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

// SERVICE // MATERIAL PROCESSING // SURFACE PROTECTION // AUTOMOTIVE

REMA TIP TOP
REMACLEAN Belt Cleaning Systems

Editor

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Operating and working instructions, product information and general instructions on the vulcanization properties of natural and synthetic rubber should be followed carefully. The mechanical and physical values presented for our products only apply to the material listed (without bonding layer and without fabric) based on the accompanying inspections for approval; these represent statistical product data, but not guaranteed product properties. Detailed technical data sheets for each single product are available upon request. The weight indications (kg/m², kg/m, etc.) solely represent statistical values and are not necessarily identical to the actual weights. The weights indicated are merely guidelines for the handling, transport and application of our products. The dimension tolerances are based on part 5 of DIN 7715, classification P3 (admissible dimension tolerances for sheets) and DIN ISO 3302-1, classification M4 (molded parts made of soft-rubber). Other tolerances of specific products for special applications are subject to a mutual agreement and must be stipulated in a special contract. Products containing hazardous substances are labeled in accordance with the regulations (EG) No. 1907/2006 for the classification, packaging and labeling of hazardous materials and preparations.

In order to preserve product properties, the storage conditions indicated in DIN 7716 should be followed (including storing the product in the original package and in an area that is dry, cool and dark).

REMA TIP TOP
REMACLEAN

REMA TIP TOP
Your capable partner for conveyor belt cleaning

Increase your productivity – with REMACLEAN conveyor belt cleaning systems from REMA TIP TOP!
The cleaning of conveyor belts is a subject that is often neglected by many plant operators. Optimal cleaning, however, contributes to the economic operation of the plant, because interruptions to production process caused by contamination can lead to inefficiency and even to the entire conveying system coming to a halt.

In addition, inadequate cleaning of the belt brings additional cost, for example through increased wear on pulleys or belt, loss of bulk material and expenses for manual cleaning-up work.

Reduced in plant availability and maintenance costs that can be avoided are no longer acceptable to operators.
The demands placed on the manufacturers of conveyor belt cleaning systems are therefore clearly formulated:
- Optimum cleaning results while at the same time protecting the belt
- Efficient installation and servicing
- A long service life of the belt cleaning system

Conveyor belt cleaning is a complex matter. Several factors must be simultaneously taken into account in order to achieve good and economical cleaning results:
- Selection of a suitable belt cleaning system for the particular application
- Combination of the right systems (pre- and fine cleaning)
- Optimum position of the belt cleaners in the conveyor system
- Installation by trained technicians
- Determination and execution of regular service activities by trained technicians

If any one of these points is not taken into account 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 choices, installation and servicing 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 dense service network guarantees the availability of trained technicians – anytime. Our modern training center for conveyor belt systems in Nauen, near Berlin, has both seminar rooms for the teaching of theoretical knowledge and models for practical training (installation, servicing, etc.).

SCRAPER RUBBER
REMACLEAN 60 and 70

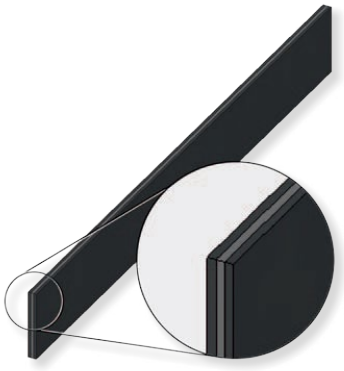
Due to its excellent abrasion-resistance and high elasticity, our special rubber materials. **REMACLEAN 60** and **REMACLEAN 70** are perfectly suitable and achieve significantly longer service life compared to conventional rubber materials. The scraper rubber is mounted on the system's existing scraper system and when new 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
- May be used in ATEX installations.

SCRAPER RUBBER
REMACLEAN CAB

REMACLEAN CAB consists of three layers with different Shore hardnesses: two hard outer layers surround a soft core. This combination allows intensive and yet protective conveyor belt cleaning. At the same pressure against the conveyor belt, the cleaning effect of **REMACLEAN CAB** is approximately 20 % better than standard qualities. Service life is often several times longer than that of conventional scraper rubber materials. **REMACLEAN CAB** is mounted on the existing scraping system of the equipment and when new can protrude from the bracket by more than one and a half times its own thickness.



Product	REMACLEAN CAB green	REMACLEAN CAB gray	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
- May be used in ATEX installations.

REMA TIP TOP offers a wide range of scraper bars for cleaning of conveyor belt top covers on the return side of the conveyor. Scraper bars made of rubber or polyurethane are available.

SCRAPER BARS AND TENSION UNITS

REMACLEAN KWA

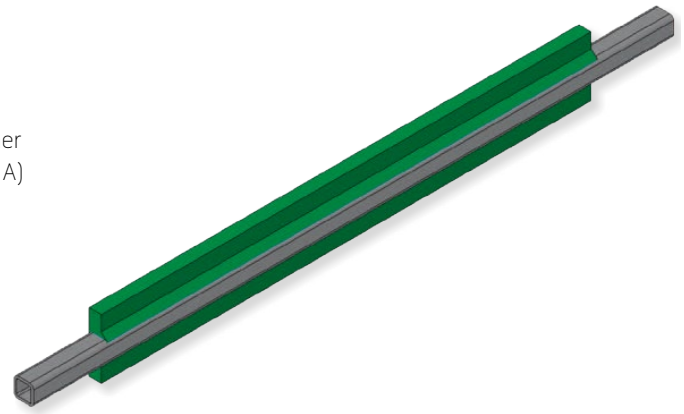
Benefits and features

- Three scraper segments which can be used one after the other
- Belt-friendly scraper with good cleaning efficiency
- Long service life due to highly abrasion resistant rubber material
- Cost-effective due to excellent price-performance ratio
- Installation is recommended with **REMA TIP TOP** tension units INNOVATION, PRECISION or STANDARD
- For belt speeds 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 – 1800	500 – 1400
Features	Highly abrasion resistant	Self-extinguishing, antstatic and moderate oil resistant

* German underground approval: LOBA No. 18.43.21-91-24
- Polish underground approval: Dopuszczenie
- WUG Katowice No. B/1724/2007

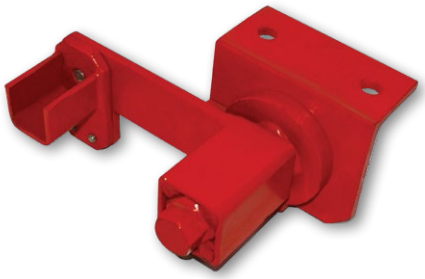
SCRAPER BARS AND TENSION UNITS
REMACLEAN PUR



