REMA TIP TOP

//ONE BRAND //ONE SOURCE //ONE SYSTEM

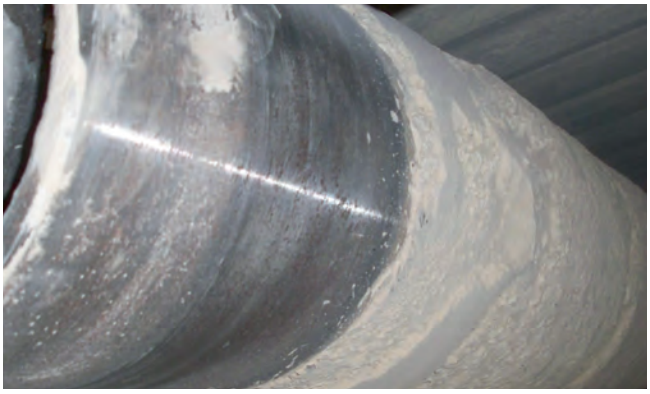
REMACLEAN

Belt Cleaning Systems

REMA TIP TOP

CONTENTS

REMA TIP TOP –
Your competent partner for conveyor belt cleaning



**Increase your productivity –
with REMACLEAN conveyor belt cleaning systems
made by REMA TIP TOP!**

The cleaning of conveyor belts is a matter that is often neglected by many plant operators. Optimum cleaning, however, considerably contributes to economic efficiency because: interruptions of the production process caused by soiling/contamination can lead to inefficiency and even to a standstill of the entire belt conveyor system. In addition, inadequate cleaning of the belt causes additional costs, for example through increased wear on pulleys or belt, loss of bulk material and expenses for manual cleaning work.

Reductions in plant availability and maintenance costs that can be avoided are no longer acceptable to operators.

Therefore, the demands made on the manufacturers of conveyor belt cleaning systems are clearly formulated:

- Optimum cleaning results, simultaneously protecting the belt,
- Efficient installation and maintenance
- Long service life of the belt cleaning systems

Conveyor belt cleaning is a complex matter. Several factors must be simultaneously met in order to achieve good and economically efficient cleaning results:

- Selection of a suitable belt cleaning system for the specific application
- Combination of the right systems (pre- and fine cleaning)
- Optimum positioning of the system in the belt conveyor system
- Installation by trained technicians
- Definition and execution of regular maintenance work by trained technicians

If any one of these items is not fulfilled, even the best system will fail after a short time and therefore will not contribute to economic operation.

REMA TIP TOP is your competent partner for the selection, installation and maintenance of belt cleaning systems – and much more. REMA TIP TOP has suitable products and services for all areas of belt conveyors. Our experienced specialists advise on, develop and optimize your conveying systems. Our comprehensive service network guarantees the availability of trained technicians – at any time.

Our modern training center for conveyor belt cleaning in Nauen, near Berlin, provides both, seminar rooms for the teaching of theoretical knowledge and original scraper systems for practical installation and maintenance training on a conveyor belt system.

SCRAPER RUBBER

REMACLEAN 60 and 70

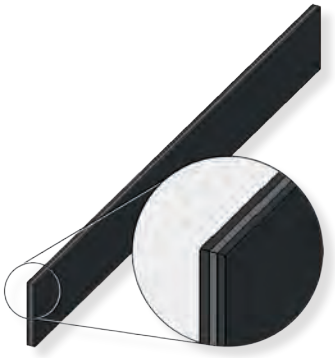
Owing to their excellent abrasion-resistance and high elasticity, our special rubber materials REMACLEAN 60 and REMACLEAN 70 are universally suitable and achieve significantly longer service life periods compared with conventional rubber materials. The scraper rubber is mounted on the system's existing scraper system and, when new, it may protrude from the bracket by up to its own thickness.

Product	REMACLEAN 60	REMACLEAN 70	REMACLEAN 70 V*
Hardness [± 5 Shore A]	60	62	60
Abrasion [mm³]	90	55	180
Available dimensions [Roll length 10 m]	Thickness:: 5/7/8/10/15/20/30 mm Width: 100/120/150/200/250/2000 mm	Thickness: 5/7/10/15/20/30 mm Width: 100/120/150/200/2000 mm	Thickness: 8/10/15/20/30 mm Width: 100/120/150/200/2000 mm

* German underground approval: LOBA No. 18.43.21-91-4; Polish underground approval: Dopuszczenie WUG Katowice No. B/1724/2007; permissible for use in ATEX installations.

REMACLEAN CAB

This scraper rubber consists of three layers with different Shore hardness degrees: Two hard outer layers enclose a soft core. This combination allows intensive and yet protective conveyor belt cleaning. With the same pressure against the conveyor belt, the cleaning effect of REMACLEAN CAB is approximately 20 % better than that of standard qualities. Service life is often several times longer than that of conventional scraper rubber materials. REMACLEAN CAB is mounted on the existing scraper system of the plants and, when new, it may protrude from the bracket by up to one and a half times its own thickness.



Product	REMACLEAN CAB green	REMACLEAN CAB grey	REMACLEAN CAB V*
Hardness [± 5 Shore A]	70 / 48 / 70	85 / 50 / 85	73 / 60 / 73
Abrasion [mm³]	90 / 190 / 90	140 / 130 / 140	120 / 130 / 120
Available dimensions [Roll length 10 m]	Thickness: 15/20/25/30/40/50 mm Width: 100/120/150/200/250/2000 mm	Thickness: 15/20/25/30/40/50 mm Width: 100/120/150/200/250/2000 mm	Thickness: 15/20/25/30/40/50 mm Width: 100/120/150/200/250/2000 mm

* German underground approval: LOBA No. 18.43.21-91-4/18.43.21-30-33; Polish underground approval: Dopuszczenie WUG Katowice No. B/1724/2007; can e used in ATEX installations.

SCRAPER BARS

REMA TIP TOP offers a broad range of scraper bars for the cleaning of the carrying side of the conveyor belt on the return belt. Scraper bars made of rubber, polyurethane, rubber-ceramic and rubber-metal are available.

REMACLEAN KWA

Benefits and features:

- Three scraper bars that can be used one after the other
- Belt-friendly scraper with high cleaning performance
- Long service life due to highly abrasion resistant rubber material
- Cost-effective due to an excellent price-performance ratio
- Installation is recommended with tension unit INNOVATION, PRECISION or STANDARD
- Belt speed up to 3.5 m/s

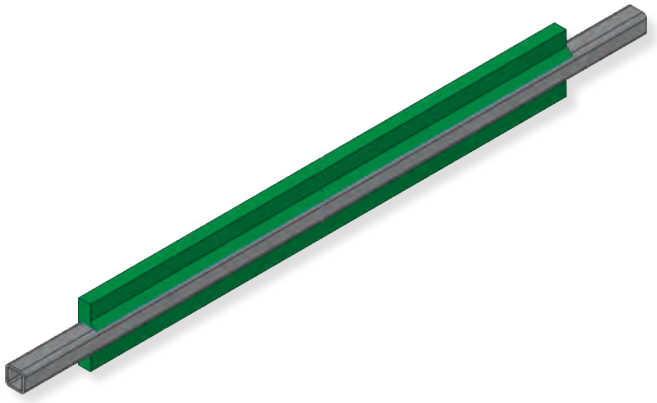
Product	REMACLEAN KWA	REMACLEAN KWA V*
Hardness [± 5 Shore A]	64	62
Abrasion [mm³]	50	130
Belt width [mm]	500-1600	500-1400
Features	Highly abrasion resistant	Self-extinguishing, antistatic, to some extent oil resistant

* German underground approval: LOBA NW-No: 18.43.21-91.24;
Polish underground approval: Dopuszczenie WUG Katowice-No:. B/1724/2007

REMACLEAN PUR

Benefits and features:

- Two scraper bars that can be used one after the other
- Long service life of the REMATHAN polyurethane material (90 ± 5 Shore A)
- Oil and grease resistant
- Belt width 500 - 1600 mm
- Suitable for use with mechanical fasteners
- Installation is recommended with tension unit INNOVATION, PRECISION or STANDARD
- Shuttle belt operation is possible when combined with tension unit INNOVATION
- Belt speed up to 3.5 m/s



SCRAPER BARS

REMACLEAN C

Benefits and features:
- Highly wear resistant through AL203 ceramic material
- Flexibility through ceramic material embedded in rubber
- Belt friendly due to rounded outer ceramic elements
- Belt width 400 - 1600 mm
- Installation is recommended with tension unit INNOVATION, PRECISION or STANDARD
- Do not use with quartz-containing bulk material
- Belt speed up to 3.5 m/s

REMACLEAN M

Benefits and features:
- Highly wear-resistant through special hard-metal insert
- Permanently vulcanized into an elastic rubber base
- Belt friendly due to rounded outer hard metal
- Installation is recommended with tension unit INNOVATION, PRECISION or STANDARD
- Belt width 400 - 1600 mm
- Belt speed up to 3.5 m/s

REMACLEAN HML HR

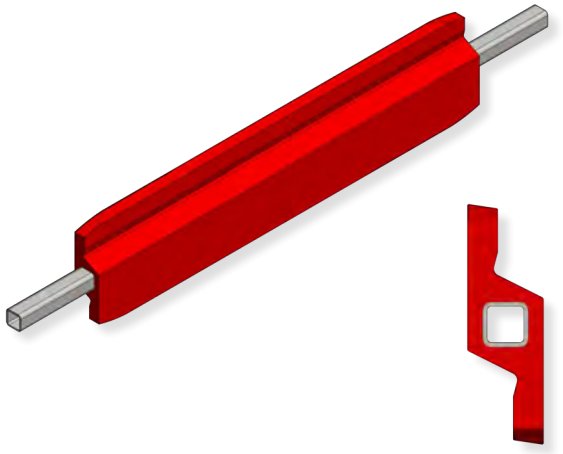
Highly abrasion resistant, universally usable scraper bar made of hard metal and a strong system carrier made of steel. For use on the conveyor belt at temperatures of up to 300°C. Installation is recommended with the tension unit of the type INNOVATION.

