

Fitting Instructions

REMACLEAN SGB

CONVEYOR BELT CLEANING BRUSH For use on conveyor belts





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1. General safety information

- The directions in this manual must be observed without restrictions. Upon infringement, no liability of any kind is accepted by the manufacturer for resulting damage emerged to people or machines. Because conveyor belt scrapers/brushes are generally incorporated into conveyor belt systems, manufacturers or operators building such belt cleaners into these systems must observe the provisions of machine-building directives.
- REMA TIP TOP conveyor belt scrapers/brushes may only be used at the points designated for this purpose and in accordance with regulations concerning the cleaning of conveyor belts.
- It must always be clarified with the operator under which conditions the scraper/brush is to operate (e.g. underground, in a quarry, etc.)
- In all branches of industry where no special requirements exist, the REMACLEAN SGB brush can be used as required in a temperature range of -40° to + 60° C. The max conveying speed of 2.5 m/s must not be exceeded.
- The REMACLEAN GRB brush is intended for use on normal conveyor belts and conditionally on cleated conveyor belts with a maximum cleat height of 25 mm. If cleats higher than 25 mm are used, premature wear of the bristles will take place and the brush may be damaged.
- To maintain the guarantee, assembly and initial startup should be carried out by the specialists from the manufacturer, since these employees, on the basis of their training, experience and tuition are in a position to carry out the required activities and identify any potential danger while doing so.
- In all assembly work, accident prevention laws and local authority regulations must be observed.

2. Esential safety information

- These safety notes make no claim to be complete. Please contact the manufacturer should questions or problems arise.
- The **REMACLEAN SGB** conveyor belt cleaning brush (SGB for short) corresponds to state of the art technology at the time of delivery. It may be built in and operated only when it is in faultless condition.
- Retrofitting, modifications or rebuilds are basically forbidden and in individual cases require consultation with the manufacturer.



2.1 REMACLEAN-SYSTEMS in ATEX variant

Cleaning units lie on the belt surface and remove, similarly to a scraper, residual material from the belt running past.

The cleaner frame is constructed from steel. The cleaner units can consist of polyurethane, rubber, ceramics or hard metal.

The polyurethane and rubber units can be manufactured from an electrostatically conducting material with a surface resistance of less than $10^9 \Omega$.

The conveyor belt cleaning systems correspond to Device Group I Category M2 and Device Group II Category 2D according to RL 94/9/EG.

Device Group I Category M2 comprises devices that are designed and constructed such that their operation conforms to the key parameters given by the manufacturer, guaranteeing a high degree of safety. Devices in this category are intended for use in underground mines as well as their above-ground systems that are endangered by pit gas and/or inflammable dusts. In the event of an explosive atmosphere, the devices must be switched off. The equipment explosion precautions within this category ensure the required degree of safety in normal operation, also under heavy operating conditions and especially under rough handling and changing environment influences.

Device Group II Category 2D Category 2 comprises devices that are designed and constructed such that their operation conforms to the key parameters given by the manufacturer, guaranteeing a high degree of safety. Devices in this category are intended for the use in areas, in which it is expected that an explosive atmosphere consisting of gases, vapors, misting and/or dust/air-mixtures can occasionally occur. The equipment explosion precautions within this category ensure that, even with frequent device failures or fault conditions that are normally to be expected, the required degree of safety is maintained.

2.1.1 Requirements for safe use

The maximum temperature of all surfaces of the conveyor belt cleaning system is exclusively dependent on its use, especially the speed of the conveyor belt. Relative speeds greater than $6.5 \text{ m} \cdot \text{s}^{-1}$ are not permitted when conveyor belt cleaning system are used in conveyor systems. The maximum surface temperature of 150°C must not be exceeded.

The ball races of the conveyor belt brushes must be fitted with temperature monitoring units that automatically switch off the drive motor when a temperature of 150°C is reached. The installed monitoring and switch-off units must correspond to IPL 1 conforming to EN 13463-6. The functioning of the temperature monitoring units must be regularly checked.

The temperature monitoring equipment is not part of the scope of delivery.



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In exceptional cases, a maintenance plan for lubrication of the bearings and inspection of the brushes can be created. In this case, and if the operator agrees and can meet the requirements, temperature monitoring may not be necessary.

Quickly rotating (min speed > 1 m/s) metallic parts must be protected against falling debris through suitable measures such as covers.

All conducting parts of the belt cleaning system must be earthed with a resistance to earth of less than $10^6 \Omega$.

