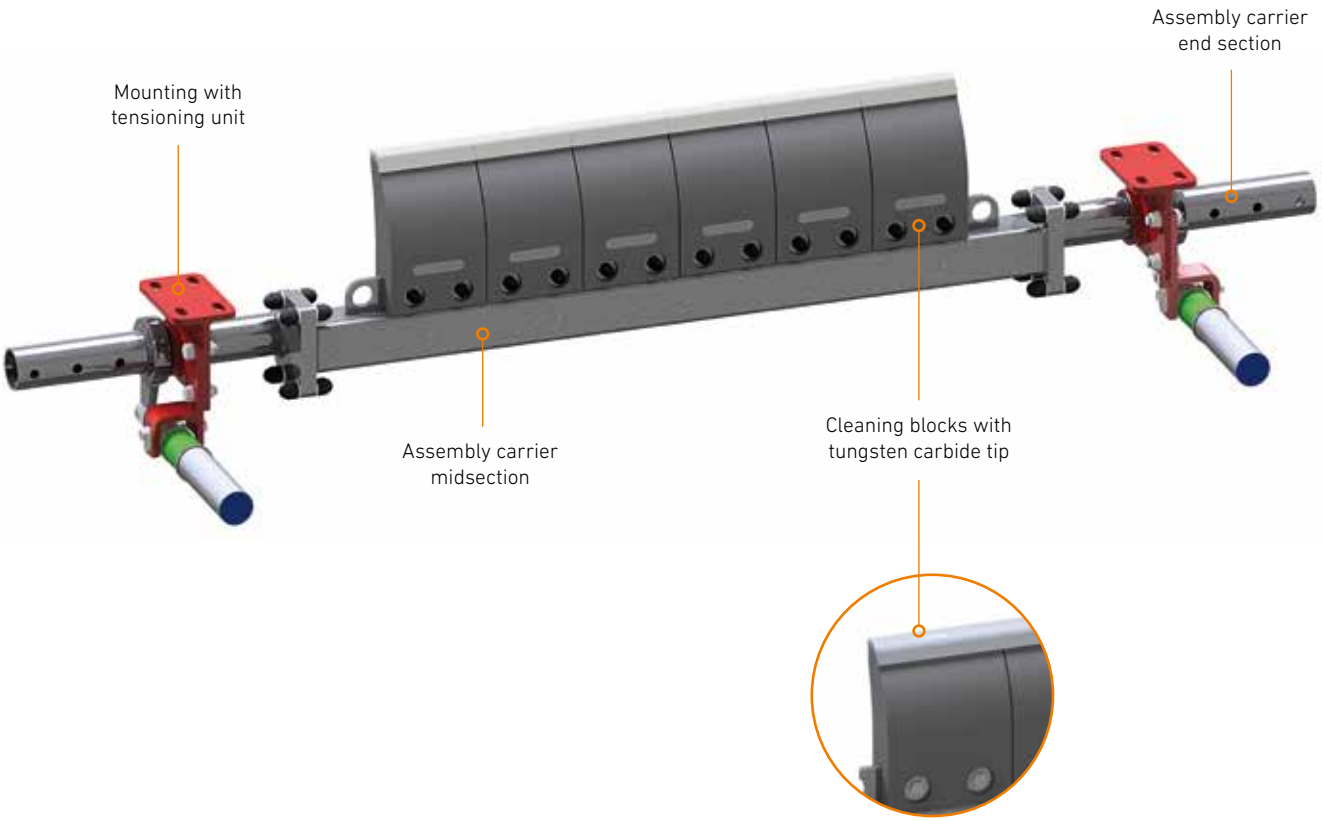
- simple and self-explanatory handling
- safe evasion
- longer lifetime due to high-quality carbide
- fewer wear parts
- quick and easy maintenance

Get to know the HD-PU-S-Series with its technical data, special features and optional accessories.

TECHNICAL DATA

Data/Type	HD-PU-S1	HD-PU-S2	HD-PU-S3
Belt width	500 – 1,600 mm	1,000 – 1,600 mm	1,800 – 2,400 mm
Belt speed	≤ 3.5 m/s	≤ 4.5 m/s	≤ 7.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices. Recommended hardness > 60 Shore-A		
Reverse operation	Yes		
Runback	Yes		
Installation position	On the drum between the 3 and 4 o'clock position		
Cleaning blocks	Cleaning blocks made of polyurethane (PU) with carbide scraper edges		
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)		

HD-PU-S-SERIES
TYPE HD-PU-S1 - S3



SPECIAL FEATURES

- exceptionally long service life due to high-quality carbide scraper edges
- two-stage spring-damper system to ensure safe evasion
- special dampers with a high spring rate calm the vibrations that occur during the swerving movement
- user-friendly and compact design
- simple handling during installation and maintenance
- integrated offset profiles serve to improve the evasive movement (lever arm)

OPTIONS

OPTIONAL INSTALLATION AID

The installation aid makes it easier to pull out the scraper from the side for maintenance or testing, eliminating the need to step into the chute.

CHEMICALLY RESISTANT (CR) VERSION

The CR version of **HOSCH** scrapers is used in areas that contain chemically corrosive components in the conveyed material due to the process. The use of special materials significantly improves the life cycle and performance of the scraper.

CR

CLEANING BLOCKS WITH REINFORCED BLADES

For particularly abrasive materials or extreme conditions (e.g. in tunnel construction), **HOSCH** offers the possibility of upgrading the blades with additional tungesten carbide. This ensures the usual longevity of the wear components and thus an extension of the maintenance intervals.

HD-PU-SX-R VERSION

The retractable **HOSCH** scraper has been specifically designed to maintain the equipment without long downtimes outside the chute. This allows a new dimension of maintenance speed with minimal effort (for further information, see scraper accessories).

HD-PU-SX-R

HOSCH IRIS SENSOR TECHNOLOGY

In addition to the pure functionality of the scraper, the contact with the belt offers the possibility, by means of additionally attached sensors, to gather data on the condition of the belt and the progress of wear (see **HOSCH**iris).

HOSCH iris


HOSCH

PRE-SCRAPERS
HD-PU-L-SERIES

With the HD-PU-L scraper series, **HOSCH** supplements its pre-scraper range with a low-cost, classic polyurethane (PU) variant for light to medium-duty applications.

It was designed to relieve the main scrapers and is mainly used for cohesive materials.

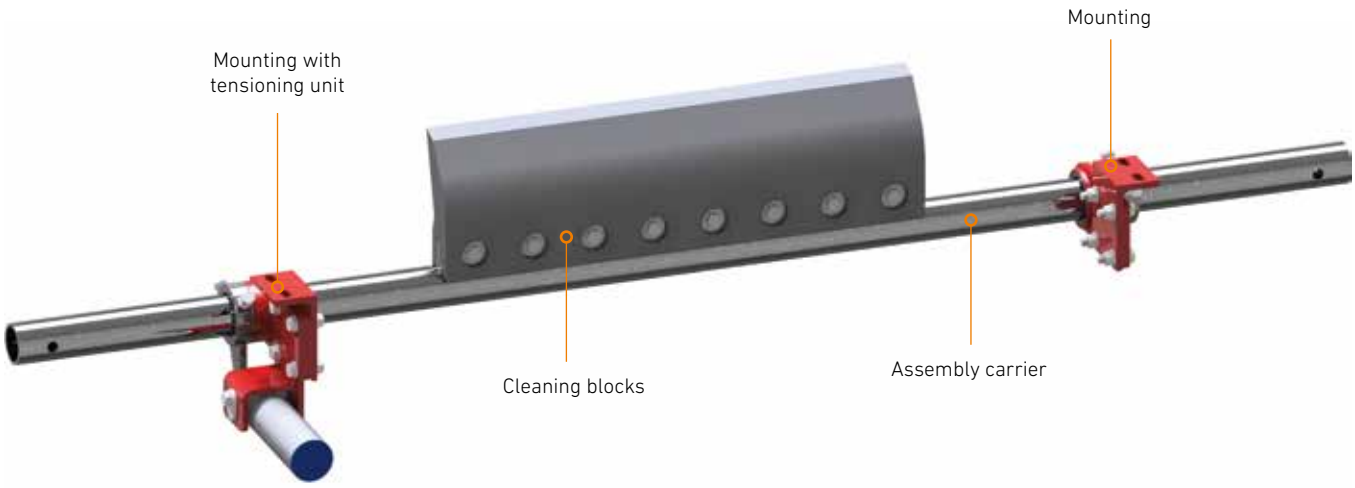
Flexible mountings and easy maintenance procedures make the HD-PU-L-Series particularly suitable for tight plant situations.

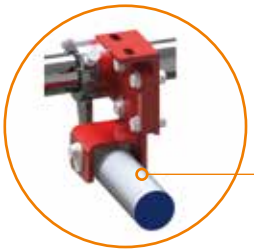
An integrated indicator on the mounting shows the wear progress of the PU blocks and thus supports you in maintenance planning.

TECHNICAL DATA

Data/Type	HD-PU-L	HD-PU-L2
Belt width	600 – 2,400 mm	1,600 – 3,200 mm
Belt speed	≤ 5.5 m/s; with mechanical belt splices ≤ 2.5 m/s	≤ 7.5 m/s; with mechanical belt splices ≤ 2.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised and mechanical splices. Recommended hardness > 60 Shore-A	
Reverse operation	Yes	
Runback	Yes	
Installation position	On the drum between the 3 and 4 o'clock position	
Cleaning blocks	Cleaning blocks made of polyurethane (PU)	
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)	

HD-PU-L-SERIES
TYPE HD-PU-L/L2





SPECIAL FEATURES

- position holder - for easy maintenance and adjustment of the necessary preload
- one-sided tensioning device for smaller belt widths
- double-sided tensioning device for higher dynamic forces or wide conveyor belts
- fixed stop when the wear limit is reached leads to more plant safety
- safe evasion
- wear indicator to support maintenance planning

OPTIONS

OPTIONAL INSTALLATION AID

The installation aid makes it easier to pull out the scraper from the side for maintenance or testing, eliminating the need to step into the chute.

CHEMICALLY RESISTANT (CR) VERSION

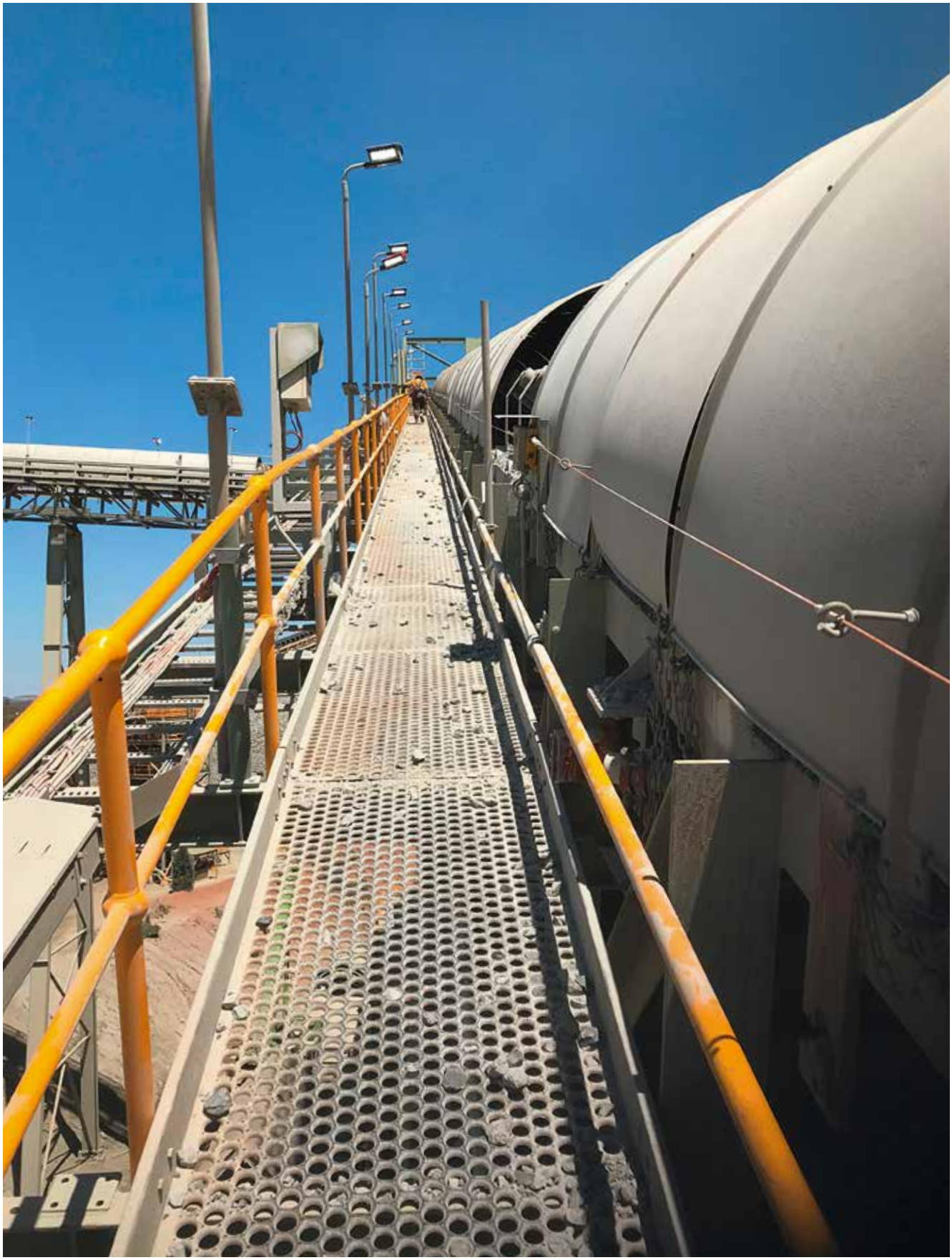
The CR version of **HOSCH** scrapers is used in areas that contain chemically corrosive components in the conveyed material due to the process. The use of special materials significantly improves the life cycle and performance of the scraper.