Features:
- Belt-friendly scraper with high cleaning performance
- Long service life owing to the high quality of the hardmetal plates
- Requires very little pressure due to the very small hard-metal surface
- Easy installation
- Belt width 400 - 1600 mm
- Designed for operating temperatures of up to 300°C and belt speed up to 3.5 m/s
- Not suitable for use with mechanical fasteners

Fields of application:
- Especially suited for pre-cleaning, also suited as main cleaner
- Universally usable for many materials conveyed, such as sand and gravel, hard coal, lignite, clay, cement, gypsum, waste and material with a high quartz content, sticky and abrasive materials

SCRAPER BARS

REMACLEAN PUR LIGHT



Highly abrasion resistant, universally usable scraper bar made of polyurethane with a weight-reduced yet rugged system carrier made of steel (30 x 30 mm). A special design with system carrier made of stainless steel is possible, too. Installation is recommended with tension unit INNOVATION, PRECISION or STANDARD.

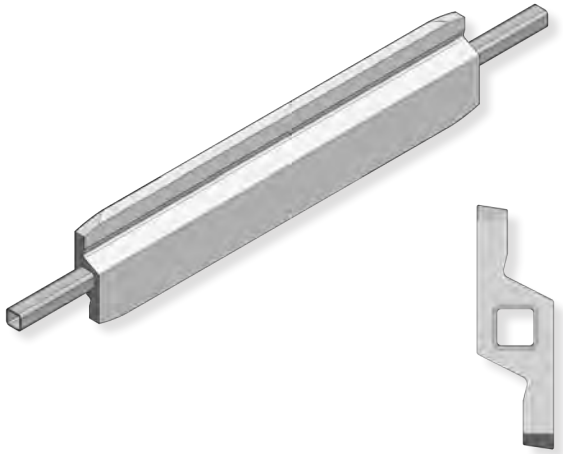
Features:

- Belt-friendly scraper with high cleaning performance of a light design
- Long service life due to abrasion resistant REMA TIP TOP PUR quality
- Excellent price-performance ratio
- Reversible scraper with two usable scraper bars
- Easy installation
- Belt width 500 - 1600 mm
- Designed for operating temperatures of -30°C to +70°C and belt speeds up to 2.5 m/s

Fields of application:

- Especially suited for pre-cleaning and, with dry material, also suited as main cleaner
- Universally usable for many materials conveyed, such as sand, gravel, hard coal, lignite, clay, cement, gypsum, waste and material containing grease

REMACLEAN PUR LIGHT LEB (foodstuff quality)



Special design of the PUR LIGHT LEB made of PUR for use in food sectors, meets the requirements of FDA CFR 21 § 177.2600.

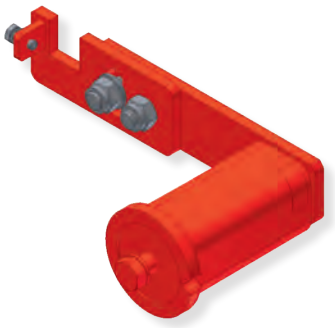
Fields of application:

- In all sectors of the industry where foodstuff quality is prescribed.

TENSION UNITS

STANDARD

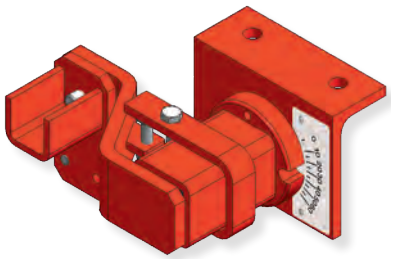
- Extremely long service life
- Vibration-absorbing and flexible on the conveyor belt due to integrated rubber spring elements
- Quick and easy replacement of scrapers
- Consistent cleaning performance due to constant contact pressure
- Can also be retrofitted to all belt conveyors with minimum effort
- Low overall height
- Setting of the 90° position of the scraper is possible
- Maintenance-free; thus, minimum time required for inspection and maintenance
- Belt width 400 - 1600 mm



PRECISION

The same benefits/features as STANDARD, plus

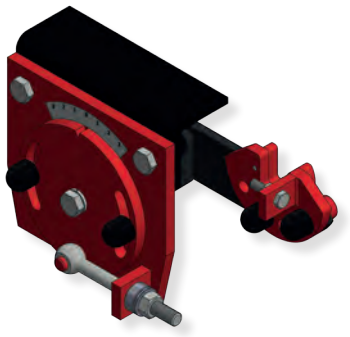
- Protection device against damage to the conveyor belt if the scraper is worn out
- Adjustable optimum setting angle of the scraper in relation for the conveyor belt
- Pivoting mechanism for precise 90° adjustment of scraper to belt
- Scale for setting the contact pressure
- Belt width 400 - 1800 mm



INNOVATION

The same benefits/features as PRECISION, plus

- Contact pressure continuously generated by tie spindle
- Pressure adjustment by only one person
- Precise micro adjustment of contact pressure
- Can be operated without heavy tools
- Pivoting mechanism for precise 90° adjustment of scraper to belt
- Universal installation possibilities
- Scale for setting the contact pressure
- Belt width 400 - 1800 mm

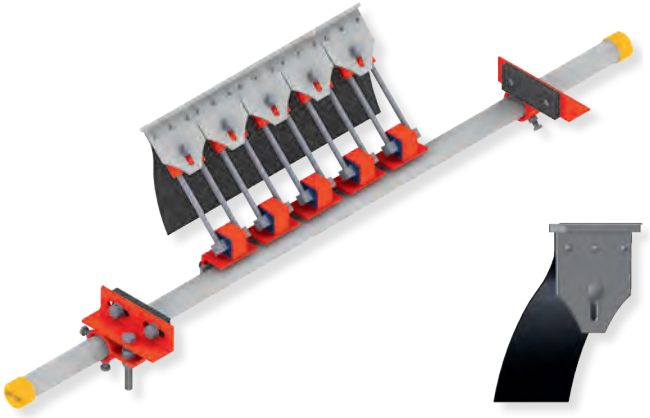


REMACLEAN F-SERIES – for use on the pulley

The belt cleaning systems of the REMA TIP TOP F series are designed for belt cleaning on the head pulley. Various systems with hard-metal blades or scraper bars made of polyurethane are available.

REMACLEAN HM-F1

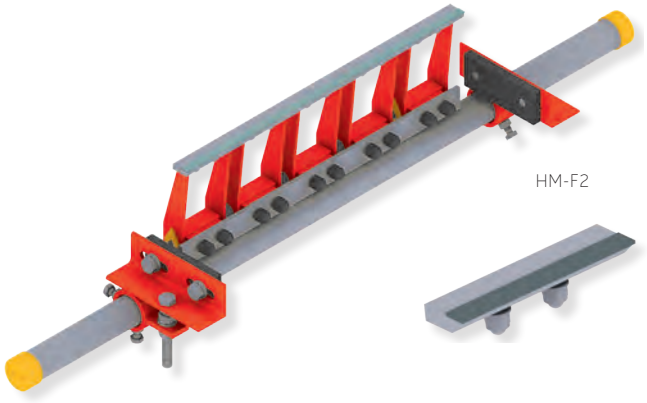
Belt scraper system with individually elastically borne hard-metal blades and a spindle-type tension unit for cleaning the carrying side of conveyor belts on the head pulley for large pulley diameters of up to 2000 mm.



- Universally applicable for many types of materials conveyed
- High cleaning effect due to optimum adaptability of the hard-metal blades (each one elastically borne) on the conveyor belt surface
- Long service life due to highly wear resistant hard metal and easy-slide anti-caking skirts
- Easy installation of the scraper below the pulley axis (outside the main material flow)
- Low-maintenance tensioning by rubber spring elements
- Open design of the hard-metal carriers to ensure free material runoff
- Tension unit can be installed inside or outside the conveyor-belt structure
- Also suited for reverse operation
- Belt speed up to 6.5 m/s

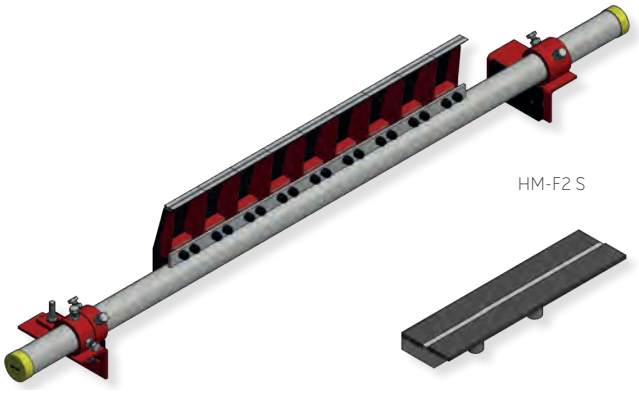
REMACLEAN HM-F2 / HM-F2 S

Belt scraper system with individually elastically borne hard-metal blades and a spindle-type tension unit for cleaning the carrying side of conveyor belts on the head pulley for pulley diameters of up to 1200 mm.