Benefits and features

- Two scraper segments which can be used one after the other
- Long service life of REMATHAN polyurethane (90 ±5 Shore A)
- Oil and grease resistant
- For belt widths 500 - 1600 mm
- Installation is recommended with **REMA TIP TOP** tension units INNOVATION, PRECISION or STANDARD
- Suitable for use with mechanical fasteners
- Suitable for shuttle belt operation in combination with tension unit INNOVATION
- For belt speeds up to 3.5 m/s

SCRAPER BARS AND TENSION UNITS
Precision



PRECISION

Same features as STANDARD and additional:

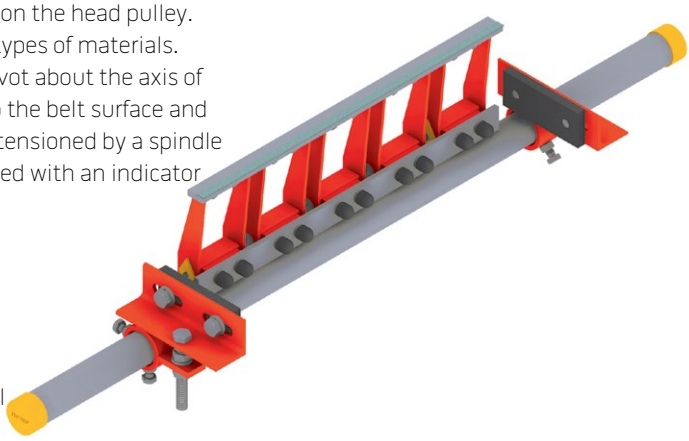
- Protection against damage to the conveyor belt if the scraper is worn out
- Adjustable pitch of scraper blade
- Pivoting mechanism for precise 90° adjustment of scraper to belt
- For belt widths 400 - 1800 mm

REMA TIP TOP F Series systems are designed for belt cleaning on the head pulley. Systems with tungsten carbide blades or scraper blades made of polyurethane are available.

REMACLEAN F SERIES

REMACLEAN HM-F2

Belt scraper system with individual elastically supported tungsten carbide blades and a spindle-type tension unit for cleaning of conveyor belt top covers on the head pulley. The **REMACLEAN** HM-F2 system is universally applicable for many types of materials. The individual elastically supported tungsten carbide blades can pivot about the axis of the joint. Therefore the tungsten carbide blades optimally adjust to the belt surface and guarantee effective and belt friendly cleaning. The scraper blade is tensioned by a spindle type tension unit. The outer tungsten carbide segments are equipped with an indicator showing the contact pressure of the blades.

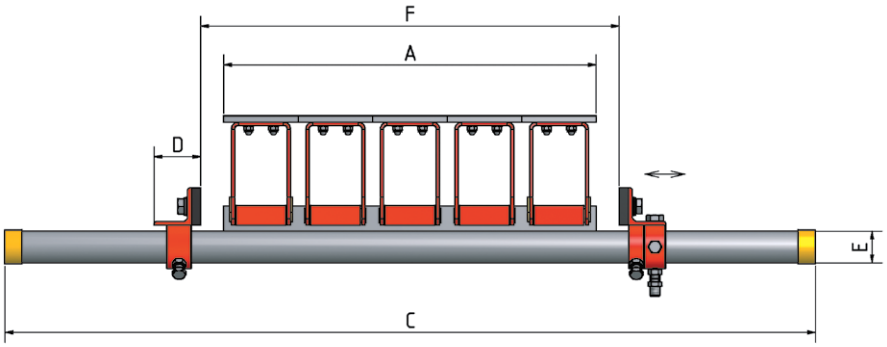


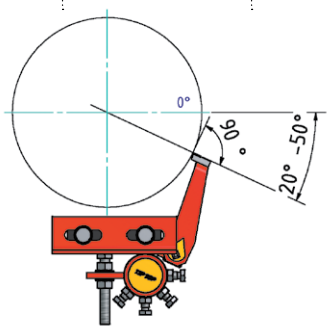
Benefits and features

- High cleaning efficiency due to optimum adaptability of the blades (individual bearings) to the conveyor belt surface
- Long service life due to highly wear resistant materials
- Installation below pulley axis (outside of main material flow)
- Open design of segments and torsion elements to ensure material run off
- Easily adjustable, low maintenance through rubber spring elements
- Constant and ideal contact pressure; easily adjustable and display readable
- Tension unit can also be mounted outside the conveyor construction
- Suitable for shuttle belt conveyors
- For belt speeds up to 3 m/s (for belt widths 1600 and more up to 2.5 m/s)

REMACLEAN HM-F2 Technical data

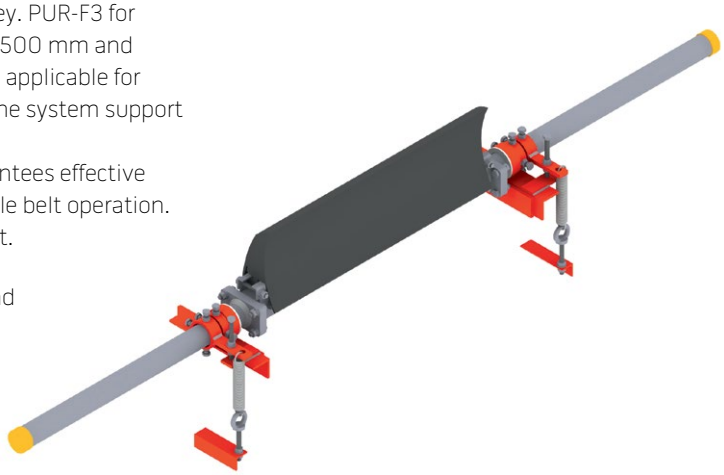
Belt width (mm)	Cleaning width (mm)	Length of support tube (mm)	Bracket width (mm)	Diameter of support tube (mm)	Assembly width (mm)	Number of segments L=120 mm (units)	Number of segments L=240 mm (units)
	A	C	D	E	F		
400	360	1400	75	51	460 - 1200	3	--
500	480	1500	75	51	480 - 1300	4	--
650	600	1650	75	51	700 - 1450	5	--
800	720	1750	75	60	820 - 1550	6	--
900	840	1900	75	60	940 -1700	7	--
1000	960	2000	115	60	1060 - 1800	8	--
1200	1080	2200	115	76	1180 - 1950	9	--
1400	1200	2400	115	76	1300 - 2150	10	--
1600	1440	2600	115	101	1540 - 2350	8	2
1800	1680	2800	115	101	1780 - 2550	10	2
2000	2000	3000	115	101	1900 - 2850	11	2





REMACLEAN F SERIES
REMACLEAN PUR-F3 / PUR-F4

Primary belt scraper system with a polyurethane blade and a spring lever tension unit for the cleaning of conveyor belt top covers on the head pulley. PUR-F3 for pulley diameters 220 mm or up and PUR-F4 for pulley diameters 500 mm and up. The **REMACLEAN** PUR-F3 and PUR-F4 systems are universally applicable for many types of materials. The polyurethane blade is attached to the system support structure yet can revolve around its own axis, if necessary.
The scraper blade optimally adjusts to the belt surface and guarantees effective and belt friendly cleaning. Suitable for crowned pulleys and shuttle belt operation. Precise contact pressure is achieved by a spring lever tension unit.

