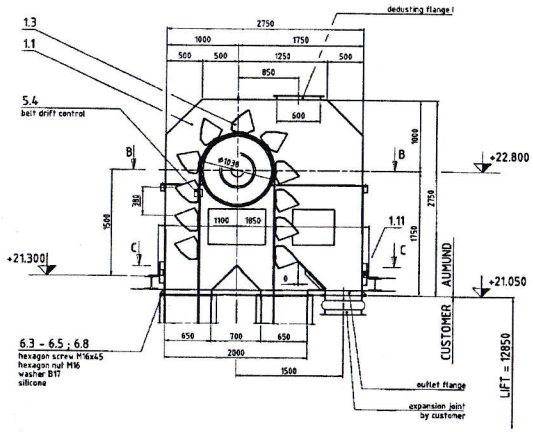
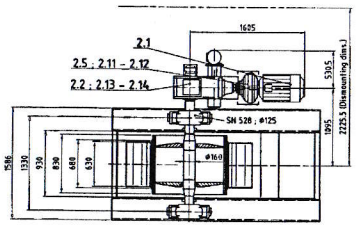




TECHNICAL DATA

PROJECT NO.	: 42299	ITEM NO.	:
BELT BUCKET ELEVATOR SIZE	: BW-G 630/320	BUCKET SPACING [mm]	: 380
DRIVE DRUM Ø [mm]	: 1000	FILLING RATE [%]	: 75
CENTRE DISTANCE [mm]	: 15000	MATERIAL	: Cement
BELT QUALITY	: H-B (+ 130°C)	BULK DENSITY [t/m³]	: 0,8
CONVEYING CAPACITY [t/h]	: 250	PARTICLE SIZE [mm]	: 1
VELOCITY [m/s]	: 1,54	MATERIAL TEMP. [°C]	: 120
AMBIENT TEMPERATURE [°C]	: 45		

REQUIRED DRIVE DATA

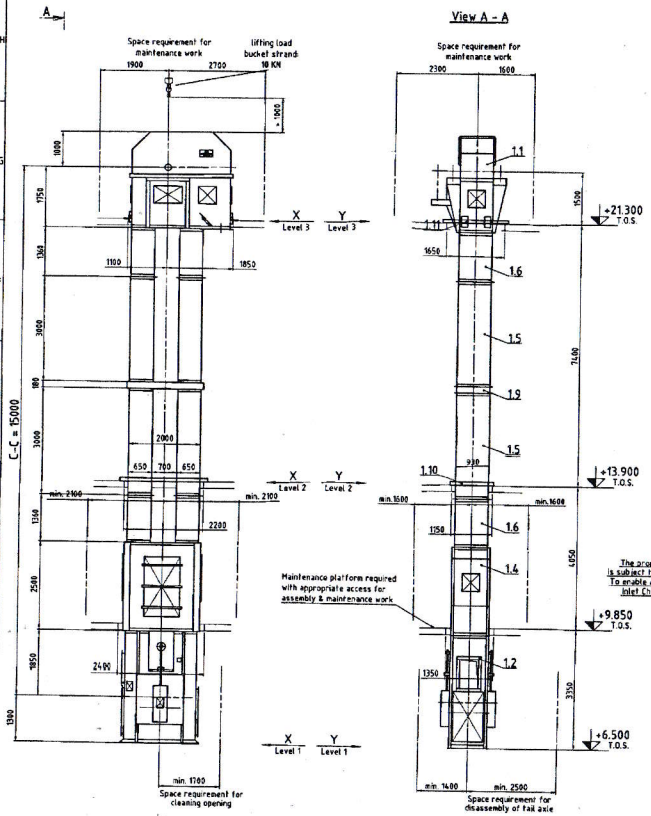
DRIVE SHAFT CAPACITY [kW]	: 19,3
SPEED OF ROTATION [rpm]	: 27,9
TORQUE ON DRIVE SHAFT [kNm]	: 6,5

DRIVE DATA

2.1	AC-MOTOR	: ABB	SPEED OF ROTATION [rpm]	: 1465
	STANDARD	: IEC	SHAFT SIZE [dxl mm]	: 55 x 110
	TYPE AND SIZE	: 200L	INSULATION	: F/B
	CAPACITY [kW]	: 30	TYPE OF PROTECTION	: IP54
	VOLTAGE [V]	: 380	STRUCTURAL FORM	: B3
	FREQUENCY [Hz]	: 50	WEIGHT [kg]	: 255
	SUPPLIER	: Customer		
2.2	BEVEL-HELICAL GEAR UNIT	: FLENDER	WITH FAN	: yes
	OUTPUT SHAFT DESIGN	: Hollow Shaft	WITH BACKSTOP	: yes
	GEARBOX SIZE	: B3SH6	OIL QUANTITY [l]	: 17
	NOM. POWER RATING [kW]	: 50	INPUT SHAFT [dxl mm]	: 48 x 70
	NOM. RATIO	: 50	OUTPUT SHAFT [dxl mm]	: 110 x 383
	DESIGN	: D	SENSE OF ROTATION	: right
	SUPPLIER	: AUMUND	OPERATING WEIGHT [kg]	: 533
	AUXILIARY GEAR UNIT for	: empty buckets	OVERRUNNING CLUTCH	: yes
	GEARBOX TYPE AND SIZE	: KZ 48	SPEED MONITOR	: yes
	MOTOR TYPE AND SIZE	: MM4L6-W	OIL QUANTITY [l]	: 2,3
	POWER [kW]	: 1,5	OPERATING WEIGHT [kg]	: 48
	SUPPLIER	: AUMUND		
2.5	TURBO COUPLING	: FLENDER	BORE INPUT SIZE [dxl mm]	: 55 x 110
	TYPE AND SIZE	: FLUDEX-FAD 347	BORE OUTPUT SIZE [dxl mm]	: 48 x 55
	SUPPLIER	: AUMUND	OPERATING WEIGHT [kg]	: 14