HM-F2

- High cleaning effect due to optimum adaptability of the hard-metal blades (each one elastically borne) on the conveyor belt surface
- Long service life due to specifically selected, proven hard metals
- nstallation of the scraper below the pulley axis (outside the main material flow)
- Open design of the hard-metal carriers to ensure free material runoff
- Easily installable and adjustable, low maintenance through rubber spring elements
- Constant and optimum contact pressure; easily adjustable and readable on the display
- Tension unit can be installed inside or outside the conveyor-belt structure
- Also suited for reverse operation
- Belt speed up to 4.5 m/s (from belt width of 1600, up to 2.5 m/s)



HM-F2 S

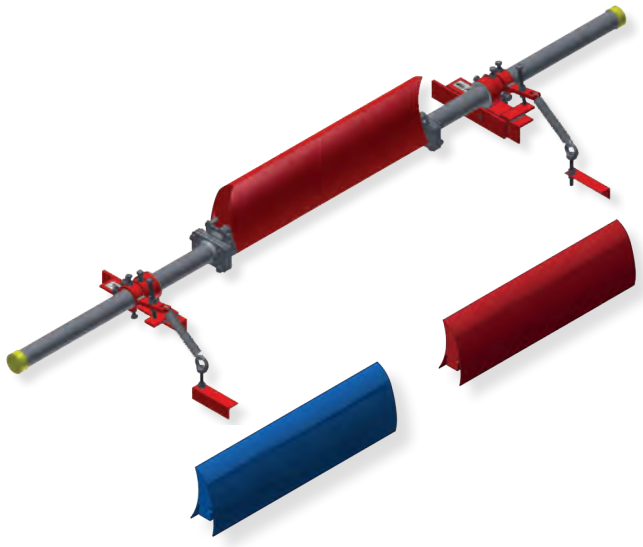
The type HM-F2 S is designed for especially hard rock materials. The hard-metal blades contain 2 pcs. hard metals for achieving especially long service life The hard-metal blades have an integrated PE skirt on their back to protect the swing element from material.

REMACLEAN F-SERIES –
for use on the pulley

REMACLEAN PUR-F3 / PUR-F4

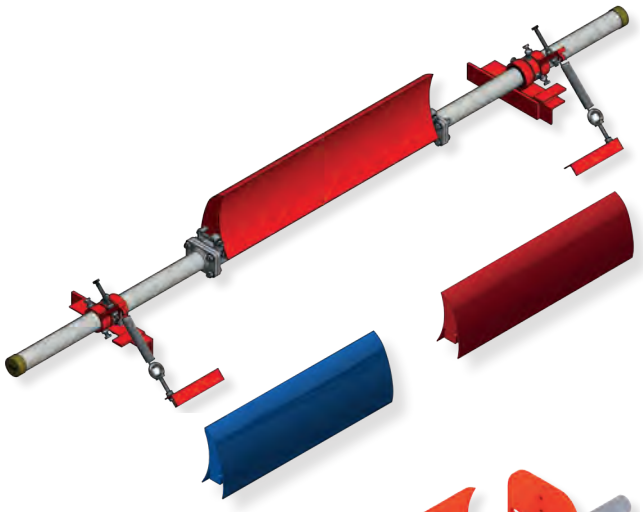
Belt scraper system for cleaning the carrying side of the conveyor belt on the head pulley comprising 200 or 400 mm wide polyurethane bars and a spring lever tension unit for pulley diameters from 220 to 1600 mm.

- High cleaning effect due to optimum adaptability of the polyurethane bar to the conveyor belt surface
- Long service life due to highly wear resistant polyurethane material
- Suitable for use with mechanical fasteners
- Easy installation and adjustment, low maintenance due to the spring lever tension unit used
- Uniform and optimum contact pressure can be easily set
- Can be optimally used as pre-cleaner for highly problematic materials
- Also suitable for reverse operation and for convex pulleys
- PUR-F3 for pulley diameters from 220 mm
- PUR-F4 for pulley diameters from 500 mm
- Also available for underground application (ATEX suited)*
- Blue PUR elements for operating temperature of 100°C (for a short time 120°C)
- Belt speed up to 4 m/s



REMACLEAN PUR-F3 / PUR-F4 MONOBLOCK

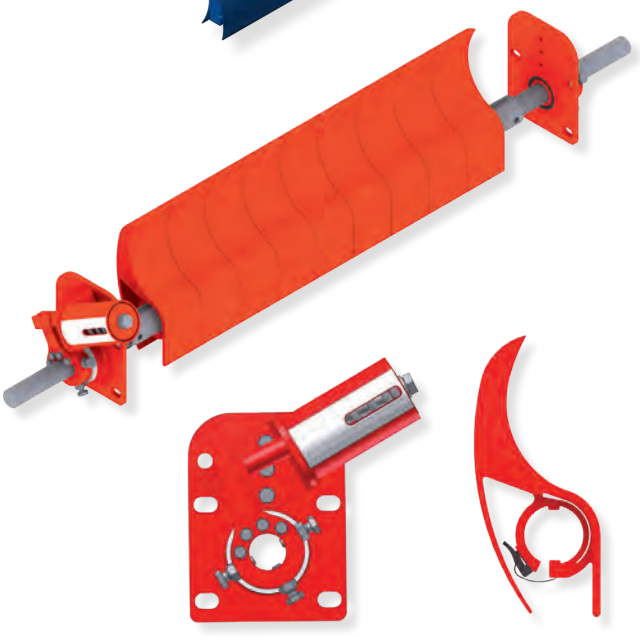
Design of the systems with only one PUR bar as a block PUR-MONOBLOCK bar available in the lengths: 600, 700, 900, 1,100, 1,300, 1,500 mm*
These design types are especially recommendable for the recycling industry.



REMACLEAN PUR-F5

Belt scraper system for cleaning the carrying side of the conveyor belt on the head pulley comprising polyurethane segments and a lever tension unit with compression spring for pulley diameters from 320 mm.

- High cleaning effect due to optimum adaptability of the individual polyurethane segments to the conveyor belt surface (each segment has its own dynamic)
- Long service life due to highly wear resistant polyurethane material
- Suitable for use with mechanical fasteners
- Easy installation and adjustment, low maintenance due to the lever unit with compression springs used
- Polyurethane segments with quick lock
- Uniform and optimum contact pressure can be easily set
- Can be well used as pre-cleaner for highly problematic materials
- Also suitable for reverse operation and for convex pulleys
- Belt speed up to 4 m/s

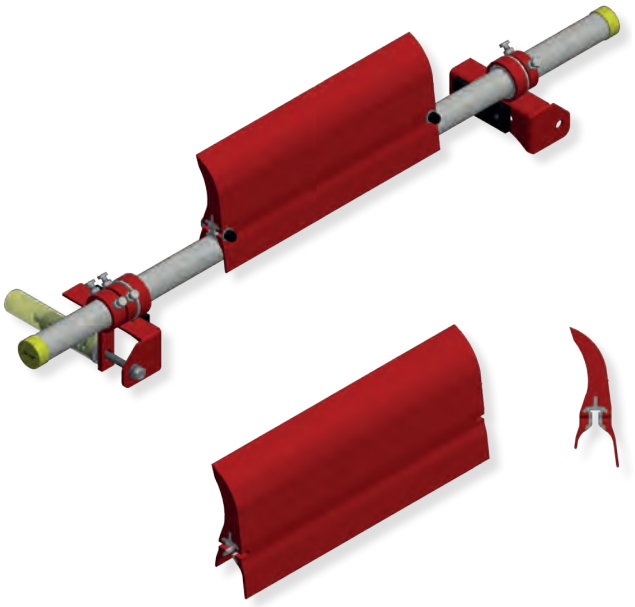


* Special design in blue colour for temperature up to 120°C and 100% humidity

REMACLEAN F-SERIES –
for use on the pulley

REMACLEAN PUR-F6

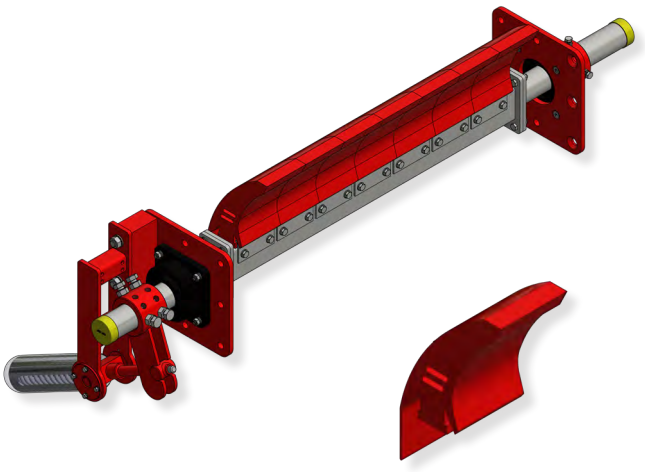
Light belt scraper system with a scraper bar made of PUR and a lever tension unit with compression spring for cleaning the carrying side of the conveyor belt on the head pulley. The scraper bar contains a mounting rail of aluminium for easy installation on the system carrier.



- The light design of the scraper system is especially recommendable for small pulleys and narrow band widths
- High cleaning effect due to good adaptability of the polyurethane bar to the pulley
- Generally suitable for all materials conveyed & with smooth surface
- Long service life due to use of high-quality polyurethane materials
- Easy installation and generation of the contact pressure by means of the lever tension unit
- Usable as pre-cleaner or main cleaner
- Also suited for reverse operation
- System carrier is installed in drag bearings
- Available for belt widths from 500 to 1,600 mm
- Usable with pulley diameters from 160 to 630 mm
- Designed for temperatures of -40°C to 70°C and belt speeds up to 4.0 m/s
- ATEX type on request

REMACLEAN PUR-F7

Heavy conveyor belt scraper system version with a scraper bar made of PUR segments and a lever tension unit with compression spring for cleaning the carrying side of the conveyor belt on the head pulley. The PUR bar consists of individual segments.