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

HOSCH IRIS SENSOR TECHNOLOGY

In addition to the pure functionality of the scraper, the contact with the belt offers the possibility, by means of additionally attached sensors, to gather data on the condition of the belt and the progress of wear (see **HOSCH**iris).



PRE-SCRAPERS
HD0x-SERIES

With the HD0x-Series, **HOSCH** has transferred the high standards from the main scraper segment to the pre-scraper. The goal was nothing less than to set new standards in the field of pre-scraper technology.

Key points in the development were:

- extremely long service life with low maintenance requirements
- individual components matched to the bulk material
- a planned and defined evasive function
- a tungsten carbide-tipped pre-scraper in a solid design with the highest degree of conveyor belt safety

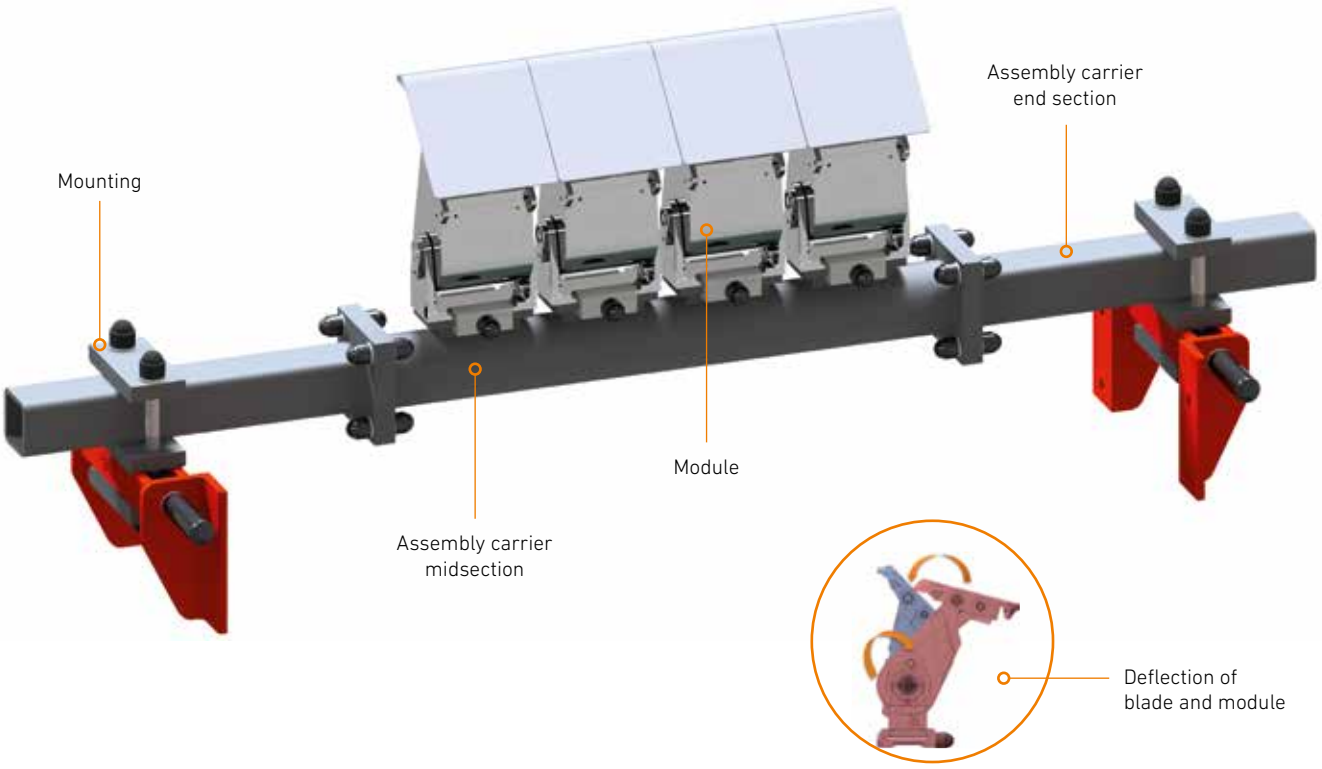
HOSCH has succeeded in this!

Our HD0x-Series, with its rugged design and unique modules, is ready for the toughest applications.

TECHNICAL DATA

Data/Type	HD01®	HD02®	HD03®	HD04®
Belt width	500 – 1,000 mm	1,000 – 1,600 mm	1,800 – 2,400 mm	1,800 – 2,400 mm
Belt speed	≤ 2.5 m/s	≤ 4.5 m/s	≤ 4.5 m/s	≤ 7.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices.			
Reverse operation	Yes			
Runback	Yes			
Installation position	On the drum in the 3 o'clock position			
Cleaning modules	Spring-loaded individual modules with individual wear tracking and evasive function. Separately replaceable, carbide-tipped modules.			
Design	Modular design, can be flexibly adapted to the installation situation (see optional accessories)			

HD0x-SERIES
TYPE HD01® – HD04®



SPECIAL FEATURES

- double deflection function of blades and modules (deflection, see detailed view)
- low maintenance due to automatic re-adjustment of contact pressure
- conveyor belt safety due to an internal stop when the wear limit is reached
- the durable modules, as well as the carbide-tipped blades, can be replaced separately
- defined preload within the module
- exceptionally long lifetime due to carbide scraper edges
- mountings with a horizontal adjustment option
- time-saving maintenance due to simple fastening of modules and blades

OPTIONS

VERSION WITH RADIAL OFFSETS

If necessary, the scrapers type HD01®/02®/03® can be mounted with radial offset profiles at the 4 o'clock position. This allows them to escape the direct material flow, which significantly extends the service life of the scrapers.

The radial offset profiles are designed so no additional changes to the design of the conveyor belt system are required.

VERSION WITH OFFSETS

With the help of offset profiles, obstacles of the belt construction can be bypassed, so nothing stands in the way of optimal installation.

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

OPTIONAL HEAVY DUTY VERSION

The robust basic configuration of the HD0x-Series offers two additional variants with the HD01®S and HD04®S scrapers. These find their application in the most difficult conditions, such as extreme belt speeds and conveyed material conditions.

OPTIONAL SKIRTS

To better maintain flexibility and delay wear of the modules, they can be equipped with skirts.

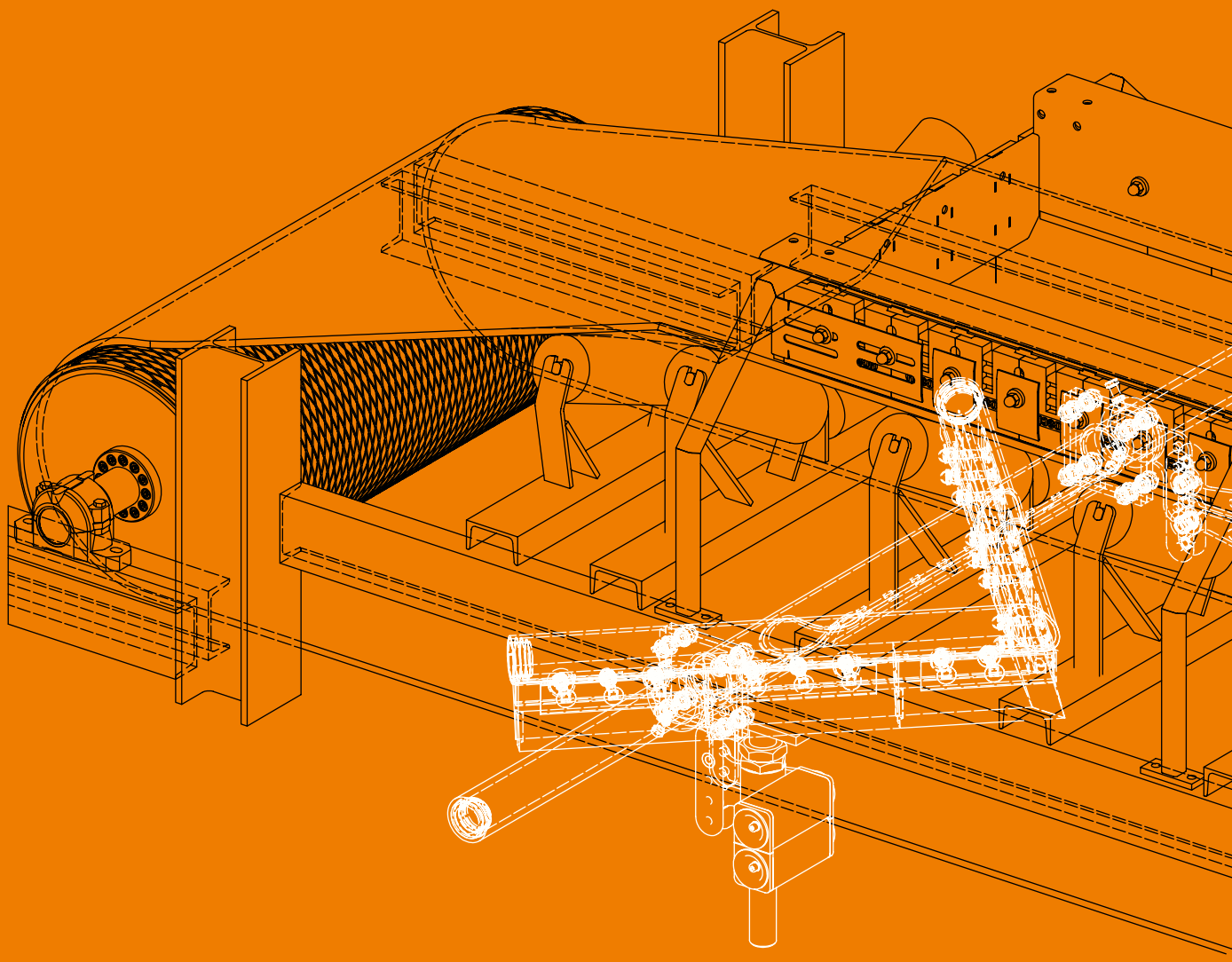
VERSION WITH HEATING SYSTEM

With the option of a special heating system, scrapers type HD02® and HD03® can also be used at low operating temperatures (for further information, see scraper accessories).

DESIGN WITH HIGHLY REINFORCED BLADES

Due to its exposed position, the pre-scraper is subjected to special loads, such as conveying highly abrasive materials.

To extend the service life in such difficult conditions (e.g. in tunnel construction), **HOSCH** has expanded its range to include three highly reinforced plate types.



PLOUGH SCRAPERS

Plough scrapers clean the conveyor belt's return side from spillage or falling objects. Therefore the plough scraper protects all drums from debris and foreign objects to avoid slippage, premature drum wear, mistracking and belt and drum damage.

Dust, water, or ice on the inner belt can lead to extreme slippage, resulting in production disruptions or even system failures. In these particular applications, the variety of **HOSCH** products also offers the possibility of effective ultra-fine cleaning of the inner belt.

