Data Sheet:

MTX_B - Solid material mixer



januar 11, 2021



Outdoor filling with acid and stain free steel plating



Indoor with hydraulic lid for closing



Indoor with open top for automatic filling from crane system

Various setup



januar 11, 2021

	Full knife mounting on auger and sable cut outlet
Machine details	Acid and stain free cover plates also on augers for transport and
	stuffing auger into the digester.
Machine number	1071-003B (18 m ³), 1071-005B (22 m ³), 1071-006B (30 m ³), 1073-002B (42 m ³), 1073-001B (50 m ³)
Custom tariff number	84369900
Castom turni number	Standard ISO 12944-5 category C2.
Machine paint	Machines, guards etc. comes in a colour type RAL 3001 red suitable for indoor, non corrosive environment - 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 Biogas mixer and feeder is based on our traditional diet feed mixer. The material is filled into the rear of the machine where two main augers transport the material to the top. At the top is the material either taken out or reversed to the back of the machine by the molehill in the top. The mixer can be used for batch mixing, and for continuous mixing and feeding at the same time. The machine is placed on load cells with a weight control to ensure the constant refill of material and keeping a certain amount of material in the machine at all time

Data	Sheet	•
Data	SHEEL	

MTX_B – Solid material mixer



januar 11, 2021

Function of the discharge system	The components used for discharge system: 1. Discharge Shutter, standard MTX 2. Hydraulic pump and valves, standard MTX 3. 1-0-2 switch for open/close signal, manually. 4. Ø 560 mm discharge auger 5. Rod sensor for measuring opening level of the shutter Notice that this can be done in two ways, with or without rod/string sensor (5.) Method 1- Manual overwrite 1-0-2 switch: The standard shutter can be operated manually with the switch (3). The opening of the shutter can be seen from the measure arm on the side of the shutter. Method 2 - Automatic adjustment of shutter opening: The rod sensor pos 6, is used to have exact knowledge of the shutter position and is used for remote control or automatic regulation of the shutter opening.
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januar 11, 2021

RISK ASSESMENT	The machine can be used as a "stand alo				
Machine	E			declarat	10n.
Safety levels:					
EN/ICO 12040 1	PLr: a, as machine with manual start	C		.1.1	14
EN/ISO 13849-1	PLr: c, as machine with automatic start i restricted.	1 access	s is poss	sible an	a not
	restricted.				
Analyzed risk following El	N-ISO 13849-1:	S	F	P	PLr
1. Mounting:					
	ting positions that ensures balance when				
lifting and strong enough to		S2	F1	P1	c
	manual, when mounting the machine.				
•	ald be made, before start with mounting.				
2. Operating:					
	achine has to be mounted with a filling				
	s cover for accidental entering into the	S2	F1	P1	С
	ll BT 170 straw bale table or similar, and				
lar.	cted outtake Cormall twin auger or simi-				
	loader. The machine must be specific				
b. In manual with front loader: The machine must be specific ordered for this and placed on same floor level as the loader is			F1	P1	C
driving at, to prevent accidental entering of the machine.			11	11	
3. Servicing:	or the inventor	S1	71	7.1	
a. All lubrication positions are from a safe position.			F1	P1	Α
4. Renovation:	•				
a. Change of knifes ins	ide the machine can happen 3-4 times a				
year. To change kni	Fes one has to go into the machine. Ac-				
	e is provided through filling hole from				
	all BT 170 bale table or similar. Before				
_	e must be turned off on the main switch	S2	F2	P1	D
	ng device must also be turned off.				
	n filling device, place/drop down over the				
two bale breaker augers a wood plate, to prevent from step-					
ping down onto the					
Work place assessment should be made.					
b. Oil change on the main planetary gears must be made from a			_{E1}	D1	
build up platform suitable for the job.			F1	P1	Α
	Work place assessment should be made 5. Scrapping/recycling: same comment as under 1. Mounting			P1	С
J. Scrapping/recycling	. same comment as under 1. Mounting	S2	F1	1 1	C