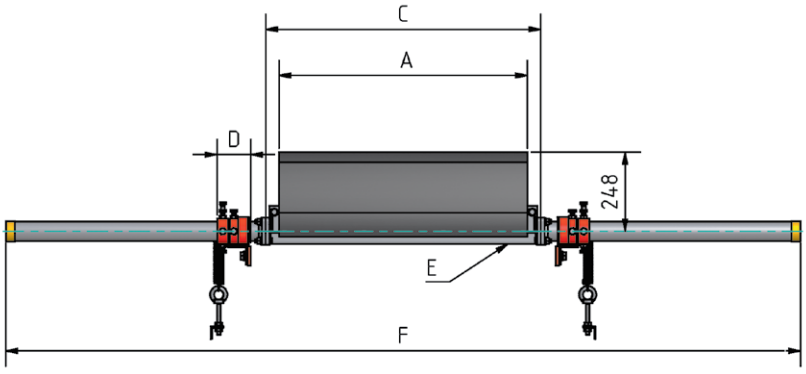


Benefits and features

- The polyurethane blade optimally adjusts to the belt surface and guarantees effective cleaning
- Long service life is achieved by using highly wear resistant polyurethane material
- Suitable for use with mechanical fasteners
- Easy installation and adjustment, the spring lever tension unit requires minimum maintenance
- Uniform and optimal contact pressure is easily set
- Can be used for shuttle belt operation and crowned pulleys
- For belt speeds up to 4.0 m/s

REMACLEAN PUR-F3 / PUR-F4 Technical data

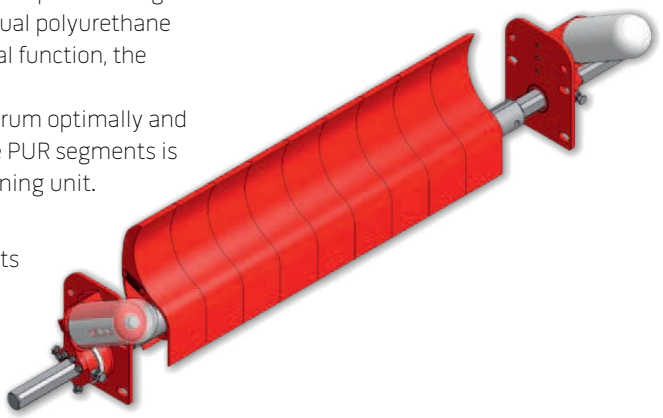
Belt width (mm)	Length of polyurethane blade (mm)	Length of system support tube (mm)	Bracket width (mm)	Type of system support tube (mm)	Length of support tube (mm)
	A	C	D	E	F
400	360	300	105	80x60x4	1558
500	480	400	105	80x60x4	1688
650	600	600	105	80x60x4	1888
800	720	700	105	80x60x4	1988
1000	840	900	105	80x60x4	2604
1200	960	1100	105	80x60x4	2804
1400	1080	1300	105	80x60x4	3004
1600	1200	1500	105	80x60x4	3204
1800	1440	1700	105	80x60x4	3404
2000	1680	1900	105	80x60x4	3604



REMACLEAN F SERIES

REMACLEAN PUR-F5

Conveyor belt cleaning system with a scraper consisting of polyurethane segments and a lever tensioning system with a compression spring for cleaning the conveyor belt load-bearing side on the head pulley. **REMACLEAN** PUR-F5 is intended for pre-cleaning at the head pulley for drum diameters of 240 mm and above. The individual polyurethane segments are permanently attached to the support. Thanks to a special function, the segments can always move elastically.
This allows the segments to contact the conveyor belt surface at the drum optimally and ensures effective and gentle cleaning. The entire scraper strip with the PUR segments is exactly pretensioned at one or both sides by means of the lever tensioning unit.



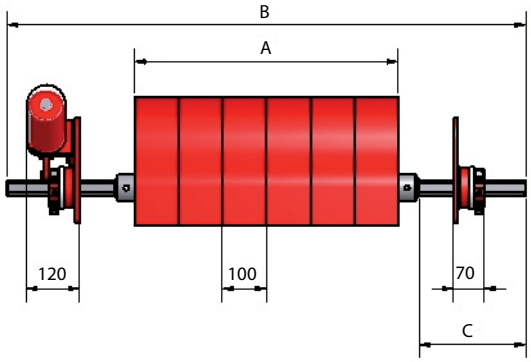
Benefits and features

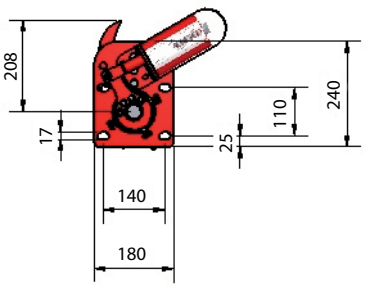
- High cleaning effect due to optimal contact of polyurethane segments (individually mounted) to conveyor belt surface
- Long service life due to use of highly abrasionresistant polyurethane
- Each segment is connected to the system support unit by means of a quick-release fastener
- Segment width 100 mm
- Easy to fit and adjust, low-maintenance
- Even, optimal contact pressure – easy to adjust and define due to the length of the cylinder springs. A pre-tensioning indicator is fitted.
- The system support unit and the segments are designed for the heaviest loading
- Also suitable for reverse operation

REMACLEAN PUR-F5 Technical data

Conveyor belt width (mm)	Width of PUR segment strip (mm)	Length of system support (mm)	Length of distance pieces (mm)
	A	B	C
500	400	1000	250
650	600	1180	250
800	700	1430	300
1000	900	1650	300
1200	1100	1870	300
1400	1300	2090	300
1600	1500	2310	300

Single-sided pre-tensioning up to BB = 1400 mm is possible. From BB = 1600 mm upwards, pre-tensioning must be carried out from both sides. The maximum belt speed is 4 m/s.



