



TECHNICAL DATA							
PROJECT NO.		: 792181 / 37626		ITEM NO.		:	
BELT BUCKET ELEVATOR SIZE		: BW-G 1600/415		BUCKET SPACING [mm]		: 530	
DRIVE DRUM Ø [mm]		: 1288		FILLING RATE [%]		: 6152	
CENTRE DISTANCE [mm]		: 87800		MATERIAL		: Raw Meal	
BELT QUALITY		: H 35		BULK DENSITY [t/m³]		: 0.8	
CONVEYING CAPACITY [t/h]		: 1200		PARTICLE SIZE [mm]		: 1	
VELOCITY [m/s]		: 2.097		MATERIAL TEMP. [°C]		: 150	
AMBIENT TEMPERATURE [°C]		: -15 to 40					
DRIVE DATA							
DRIVE SHAFT CAPACITY [kW]						: 425.26 (1.1t/m³·69.73%)	
SPEED OF ROTATION [rpm]						: 30.72	
2.1	AC-MOTOR	: SIEMENS or similar		SPEED OF ROTATION [rpm]		: 14.91	
	STANDARD	: IEC (IE3)		SHAFT SIZE [ØxL mm]		: 95 x 100	
	TYPE AND SIZE	: 355		INSULATION		: F/B	
	CAPACITY [kW]	: 355		TYPE OF PROTECTION		: IP55	
	VOLTAGE [V]	: 400		STRUCTURAL FORM		:	
	FREQUENCY [Hz]	: 50		WEIGHT [kg]		: 2140	
	SUPPLIER	: AUMUND					
Frequency Converter supplied by Customer							
2.2	BELV-HELICAL GEAR UNIT	: Flender		WITH/FAN		: yes	
	OUTPUT SHAFT DESIGN	: Solid Shaft		WITH BACKSTOP		: yes	
2.3	GearBOX SIZE	: B35H5		OIL QUANTITY [l]		: 210	
	NOM. POWER RATING [kW]	: 480		INPUT SHAFT [ØxL mm]		: 70 x 105	
2.4	NOM. RATIO	: 50		OUTPUT SHAFT [ØxL mm]		: 230 x 410	
	DESIGN [2.2]	: B		SENSE OF ROTATION [2.2]		: left	
2.5	DESIGN [2.3]	: D		SENSE OF ROTATION [2.3]		: right	
	SUPPLIER	: AUMUND		OPERATING WEIGHT [kg]		: 4746	
2.4	FLEXIBLE COUPLING	: FLENDER		BORE INPUT SIDE [ØxL mm]		: 230 x 290	
	TYPE AND SIZE	: Rupex - RWN 800		BORE OUTPUT SIDE [ØxL mm]		: 240 x 290	
2.5	SUPPLIER	: AUMUND		WEIGHT [kg]		: 760	
	FLEXIBLE COUPLING	: FLENDER		BORE INPUT SIDE [ØxL mm]		: 95 x 100	
2.5	TYPE AND SIZE	: N-EUPEX - A 250		BORE OUTPUT SIDE [ØxL mm]		: 70 x 100	
	SUPPLIER	: AUMUND		WEIGHT [kg]		: 31	
CONTROL EQUIPMENT (EXISTING ELECTRICAL SAFETY DEVICES)							
LEVEL LIMIT SWITCH IN THE BUCKET ELEVATOR BOOT							
5.1	TYPE	: Bindicator AB-S		SWITCHER		: EXISTING	
	VOLTAGE	: 115 - 480 V AC ; Frequency: 50 - 60Hz; 24 - 250VDC					
5.2	PROXIMITY SWITCH MOVEMENT DETECTOR						
	TYPE	: NJ5-18-GK-N50 (Pepperl & Fuchs)					
5.3	SPEED MONITOR INSTALLED IN THE MOTION CONTROL CENTRE						
	TYPE	: Pepperl & Fuchs KHÜ8 - DW - 1D					
5.4	PROXIMITY SWITCH FOR STRAIGHT-RUN CONTROL OF BELT						
	TYPE	: Pepperl & Fuchs NCB 15 + U + V					
5.4	VOLTAGE	: 20 - 253 V AC ; 20 - 300 V DC		SUPPLIER		: EXISTING	
	Additional scope of supply. Installed according to separated installation manual.						
5.15	1x	PREMAS 4.0 SYSTEM					
	TYPE	: BWG					
5.16	1x	Software subscription					
	TYPE	: BWG 1600		SUPPLIER		: AUMUND	
5.17	1x	CCMS (Clamping Connection Monitoring System)					
	TYPE	: BWG 1600					
5.17	1x	POWER SUPPLY BY PREMAs 4.0					
	VOLTAGE	: 20 - 230 V AC / 50-60Hz		SUPPLIER		: AUMUND	

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