YOUR ADVANTAGES

- prevent contamination between pulleys and conveyor belt
- protect your drum linings
- minimize conveyor energy consumption by preventing slippage.
- prevent material-related mistracking and belt damage.
- for higher requirements, use the B6I-C for fine cleaning of the inner belt.
- take advantage of the long-lasting cleaning performance due to automatic wear adjustment

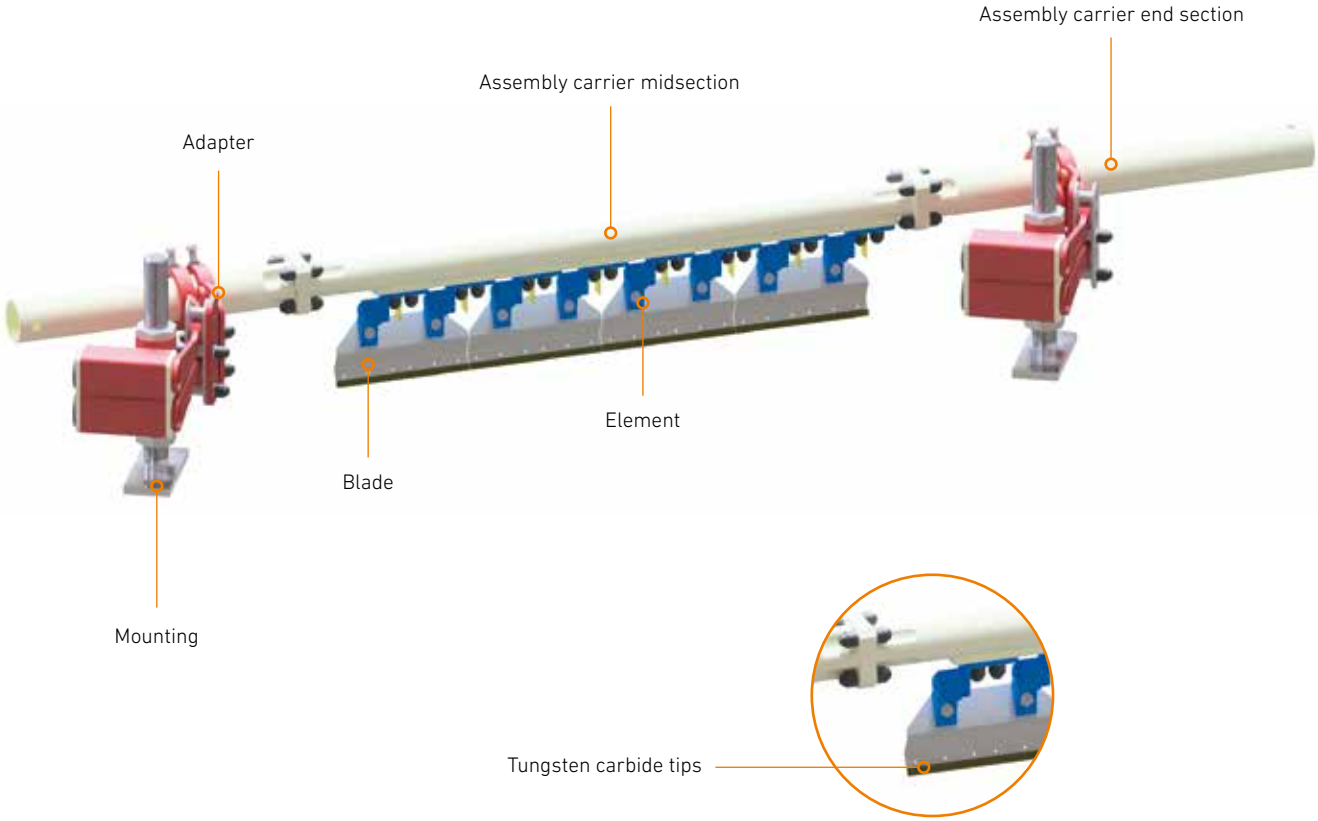
PLOUGH SCRAPER
TYPE B6I-C

Unlike conventional plough scrapers, which serve more as protection for the conveyor belt drums, the B6I-C is a classic belt cleaner, especially designed for the running side of the conveyor belt. A common plough scraper has cleaning blocks made of plastic, as the actual cleaning is not the main criterion. The B6I-C is different. Its tungsten carbide scraper edges are ideally suited for exceptional cases, such as ice formation or heavy contamination of the inner belt.

TECHNICAL DATA

Data/Type	Type B6I-C
Belt width	650 – 2,400 mm
Belt speed	≤ 3.0 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices and mechanical splices after consultation with **HOSCH**.
Reverse operation	No
Runback	Yes (in a special version)
Installation position	In the inner belt area
Cleaning blades	Spring-loaded, carbide-tipped individual blades with individual evasive function
Design	Modular design, flexibly adaptable to the installation situation (see optional accessories)

PLOUGH SCRAPER
TYPE B6I-C



SPECIAL FEATURES

- different cleaning blades ensure variable application possibilities
- long service life due to tungsten carbide scraper edges
- cleaning performance in the inner belt comparable with a **HOSCH** main scraper
- due to the diagonal position, the material is discharged to one side (can also be used on the top belt, as a separator)
- automatic self-adjustment in the process of blade wear
- small installation space, compact design
- after consultation with **HOSCH**, also available in special sizes and individual designs

OPTIONS

Z AND V BLADE

The blades play a special role due to their different shapes. While the so-called Z blade works on the paint scraper principle and thus stands for high cleaning efficiency, the V blade has a 90° arrangement and is used for reversing belts and mechanical splices.

LONG AND SHORT ELEMENT

The elements connect the system carrier and the blades. They absorb dynamic forces and thus ensure permanent belt contact of the scraper. A long and a short variant of the elements creates additional possibilities for adaptation to the plant conditions.

VERSION WITH OFFSETS

With the help of offset profiles, obstacles in the belt construction can be bypassed, so nothing stands in the way of optimal installation.

VERSION FOR MECHANICAL BELT SPLICES

Scrapers type B6I-C in a selected configuration can run reliably even with mechanical belt splices or poor conveyor belt surfaces (please consult **HOSCH** for this).

PLOUGH SCRAPER
TYPE B9SI

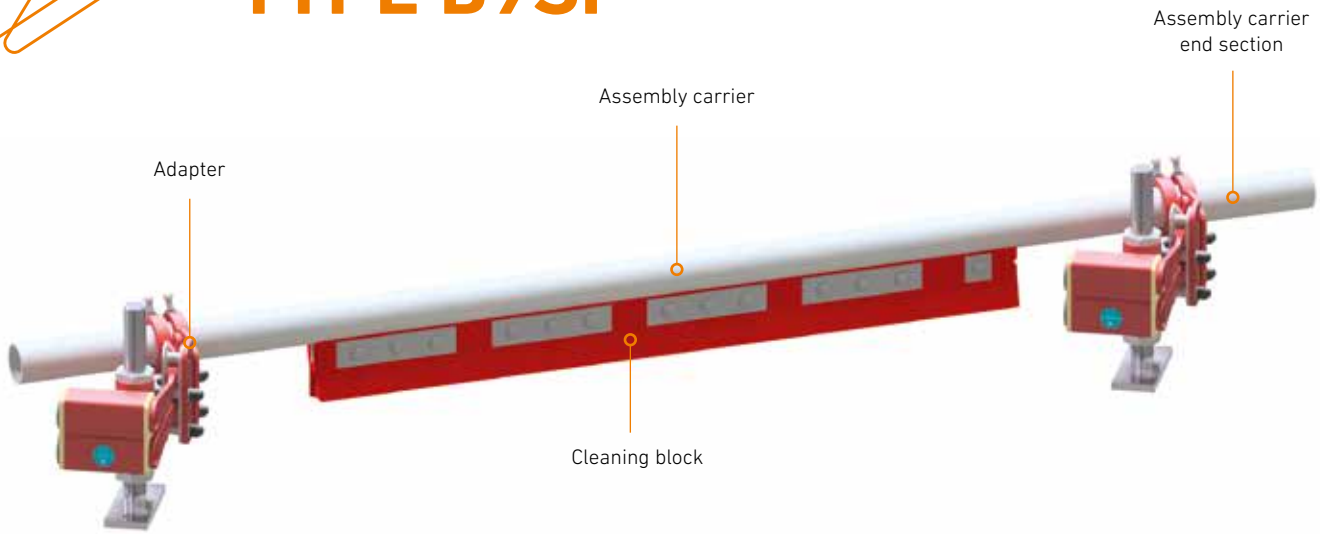
The B9SI is a robust, semi-floating belt plough with PU blocks.

It can be used on reversing or bidirectional conveyor belts. The diagonal plough design discharges the material on one side of the conveyor. The plough design is semi-floating due to the parallel elasto-mounts. These unique mounts absorb the dynamic forces of the belt and ensure continuous adjustment as wear progresses – ensuring long-lasting, uninterrupted belt contact of the diagonal scraper.

TECHNICAL DATA

Data/Type	Type B9SI
Belt width	800 – 3,200 mm
Belt speed	≤ 4.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices
Reverse operation	Yes
Runback	Yes
Installation position	In the inner belt area
Cleaning blocks	Cleaning blocks made of polyurethane (PU)
Design	Modular design, flexibly adaptable to the installation situation (see optional accessories)

PLOUGH SCRAPER
TYPE B9SI



SPECIAL FEATURES

- very stable and robust construction
- extended maintenance intervals due to increased PU material thickness
- quick change of the cleaning blocks
- steady belt contact due to automatic wear tracking
- reversible

OPTIONS

USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

SPLIT ASSEMBLY CARRIER

In addition to the standard variant of a one-piece assembly carrier, there is also the option of a split design with an assembly carrier midsection and end sections (type B9SI-C), which, among other things, facilitates transport for larger variants and enables the flexible use of offset profiles.

PLOUGH SCRAPER
V-SERIES

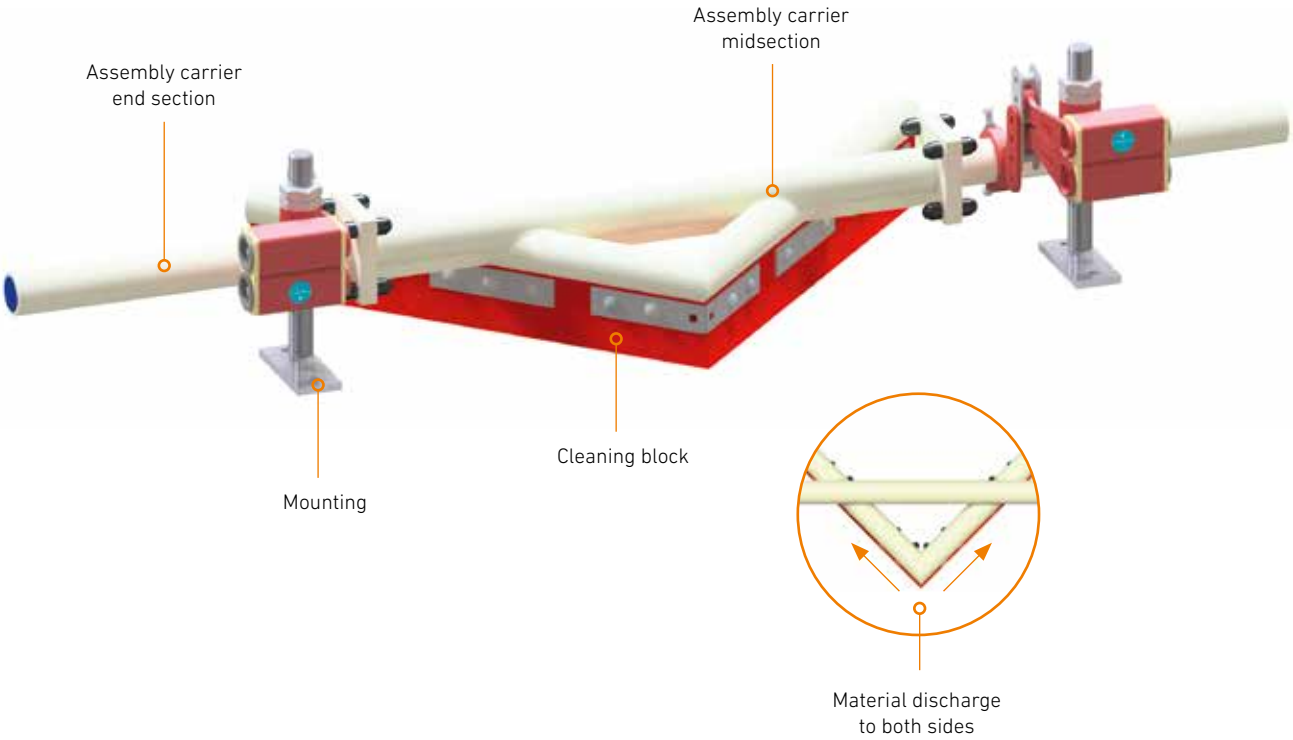
The **HOSCH** V-Series plow scrapers are designed for cleaning the running side of non-reversible conveyor belts.

Due to their V-shape, they can optimally discharge the material conveyed onto the inner belt to both sides. Attached and firmly bolted cleaning blocks greatly simplify installation and maintenance. The mounting comes from the proven modular system of **HOSCH** scrapers and therefore offers the well-known advantages. Vibrations are absorbed and continuous belt contact is ensured by automatic adjustment.