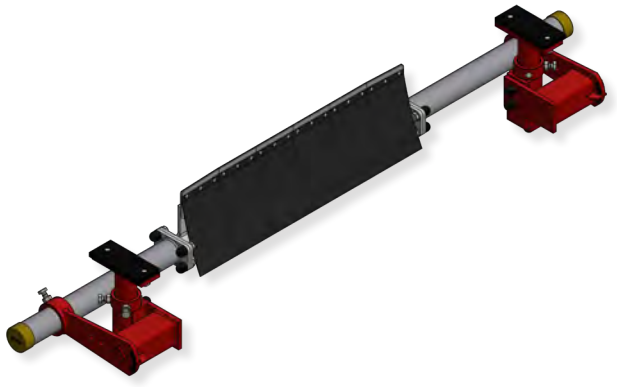
- The heavy design of the scraper system is especially intended for pulleys from a diameter of 630 mm and belt widths from 1,200 mm
- High cleaning effect due to good adaptability of the polyurethane bar to the pulley
- Suited for conveying speeds up 6.5 m/s
- Long service life due to use of high-quality polyurethane materials
- Easy installation and generation of the contact pressure by means of the lever tension unit
- Recommended as pre-cleaner for high conveying capacities
- Also suited for short reverse operation
- System carrier is installed in drag bearings
- Available for belt widths from 1,200 to 2,400 mm
- Usable with pulley diameters from 630 to 1,600 mm
- Designed for temperatures from -40°C to 70°C

REMACLEAN U-SERIES –
for use on the belt

The belt cleaning systems of the REMA TIP TOP U series are designed for belt cleaning on the return belt. Combination with a belt cleaning system of the F Series is recommended to achieve an optimum cleaning effect. The U Series provides various cleaning systems for almost any application. All systems use hard-metal blades/segments for the cleaning of the belt. Systems with a full-length bar as well as systems with individually borne segments/blades are available.

REMACLEAN HM-U1

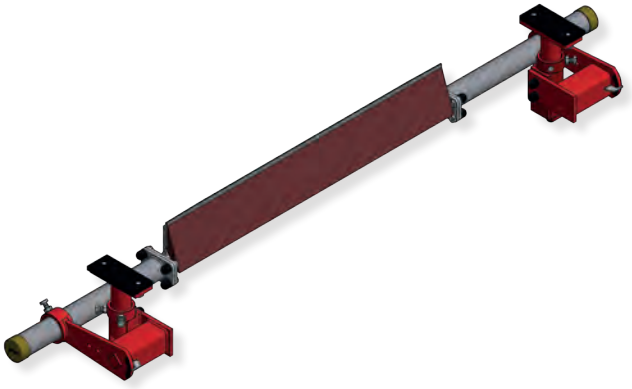
Conveyor belt scraper system for belt return side applications consisting of several segments of hard-metal carriers and a torsion-spindle tension unit with swinging arm.



- Very good cleaning performance
- Long service life due to use of high-quality hard-metal materials
- Modular system consisting of system support tube, hardmetal carriers (HMT), support tube extensions and spindle kits with torsion pressure bearing
- Uniform and optimum contact pressure can be easily set
- Flange connection for quick/easy installation/replacement
- Spindle kits can be mounted inside or outside the conveyor belt structure
- Protection of the belt edges by lowered outer hard-metal carriers (HMT)
- Can be upgraded for reverse operation
- Special version for operating temperatures up to 120 are available
- Belt speed up to 6.5 m/s

REMACLEAN HM-U2

Conveyor belt scraper system for belt return side applications with a full-length hard-metal bar and a torsion-spindle tension unit with swinging arm.



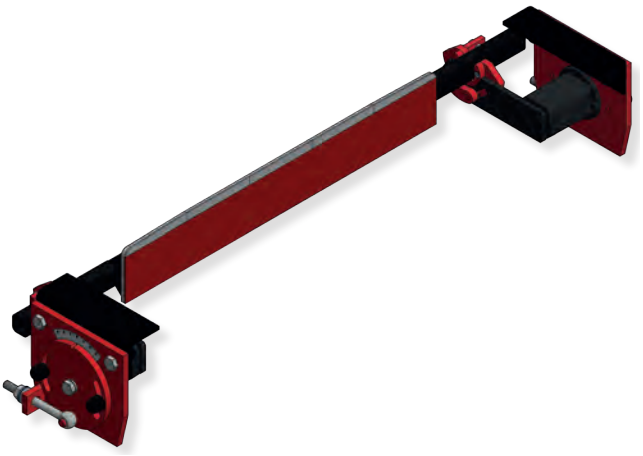
- Very good cleaning performance
- Long service life due to use of high-quality hard-metal materials
- Modular system consisting of system support tube, hard-metal bars, support tube extensions and spindle kits with torsion pressure bearing
- Flange connection for quick/easy installation/replacement
- Spindle kits can be mounted inside or outside the conveyor belt structure
- Uniform and optimum contact pressure can be easily set
- Sliding member made of wear resistant REMATHAN on the front side of the hard-metal bar ensures smooth material run off
- Protection of the belt edges by lowered outer hard-metal carriers
- Can be upgraded for reverse operation
- Belt speed up to 6.5 m/s

REMACLEAN U-SERIES – for use on the belt

REMACLEAN HM-U3

Conveyor belt scraper system for belt return side; applications with a full-length hard-metal bar having a very low installation height and with a tension unit INNOVATION.

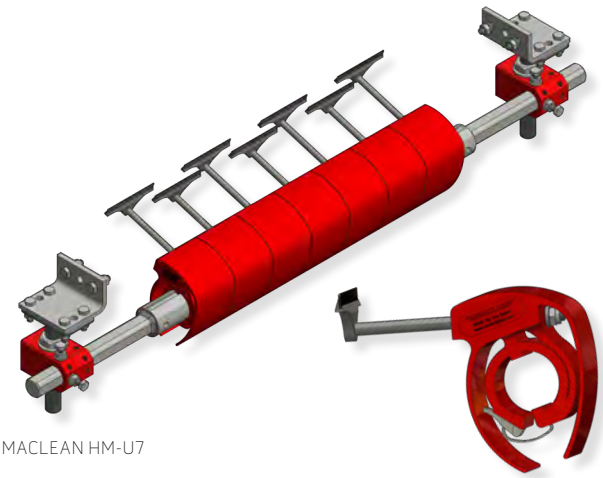
- Universally applicable for many types of materials conveyed
- Very good cleaning performance
- Long service due to trimming with highly wear resistant hard metal
- Protection of the belt surface in the edge region by lowered outer hard metal
- Easy installation and adjustment of the system
- Little installation space required due to low hard-metal bar
- Automatic system readjustment
- Tension unit INNOVATION with precise adjustment of the contact pressure
- Integrated pitch adjustment of the scraper bar
- REMA-REPCOAT SL anti-caking coating on the runoff side of the hard-metal bar
- Applicable for temperatures from -40°C to +80°C
- Belt speed up to 4.0 m/s



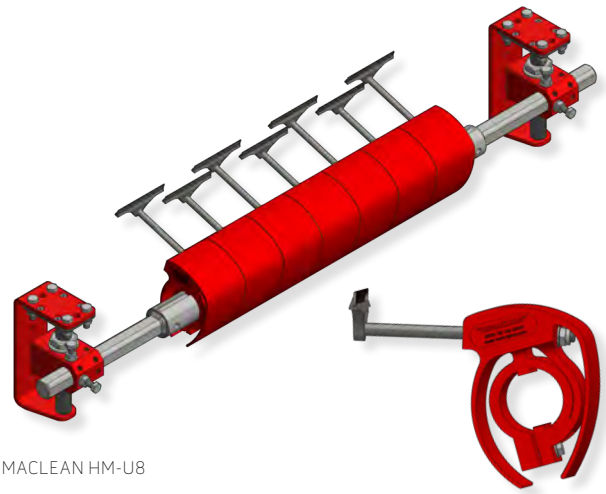
REMACLEAN HM-U7 / HM-U8

Conveyor belt scraper system for belt return side; applications with elastically borne hard-metal blades and spindle-type tension unit.

- Precise adjustment of the required contact pressure
- Individually borne blades that can rotate around their own axis
- Optimum adjustment to the conveyor belt surface
- High-quality hard-metal blades provide for a long service life
- Compact design
- Tool-free installation / exchange of the segments using a clamp connector on the HM-47
- Segments of the HM-48 are fixed to the support tube by screws
- Hard-metal blades made of stainless steel
- Combination of the benefits of polyurethane and hard metal (vibration dampening carrier made of polyurethane)
- Suitable for bulk material applications in many branches of industry
- Special versions MF (Mechanical Fasteners): with special, impact-proof hard-metal blades for use with mechanical fasteners V: for use in underground applications (ATEX suited)
- REMACLEAN HM-U7: Belt speed up to 4.0 m/s
- REMACLEAN HM-U8: Belt speed up to 6.5 m/s



REMACLEAN HM-U7



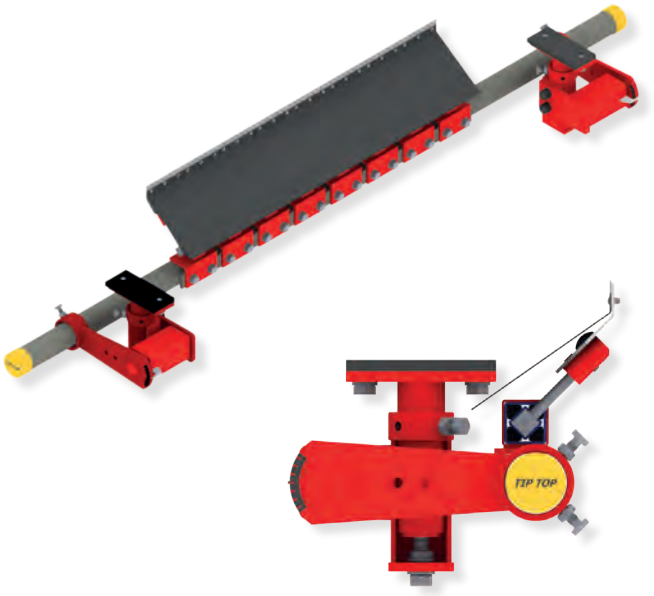
REMACLEAN HM-U8

REMACLEAN U-SERIES – for use on the belt

REMACLEAN HM-U9

Conveyor belt scraper system for belt return side; applications with individually elastically borne hard-metal blades and torsion-spindle tension unit with swinging arm.