Conveyor belt cleaning systems in Group II Category 2D may be used only with dusts whose minimum ignition energy is greater than 10 mJ and whose minimum ignition temperature (dust cloud) is greater than 300°C and whose minimum ignition temperature (deposited dust) does not exceed 225°C.

For the conveyor belt cleaning system in Group I Category M2, only components made from electrostatically conductiong plastic approved for underground coal mining may be used.

Conveyor belt cleaning systems in Group I Category M2 may only be used on conveyor belts that can be switched off should explosive atmosphere encountered

2.1.2 Identification marking

The marking (well visible, readable and durable) contains at least the following information:

- Name and address of the manufacturer
- CE designation
- Machine number
- Year of manufacture

ξx∕ΙΜ2









3. REMACLEAN SGB brush components

- Item 1: Brush body with shaft
- Item 2: Upper mounting frame for motor side and support side
- Item 3: Lower mounting frame for motor side and support side
- Item 4: Electric motor with gearbox
- Item 5: Mounting boxes
- Item 6: Shaft on motor side
- Item 7: Shaft on outer bearing side
- Item 8: Gearbox
- Item 9: Tensioner bolts
- Item 10: Fixing bolts
- Item 11: Brush clamping bush mounting bolts
- Item 12: Brush body support tube fixing screw
- Item 13: Rubber bristles
- Item 14: Mounting frame separator bolts
- Item 15: Bearing attachment bolt on support side



Illustration 2

The cleat cleaning brush developed by us consists of a support tube (Item 12) and rubber bristles bonded to the tube (Item 13). The rubber bristles have a crosssection of 10 x 10 mm. The rubber is a particular compound developed for this purpose by REMA TIP TOP in Poing.

The rubber bristles are bonded to the tube using a special process to be able to handle the particular loads caused by cleaning a cleated conveyor belt. For this reason, the shaft can only be fitted with new bristles by us in the factory, since special conditions of cleanliness must be maintained.





Illustration 3

The brush body is made of a special rubber compound that can also be used for media containing greases and oils.

4. Operation conditions, purpose and task oft he REMACLEAN SGB brush

- The REMACLEAN SGB brush is a unit for the cleaning of contaminated surfaces on the load-bearing side of a conveyor belt with cleats of up to 25 mm in height. The brush consists of six rows of bristles that are permanently attached to a shaft.
- The brush is driven electrically by a motor/gearbox assembly.
- The REMACLEAN SGB brush is always fitted directly behind the discharge drum in accordance with the assembly instructions

The REMACLEAN SGB brush is a cleaning unit intended for use on the surface of the conveyor belt that is fitted with cleats. It should be noted that special functionality of the REMACLEAN SGB brush is unique and guarantees long-term operation.

- An optimal cleaning effect is only attainable if the conveyor belt surface is undamaged and if the connections are in good condition.
- The REMACLEAN SGB brush can, however, also be used on belts with mechanical connections or damaged conveyor belt surfaces. Cleaning is not quite as effective under such special circumstances. Faster wear of the brush must also be taken into account in such cases.





Illustration 4

- Care must always be taken that the conveyor belt runs smoothly behind the drum. If the conveyor belt coming off the drum forms large depressions or waves in the transverse direction, a counter-pressure roller must be installed in the direct vicinity of the REMACLEAN SGB brush. The more smoothly the conveyor belts runs, the better is the cleaning performance.
- The maximum conveyor belt speed of 2.5 m/s must not be exceeded.
- Higher operational speeds may be possible in agreement with the manufacturer depending on the usage and the product.
- The REMACLEAN SGB brush must always rotate in the opposite direction to the direction of travel of the conveyor belt.
- The REMACLEAN SGB brush may to some extent be used in reverse operation. In such a case, care must be taken that the rotational direction is correspondingly changed.
- Please contact the manufacturer in such cases. The brush must always rotate in the opposite direction to the direction of travel of the conveyor belt.

5. Fitting preparation

• Before starting any work on the conveyor belt cleaner, the power supply of the conveyor system must be turned off by the operator's personnel and secured against unauthorized turning on.