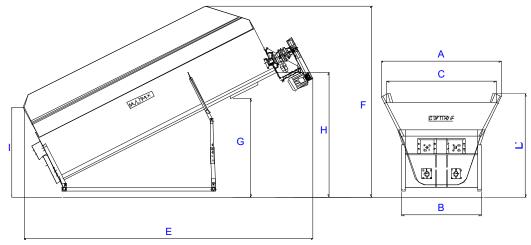
Data Sheet: januar 11, 2021

Mixes

MTX_B – Solid material mixer



 50 m^3



•		•		
 im	An	CI	An	

 30 m^3

 42 m^3

 22 m^3

10 111		0 0 111		0 0 111
2900	2900	3100	3800	3800
2400	2400	2600	3190	3190
2450	2450	2640	3380	3380
2550	2550	3040	3290	3290
6000	6900	7800	8000	8500
4550	5100	5650	5990	6200
2050	2300	3030	3030	3500
2550	3000	3640	3640	4150
2050	2050	2150	2150	2150
6800	7900	8900	11200	14100
10	10	10	10	10
400	900	900	900	900
600	600	600	800	800
25	25	25	25	25
7,5	11	15	18,5	22
1400	1400	1400	1400	1400
Y/D	Y/D	Y/D	Y/D	Y/D
7x2,5	7x2,5	7x2,5	7x4	7x4
0,75	0,75	0,75	0,75	0,75
DOL	DOL	DOL	DOL	DOL
4x1	4x1	4x1	4x1	4x1
0,1	0,1	0,1	0,1	0,1
DOL	DOL	DOL	DOL	DOL
4x0.75	4x0,75	4x0.75	4x0,75	4x0,75
	2400 2450 2450 2550 6000 4550 2050 2550 2050 6800 10 400 600 25 7,5 1400 Y/D 7x2,5 0,75 DOL 4x1 0,1	2400 2400 2450 2450 2550 2550 6000 6900 4550 5100 2050 2300 2550 3000 2050 2050 6800 7900 10 10 400 900 600 600 25 25 7,5 11 1400 1400 Y/D Y/D 7x2,5 7x2,5 0,75 0,75 DOL DOL 4x1 4x1 0,1 0,1 DOL DOL	2400 2400 2600 2450 2450 2640 2550 2550 3040 6000 6900 7800 4550 5100 5650 2050 2300 3030 2550 3000 3640 2050 2050 2150 6800 7900 8900 10 10 10 400 900 900 600 600 600 25 25 25 7,5 11 15 1400 1400 1400 Y/D Y/D Y/D 7x2,5 7x2,5 7x2,5 0,75 0,75 0,75 DOL DOL DOL 4x1 4x1 4x1 0,1 0,1 0,1 DOL DOL DOL	2400 2400 2600 3190 2450 2450 2640 3380 2550 2550 3040 3290 6000 6900 7800 8000 4550 5100 5650 5990 2050 2300 3030 3030 2550 3000 3640 3640 2050 2050 2150 2150 6800 7900 8900 11200 10 10 10 10 400 900 900 900 600 600 800 25 25 25 25 7,5 11 15 18,5 1400 1400 1400 1400 Y/D Y/D Y/D Y/D 7x2,5 7x2,5 7x2,5 7x4 0,75 0,75 0,75 0,75 DOL DOL DOL DOL 4x1 4x1 4x1

#) incl. Weight

 $18\ m^3$



januar 11, 2021

Maintenance for MTX

Oil Exchange:

Position	Quantity	Producer/Type	Interval
Planetary gear: MTX 18, 22, 30 Planetary gear MTX 42, 50	2x 6,5 L 2x 12 L (2522) 2x 12,5L (310)	SAE 85W/140 - Q8 Goya 220 - Ore other similar oil	First time after 100 hour here after every 4000 hours
Hydraulic	5 L	Tellus 22	1-2 times a year depending on how frequent it is used

Greasing:

Position	Quantity	Lubricatuion	Interval
Other bearings	Appropriate, 1 squeeze.	Shell Calithia EP T2	Every 100 hours - Notice! Do not over grease.

Tightening bolts: All bolts and mothers must be tightened after the first 10 hours.