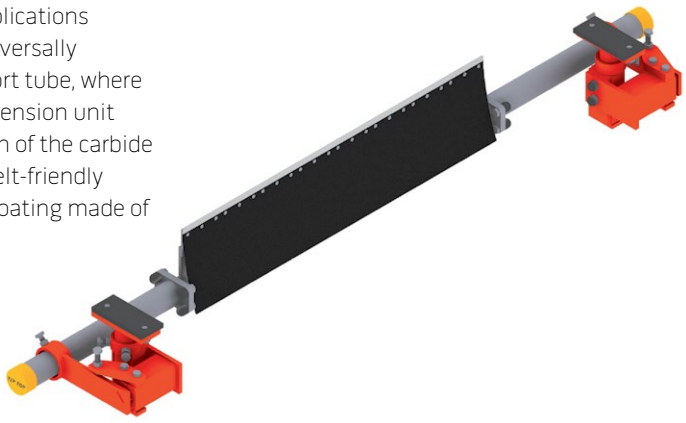


REMA TIP TOP U Series systems are designed for cleaning of conveyor belt top covers on the return side of the conveyor (behind the head pulley). Combination with a primary scrapers system of the F Series is recommended to achieve optimal cleaning efficiency. The U Series provides various cleaning systems for almost any application. All systems utilize tungsten carbide blades for the cleaning of the belt. Systems with a single blade as well as individually supported tungsten carbide segments are available.

REMACLEAN U SERIES

REMACLEAN HM-U1

REMACLEAN HM-U1 is a belt cleaning system for belt return side applications consisting of tungsten carbide segments. **REMACLEAN** HM-U1 is universally applicable for many types of materials. The solid design of the support tube, where the tungsten carbide segments are mounted, and the spindle-type tension unit allow the system to be used for belt speeds up to 4.5 m/s. The design of the carbide blade perfectly adjusts to the belt, thus providing an effective and belt-friendly cleaning. The design of the carbide blade, as well as its anti-caking coating made of polyethylene, guarantee extended service life and high reliability.



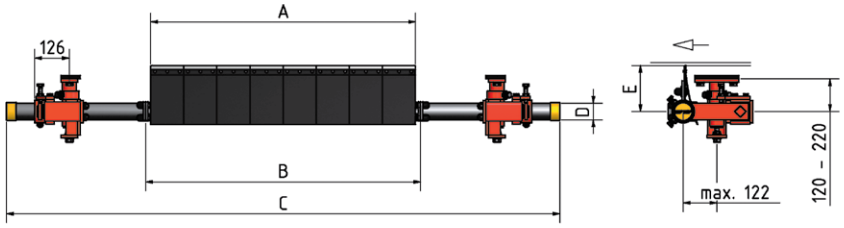
Benefits and features

- Superior cleaning performance
- Long service life achieved by premium carbides
- Modular system consisting of support tube, carbide segments, support tube extensions and spindle-type tension units
- Constant and ideal contact pressure that is easy to adjust
- Arbor kits can be mounted inside or outside the conveyor construction
- Adjustable by one person without special knowledge
- Damage of the belt edges is prevented by rounded outer carbide segments
- Can be upgraded for use in shuttle belt operation
- Special version for temperatures up to 120° is optional
- For belt speeds up to 4.5 m/s

REMACLEAN HM-U1 Technical data

Belt width (mm)	Cleaning width (mm)	Length of system support tube* (mm)	Length of support tube (mm)	Diameter of support tube (mm)	Height of scraper blade (mm)	CCC** L=120 mm (units)
	A	B	C	D	E	
400	360	396	1400	51	160	3
500	480	516	1500	51	160	4
650	600	636	1650	51	160	5
800	720	756	1750	63	167	6
1000	960	996	2000	63	167	8
1200	1080	1120	2700	76	175	9
1400	1200	1240	2900	76	175	10
1600	1440	-	3100	101.6	183	12
1800	1680	-	3300	101.6	183	14
2000	1800	-	3500	101.6	183	15
2200	2040	-	3750	101.6	183	17
2400	2280	-	4000	101.6	183	19

* B = C as from belt width 1600. ** CCC = Cemented carbide cores



REMACLEAN U SERIES
REMACLEAN HM-U2

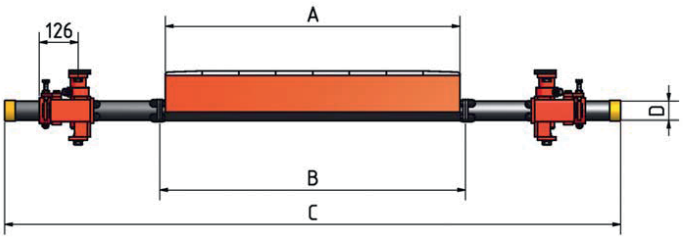
REMACLEAN HM-U2 is a belt scraper system for belt return side applications with a tungsten carbide blade.The **REMACLEAN** HM-U2 system is universally applicable for many types of materials. The solid design of the support tube, where the tungsten carbide blade is mounted, allows the system to be used for belt speeds up to 4.5 m/s. The tungsten carbide blade optimally adjusts to the belt surface and guarantees effective and belt friendly cleaning. The design of the scraper blade and the anti caking coating made of highly wear resistant REMATHAN ensure long service life and high reliability.

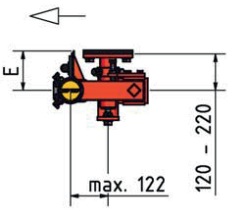
Benefits and features

- Excellent cleaning efficiency
- Long service life by using high quality tungsten carbides
- Modular system consisting of support tube, scraper blade, support tube extension and spindle kit with torsion pressure support
- Flange connection for easy and quick installation
- Spindle kits can be mounted inside or outside the conveyor construction
- Constant and ideal contact pressure can be easily adjusted
- Anti caking coating made of highly wear resistant REMATHAN ensures smooth material run off
- Belt friendly cleaning due to rounded edges of the outer blades
- Can be upgraded for use in shuttle belt operation
- For belt speeds up to 4.5 m/s

REMACLEAN HM-U2 Technical data

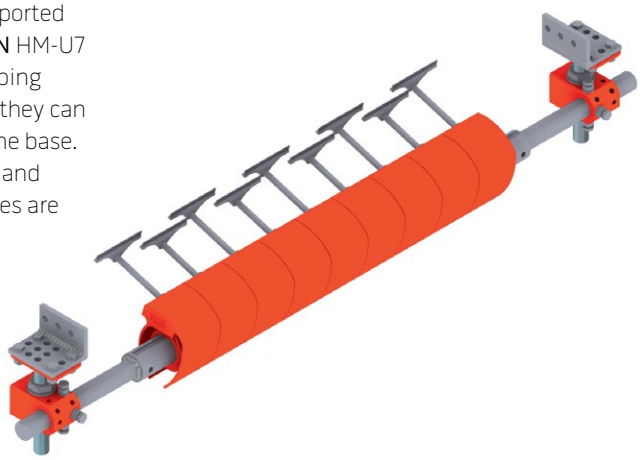
Belt width (mm)	Cleaning width (mm)	Length of system support tube* (mm)	Length of support tube (mm)	Diameter of support tube (mm)	Height of scraper blade (mm)
	A	B	C	D	E
500	480	516	1500	51	130
650	600	636	1650	51	130
800	720	736	1750	60.3	137
1000	840	996	2000	60.3	137
1200	1080	1120	2700	76	145
1400	1200	1240	2900	76	145





REMACLEAN U SERIES
REMACLEAN HM-U7

Belt cleaning system for belt return side applications with elastically supported tungsten carbide blades and a spindle-type tension unit.The **REMACLEAN** HM-U7 system is universally applicable for many types of materials. The overlapping tungsten carbide blades achieve optimal degree of cleaning. In addition, they can rotate around their own axis and swing dynamically with the polyurethane base. Thereby the tungsten carbide blades optimally adjust to the belt surface and guarantee effective and belt friendly cleaning. The tungsten carbide blades are guided via a spindle-type tension unit.