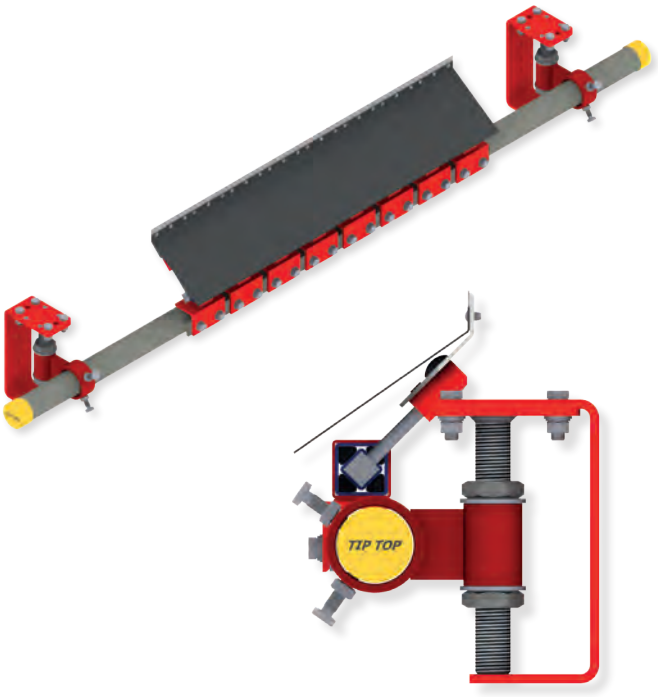
- Hard-metal blades arranged side by side are individually
- borne and can move dynamically in the moving direction
- of the belt
- • Hard-metal blades can also be adjusted in vertical
- direction
- • Precise adjustment of the required contact
- pressure by means of the torsion spindle tension unit
- • High-quality hard-metal blades provide for a long
- service life
- • Compact design, material run-off skirt made of plastic
- • Individually rubber-borne hard-metal blades
- • Belt speed up to 6.5 m/s



REMACLEAN HM-U10

Conveyor belt scraper system for belt return side; applications with individually elastically borne hard-metal blades and torsion-spindle tension unit without swinging arm.

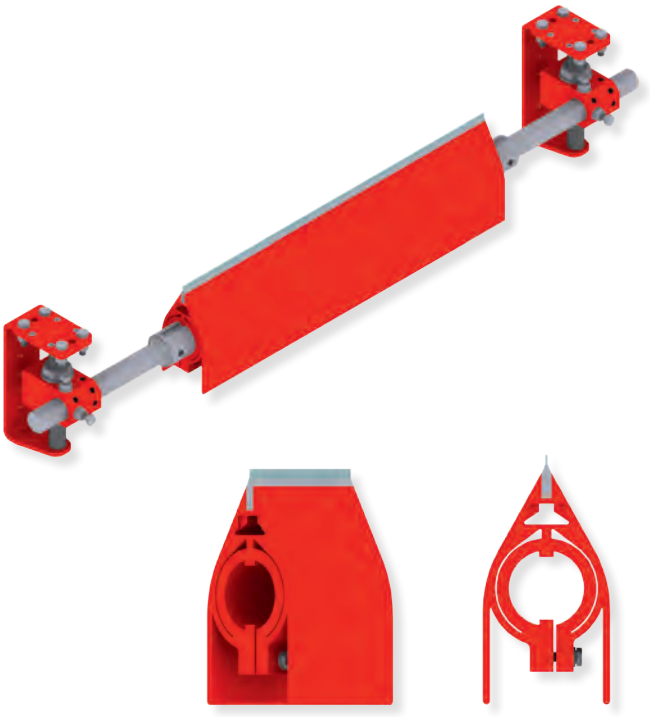
- Hard-metal blades arranged side by side are individually borne and can move dynamically in the moving direction of the belt
- Hard-metal blades can also be adjusted in vertical direction
- Precise adjustment of the required contact pressure by means of the torsion spindle tension unit
- High-quality hard-metal blades provide for a long service life
- Very compact design; material run-off skirt made of plastic
- Individually rubber-borne hard-metal blades
- Belt speed up to 6.5 m/s



REMACLEAN U-SERIES –
for use on the belt

REMACLEAN HM-U11 R-70 / HM-U11 R-85

Belt cleaning system for return side applications with elastically borne hard-metal blades and a spindle-type tension unit suited for reverse operation. High cleaning effect and long service life due to hard metal of very high quality. Good adaptability to the conveyor belt through blades flexibly bore in polyurethane. Universally usable for many materials conveyed, such as e.g. sand, gravel, hard coal, lignite, ores, sinter, cement, clay, to some extent for waste any gypsum.



- Belt friendly scraping system due to the sagging function of the hard-metal blades
- Hard-metal blades of stainless steel arranged side by side are individually borne in the polyurethane base and can move dynamically in the moving direction of the material conveyed and adapt to the surface; the function is ensured in both directions.
- Modular system consisting of a very robust system support tube, hard-metal blades and segments with mounting bases made of soft polyurethane and a spindle-type tension unit
- Uniform and optimum contact pressure can be easily set by means the spindle-type tension unit
- Low maintenance
- System carrier is protected by sliding skirts of the mounting base
- Version with polyurethane segment bases with screw mounting
- Particularly suited for reverse operation
- Belt width up to 2000 mm
- Designed for temperatures from -40°C to +70°C
- Belt speed:
  - HM-U11 R-70 up to 3.5 m/s
  - HM-U11 R-85 up to 6.5 m/s

Version HM-U11 R-85 can also be used instead of HM-U1 or HM-U2.

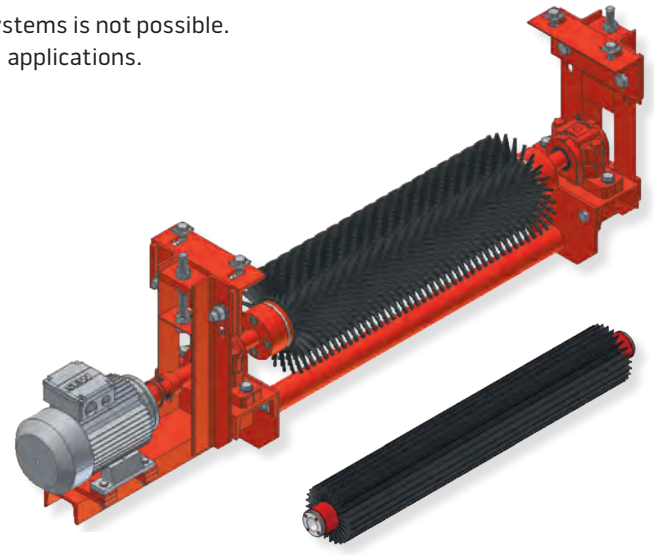
Info:

- HM-U11 R-70 with PUR base of Shore hardness 70°
- HM-U11 R-85 with PUR base of Shore hardness 85°

BELT CLEANING BRUSHES

There are applications where belt cleaning with static scraper systems is not possible. Our belt cleaning brushes are the ideal solution for these special applications.

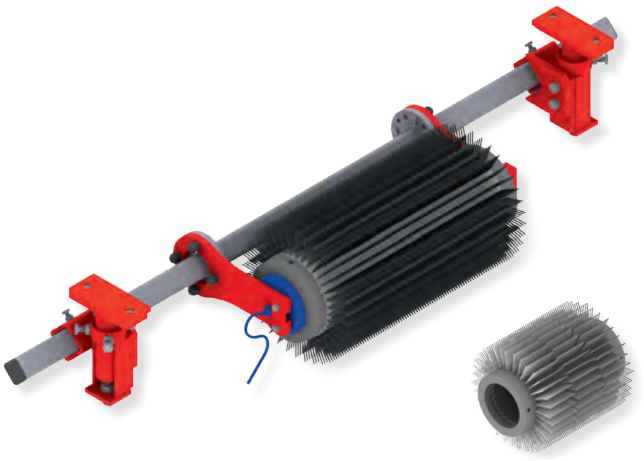
REMACLEAN GRB



REMACLEAN GRB is a belt cleaning brush with round rubber bristles and an external electric drive for the fine cleaning of the carrying side of the conveyor belt on the return side.