TECHNICAL DATA

Data/Type	VC1	VC2	V-D2
Belt width	400 – 1,000 mm	1,000 – 2,000 mm	1,000 – 2,400mm
Belt speed	≤ 3.0 m/s	≤ 3.0 m/s	≤ 4.5 m/s
Conveyor belt	For smooth fabric and steel cord belts with vulcanised splices		
Reverse operation	No		
Runback	After inspection by **HOSCH**		
Installation position	In the inner belt area		
Cleaning blocks	Cleaning blocks made of polyurethane (PU)		
Design	Modular design, flexibly adaptable to the installation situation (see optional accessories)		

V-SERIES
TYPE VC1/VC2/V-D2



SPECIAL FEATURES

- highly abrasion-resistant PU materials
- self-adjusting due to elastic mounting
- easy assembly and maintenance
- material discharge to both sides
- robust construction for heavy belt systems with belt widths of 1,000 - 2,400 mm
- solid round tube construction of the V-D2 prevents material build-up on the assembly carrier
- separate midsection and end sections reduce transportation and storage requirements

OPTIONS

VERSION WITH COVER HOOD

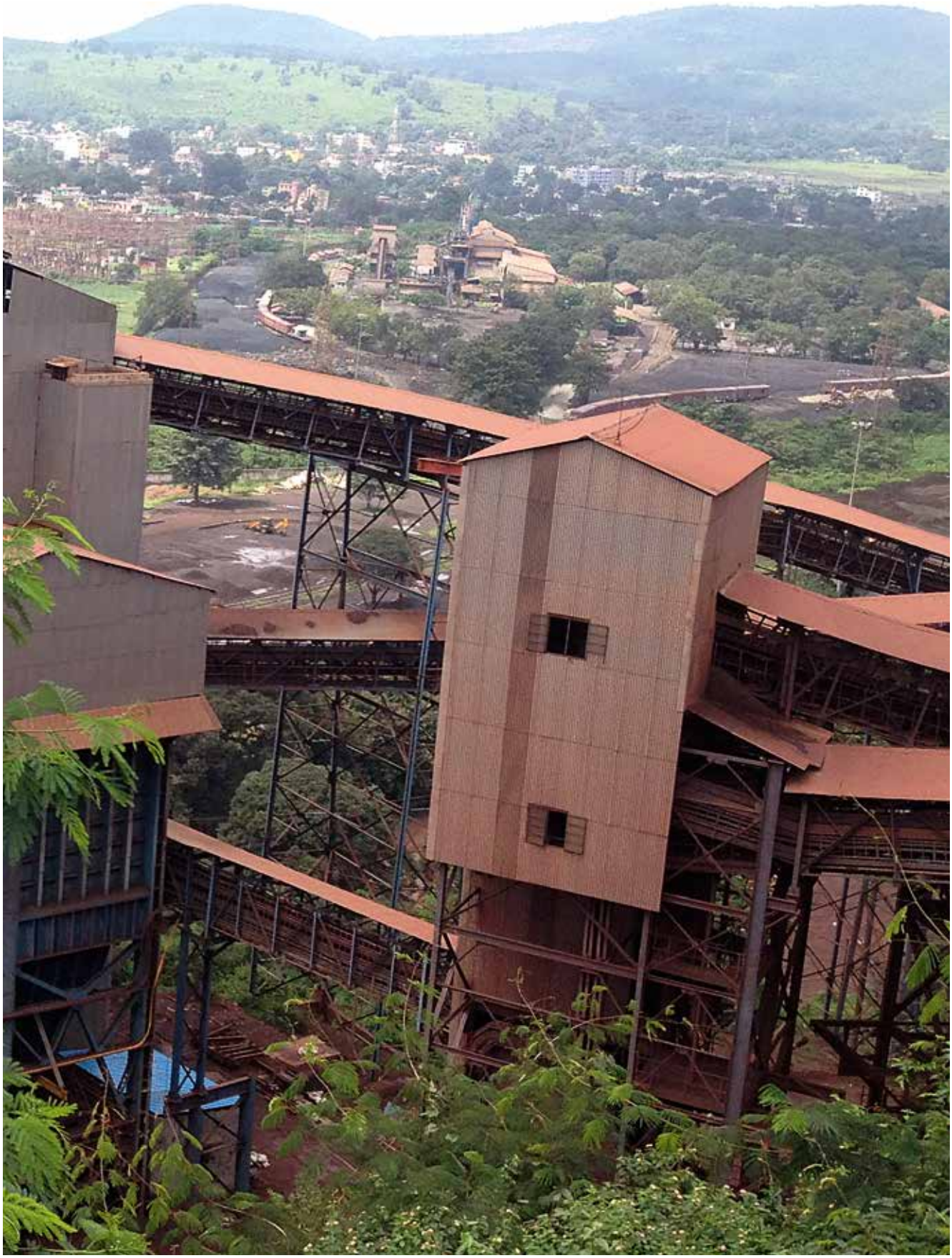
To protect against skipping or excessive amounts of material, **HOSCH** offers the option of a cover hood for the plough scrapers. These can be designed according to customer specifications.

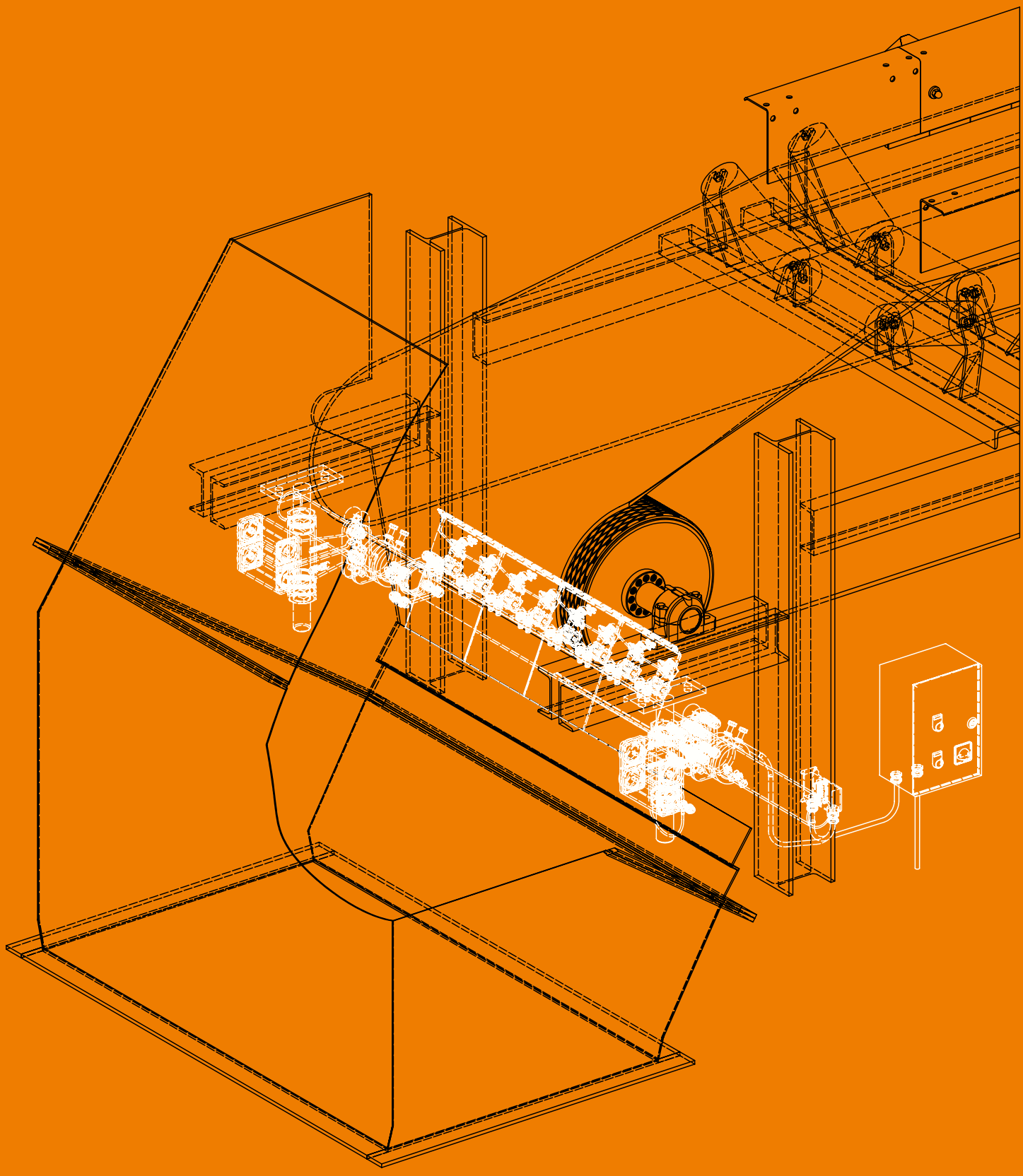
USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

In hazardous areas, each scraper is equipped with an ATEX version to dissipate electrostatic charges (for further information, see scraper accessories).

VERSION WITH OFFSETS

With the help of offset profiles, obstacles in the belt construction can be bypassed, so nothing stands in the way of optimal installation.





SCRAPER ACCESSORIES

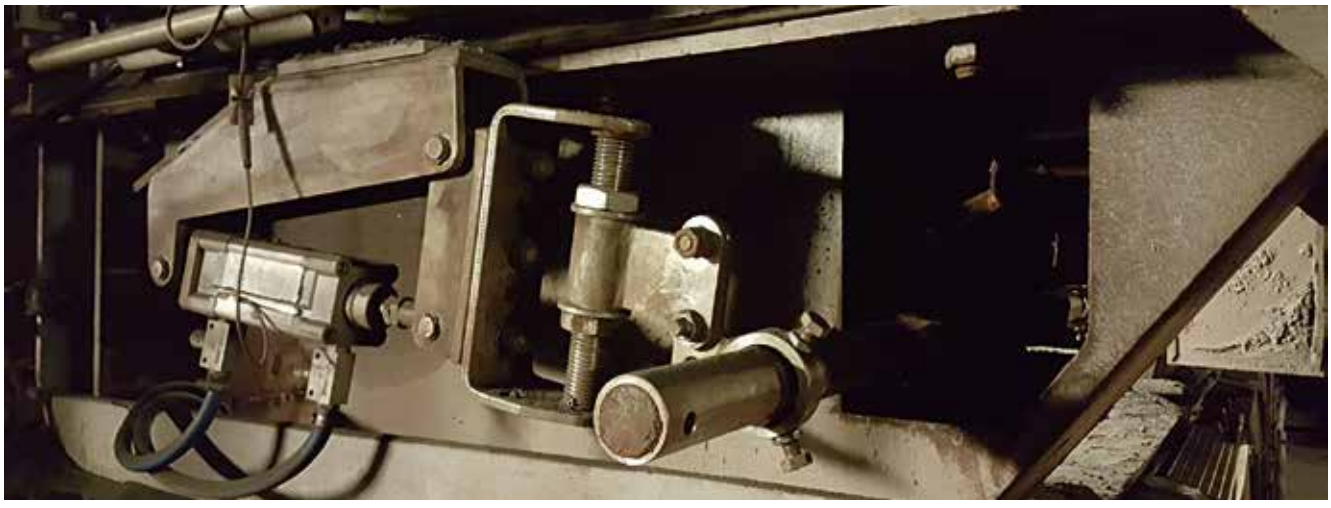
The flexible **HOSCH** modular system can be configured even more individually by means of a wide range of accessories.

Customer-specific needs, special requirements and external influences acting on the scraper require a high degree of specialization.

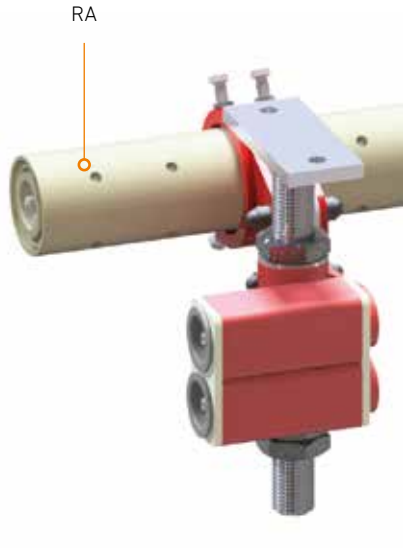
A detailed solution tailored to your plant and needs can be worked out in a discussion with one of our experts.