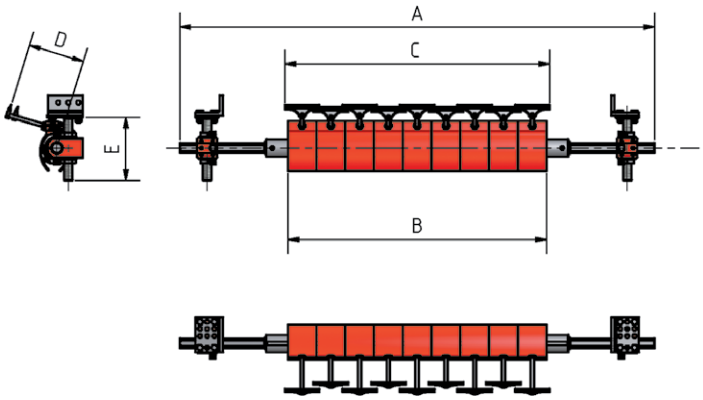


Benefits and features

- Belt friendly cleaning produced by the sagging function of the segment bars
- Precise adjustment of the required contact pressure
- Top quality tungsten carbide blades provide long service life
- Compact design
- Tool free installation / exchange of segments
- Tungsten carbide blades in stainless steel design
- Combines the benefits of polyurethane and tungsten carbide
- Suitable for bulk material applications in all sectors of industry
- For belt speeds up to 2.5 m/s

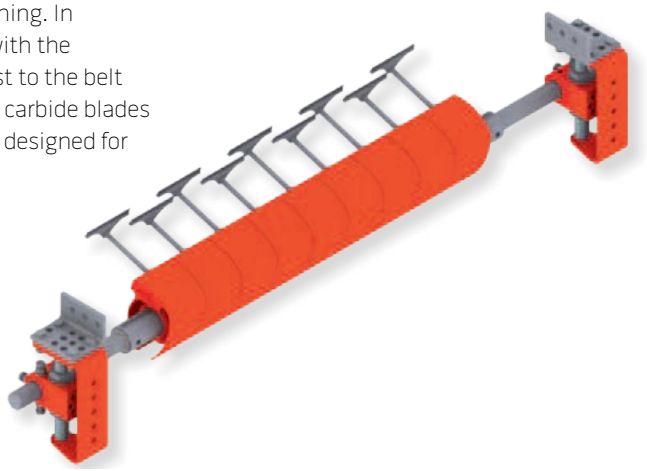
REMACLEAN HM-U7 Technical data

Belt width (mm)	Cross beam length (mm)	Width of segment base (mm)	Cleaning width (mm)	Max. length tungsten carbide blades (mm)	Height of tension unit (mm)	Number of segments (per unit)
	A	B	C	D	E	
400	890	400	420	170	220	4
500	1000	400	420	170	220	4
650	1180	600	620	170	220	6
800	1430	700	720	170	220	7
1000	1650	900	920	170	220	9
1200	1870	1100	1120	170	220	11



REMACLEAN U SERIES
REMACLEAN HM-U8

Belt scraper system for belt return side applications with elastically supported tungsten carbide blades and a spindle-type tension unit with reinforcement bracket. The **REMACLEAN** HM-U8 system is universally applicable for many types of materials. The overlapping tungsten carbide blades achieve optimal degree of cleaning. In addition, they can rotate around their own axis and swing dynamically with the polyurethane base. Thereby the tungsten carbide blades optimally adjust to the belt surface and guarantee effective and belt friendly cleaning. The tungsten carbide blades are guided via a spindle-type tension unit. The reinforced tension unit is designed for heavy-duty operating conditions.

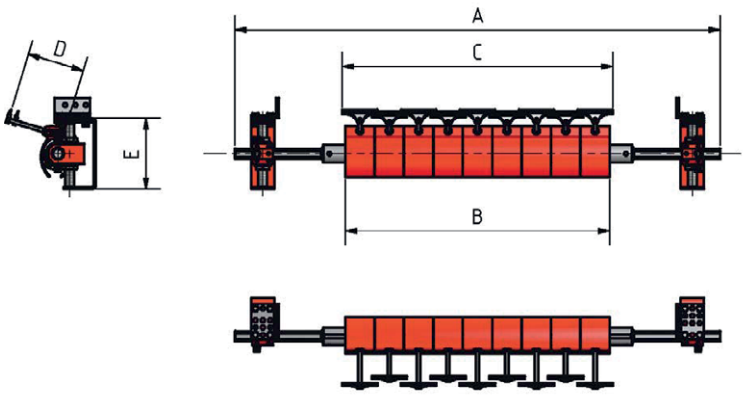


Benefits and features

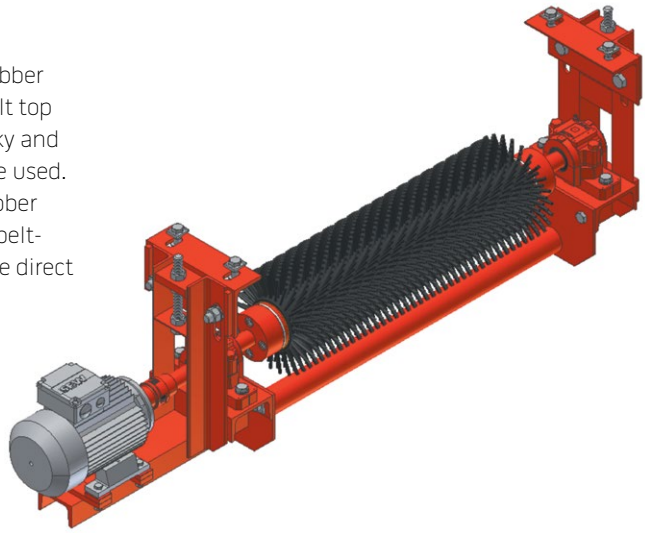
- Belt friendly cleaning produced by the sagging function of the segment bars
- Precise adjustment of the required contact pressure
- Top quality tungsten carbide blades provide long service life
- Compact design
- Tool free installation / exchange of segments
- Tungsten carbide blades in stainless steel design
- Heavy-duty design for demanding applications
- Suitable for bulk material applications in all sectors of industry
- For belt speeds up to 4.0 m/s

