

MTX_H 50 mounted with 2x bale breaker augers	
MTX_H18 mounted with 2x bale breaker augers	
Holding bar inside MTX_H	
Flexible shear bar inside machine, not used with round bales, only for square bales	

SBB 2000 - Bale breaker augers



Machine number	1039-450, for MTX H 18-50
Custom tariff number	84369900
Machine paint	Standard ISO 12944-5 category C2. Machines, guards etc. comes in a color type RAL 3001 red suitable for indoor, non corrosive environment, aggregate that is used inside the machine is only with gray primer paint – paint is water and oil resistant -15 to +60 degrees C, surface purified with alkaline degreaser, painted with a machine primer and here after coating paint.
Standard	DS/EN 60204-1:2006 Safety of Machinery - Electrical Equipment of Machines, DS/EN ISO 13850 of January 29th 2007 emergency stop, DS/EN ISO 13849-1 safety-related parts of control systems, DS/EN 60204-1: 2006, cable installation method E
Machine function	The Cormall bale breaker augers are used to break up any bale before it is contained, mixed and feed out as a buffer, using straw bales as main material. They are made so they can be retrofit into any existing Cormall MTX mixer. The material is filled into the rear of the machine where the two bale breaker augers with flexible shear bars destroy bale stamps or round bale structure (round bales with shear bar) and fills the material into the two main augers that transport the material to the top.
Blockage and overload control:	The two augers are breaking the material against the flexible shear bar. Material can be contaminated and block and the material itself can course blocking of the augers. To overcome this are they both controlled with "augers reversed system": The frequency inverter on each motor measures the amp usage and makes the automatic reverse when the augers are overloaded. Value settings: overload above 80% of A_{max} for more than 0,7 sec. = stop, and rev. 2 sec and start again with small ramp.

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RISK ASSESMENT			
Machine	The machine can be only be us	ed with a MTX_H	I machine.
RISK ASSESMENT – ATEX	Material Feuchte Korngrösse < 500 µm Korngrösse < 125 µm Median-Wert µm UNtere Ex-Grenze Max Ex Überdruck Kst-Wert [bar m/s] Ex-Fähigkeit Zündtemp. Glimmtemperatur Wheat straw: We have primary evaluated the conditions that have to be full and have used the official figural As translation to the above table as follows: - Fragmentation must condition to the above table as follows: - Fragmentation of any straw are 196 % will be more than we conclude that no person is normal fire is possible.	Stroh (2213) - 96% 26% 200 µm 125 g/m³ 8,0 bar 47 St1 470 C 310 C e risk for dust expletiled with regard to res from the Germale sheet is the most at the most at the sheet is the sheet is the sheet is the most at the sheet is	o dust explosion, an institute BGIA: t important figures 0,5 mm. m screen and more:
Screening sample showing safety margin with regard to ATEX standard and BGIA (DONG/E2 2002)	100 — 80 — 60 — 40 —		
This sample was provoked with long time vibration, where many longer straws where going through the screen on the long side.	20 0 0,5 Straw dust fragme	1 1,5 2 nt in % (w. 6 mm milling sc	2,5
EN/ISO 13849-1	Safety levels: PLr: c, as machine with automatestricted.	atic start if access	is possible and not

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Analyzed risk following EN-ISO 13849-1:	S	F	P	PLr
1. Mounting: The machine is provided lifting positions that ensures balance when lifting and strong enough to hold machine load. The auger has to be lifted in the center, using rope for balance. Before stepping into the MTX_H machine, is placed a wood plate over the two main augers, this plate is used to stand on, during work, and to place the two breaker augers on for alignment. Work place assessment should be made, before start with mounting.	S2	F1	P1	c
2. Operating: The machine has to be mounted inside a Cormall MTX_H machine, with a closed filling device, Cormall BT 170 bale table or similar.	S2	F1	P1	c
3. Servicing: All lubrication positions are from safe position.	S1	F1	P1	a
4. Renovation: On the Auger is placed knifes that has to be either turned or exchanged. 1-2 times per year. Before entering the machine must be turned off on the main switch and locked. Before stepping into the MTX_H machine, must be placed a wood plate over the two top augers, after this is placed another 2 wood plates over the lower augers, where one of them is pushed under the two upper augers. Work place assessment should be made, before start with mounting.	S2	F1	P1	С
5. Scrapping/recycling: same comment as under 1. Mounting	S2	F1	P1	C

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