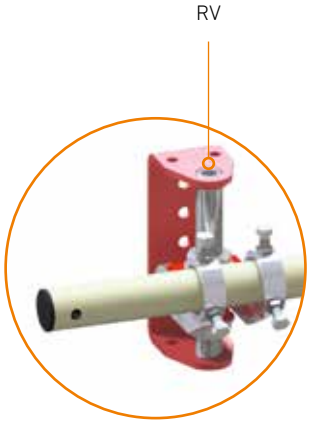
YOUR ADVANTAGES

- if your conveyor belt occasionally runs backwards or works in reverse operation, **HOSCH** has the right accessories for you
- maintain the operation of the scrapers even in cold temperatures by means of a heating system
- optimize your maintenance times and meet high safety standards
- reduce dust emissions
- prevent material hardening on the scrapers with water spray systems
- comply with legal requirements in potentially explosive atmospheres by grounding your scraper professionally



SCRAPER ACCESSORIES
RUNBACK DEVICE (RA/RV)

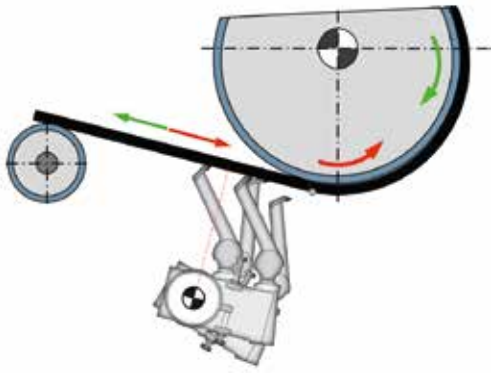


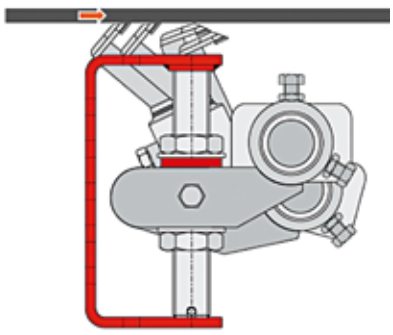


Due to the process, runback can occur, for example, with tripper cars, loaded or rising conveyor belt systems.

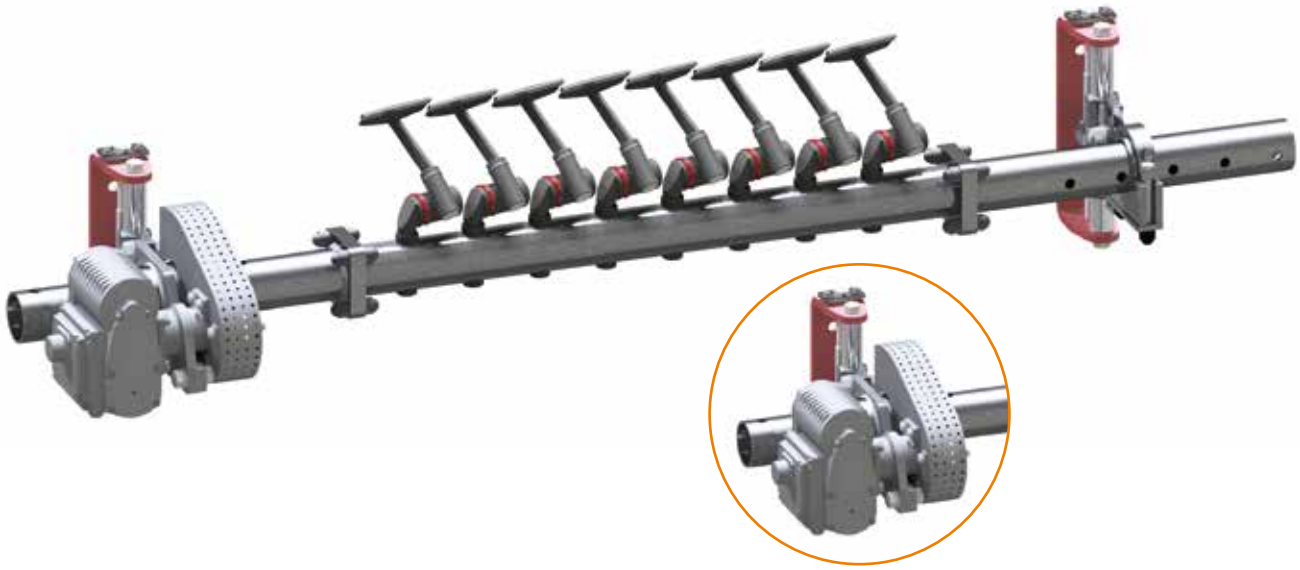
During belt runback, the scraper is loaded in the opposite direction to its intended operating direction and modules can bend or can damage the belt. This can be prevented by so-called runback devices (RA/RV).

The runback device automatically moves the scraper down and to the front. In this way, the modules are not clamped against the belt and the scraper is not tensioned against its normal operating direction. At the same time, the back of the scraper elements remains in light contact with the belt surface, which causes a return to the original working position of the scraper when the belt restarts.





SCRAPER ACCESSORIES
DISENGAGING DEVICE (ASV)



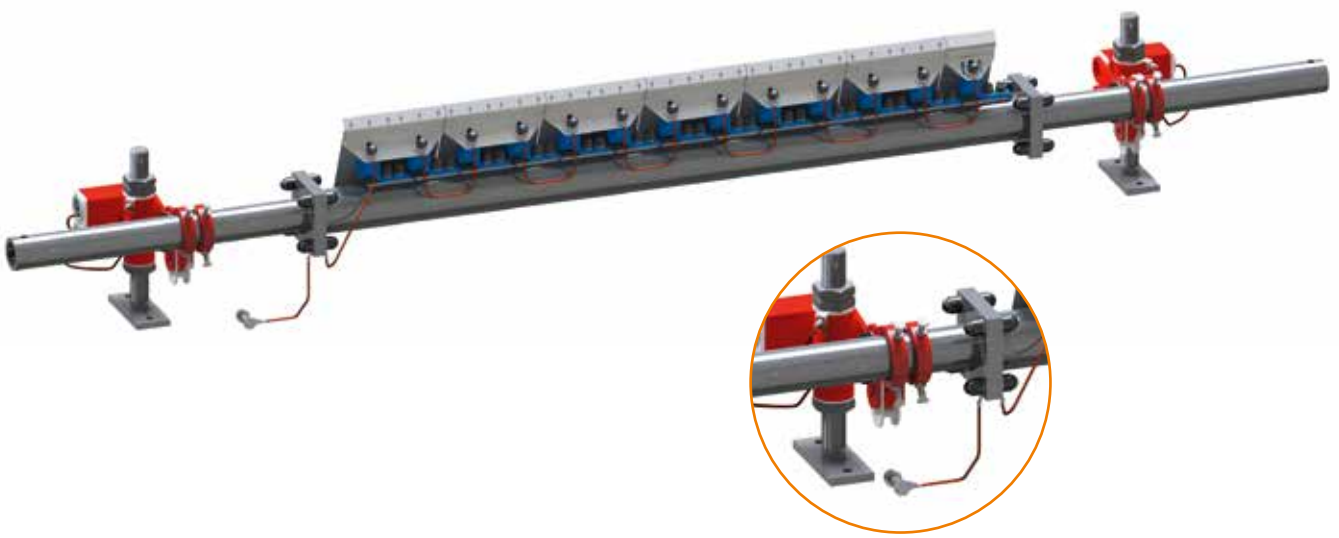
On reversible belt conveyors, scrapers are required on the drive side as well as on the return side due to the conveying directions to both sides.

Only the scraper of the currently active conveying direction should be in contact with the belt. This can be controlled by a **HOSCH** disengaging device (ASV). The ASV can be integrated electrically, pneumatically or hydraulically into the existing system control (e.g. PLC) and thus functions fully automatically. If integration into the conveyor control system is not desired, a hydraulic-autonomous system is also available as an alternative.

The ASV also facilitates the control and maintenance operations of the scrapers as well as the conveyor belt system.

	Type
Electrical	ASV-E, ASV-D-E
Pneumatical	ASV-P1-3
Hydraulical	ASV-H1-3, ASV-HV2,ASV-HV4

SCRAPER ACCESSORIES
ATEX

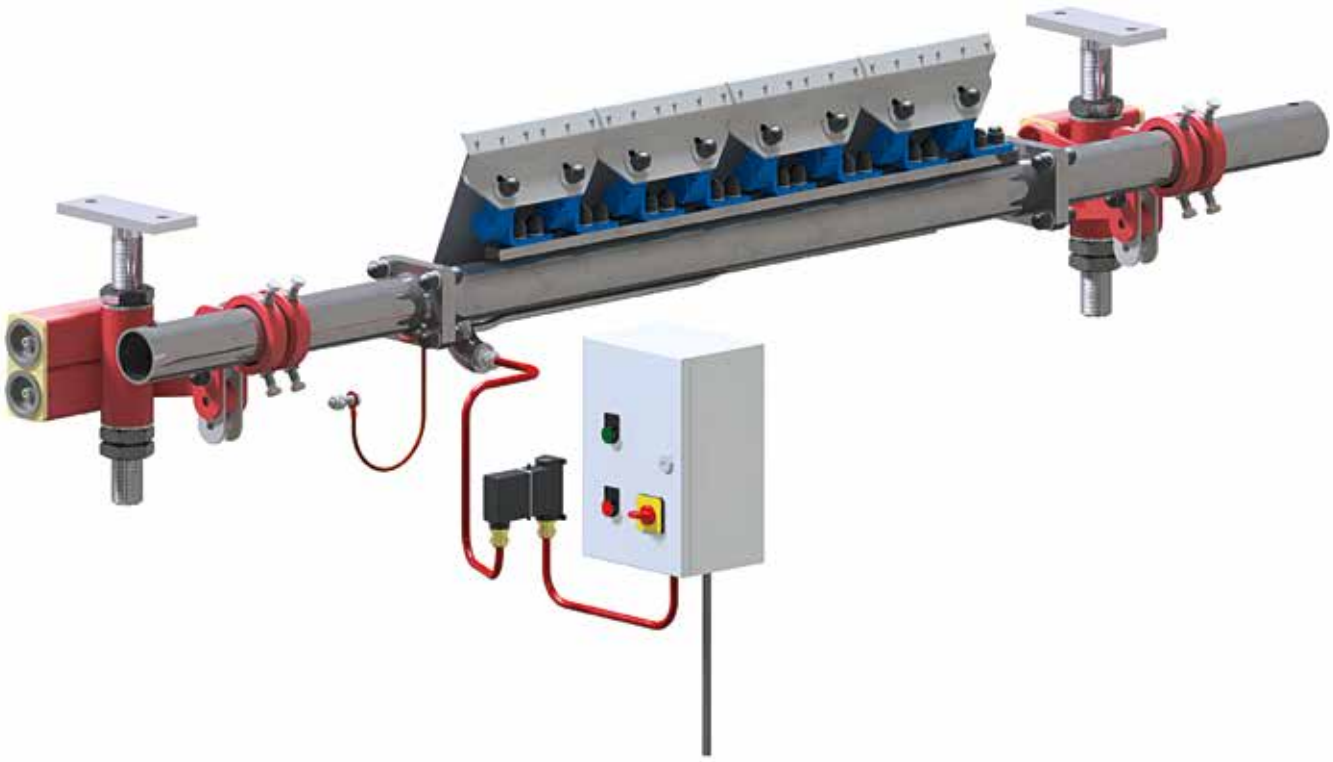


In hazardous areas such as power plants or underground operations, special design measures are required for the safe use of the scrapers in accordance with ATEX Directive 2014/34/EU.

To avoid ignition hazards due to sparking as a result of static charging, the scrapers must therefore be grounded and in some cases equipped with special materials. The charges caused by the relative movement of the belt over the scraper edges are dissipated by a cable bridge over the belt structure.

The “ATEX” accessory kit includes the required number of grounding cables, glands and the associated spare parts.

SCRAPER ACCESSORIES
HEATING SYSTEM



When used in a cold environment, the function of conveyor belt scrapers can be blocked by freezing, moist bulk material or ice formation. This danger is particularly prevalent during downtimes of a conveyor system. **HOSCH**, therefore, offers electrical heating systems for the scraper type B6-C, C2/3, HD02®/03® and D2/3.

With the electric heating system for **HOSCH** scrapers, the tube support of the respective scraper is heated by internal heating elements. The associated electrical control regulates the heating power fully automatically. Scraper and electrical control are connected via a cable with plugs included in the scope of delivery.

- the heating system is exclusively intended for use together with **HOSCH** scrapers type B6-C, C2, C3, HD02®/03® and D2/D3
- it is suitable for conveyor belts widths of 800 – 3,000 mm
- the maximum electrical connected load is 1600 watts
- the required supply voltage is 230 V – 50 Hz / AC
- the protection class is IP 65
- the heating system is not suitable for working areas subject to ATEX directives
- the heating system is self-regulating and suitable for ambient temperatures down to -40 °C

SCRAPER ACCESSORIES
PARALLEL ELASTO-MOUNT WITH ELECTRIC CONTROL (PEM-EC)

The **HOSCH** scraper mounting type PEM-EC is used as an alternative to the standard mounting of **HOSCH** main scrapers when:

- regulation of the scraper during operation becomes necessary
- disengaging the scraper during operation in case of malfunctions becomes necessary
- engaging or disengaging the scraper without entering the hazardous area is required
- precise digital and reproducible preload settings are desired

It is used in combination with **HOSCH** main scrapers type B6 and C up to a belt width of 2,000 mm.

SCRAPER ACCESSORIES
WATER SPRAYING SYSTEM

The **HOSCH** scrapers can optionally be equipped with a water spraying system, which on the one hand, reduces dust emissions, and on the other hand, supports the scrapers in the cleaning process.