REMACLEAN HM-U8 Technical data

Belt width (mm)	Cross beam length (mm)	Width of segment base (mm)	Cleaning width (mm)	Max. length tungsten carbide blades (mm)	Height of tension unit (mm)	Number of segments (per unit)
	A	B	C	D	E	
800	1430	700	720	170	240	7
1000	1650	900	920	170	240	9
1200	1870	1100	1120	170	240	11
1400	2090	1300	1320	170	240	13
1600	2310	1500	1520	170	240	15
1800	2530	1700	1720	170	240	17



BELT CLEANING BRUSHES
REMACLEAN GRB



REMACLEAN GRB is a belt cleaning system with an electrically-driven rubber brush for the cleaning of sticky and powdery materials from conveyor belt top covers. **REMACLEAN** GRB is universally applicable for many types of sticky and powdery materials. When caking is heavy, a primary belt cleaner must be used. The solid design allows application for belt speeds up to 2.5 m/s. The rubber bristles optimally adapt to the belt surface and guarantee effective and belt-friendly cleaning. The rubber brush, the robust steel construction and the direct drive ensure long service life and high reliability.

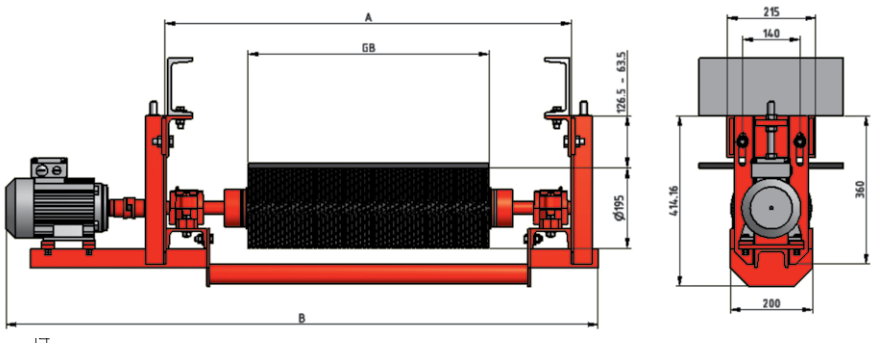
Benefits and features

- Very good cleaning efficiency also on belts with damaged top covers
- Ideal in combination with a primary belt cleaning system
- Direct drive from electric motor via TSCHAN clutch
- Long service life through use of high-quality rubber compound
- Modular system consisting of brush, mounting frame with brackets and electric motor
- Constant and ideal contact pressure easiliy adjustable by using tension screws
- Adjustable by one person, specialist knowledge not required
- Belt friendly cleaning
- Suitable for shuttle belt conveyors
- Belt speeds up to 2.5 m/s

REMACLEAN GRB Technical data

Belt width (mm)	Brush width (mm)	Assembly width (mm)	Total width (mm)	Motor capacity (kW)
GB		A	B	
400	400	707	1152	0.55
500	500	986	1500	0.55
650	650	1110	1544	0.75
800	800	1377	1814	0.75
1000	1000	1512	1952	0.75
1200	1200	1950	2435	1.1
1400	1400	2150	2635	1.1
1600	1600	2350	2905	1.1
1800	1800	2550	3105	1.1
2000	2000	2750	3305	1.1

Voltage of electric motor: 230/380 V. Other models also available on request.
Models with V rubber bristles (self-extinguishing, moderately oil and grease resistant) as well as in FOOD, WHITE (food quality) on request.



Inner belt scrapers ensure that no material gets between belt and pulley and therefore prevents major damage to the belt as well as the pulley.

INNER BELT SCRAPER SYSTEMS REMACLEAN RB-IGD

Benefits and features

- Diagonal scraper for return side applications at the running side to protect the pulley from material
- A scraper rubber made of REMACLEAN CAB is mounted in the frame
- The required contact pressure is achieved by the spindle-type tension unit
- Easy installation, adjustment and maintenance of the system
- All steel parts are coated with COROPUR (red)
- Available for underground applications (ATEX)

INNER BELT SCRAPER SYSTEMS REMACLEAN RB-IGP

Benefits and features

- V-Plough scraper system for return side applications at the running side to protect the pulley from material
- Frame with integrated idlers and scraper plough (rubber bar made of REMACLEAN CAB)
- The frame construction levels off the belt and thus guarantees optimum alignment of the scraper and ensures efficient cleaning
- The required contact pressure is created by the weight of the system
- An auxiliary wheel mounted on the scraper prevents contact of the steel frame with the belt surface after the rubber bar is worn out
- All steel parts are coated with COROPUR (red)
- Available for underground applications (ATEX)

OVERVIEW: F SERIES
REMACLEAN Primary belt cleaning systems




TYPE	HM-F2	PUR-F3	PUR-F4	PUR-F5
Belt width (mm)	400-2000	400-1600	800-2000	800-1600
Type of cleaning system	V, H	V	V	V, H
For belt speeds up to (m/s)	4.5	4	4	4
Suitable for shuttle belt operation	yes	yes	yes	yes
Blade type	S	D	D	S
Blade material	HM	PUR	PUR	PUR
Max. operating temperature (°C)	120	60	60	60
ATEX version available	no	yes	yes	yes
Suitable for mechanical fasteners	no	yes	yes	yes
Available for food industry	no	no	no	yes
Suitable for oily and greasy materials	3	2	2	2
Sand/gravel (dry)	1	1	1	1
Sand/gravel (wet)	1	1	1	1
Coal (raw)	1	1	1	1
Lignite/tailing	1	1	1	1
Ore	1	2	2	2
Sinter	1	2	2	2
Clay	1	2	2	2
Cement	1	1	1	1
Gypsum	3	2	2	3
Waste	3	2	2	3

V = Precleaner, H = Main cleaner, G = Basic cleaning, F = Fine cleaning, S = Segments, D = Seamless blade, HM = Tungsten carbide, 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. These recommendations do not obviate the need for the user to check this. In individual cases, we recommend that technical application advice is taken – experienced **REMA TIP TOP** specialists are available for this purpose.