- Belt cleaning brush with direct drive by an electric motor
- Ideal for the removal of fine or powdery and also sticky materials
- Can be combined with pre-scraper for moist materials
- High flexibility and extremely belt friendly due to the use of rubber bristles
- Self cleaning
- Also available for application in EX operations (ATEX suited)
- Also available in foodstuff quality and as oil resistant version
- Belt speed up to 2.5 m/s

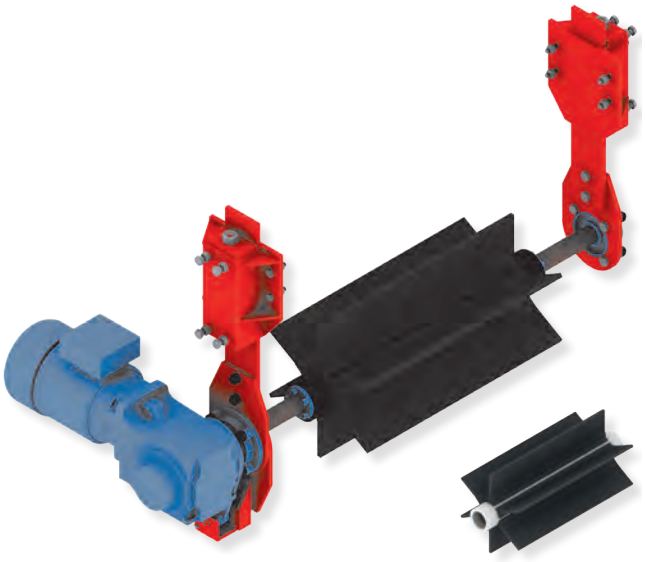
REMACLEAN TMB



REMACLEAN TMB motor drum brush with plastic bristles and internal drive for the fine cleaning of the carrying side of the conveyor belt at ambient temperatures up to max. 80°C.

- Belt friendly cleaning
- Cleaning of dry or slightly wet bulk materials
- Easy and quick adjustment with the spindle system
- Various brush types for different requirements available
- Compact design due to the use of a drum motor
- Pivot mechanism for optimum positioning also in difficult mounting arrangements
- Belt speed up to 6.5 m/s

REMACLEAN SGB



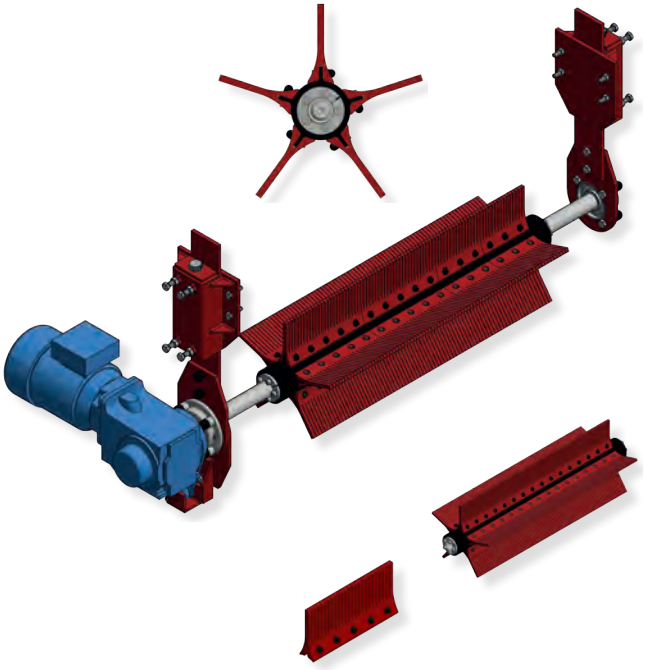
REMACLEAN SGB (cleated belt brush) is a belt cleaning system with electrically driven rubber brush for the cleaning of the carrying side of inclined conveyor belts, in particular arrow profile belts (e.g. Chevron).

- Unique cleaning of inclined conveyor belts, in particular arrow profile belts (Chevron belts) with a cleat height of up to 24 mm
- Rotation in opposite direction to the belt
- Long service life of the strip coating (REMALINE 70)
- EX motors available on request (ATEX)
- Belt speed up to 2.5 m/s

BELT CLEANING BRUSHES

REMACLEAN SGB-PUR

REMACLEAN SGB – PUR (cleated belt brush) with PUR combs is a belt cleaning system with electrically driven brush for the cleaning of the carrying side of inclined conveyor belts, in particular arrow profile belts (e.g. Chevron).

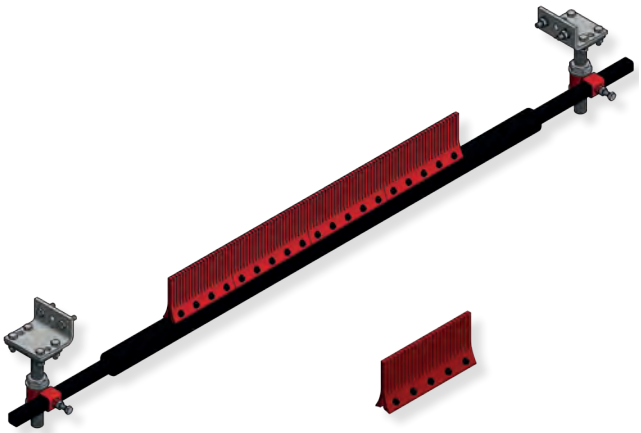


- Unique cleaning of inclined conveyor belts, in particular Chevron belts with a cleat height of up to 24 mm
- Rotation of the brush in opposite direction to the belt
- Long service life of the combs since they are made of highly abrasion resistant PUR
- Owing to the PUR design, to some extent also usable for materials containing oil and grease
- PUR combs are fixed to the shaft by screws to ensure quick replacement
- Version for ATEX applications available on request
- Suited for a conveying speed up 3.5 m/s

Fields of application:
- Especially for very hard rock material
- Glass recycling
- Bulk materials containing oil

REMACLEAN SGF-PUR

REMACLEAN SGF – PUR (cleated belt - Finger) with PUR combs is a belt scraping system for the cleaning of the carrying side of inclined conveyor belts, in particular arrow profile belts (e.g. CHEVRON)..



- Unique cleaning of inclined conveyor belts, in particular CHEVRON belts with a cleat height of up to 24 mm
- Quick installation and generation of the contact pressure by means of the spindle-type tension units
- Long service life of the combs made of highly abrasion resistant PUR
- Owing to the PUR design, to some extent also usable for materials containing oil and grease
- PUR combs are fixed to the system carrier by screws to ensure quick replacement
- Version for ATEX applications available on request
- Suited for a conveying speed up 2.5 m/s and a cleat height up to 24 mm

Fields of application:
- Generally for all bulk materials
- Not recommendable for waste and fibrous materials.

INNER BELT SCRAPER

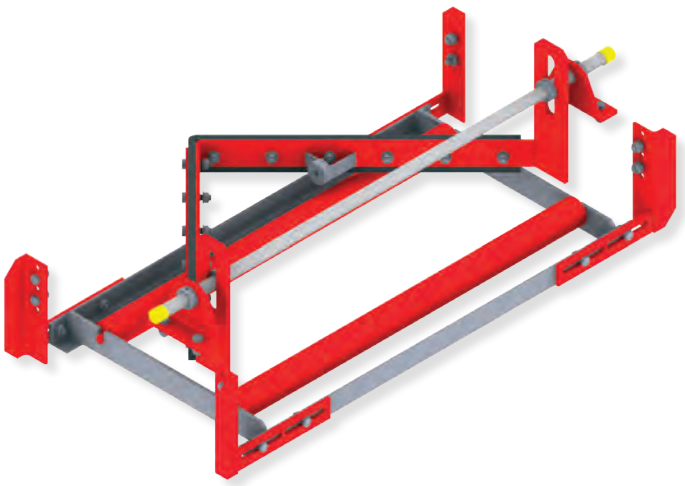
Inner belt scrapers ensure that no fallen-down material gets between belt and pulley, which may cause considerable damage to the belt as well as the pulley.

REMACLEAN RB-IGD – Diagonal Scraper

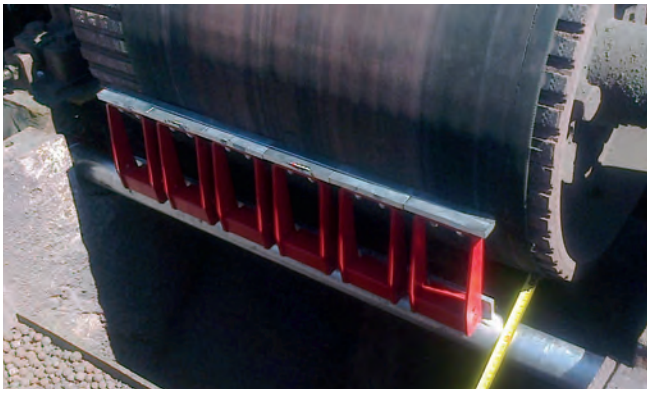
- Diagonal scraper for use on the return belt on the inner side of the conveyor belt for protecting the return pulley from material
- A rubber lip made of REMACLEAN CAB is mounted on the bar carrier
- The required contact pressure of the scraper plough is generated by means of the spindle-type tension unit
- Very easy installation, adjustment and maintenance of the system
- All steel parts are primed and provided with a red paint coating
- REMACLEAN RB-IGD can be used in reverse operation
- Also available for underground application (ATEX suited)
- Belt speed: 3.5 m/s