- The correct switching off of electrical power supply to the conveyor belt is to be checked (and possibly in additionally secured) by the fitter who will install the belt cleaning system.
- The fitter must provide tools and materials that are in good condition.
- When using an oxyacetylene torch or other welding equipment, check must be made as to whether regulations (explosion protection, firedamp and fire protection, etc.) are being adhered to.
- In welding and cutting work, heat-sensitive parts, for example the conveyor belt, must be covered over.
- In all assembly work, accident prevention laws and local authority regulations must be observed.
- A high cleaning effect is attainable only when the belt coating is in good condition (no leaching-out and/or bad connection).

The conveyor belt must run smoothly at the position where the cleaner is to be installed. Where appropriate, the belt tension must be adjusted or an additional carrier/pressure roller installed.

The **REMACLEAN SGB** brush is a conveyor belt cleaning system that is installed at a free point on the return side. The best functioning is obtained when installed directly behind the discharge drum. At this point, the conveyor belt runs relatively smoothly and gives the brush sufficient resistance to allow this to be pre-tensioned with the necessary contact pressure. If this is not the case, a counter-pressure roller must be installed at the mounting point.

It should be taken into account that in the direct vicinity of the discharge drum the side transfer walls may very often stand in the way. In such cases, then corresponding cutouts must be prepared for the brush. This change to the construction must be arranged beforehand with the plant operator.

The supply of electrical power should be discussed with the operator. Connection of the electric motor to the mains net must be carried out by one of the operator's electricians.

Any applicable regulations of both country and the operator must be taken into account. Corresponding fuse protection for the motor and the protective first must be supplied.



6. Fitting position

First it should be determined, at which place the REMCLEAN SGB brush can be built in. At the same time the cleaned off transported material should fall on to the next conveyor belt system, into a bunker or onto a steep chute.

It is absolutely necessary that at the fitting position of the REMACLEAN SGB brush, the conveyor belt is well-tensioned and runs smoothly. A possible fitting position is shown in Illustration 5.



Illustration 5

If the REMACLEAN SGB brush is used further than 200-300 mm from the axis of the discharge drum, a counter-pressure roller should be fitted in the direct vicinity of the brush, see Illustration 6.



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Illustration 6

The mounting point where the brush will be used must now be considered. The following basic prerequisites must be taken into account:

- Breadth of conveyor structure onto which the mounting boxes (Item 5) must be bolted
- Possible distance of the brush to conveyor belt (Lx) to ensure correct operation of the brush





Illustration 7



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Since the brush has a diameter of 330 mm, the axis of the shaft of the brush (Item 1) must be at 165 mm (+0, -5 mm) from the surface of the conveyor belt after fitting. If the distance Lx is more than 165 mm when new, the brush bristles will not touch the surface of the conveyor belt. This will not give good cleaning effectiveness.

It should be noted that after the brush bristles are worn down, the brush must be retensioned in the direction of the conveyor belt by around 50 mm.

This means that the mounting boxes (Item 5) must be fitted at a defined distance Lx to the load-bearing side of the conveyor belt, otherwise the brush will not work correctly.

The mounting boxes (Item 5) of the REMACLEAN SGB brush should be mounted at 90° to the conveyor belt surface.

7. Fitting steps

- Find a suitable point on the conveyor structure. If necessary, prepare corresponding side windows in the walls of the transfer point, but always taking into account the necessary distance Lx that must be maintained. See Illustration 9. The axes of the lower drill holes for the M10 bolts of both mounting boxes (Item 5) must be at a distance to the return side of the conveyor belt of Lx = 120 - 180 mm (+/- 10 mm).
- 2. For both mounting boxes (Item 5), prepare the drill holes for the eight M10 bolts.
- 3. Then bolt on the mounting boxes. The other mounting frames (Item 2) are already bolted into the mounting boxes (Item 5). Now screw out the mounting frame (Item 2) to the maximum amount using the tensioner bolts (Item 9).
- 4. Now measure the distance Ly between the upper mounting frames (Item 2) of the mounting boxes (Item 5).
- 5. The shaft can now be shortened. Take care that the brush is positioned in the middle of the conveyor belt.
- 6. Now screw together all the parts of the REMACLEAN SGB brush:
 - Electric motor with the lower mounting frame (Item 3)
 - The brush (Item 1)
 - Screwed together the support side mounting frame (Item 3) and the bearing.

On the support side, the bearing on the shaft (Item 7) can still move freely and this freedom of movement can be used for further fitting with both upper mounting frames (Item 2).





Illustration 8

- 7. Lift up the resulting unit and screw it into the already mounted fitted mounting boxes (Item 5), from which the upper mounting frames (Item 2) jut out, with the bolts (Item 14).
- 8. Then tighten all brush fitting bolts and the tensioner bolt (Item 11).