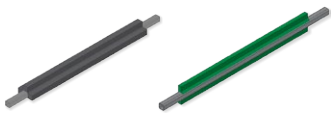
OVERVIEW: U SERIES
REMACLEAN Belt cleaning systems for return side applications

TYPE	HM-U1	HM-U2	HM-U7	HM-U8
Belt width (mm)	400-2400	500-1400	400-1400	800-2000
Type of cleaning system	V, H	V, H	F	F
For belt speeds up to (m/s)	4.5	4.5	2.5	4
Suitable for shuttle belt operation	yes*	yes*	no	no
Blade type	D	D	S	S
Blade material	HM	HM	HM	HM
Max. operating temperature (°C)	120**	60	60	60
ATEX version available	no	no	yes**	yes**
Suitable for mechanical fasteners	no	no	yes**	yes**
Available for food industry	yes**	no	yes	yes
Suitable for oily and greasy materials	1	2	2	2
Sand/gravel (dry)	1	1	1	1
Sand/gravel (wet)	1	1	1	1
Coal (raw)	1	1	1	1
Lignite/tailing	1	1	1	1
Ore	1	1	1	1
Sinter	1	1	1	1
Clay	1	1	1	1
Cement	1	1	1	1
Gypsum	1-2	1-2	2-3	2-3
Waste	1	1	2	2

V = Precleaner, H = Main cleaner, G = Basic cleaning, F = Fine cleaning, S = Segments, D = Seamless blade, HM = Tungsten carbide
* = with reversing stop
** = as special version
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. These recommendations do not obviate the need for the user to check this. In individual cases, we recommend that technical application advice is taken – experienced REMA TIP TOP specialists are available for this purpose.

OVERVIEW: SCRAPER BARS

REMACLEAN Belt cleaning systems for return side applications



TYPE	KWA	PUR
Belt width (mm)	500-1800	500-1600
Type of cleaning system	V, H	V, H
For belt speeds up to (m/s)	3.5	3.5
Suitable for shuttle belt operation	no	yes
Blade type	D	D
Blade material	Rubber	PUR
Max. operating temperature (°C)	70	70
ATEX version available	yes	yes
Suitable for mechanical fasteners	yes	yes
Available for food industry	yes	no
Suitable for oily and greasy materials	1	2
Sand/gravel (dry)	3	3
Sand/gravel (wet)	2	2
Coal (raw)	2	2
Lignite/tailing	3	2
Ore	3	2
Sinter	3	3
Clay	2	2
Cement	2	1
Gypsum	3	2
Waste	2	1

V = Precleaner, H = Main cleaner, G = Basic cleaning, F = Fine cleaning, S = Segments, D = Seamless blade, PUR = Polyurethane
1 = recommendable, 2 = limited suitability, 3 = not recommendable
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OVERVIEW: BRUSHES AND INTERNAL RETURN SIDE CLEANERS

REMACLEAN Belt cleaning systems for return side applications

TYPE	GRB
Belt width (mm)	400-2000
Type of cleaning system	F
For belt speeds up to (m/s)	2.5
Suitable for shuttle belt operation	yes
Blade material	Rubber
Max. operating temperature (°C)	70
ATEX version available	yes
Suitable for mechanical fasteners	no
Available for food industry	yes
Suitable for oily and greasy materials	2
Sand/gravel (dry)	1
Sand/gravel (wet)	1
Coal (raw)	1
Lignite/tailing	2
Ore	2
Sinter	3
Clay	-
Cement	1
Gypsum	-
Waste	2

V = Precleaner, H = Main cleaner, G = Basic cleaning,
F = Fine cleaning, S = Segments, D = Seamless blade,
HM = Tungsten carbide, PUR = Polyurethane
1 = recommendable, 2 = limited suitability,
3 = not recommendable
* with rotation speed switchover
EX motors are available upon request.

OVERVIEW: IG
REMACLEAN Belt cleaning systems for internal return side applications

TYPE	RB-IGP	RB-IGD
Belt width (mm)	500-1600	500-1600
Type of cleaning system	G	G
For belt speeds up to (m/s)	3.5	3.5
Suitable for shuttle belt operation	no	yes
Blade type	D	D
Blade material	Rubber	Rubber
Max. operating temperature (°C)	70	70
ATEX version available	yes	yes
Suitable for mechanical fasteners	yes	yes
Available for food industry	yes	yes
Suitable for oily and greasy materials	1	1
Sand/gravel (dry)	1	1
Sand/gravel (wet)	1	1
Coal (raw)	1	1
Lignite/tailing	1	1
Ore	1	1
Sinter	1	1
Clay	1	1
Cement	1	1
Gypsum	1	1
Waste	1	1

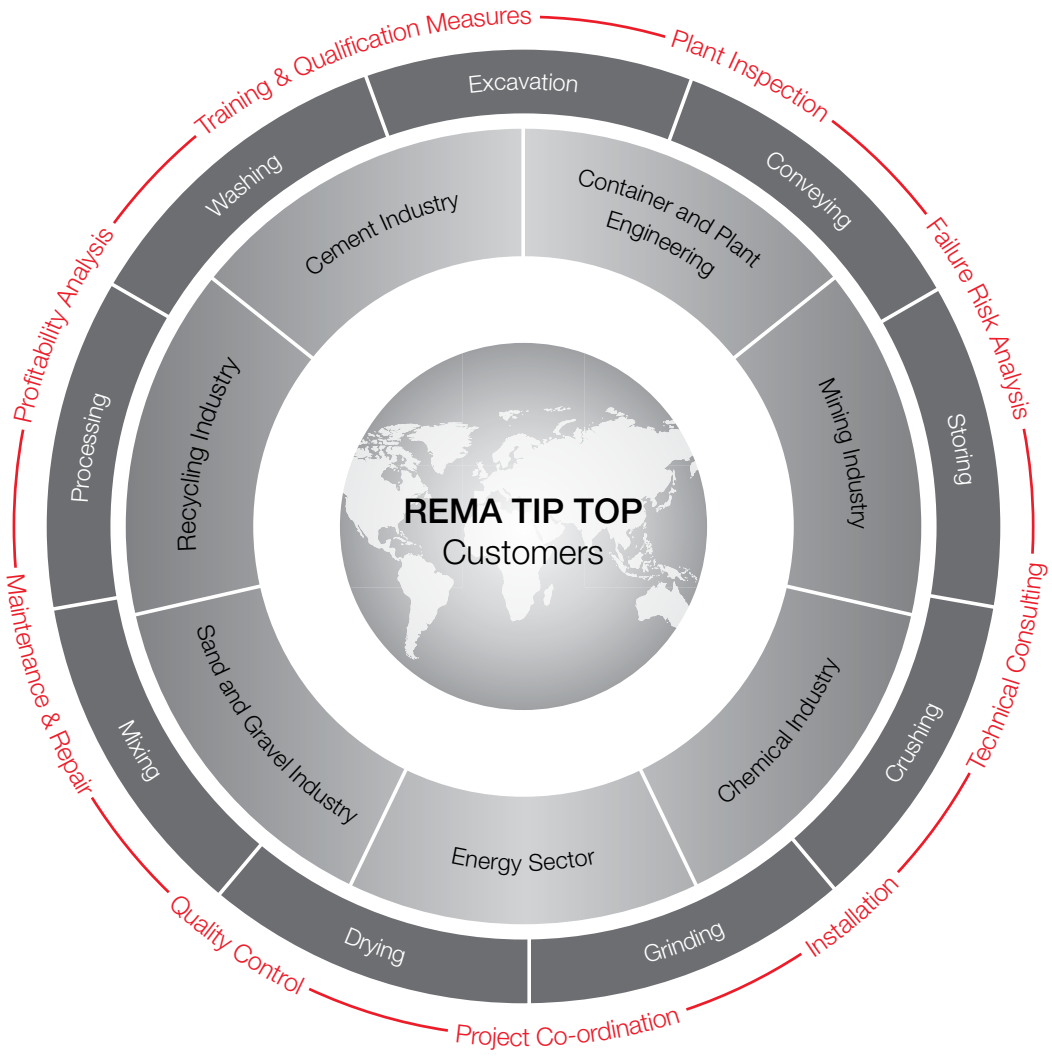
V = Precleaner, H = Main cleaner, G = Basic cleaning, F = Fine cleaning, S = Segments, D = Seamless blade
1 = recommendable, 2 = limited suitability, 3 = not recommendable
The recommendations listed as examples of the use of the products are based on experience gained in technical applications but are not an assurance of their suitability for specific application areas. These recommendations do not obviate the need for the user to check this. In individual cases, we recommend that technical application advice is taken – experienced **REMA TIP TOP** specialists are available for this purpose.