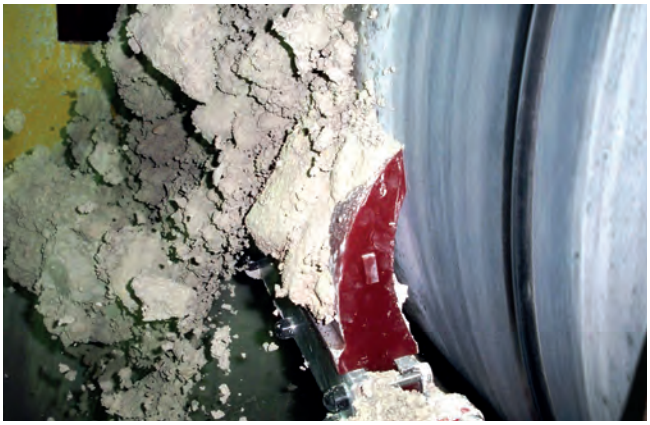
REMACLEAN RB-IGP – V-Plough Scraper

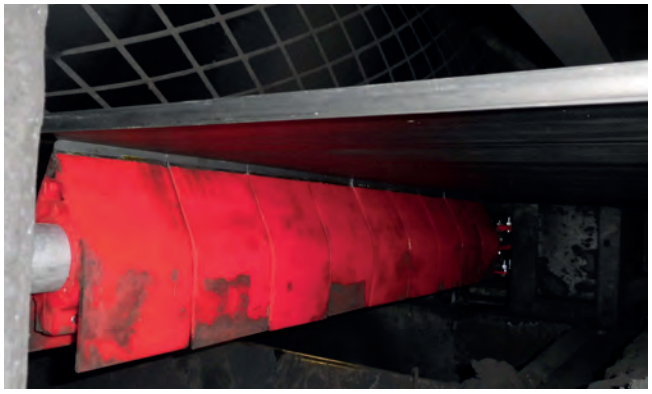
- V-Plough scraper system for use on the return belt on the inner side of the conveyor belt for protecting the return pulley from material
- Frame with integrated idler rollers and scraper plough (rubber lip made of REMACLEAN CAB)
- The frame structure flattens the belt and thereby guarantees optimum adjustment to the rubber lip - leading to an effective cleaning result
- The required contact pressure of the scraper plough is generated by the own weight of the system
- A running wheel mounted on the scraper plough prevents the steel frame from getting into contact with the belt surface after the rubber bar has been worn out
- All steel parts are primed and provided with a red paint coating
- Also available for underground application (ATEX suited)
- Belt speed: 3.5 m/s



APPLICATION PICTURES

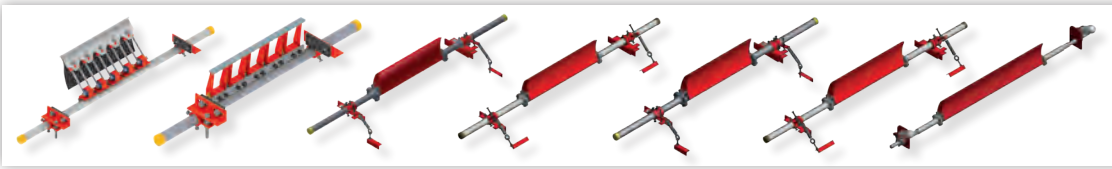






OVERVIEW TABLE:
F-Series

REMACLEAN – belt cleaning system for use on the pulley



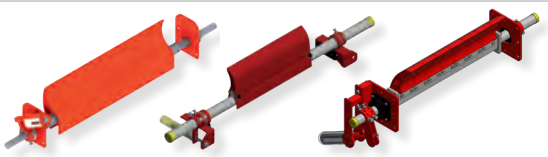
Type	HM-F1	HM-F2	PUR-F3	PUR-F3 Mono	PUR-F4	PUR-F4 Mono	PUR-F4 HD
Belt width (mm)	800-2600	400-2000	400-1600	400-1600	800-2000	800-2000	1000-2400
Type of cleaning system	V, H	V, H	V	V	V	V	V
For belt speeds up to (m/s)	6,5	4,5	4,0	4,0	4,0	4,0	6,5
Suited for reverse operation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Type of scraper bar	S	S	D	D	D	D	D
Scraper bar material	HM	HM	PUR	PUR	PUR	PUR	PUR
Max. operating temp. (°C)	60	120 **	60	60	60	60	60
ATEX version available	No	No	Yes	Yes	Yes	Yes	Yes
Suitable for mechanical fasteners	No	No	Yes	Yes	Yes	Yes	Yes
Available for food applications	No	Yes**	No	No	No	No	No
Suitable for oily and greasy materials	3	3	2	2	2	2	2
Sand/gravel (dry)	1	1	1	1	1	1	1
Sand/gravel (wet)	1	1	1	1	1	1	1
Hard coal (crude)	1	1	1	1	1	1	1
Lignite/overburden	1	1	1	1	1	1	1
Ores	1	1	2	2	2	2	1
Sinter	1	1	2	2	2	2	2
Clay	3	1	2	2	2	2	2
Cement	1	1	1	1	1	1	1
Gypsum	3	3	2	2	2	2	2
Waste	3	3	3	2	3	2	3

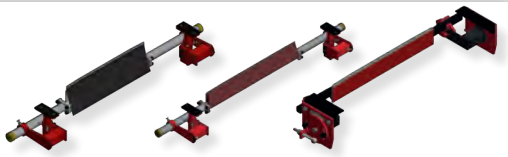
V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
1 = recommendable, **2** = limited suitability, **3** = not recommendable

The recommendations listed as examples of the use of the products are based on experience gained in technical applications but are not an assurance of their suitability for specific application areas. They do not release the user from checking the matter himself. In individual cases, we recommend to obtain technical application advice – experienced REMA TIP TOP specialists are available for this purpose.

OVERVIEW TABLE:
U-Series

REMACLEAN – belt cleaning system for use on the belt





PUR-F5	PUR-F6	PUR-F7	Type	HM-U1	HM-U2	HM-U3
800-1600	500-1600	1000-2400	Belt width (mm)	400-2400	500-1400	400-1200
V, H	V, H	V, H	Type of cleaning system	V, H	V, H	V, H
4,0	4,0	6,5	For belt speeds up to (m/s)	6,5	6,5	4,0
Yes	Yes	Yes	Reverse operation	Yes*	Yes*	No
S	D	D	Type of scraper bar	D	D	D
PUR	PUR	PUR	Scraper bar material	HM	HM	HM
60	60	60	Max. operating temp. (°C)	120**	60	80
Yes	Yes**	Yes**	Suitable for ATEX	No	No	No
Yes	Yes	Yes	Suitable for mechanical fasteners	No	No	No
Yes**	Yes**	No	Available for food applications	Yes**	No	No
2	2	2	Suitable for oily and greasy materials	1	2	2
1	1	1	Sand/gravel (dry)	1	1	1
1	1	1	Sand/gravel (wet)	1	1	1
1	1	1	Hard coal (crude)	1	1	1
1	1	1	Lignite/overburden	1	1	1
2	1	1	Ores	1	1	1
2	2	1	Sinter	1	1	1
2	2	2	Clay	1	1	1
1	1	1	Cement	1	1	1
3	2	2	Gypsum	1-2	1-2	1-2
3	2	2	Waste	2	1	1

V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
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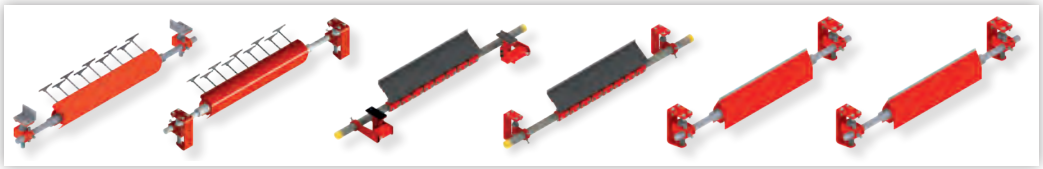
OVERVIEW TABLE:
U-Series

REMACLEAN – belt cleaning system for use on the belt



Type	HM-U7	HM-U8	HM-U9	HM-U10	HM-U11 R-70	HM-U11 R-85
Belt width (mm)	400-1400	800-2000	650-2000	400-2200	400-2000	400-2000
Type of cleaning system	F	F	F	F	V, F	V, F
For belt speeds up to (m/s)	4,0	6,5	6,5	6,5	3,5	6,5
Suited for reverse operation	No	No	No	No	Yes	Yes
Type of scraper bar	S	S	S	S	S	S
Scraper bar material	HM	HM	HM	HM	HM	HM
Max. operating temp. (°C)	60	60	70	70	-40 +70	-40 +70
ATEX version available	Yes**	Yes**	No	No	Yes**	Yes
Suitable for mechanical fasteners	Yes**	Yes**	No	No	No	No
Available for food applications	Yes	Yes	No	No	Yes**	Yes
Suitable for oily and greasy materials	2	2	3	3	2	2
Sand/gravel (dry)	1	1	2	2	1	1
Sand/gravel (wet)	1	1	1	1	1	1
Hard coal (crude)	1	1	2	2	1	1
Lignite/overburden	1	1	3	3	2	2
Ores	1	1	2	2	1	1
Sinter	1	1	2	2	1	1
Clay	1	1	3	3	2	2
Cement	1	1	1	1	1	1
Gypsum	2-3	2-3	3	3	2-3	2-3
Waste	3	3	3	3	2-3	2-3

V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
1 = recommendable, **2** = limited suitability, **3** = not recommendable

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OVERVIEW TABLE:
Belt Cleaning Brushes

REMACLEAN – Belt Cleaning Brushes system for use on the belt

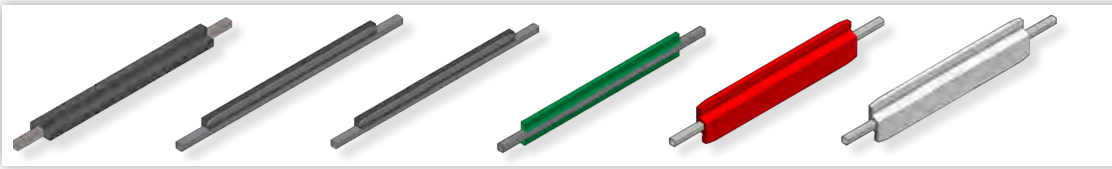
Type	SGB-RB	SGB-PUR	TMB	GRB
Belt width (mm)	400-1400	400-2000	400-1400	400-2000
Type of cleaning system	H	H	F	F
For belt speeds up to (m/s)	2,5	3,5	6,5	2,5
Reverse operation	Yes*	Yes	Yes	Yes
Brush material	Gummi	PUR	Kunststoff	Gummi
Max. operating temp. (°C)	70	70	80	70
Suitable for ATEX	No	Yes**	Yes**	Yes**
Suitable for mechanical fasteners	Yes	Yes	No	No
Available for food applications	No	Yes**	Yes	Yes
Suitable for oily and greasy materials	2	1	3	2
Sand/gravel (dry)	1	1	2	1
Sand/gravel (wet)	1	1	3	1
Hard coal (crude)	1	1	3	1
Lignite/overburden	1	1	3	2
Ores	1	1	3	2
Sinter	2	1	3	3
Clay	2-3	2-3	–	–
Cement	1	1	2	1
Gypsum	3	3	–	–
Waste	2-3	2-3	2-3	3