The REMACLEAN SGB brush is now pre-installed, hanging under the conveyor belt.

8. Final assembly, pre-tensioning

- 1. The REMACLEAN SGB brush is now pre-tensioned using both tensioning nuts (Item 9) on the mounting boxes (Item 5).
- 2. Screw in the tensioning nuts (Item 9) on both sides of the mounting boxes (Item5) until the brush touches the surface of the conveyor belt with one row of bristles.
- 3. The brush must always run parallel to the conveyor belt.
- 4. Then tighten down the brush using four tightening bolts (Item 10) per side. The mounting frames Items 2 and 3 now form one fixed unit.
- 5. Join the shaft (Item 7) with the bearing by tightening the attachment bolt (Item15) on the support side on the bearing.

Jetzt erfolgt die Vorspannung der **SGB – Bürste** mit den beiden Spannmuttern **Pos. 9** an den Montagekonsolen **Pos. 5**.

6. The operator's electricians must now connect the brush to the electrical maintenance and fuse it accordingly. Set and check the direction of rotation of the brush.



- 7. Switch on the brush and observe how it operates on the moving belt.
- 8. The brush can be pooled closer to the conveyor belts using the tensioner bolts (Item 9) if necessary.
- 9. After the required pre-tensioning of the SGB brush has been carried out successfully, tighten the mounting bolts (Item 10). Check and re-tighten all other mounting bolts again.
- 10. The SGB brush is now ready to operate.

IMPORTANT: Too high contact pressure of the SGB brush leads to quicker wear of the bristles.

9. Reverse operation

The **SBG brushes** are also suited for reverse operation. The brushes can sustain a short return movement of the conveyor belt, for example that occurring after switching off the conveyor system.

In **reversible conveyor systems**, a counter-pressure roller should be fitted in the vicinity of the **SBG brush**. This ensures that at the mounting point of the brush, the conveyor belt is well-tensioned and runs smoothly, improving the operation of the brush.

Care must be taken that the direction of rotation of the brush is always chosen to match the direction of travel of the conveyor belt. If the **SGB brush** rotates in the same direction as the direction of travel of the conveyor belt, it cannot carry out its function and cleaned-off material will be ejected in the wrong direction!

Electrical control must be properly set up here. When the direction of travel of the conveyor belt changes, the direction of rotation of the brush must also change immediately.

IMPORTANT: The GRB brush must always rotate in the opposite direction to the direction of travel of the conveyor belt.

10. Maintenance and inspection

- Depending on the belt, the material being conveyed and the length of use, the REMACLEAN SGB brush should be checked and cleaned at regular intervals. In multi-shift operation, we recommend that that a daily visual inspection is made.
- We recommend that the REMACLEAN SGB brush is checked by a specialist after approximately 3 months.
- We recommend that the installed REMACLEAN SGB brush is checked and serviced by a specialist every 6 months. A maintenance contract with a servicing firm helps the operator to utilize the REMACLEAN SGB brush in optimal fashion.



- Where cleaning results are bad or insufficient, the wear of the bristles (Item 13) of the brush (Item 1) should be checked. If the length of the bristles is still sufficient, the REMACLEAN SGB brush can again be pre-tensioned on the conveyor belt until the bristles touch the surface of the belt. The bristles (Item 13) can be worn down to a length of 60 mm. Continued use of the REMACLEAN SGB brush with bristles worn down more than specified can lead to damage of the brush.
- The shorter the bristles, the higher the bending forces at the bonding point, and this can lead to separation of the bonded surfaces.
- When the minimum length of the bristles has been reached, the brush must be replaced. Important: It is not possible to bond the new bristles (Item 13) onto the steel body (Item 12) without using a vulcanization workshop.
- The brush body must also be exchanged together with the support tube (Item 12). During maintenance, the maintenance notes of the manufacturer of the motor and gearbox must be observed. You can find these notes on the Internet website *https://www.nord.com/cms/de/documentation/manuals/details_1139/detail_42075.jsp*



Illustration 9



11. Replacing the worn-down brush

When replacing the worn brush, disassembly is done in the reverse order as that for fitting the brush:

- 1. Loosen the attachment bolt (Item 10) on both sides.
- 2. Now screw in the tensioner bolts (Item 9) until the brush is around 165 mm from the conveyor belt.
- 3. Then tighten all brush fitting bolts and the tensioner bolt (Item 14).
- 4. Support the brush.
- 5. Take out the attachment bolts (Item 14) and separate the brush from the upper frame.
- 6. Place the separated unit on the floor.
- 7. Now separate the brush body (Item 1) from the shaft.