The selection is based on the belt width and the scraper type, with no additional effort required for installation.

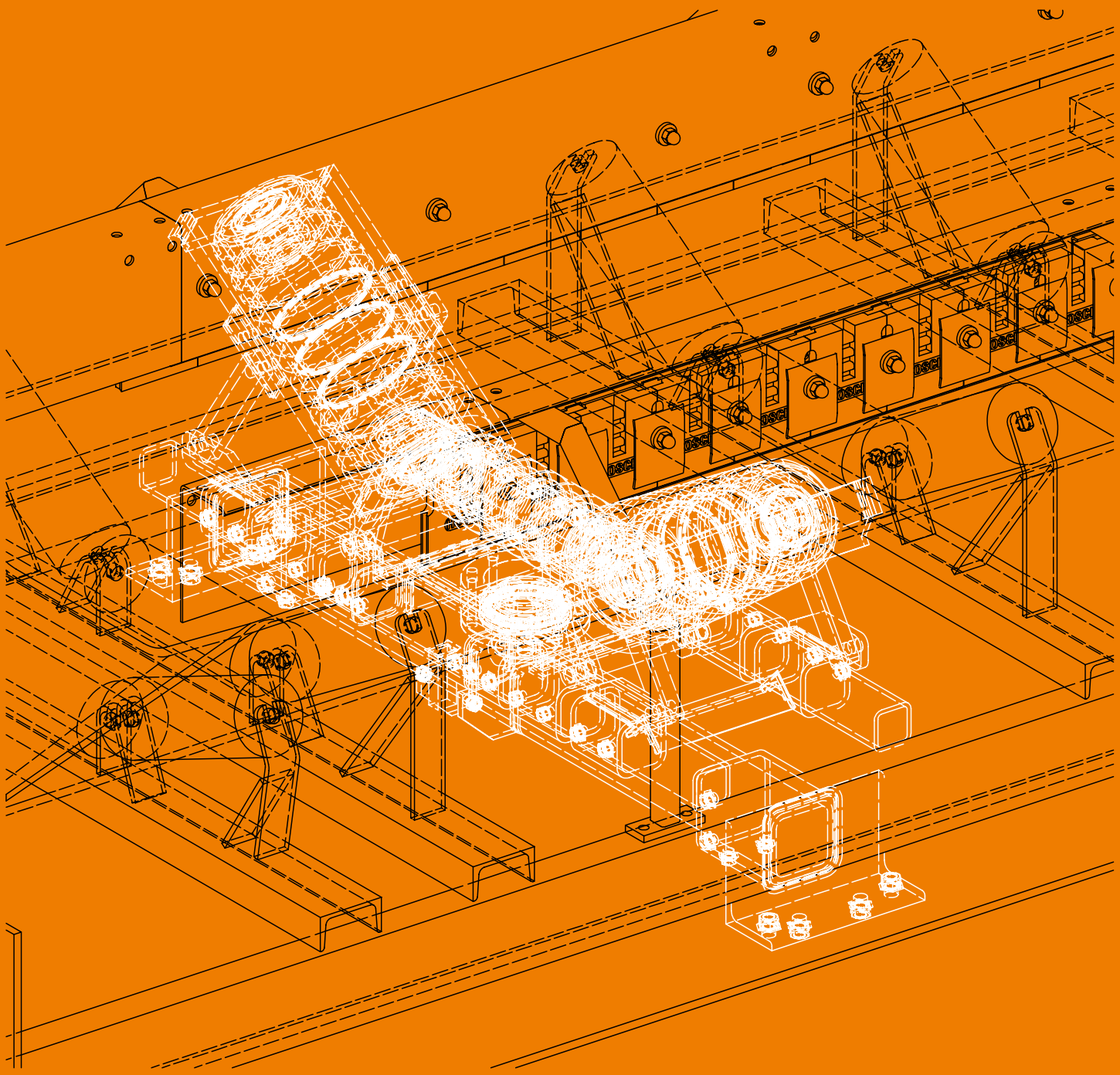
The water spraying system supports with

- the cleaning of the belt and scraper
  - the watering of the conveyed material creates a separating layer between the adhering material and belt, which makes it easier for the scraper to separate the layer to be cleaned
  - depending on the setting angle of the water spraying system, it is possible to protect the scraper from adhering material by continuous rinsing
- the dust reduction
  - environmental regulations often require the lowest possible dust emissions. The **HOSCH** water spraying system reduces the amount of dust within the transfer (chute) by binding it with the water mist

SCRAPER ACCESSORIES
RETRACTABLE (R)

Due to the ever-increasing work safety regulations on conveyor systems worldwide, it is becoming increasingly important for many customers to carry out maintenance outside the chute. This way, dangerous work at heights and scaffolding constructions inside the chute can be avoided. With the **HOSCH** retractable system, the customer can remove the scraper from the side of the transfer and thus ensure work safety.

Likewise, faster maintenance can be achieved due to the easier accessibility of the scraper.



TRACKER ROLLER SYSTEMS

In addition to belt cleaning, preventing belt mistracking is the greatest challenge for a trouble-free operation of a conveyor belt system.

Belt misalignment is caused by the deflection of the belt transverse to the conveying direction and leads to operational shutdowns as well as damage to the conveyor belt and other machine parts.

The combination of effective belt cleaning with professional use of belt tracking units guarantees continuous operational reliability.

For this purpose, **HOSCH** offers a wide range of tracker roller systems for belt widths of up to 2,400 mm and speeds of maximum 6 m/s, for both the top and return strand.

YOUR ADVANTAGES

- benefit from the numerous, individual application possibilities of the **HOSCH** tracker rollers
- select the roller lagging tailored to your needs
- the very robust construction and use of high quality components provide you with long-lasting functionality
- use in hazardous area is possible

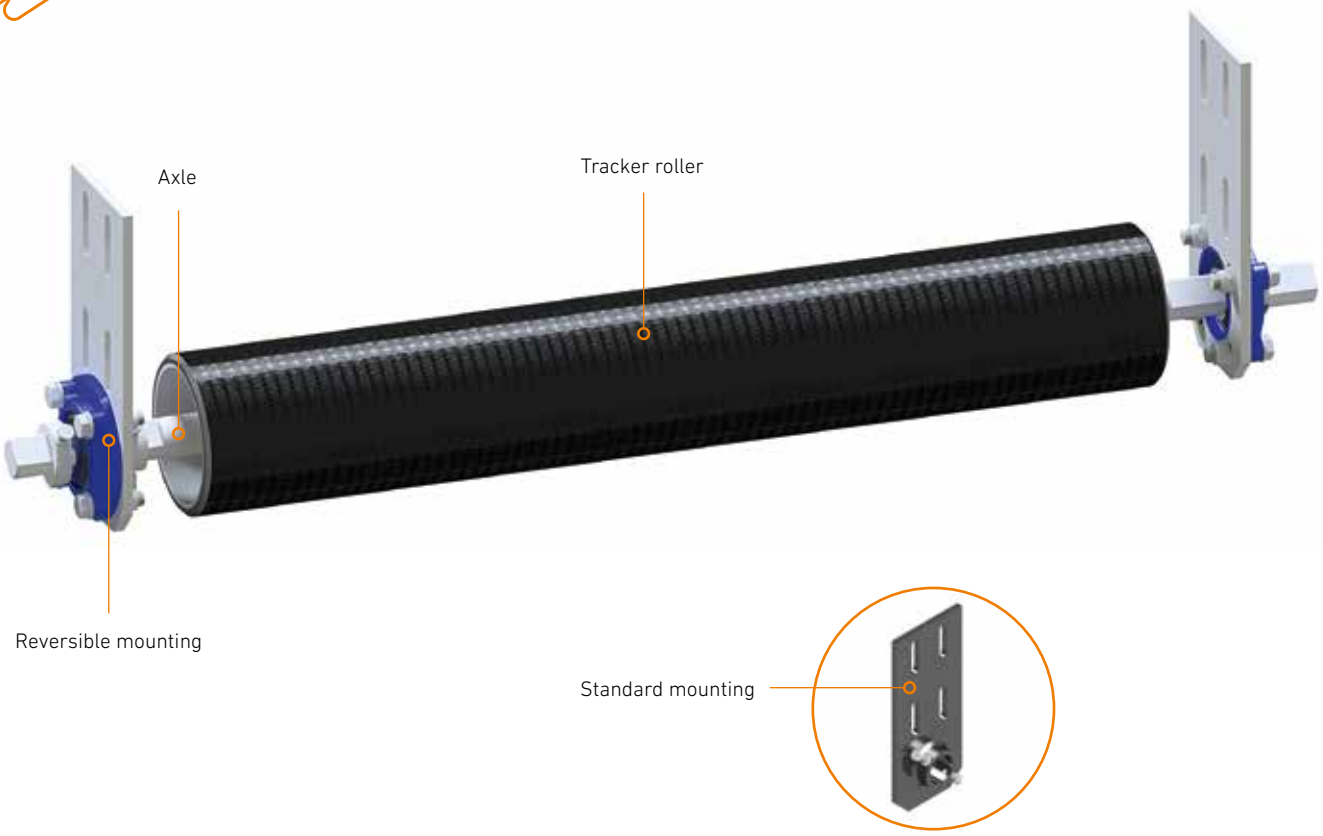
TRACKER ROLLER SYSTEMS
RX1-SERIES

The **HOSCH** tracker rollers type R(R)1/R(R)G1 are used in the lower belt area for the correction of belt misalignments for light to medium-heavy applications. The tracker roller for normal operation is the type R1/RG1 and for reverse operation the type RR1/RRG1. Installation is at right angle to the direction of belt travel and the tracker roller is pressed against the running conveyor belt with defined pretension. When the conveyor belt mis-tracks, its centre of gravity shifts on the tracker roller. This causes the roller to tilt downwards and in the direction of the conveyor belt. As a result, a frictional force is created which pushes the belt back to the centre of the belt frame. The tracker roller can be supplied with different axle lengths and roller lengths according to the belt and scaffold width. Different rubber friction lagging are available depending on requirements.

TECHNICAL DATA

Data/Type	R1	RR1	RG1	RRG1
Belt width	400 – 1,200 mm		1,200 – 2,000 mm	
Belt speed	≤ 3.5 m/s			
Space requirement	175 mm (free space under the belt)		210 mm (free space under the belt)	
Installation position	In the lower belt area			
Operating mode	Normal operation	Reverse operation	Normal operation	Reverse operation
Height adjustment	Stepless, max. 55 mm			
Mounting	Mounting plates with integrated height adjustment, therefore easy mounting and alignment			
Corrosion protection	Galvanized components, stainless steel screw connections			
ATEX approval	Yes, in special version			

TRACKER ROLLER SYSTEMS
RX1-SERIES



SPECIAL FEATURES

- maintenance free
- durable components
- operational safety
- low space requirement, compact and robust design
- proven application technology
- minimal assembly effort
- also suitable for reverse operation, easy to retrofit

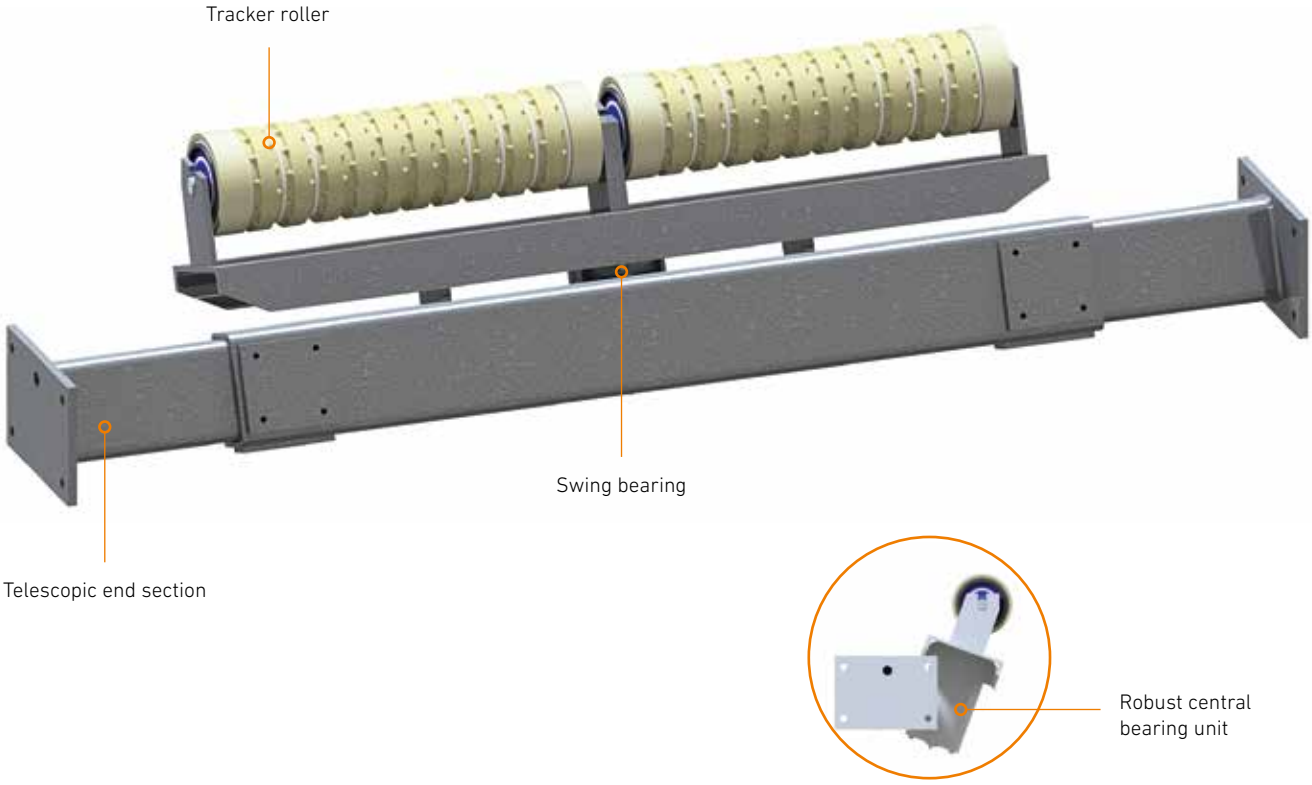
TRACKER ROLLER SYSTEMS
TYPE RG2

The **HOSCH** tracker roller type RG2 is also designed for the lower belt area. In heavy duty conditions, a particularly robust design of the tracker roller system is necessary to be able to transmit the required high steering forces. Unlike the conventional tracker rollers, a rigid central take-up with a separate, robust central bearing unit is used. For flexible adjustment to different scaffold widths, the crossbeam of the type RG2 is equipped with telescopic end sections. Depending on the belt width, the RG2 is equipped with two or three high-quality and low-wear rollers.