In addition to our broad portfolio of products, **REMA TIP TOP** offers comprehensive services in the areas of project management and maintenance and servicing management, as well as integrated service programs. Our worldwide sales and service network lets us plan and realize large-scale projects regionally, nationally and internationally. These cover initial project planning and implementation of the right application for the job through to quality assurance and follow-on maintenance and servicing tasks. To accomplish this, we rely on the know-how of our own experienced specialists and, if necessary, also on that of specialised subcontractors.

REMA TIP TOP SERVICE AND MAINTENANCE PROGRAMS
Turnkey projects and TCO (total cost of ownership) models

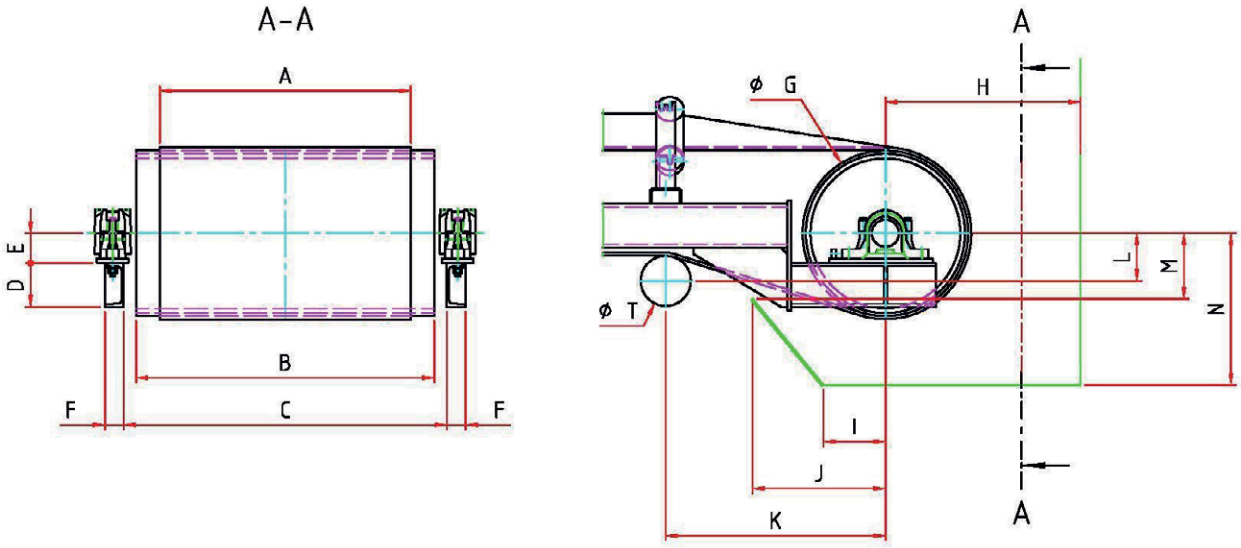
Individually developed project and service models based on:

- Maintenance management
- Inspection and servicing of conveyor and processing systems
- Optimization programs for identification and implementation of potential improvements
- Preventative maintenance and servicing activities
- Training programs for customer employees
- Reliable plant operation by guaranteeing a specific system availability
- Continuous improvement process (CIP)
- Aimed at increased productivity
- Ongoing search for improvements by the specialists responsible
- Flexible, simple payment system through service fees
- High investment in R&D to supply the most modern products for each application
- Internal/external procurement of all customer and application-specific components and materials – the right product for each application
- Individual pricing and conditions models to fit customer expectations



CHECKLIST

For mounting belt cleaning system



A	
B	
C	
D	
E	
F	
G	
H	
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K	
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M	
N	
T	

Customer	
Belt type	
Scraper type	
Material to be conveyed	
Belt surface	
Belt splice	
Pulley lagging	
For shuttle belt conveyo	
Belt return	
Chute construction	
Safety precautas require	
Power supply	
Contact	
Date	
Made by	

QUESTIONNAIRE
REMACLEAN - Belt Cleaning System

Customer: _____ **Contact person:** _____

Phone: _____ **Fax:** _____

Address: _____ **Country (representation):** _____

_____ **E-mail:** _____

Information about conveyor equipment:

Belt designation: _____ Type / make: _____

Belt width (mm): _____ Distance between pulleys (m) _____ Belt speed (m/s): _____

Belt surface: ❒ New ❒ Used / smooth ❒ Damaged ❒ Heavily damaged

Shuttle belt conveyor: ❒ Yes ❒ No

Belt splice: ❒ Cold ❒ Hot ❒ Mechanical

Operating time: _____ hours per day _____ days per week

Temperature at the site where the belt cleaning system is to be used: °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: _____

Estimate of cleaning performance: _____

_____

_____

Remarks: _____

_____

Information prepared:

_____

Place and date Name Signature

New cleaning system recommended:

Type: _____ Ref. No.: _____

Remarks: _____

_____

_____

_____

_____

Recommendation prepared:

_____

Place and date Name Signature

NOTES

Your local contact

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

// SERVICE
// MATERIAL PROCESSING
// SURFACE PROTECTION
// AUTOMOTIVE

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