Attach the new brush body (Item 1) in the reverse order, noting the length Ly.For the further assembly of the unit and the pre-tensioning of the REMACLEAN SGB brush, please follow the points already described in the above sections.

Chapter 7. Fitting steps Chapter 8. Final assembly, pre-tensioning



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12. Overview drawings SGB brush

SGB hanging installation





The design of the brush bristles is based on a height of 32 mm.



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Belt width (GB)	Weight [kg]	А	В	С	D	Е	F	G	Power [kw]
400	85	300	12	M 10	115	700	610	260	1,1
500	87	400	12	M 10	115	800	610	260	1,1
600/650	91	550	12	M 10	115	950	610	260	1,1
750/800	96	700	12	M 10	115	1150	610	260	1,1
900	100	800	12	M 10	115	1250	580	235	1,5
1000/1050	104	950	12	M 10	115	1350	580	235	1,5
1200	113	1100	14	M 12	130	1600	640	270	2,2
1350/1400	117	1300	14	M 12	130	1800	640	270	2,2



SGB standing installation





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Delivery of the SGB is done as "hanging" version. When used in the "standing" version of the sliding pieces and the holding plate of the gear motor must be rotated by 180°.

13. SGB brushes and spare parts item numbers

REMACLEAN SGB

Item No.	Designation
5780655	REMACLEAN SGB for belt width 400 mm
5780662	REMACLEAN SGB for belt width 500 mm
5780679	REMACLEAN SGB for belt width 600 / 650 mm
5780686	REMACLEAN SGB for belt width 750 / 800 mm.
5780693	REMACLEAN SGB for belt width 900 mm.
5780703	REMACLEAN SGB for belt width 1 000 / 1 050 mm
5780710	REMACLEAN SGB for belt width 1 200.
5780727	REMACLEAN SGB for belt width 1 350 / 1 400 mm.

Replacement brushes for SGB

Item No.	Designation
5780734	Replacement cleaning brush for belt width 400 mm.
5780741	Replacement cleaning brush for belt width 500 mm.
5780758	Replacement cleaning brush for belt width 600 / 650 mm.
5780765	Replacement cleaning brush for belt width 750 / 800 mm.
5780772	Replacement cleaning brush for belt width 900 mm.
5780789	Replacement cleaning brush for belt width 1 000 / 1 050 mm.
5780796	Replacement cleaning brush for belt width 1 200 mm.
5780803	Replacement cleaning brush for belt width 1 350 / 1 400 mm.



14. Technical data

SGB brushes

Electric motor with circuit diagrams – see www.nord.com Nord gearbox with maintenance description – see <u>www.nord.com</u>

- REMALINE liner hardness: 64 Shore A (ISO 868-2003)- abrasion resistance:
- 50 mm³ (DIN ISO 4649-2006)
- Bevel gearbox motor 230/400 V, 50 Hz (other variants upon request)
- Protection class IP 55 (other variants upon request)
- Carry out electrical installation with motor protection switch fitted
- Motor rating BB 400 800: 1.1 kW
- Motor rating BB 900 1050: 1.5 kW
- Motor rating BB 1200 1400: 2.2 kW
- Rotation direction contrary to belt direction of travel
- Up to 2.5 m/s transport speed



Illustration 12



15. Risk assessment



Ing. Kurt Klopsch Fördertechnik GmbH

zertifiziert nach DIN EN ISO 9001
ermächtigter Sachverständiger BGZ Nr. 1378
Sicherheitsfachingenieur - autorisierter Händler
vereidigter Sachverständiger des Handwerks



Fachbetrieb für Krane · Hebezeuge · Fördertechnik

Ing. Kurt Klopsch Fördertechnik GmbH Friedrich-Engels-Straße 10 · 14770 Brandenburg / Havel