TECHNICAL DATA

Data/Type	RG2
Belt width	1,200 – 2,400 mm
Belt speed	≤ 6.0 m/s
Space requirement	175 mm / 210 mm (free space under the belt)
Installation position	20° - inclined in the running direction of the lower belt
Operating mode	Normal operation (one belt direction)
Height adjustment	Stepless, max. 50 mm
Mounting	Mounting plates with integrated height adjustment, therefore easy mounting and alignment
Corrosion protection	Galvanized components, stainless steel screw connections
ATEX approval	Yes, in special version

TRACKER ROLLER SYSTEMS
TYPE RG2



SPECIAL FEATURES

- external centre bearing block fitted with high-quality radial and axial roller bearings
- heavy-duty assembly carrier with telescopic end sections for flexible adaptation to the conveyor structure
- roller crossbeam suitable for various belt widths and fitted with a swing angle limiter
- rubberized segment rollers with rolling bearings for insertion into the roller crossbeam
- basically maintenance-free

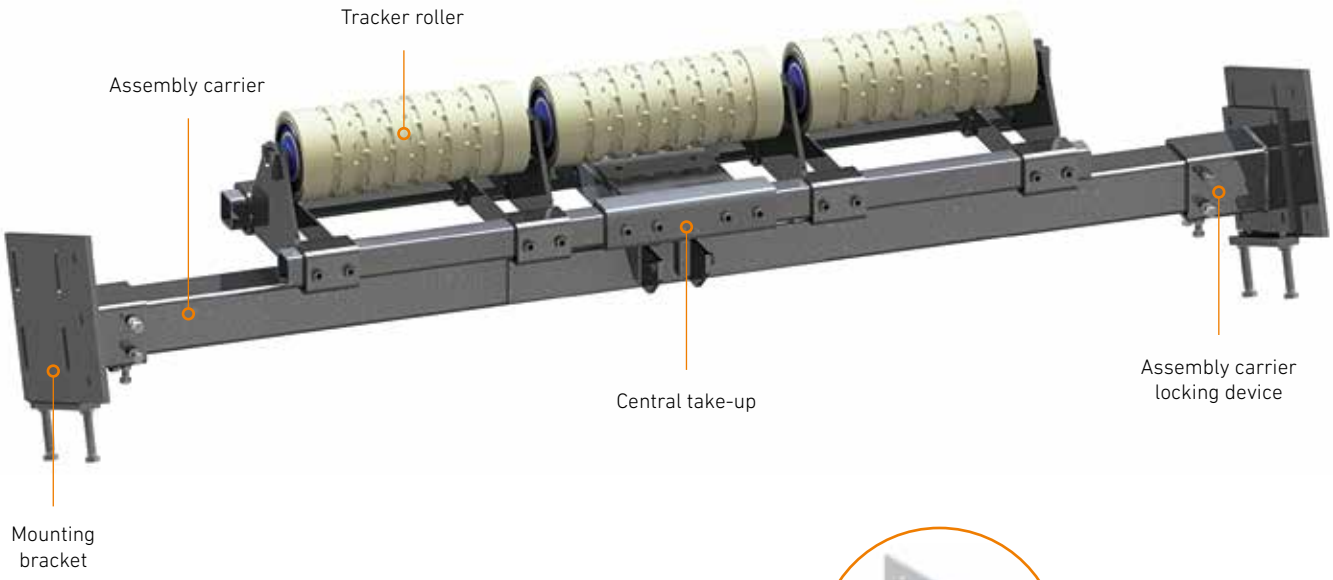
TRACKER ROLLER SYSTEMS
RC-SERIES

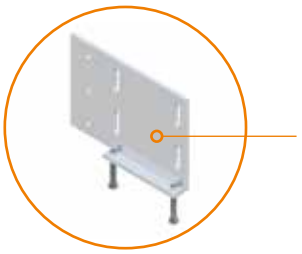
The **HOSCH** tracker roller system of the RC2/RC3-Series is specially designed for normal operation (one conveying direction). As for the tracker roller system type RG2, several rollers are used on a crossbeam. A special feature of the RC2/RC3-Series is its modular design. All components are pluggable and can be adapted to the existing framework on site. The stable straight running of the conveyor belt that can be achieved with the tracker roller system increases operational safety and system availability significantly. It also increases the service life of the belt and the system components.

TECHNICAL DATA

Data/Type	RC2	RC3
Belt width	1,200 – 1,600 mm	1,800 – 2,400 mm
Belt speed	≤ 6.0 m/s	
Space requirement	550 mm (free space under the belt)	570 mm (free space under the belt)
Installation position	20° - inclined in the running direction of the lower run	
Operating mode	Normal operation - one conveying direction	
Height adjustment	Stepless, max. 80 mm	
Mounting	Mounting plates with integrated height adjustment, therefore easy mounting and alignment	
Corrosion protection	Galvanized components, stainless steel screw connections	
ATEX approval	Yes, in special version	

TRACKER ROLLER SYSTEMS
RC-SERIES





SPECIAL FEATURES

- installation in the straight lower belt of the conveyor system
- special design for unrestricted normal operation
- suitable for heavy operating conditions
- easy adaptation to the existing scaffold structure
- highly wear-resistant, antistatic and flame-retardant plastic coverings of the rollers (ATEX suitability)
- robust, torsion-resistant steel construction for heavy operating conditions
- roller crossbeam with sealed roller bearings guarantees smooth and fast response to belt misalignment
- simple and fast assembly due to modular design
- high-quality, maintenance-free single rollers with special sealing and rolling bearing units

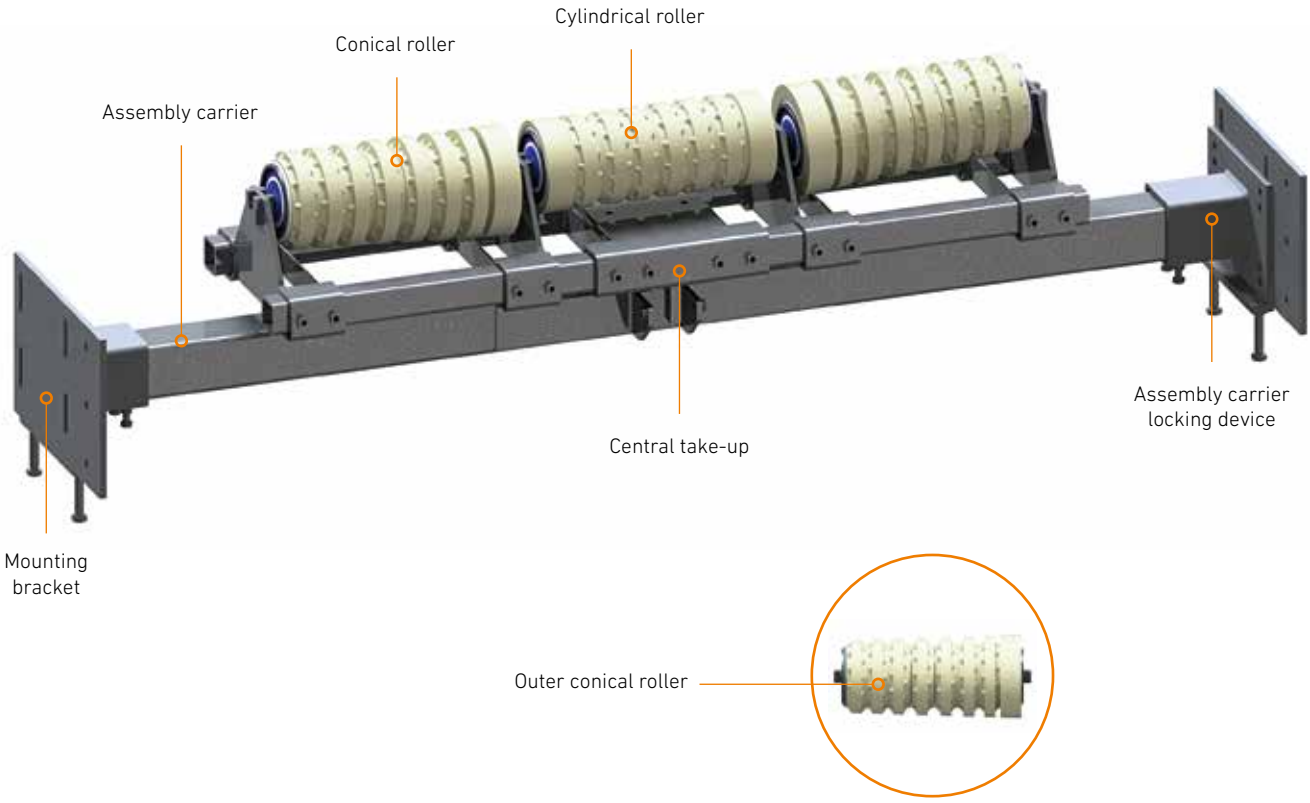
TRACKER ROLLER SYSTEMS
RRC-SERIES

The **HOSCH** tracker roller system of the RRC2/RRC3-Series offers the possibility to counteract belt misalignment in the lower run, even with changing conveying direction (reverse operation), due to its special design with laterally arranged conical rollers. The outer conical rollers create frictional forces on the side to which the belt runs out of line. This leads to the crossbeam swinging out. The inclined position of the crossbeam in turn gives rise to friction forces, which counteract belt misalignment.