V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
1 = recommendable, **2** = limited suitability, **3** = not recommendable

* with rotation speed switch EX motors available on request

OVERVIEW TABLE:
Scraper Bars

REMACLEAN – belt cleaning system for use on the belt



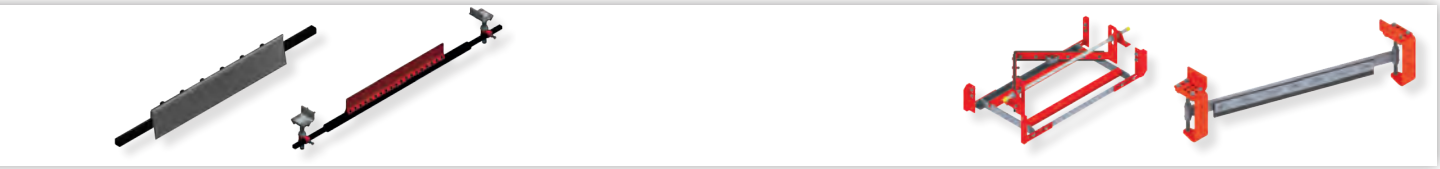
Type	KWA	M	C	PUR	PUR LIGHT	PUR LIGHT LEB
Belt width (mm)	500-1600	400-1600	400-1600	500-1600	500-1400	500-1400
Type of cleaning system	V, H	V, H	V, H	V, H	V, H	V, H
For belt speeds up to (m/s)	3,5	3,5	3,5	3,5	2,5	2,5
Suited for reverse operation	No	Yes	Yes	Yes	No	No
Type of scraper bar	D	D	D	D	D	D
Scraper bar material	Rubber	Rubber-metal	Rubber-ceramic	PUR	PUR	PUR
Max. operating temp. (°C)	70	70	70	70	70	70
ATEX version available	Yes	No	No	Yes	Yes	No
Suitable for mechanical fasteners	Yes	No	No	Yes	Yes	Yes
Available for food applications	Yes	No	No	No	No	Yes
Suitable for oily and greasy materials	1	3	3	2	2	2
Sand/gravel (dry)	3	2	3	2	3	–
Sand/gravel (wet)	2	2	3	2	2	–
Hard coal (crude)	2	2	2	2	2	–
Lignite/overburden	3	2	2	2	2	–
Ores	3	2	3	2	2	–
Sinter	3	2	3	3	3	–
Clay	2	2	2	2	2	–
Cement	2	2	2	1	1	–
Gypsum	3	2	2	2	2	–
Waste	2	1	1	1	1	–

V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
1 = recommendable, **2** = limited suitability, **3** = not recommendable

The recommendations listed as examples of the use of the products are based on experience gained in technical applications but are not an assurance of their suitability for specific application areas. They do not release the user from checking the matter himself. In individual cases, we recommend to obtain technical application advice – experienced REMA TIP TOP specialists are available for this purpose.

OVERVIEW TABLE:
Inner Belt Scrapers

REMACLEAN – belt cleaning systems for use on the inside of the belt



HML HR	SGF	Type	RB-IGP	RB-IGD
400-1200	500-2000	Belt width (mm)	500-1600	500-1600
V, H	V, H	Type of cleaning system	G	G
3,5	2,5	For belt speeds up to (m/s)	3,5	3,5
No	Yes	Reverse operation	No	Yes
D	Finger	Type of scraper bar	D	D
HM	PUR	Scraper bar material	Rubber	Rubber
300	70	Max. operating temp. (°C)	70	70
Yes	No	Suitable for ATEX	Yes	Yes
No	Yes	Suitable for mechanical fasteners	Yes	Yes
Yes	No	Available for food applications	Yes	Yes
1	1	Suitable for oily and greasy materials	1	1
1	1	Sand/gravel (dry)	1	1
1	1	Sand/gravel (wet)	1	1
1	1	Hard coal (crude)	1	1
1	1	Lignite/overburden	1	1
1	1	Ores	1	1
1	1	Sinter	1	1
2	3	Clay	1	1
1	1	Cement	1	1
2	3	Gypsum	1	1
1	3	Waste	1	1

V = Pre-cleaner, **H** = Main cleaner, **G** = Basic cleaner, **F** = Fine cleaner, **S** = Segments, **D** = Full-length bar, **HM** = hard metal, **PUR** = Polyurethane
1 = recommendable, **2** = limited suitability, **3** = not recommendable

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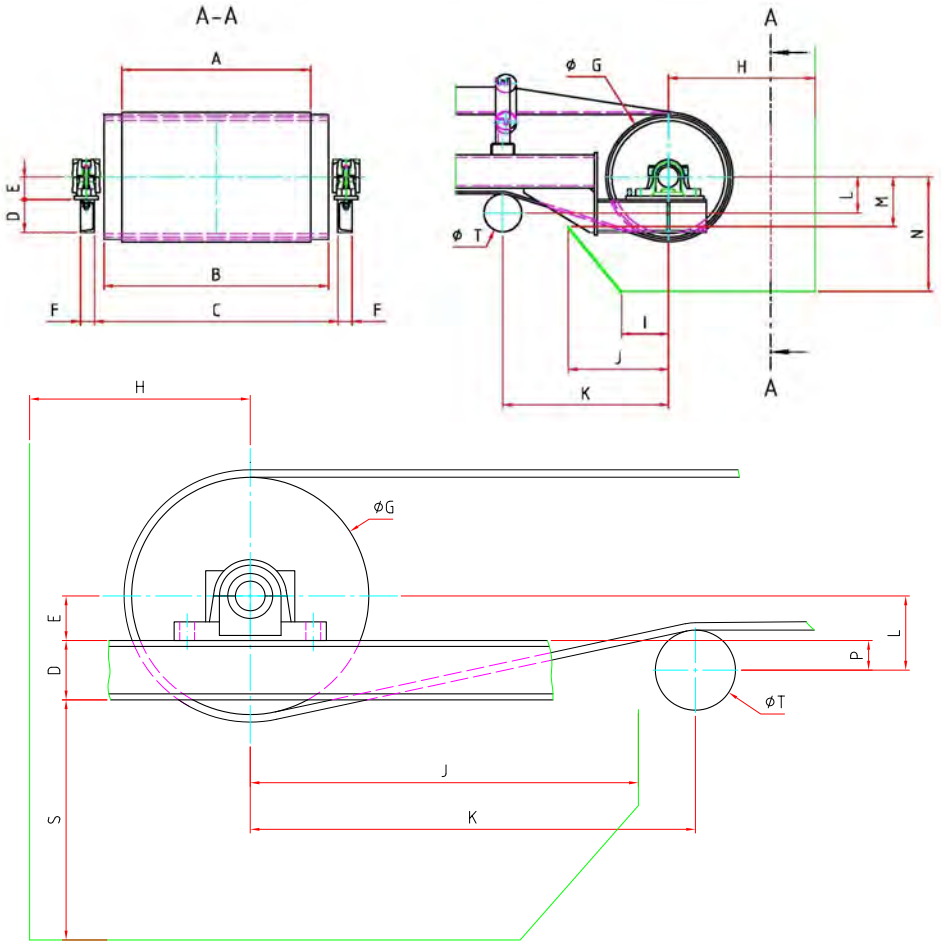
Dimensions:
REMACLEAN Belt Cleaning System

Customer:	Contact person:
Phone:	Fax:
Address:	Country (representation):
	E-Mail:



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Remarks:

QUESTIONNAIRE:
REMACLEAN Belt Cleaning System

Customer:	Contact person:
Phone:	Fax:
Address:	Country (representation):
	E-Mail:

Information about conveyor equipment

Belt designation:	Type / brand:		Belt thickness (mm):
Belt width (mm):	Axial distances (m):		Belt speed (m/s):
Belt surface:	☐ New	☐ Used / smooth	☐ Damaged ☐ Heavily damaged
Belt splice:	☐ Cold	☐ Hot	☐ Mechanical/Type
Pulley diameter (mm):		Pulley shape:	☐ Cylindric ☐ Curved
Pulley Lagging ☐ Yes ☐ No	Attachment	☐ Cold ☐ Hot	☐ Mechanical
Pulley lagging designation:		Reverse mode:	☐ Yes ☐ No
Operating time:	hours per day		hours per week
Temperature at the position of the belt cleaning system:	°C		
Remarks:			

Material conveyed

		Lump size (mm):	
Moisture content: %	Tends to dry or harden		☐ Yes ☐ No
Quartz content:	☐ Yes, %	☐ No	
Sticky admixture content:			

Installed cleaning system

Manufacturer:	Type:
Assessment of the cleaning performance:	
Remarks:	

Information prepared by:

Place and date	Name	Signature

Recommendation for a new belt cleaning system

Type:	Ref. No.:
Remarks:	

Recommendation prepared by:

Place and date	Name	Signature

Your local contact

// ONE BRAND // ONE SOURCE // ONE SYSTEM

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