Certificate for the risk assessment to the Machinery Directive 2006/42/EG Anhang I und EN ISO 14121-1:2007

implementation:	René Neubert	
•	Ing. Kurt Klopsch Fördertechnik Gmbl	н
	Friedrich – Engel – Straße 10	
	D – 14770 Brandenburg a. d. Havel	
device description:	Beltcleaningsystem REMACLEAN	
nanufacturer	TIP TOP Industrievulkanisation Borna	GmbH
	NL Nauen	
	Siemensring 13 / 14641 Nauen	
	TIP TOP Saar GmbH	
	Am Kreuzgraben 24/26 / 66280 Sulzb	ach / Brefeld
device – Typ:	HM-F1 / HM-F2 / HM-F2-VA / HM –U1	1 / HM-U1 / HM-U1 VA HM-U2 /
	HM-U1S / HM- U3 / HM-U7 MF / HM U	U7 MF-V / HM-U7 V /
	HM-U7 / HM-U8 / HM-U8 MF /	
	HM-U8 MF-V / HM-U8 V / HM-U9 / HM	M-U10 / SGB / TMB / Innovation
	RB-IGD / RB-IGP / PUR-F5 / PUR-F3 HM-U500 / GRB / Precision	00 / PUR-F400 / PUR-F500 /
The manufacturer explains that the nachine directive. The product is thence, does not correspond yet the special technical documents 14121-1:2007 were provided. The PCO NL Nauen and can be required.	he abovementioned product is an incomplete main s planned exclusively to the installation in a machine to all demands of the machine directive. according to machine directive in 2006 / 42 / the re risk assessment are filed in the construction de seted to the view.	achine for the purposes of the hine or incomplete machine and, e EC appendix I and EN ISO lepartment of the company TIP
The authorised representative fo documents at reasonable desire	r the compilation of the technical documents un to the state places.	dertakes to transmit the
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	Ing Kurt Klopson	S
N	Fördertechnik Gökerené Ne	ubert = ?
	Sachverständiger · Fachbetrieb · Händler	384
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Sitz der Gesellschaft: Brandenburg / Havel Geschäftsführer: Dipl.-Ing. Kurt Klopsch Amtsgericht Potsdam HRB 5839

Friedrich-Engels-Straße 10 14770 Brandenburg / Havel



16. EU Declaration of Conformity



EC- Declaration of Conformity

Declaration of Incorporation for partly completed machinery

DA 9-8 Page 1 of 1

Manufacturer

TIP TOP Industrievulkanisation Borna GmbH NL Nauen Siemensring 13 D – 14641 Nauen Phone number: Fax number: E-Mail:

03321 / 455018 03321 / 455021 info.nauen@tiptop-borna.de

Description of the device

Devices - types - specifications

Conveyor belt cleaning system REMACLEAN HM-F1 / HM-F2 / HM-F2 VA/ HM-F2 HR/ HM-F2 S/ PUR-F3 / PUR-F4 / PUR-F5 / PUR-F5 V / PUR-F6 / PUR-F7 / PUR-F300 / PUR-F400 / PUR-F500 / HM-U1 / HM-U1 VA / HM-U1 HR / HM-U1 S / HM-U2 / HM-U3 / UNICLEAN HM-U3 / HM-U7 HM-U7 MF / HM-U7 MF V / HM-U7 V / HM-U8 / HM-U8 MF / HM-U8 MF V / HM-U8 V / HM-U9 / HM-U10/ HM-U11R / HM-U500 / HM-U500 TWIN/ RB-IGD / RB-IGD V / RB-IGD VA / RB-IGD HD / RB-IGP / RB-IGP-S / Innovation / TMB / SGB / SGB-PUR / SGF / GRB

Application field of the device

usage for cleaning the belt conveyor from bulk material

General provisions

Responsible for the documentation: Adam Puchalla - Borkumer Straße 81 - 45772 Marl

The design and the construction of these belt cleaning systems comply with the recognized rules of technology and prior art. With any unauthorized modification of the construction this declaration loses his validity.

Our systems are corresponding with general provisions such as EN standards, CEN reports and DIN standards. The conception and construction of the systems are based on the Machinery Directive 2006/42/EC for distributors and manufacturer and the ninth GPSGV-Machine Regulation. If necessary these regulations can be consulted.

The systems for usage in underground mines and in explosion-protected areas are produced according to the requirements of Directive 94/9/EC. Identification rules of the systems: CE Ex I M 2 / CE EX II 2 D T150° C.

Supplied products which are provided to the cleaning belt system as an additional attachment must have a certificate of conformity or a manufacturer's declaration. The assembly must comply with the requirements of the above-mentioned EC-Directive.

TIP TOP Industrievulkanisation Borna GmbH NL Nauen

Heiko Schettier

Nauen, November 02, 2021



17. DIN EN ISO 9001 Certification