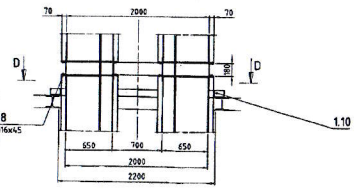
CONTROL EQUIPMENT

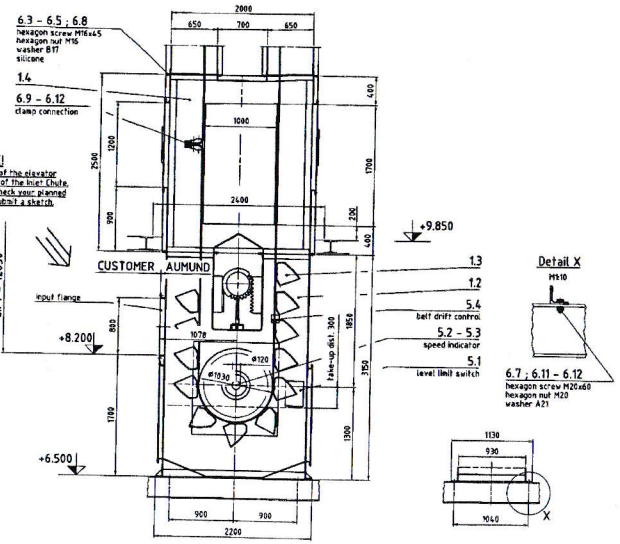
5.1	LEVEL LIMIT SWITCH IN THE BUCKET ELEVATOR BOOT	
	TYPE	: ABJ11KEE1 (MEPA / FALSA)
	VOLTAGE	: 115 - 230 V AC ; 24 - 250 V DC
5.2	PROXIMITY SWITCH MOVEMENT DETECTOR	
	TYPE	: NJ5-18-GK-N-150 (Pepperl & Fuchs)
	VOLTAGE	: 8 V DC Namur (KFU8-DWB-1.D)
5.3	SPEED MONITOR INSTALLED IN THE MOTION CONTROL CENTRE	
	TYPE	: KFU8-DWB-1.D (Pepperl & Fuchs)
	VOLTAGE	: 48 - 253 V AC ; 20 - 90 V DC
5.4	PROXIMITY SWITCH FOR STRAIGHT-RUN CONTROL OF BELT	
	TYPE	: NCB5-12M18 (Pepperl & Fuchs)
	VOLTAGE	: 20 - 253 V AC ; 20 - 300 V DC
2.11	NON-CONTACTING THERMAL SWITCH UNIT	
	TYPE	: EOC-H16x15 / DWS-G18-DY3 (Flender)
	VOLTAGE	: 8 V DC Namur (EX6)
2.12	EVALUATOR INSTALLED IN THE CONTROL ROOM	
	TYPE	: EWD/20-250VDC (Flender)
	VOLTAGE	: 20 - 250 V AC / DC
2.13	SPEED INDICATOR IN THE AUXILIARY DRIVE UNIT	
	TYPE	: BG-G18-Y1 (Turck / Flender)
	VOLTAGE	: 8 V DC Namur (KFU8-DWB-1.D)
2.14	SPEED MONITOR FOR AUXILIARY DRIVE INSTALLED IN THE MOTION CONTROL CENTRE	
	TYPE	: KFU8-DWB-1.D (Pepperl & Fuchs)
	VOLTAGE	: 48 - 253 V AC ; 20 - 90 V DC



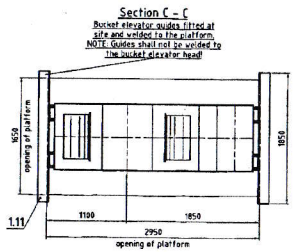
		Earthquake Loads [kN]	
		X, Y	Z
Level 1	+6.500	± 14,49 kN	± 54,19 kN
Level 2	+13.900	± 11,94 kN	
Level 3	+21.300	± 45,82 kN	

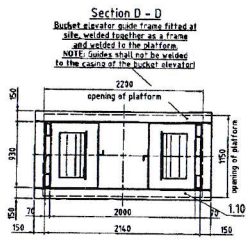
Horizontal loads calculated on the basis of:
Earthquake Rating: Zone 5

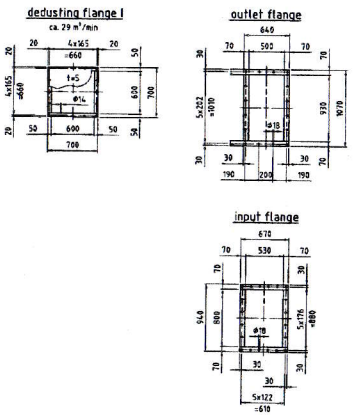




NOTE!
The proper function of the elevator is subject to the design of the inlet Chute. To enable AUMUND to check your planned inlet Chute please submit a sketch.







Our Project 42299

B	Gear unit make FLENDER instead of SEW	17.09.2004	ABRAHAM
A	Dwg. revised	28.06.2004	ABRAHAM

CAD - Zeichnung, Änderung nur im CAD - System zulässig !

Gurtbecherwerk
Belt Bucket Elevator BW-G 630/320

Drawing No. 30050603
Sheet 1 of 1
Rev. B

	gezeichnet	geprüft	erstellt	Ers. durch:
Datum	12.07.2004	17.09.2004	17.09.2004	Ers. für:
Name	ABRAHAM	ABRAHAM	ABRAHAM	Ers. am:

AUMUND