TECHNICAL DATA

Data/Type	RRC2	RRC3
Belt width	1,200 – 1,600 mm	1,800 – 2,400 mm
Belt speed	≤ 6.0 m/s	
Space requirement	560 mm (free space under the belt)	580 mm (free space under the belt)
Installation position	90° - to the lower run	
Operating mode	Normal and reverse operation	
Height adjustment	Stepless, max. 80 mm	
Mounting	Mounting plates with integrated height adjustment, therefore easy mounting and alignment	
Corrosion protection	Galvanized components, stainless steel screw connections	
ATEX approval	Yes, in special version	

TRACKER ROLLER SYSTEMS
RRC-SERIES



SPECIAL FEATURES

- installation in the straight lower belt of the conveyor system
- special roller design for unrestricted reverse operation
- suitable for heavy operating conditions
- easy adaptation to the existing scaffold structure
- highly wear-resistant, antistatic and flame-retardant plastic coverings of the rollers (ATEX suitability)
- sturdy, torsion-resistant steel construction for heavy operating conditions
- roller crossbeam with sealed roller bearings guarantees smooth and fast response to belt misalignment
- simple and fast assembly due to modular design
- high-quality, maintenance-free single rollers with special sealing and rolling bearing units

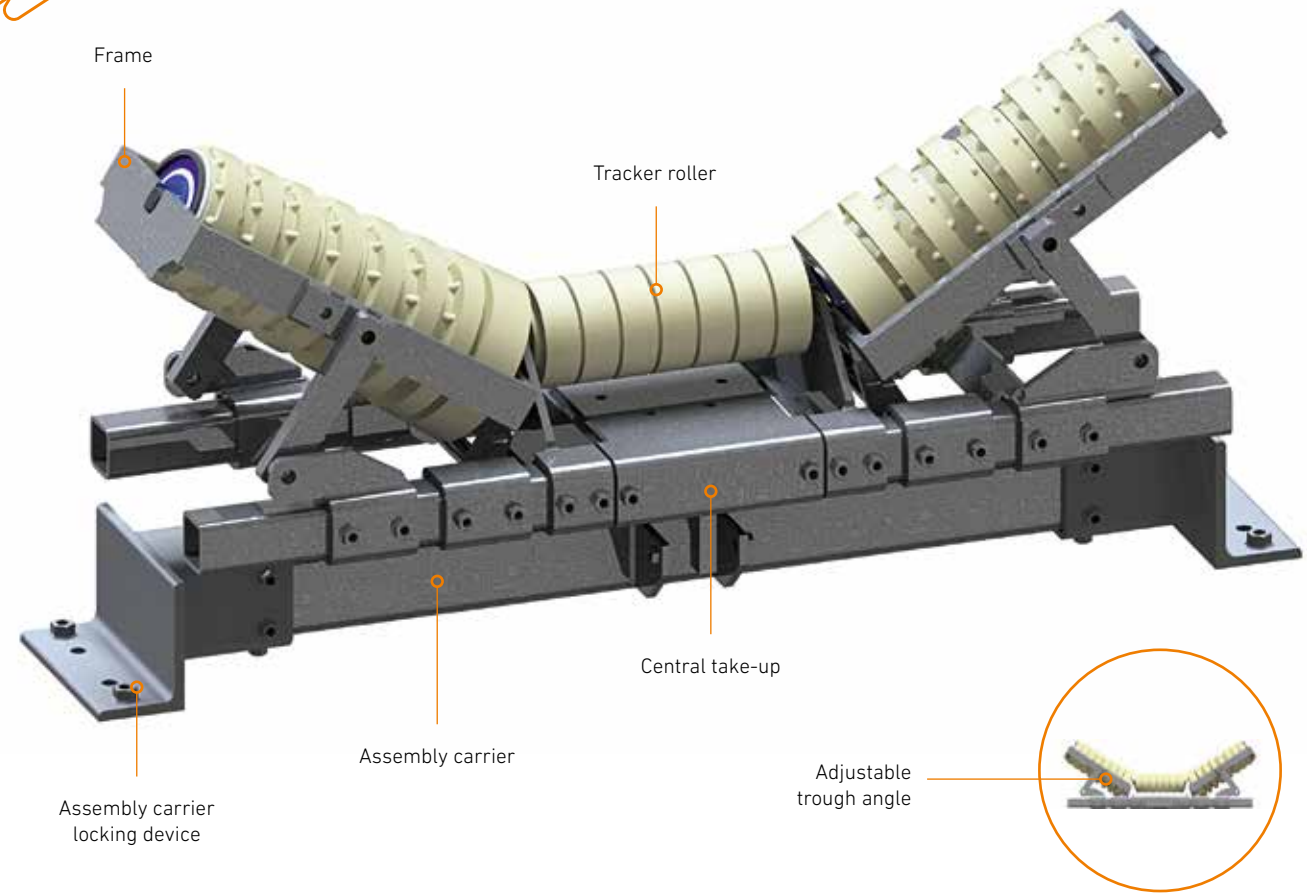
TRACKER ROLLER SYSTEMS
RRC-V-SERIES

The **HOSCH** tracker roller system type RRC2-V/RRC3-V can be used to counteract belt misalignment in the upper and lower run of a conveyor system. It corresponds to the functional principle of the RRC2/3-Series. To adapt to the troughed belt, the inclination of the outer conical rollers can be adjusted in steps of 20° to 45°. The tracker roller system can be operated either be used in normal or reverse operation.

TECHNICAL DATA

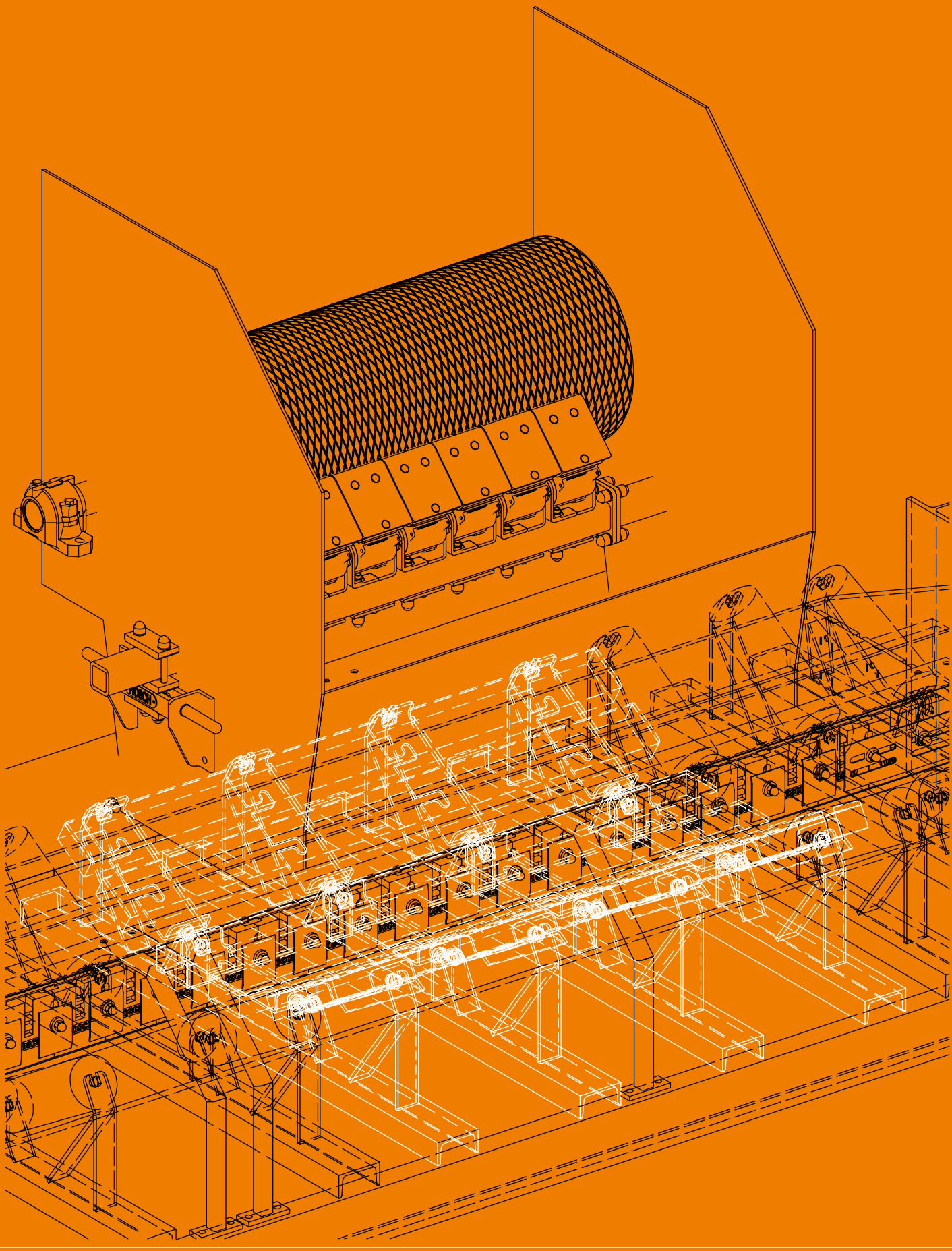
Data/Type	RRC2-V	RRC3-V
Belt width	650 – 1,400 mm	1,600 – 2,000 mm
Belt speed	≤ 6.0 m/s	
Space requirement	400 mm (free space under the belt)	420 mm (free space under the belt)
Installation position	90° - to the belt in the upper run or to the scaffold construction	
Operating mode	Normal and reverse operation	
Height adjustment	Stepless, max. 80 mm	
Mounting	Mounting plates with integrated height adjustment, therefore easy mounting and alignment	
Corrosion protection	Galvanized components, stainless steel screw connections	
ATEX approval	Yes, in special version	

TRACKER ROLLER SYSTEMS
RRC-V-SERIES



SPECIAL FEATURES

- installation in the trough lower belt of the conveyor system
- special roller design for unrestricted reverse operation
- suitable for heavy operating conditions
- easy adaptation to the existing scaffold structure
- highly wear-resistant, antistatic and flame-retardant plastic coverings of the rollers (ATEX suitability)
- robust, torsion-resistant steel construction for heavy operating conditions
- roller crossbeam with sealed roller bearings guarantees smooth and fast response to belt misalignment
- simple and fast assembly due to modular design
- high-quality, maintenance-free single rollers with special sealing and rolling bearing units



ADDITIONS

Various additions complete the **HOSCH** product range. In the usual high **HOSCH** quality, you will receive belt sealing systems, impact bars and measuring systems for the economic efficiency of scraper systems.

YOUR ADVANTAGES

- reliable side sealing within the material transfer area
- dampen the impact of the material in the transfer area
- avoid belt damage due to material impact
- measure and compare the efficiency of different scraper systems

ADDITIONS
SEALING SYSTEM FD-X

In the area of material feeding onto a conveyor belt, plant contamination, e.g. caused by spillage, asymmetrical feeding, rebounding bulk material, dust deposits or the like, can be observed very frequently. Such soiling poses a risk to personnel, the plant and the environment. With the **HOSCH** belt sealing system type FD, these material deposits in the transfer area of a belt conveyor system can be reliably prevented.

- the **HOSCH** belt sealing system type FD consists of a stable segment strip on which sealing blocks lying laterally against each other are clamped
- the sealing blocks, made of an abrasion-resistant rubber compound, can be easily aligned individually and continuously against the conveyor belt
- the sealing edges of the blocks should rest lightly on the belt surface to achieve good effectiveness with minimal wear
- if the sealing effect decreases due to wear, each block can be individually readjusted
- the **HOSCH** belt sealing systems type FD can be arranged in any number, one behind the other, without gaps so that the entire feed area of the belt system is sealed. For this purpose, the segment strips are either screwed or welded to the construction of the feeding chute or to separate brackets of the belt frame
- changing the blocks and adjustments require little effort. **HOSCH** offers an optionally available clamping tool for more precise and easier alignment of the blocks
- to ensure tightness in corner areas, longer end blocks are available and must be adjusted during installation

The **HOSCH** belt sealing system is available in three sizes: FD-A, FD-B and FD-C.
With the same design and function, the 3 sizes differ only in their dimensions.

Type FD-A and type FD-B are designed for sealing the belt edges in the longitudinal direction, while type FD-C is used for sealing in the transverse direction of the belt. For this purpose, the sealing blocks can be precisely adjusted in height and cut to fit the belt trough.

ADDITIONS
IMPACT BARS

Impact bars are plastic-coated rubber elements.
- they are used in the feed area of a belt conveyor
- they replace the idler station in the task area of a belt conveyor
- the structure of the impact bars is able to absorb the material impact
- the conveyor belt sag between the idler pulleys is eliminated

Performance features:
- avoid dust emissions in combination with a **HOSCH** belt sealing system type FD-x
- avoid belt damage as a result of the damping properties and the continuous support of the conveyor belt.

Our product range includes two installation variants:
1) Complete feeding station to be mounted on the belt frame
2) Fastening using an adapter for direct replacement of the support rollers

ADDITIONS
CARRYBACK METER

Belt conveyors tend to become soiled in the lower run due to material adhering to the belt (carryback). However, due to cost pressure in the bulk materials industry, conveyor operators have less and less personnel available for cleaning and maintenance work. The economic and safe operation of conveyor systems is therefore increasingly influenced by the performance of the belt cleaning equipment.

With the carryback measurement, **HOSCH** has developed a simple and practical method for determining the performance and cost-effectiveness of belt cleaning systems.

The method includes:
- a simple measurement of the cleaning performance of scraper systems
- a computer-aided evaluation of the measured data
- an economic efficiency analysis based on the measurement and plant data

During a measurement, a steel spatula is placed in belt contact for a short period of time (e.g. 5 min) behind an installed cleaning device.
The cleaned material is collected in a container and then weighed.
Through the comparison of several measurements on different conveyor systems, a direct statement can be made on the performance of the cleaning systems investigated. The evaluation of the test results is computer-aided by a program developed by HOSCH. From the system data, such as belt width, belt speed, running time per day, etc., the program determines specific parameters that are relevant for evaluating the performance of the cleaning systems. By extrapolating the material quantities determined during a measurement, and taking into account the system data, an estimation of the material quantity entered into the conveyor system is made. The calculated results are presented in descriptive graphics. The profitability analysis is based on the investment and operating costs, such as costs for removing contamination from under the belt conveyor, costs for purchase, installation and maintenance of the installed cleaning systems, for a period of three operating years. The measurements and evaluations generally require only a small amount of time and manpower and are always carried out in close cooperation with the plant operator.

HOSCH WORLDWIDE.

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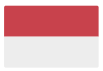

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