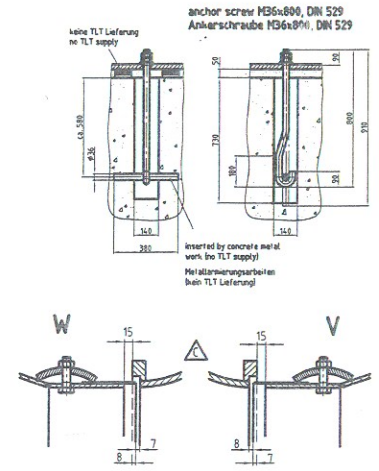
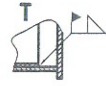




Load Data

Z = Vertical load in Z-direction
X = Horizontal load in X-direction (Shaft axis)
Y = Horizontal load in Y-direction (perpendicular to X)

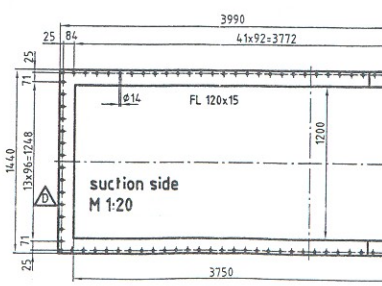
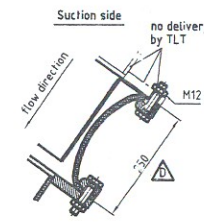
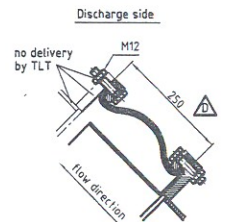
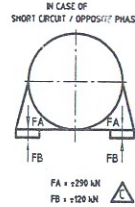
Wz = Alternating load vertical
Wy = Alternating load horizontal in Y-direction (perpendicular to shaft axis)

These alternating loads only occur with corresponding unbalances and pulsate with the frequency $n_s \approx 990$ rpm.

Max. load out of dead load, operating load and trouble cases All values in kN (30k x 1000 x 1r)					
Foundation		Pile in operation			
area	x	y	W _z	W _y	
B1			80	+60	+40
B2	+2		80	+60	+40
B3		-20	150		
B4			95	+205	
B5			60	only	during erection
B6					

The different natural frequencies of the foundation should be outside the following frequencies taking into consideration the machinability:

from $f = 11,55 \text{ Hz}$ to $f = 21,45 \text{ Hz}$
 $f_0 = 16,5 \text{ Hz}$



Design: 1 x as drawn $\pm$ L (VDMA)									
Data of fan			Motor		Weights				
V	263.9	m/sec	P_e	3617	kW	rotation parts	13900	kg	
n	90	1/min	P_{tot}	993	rpm	housing	6200	kg	
i	263.9					control box	1300	kg	
Δp_T	9670	Pa				bearing support	3000	kg	
P_m	993	rpm				drive engine support		kg	
n_m	1000	rpm				expansion joint	850	kg	
P_{tot}	2962	kW				thermo fuse damper	2200	kg	
P_{tot}	3145	kW				expand insulation	1100	kg	
$j = 0.25 \cdot (GD)^2$	6800	kg				drive engine	17000	kg	
Inferred to motor speed	na						56800	kg	

Attention

The indicated weights do not include additional loads for the calculation of foundation. These additional loads must be calculated by the manufacturer of the foundation, considering the fan speed and if necessary the temperature of the medium handled. The fans must not be charged by the ducts. Therefore the suction and discharge ducts are to be connected by expansion joints.

ISO 8015		Leistung: <i>Performance</i> Formel: <i>Formula</i> General: <i>General</i> Technical: <i>Technical</i> Information: <i>Information</i> Interpretation: <i>Interpretation</i>					
ISO 1788-01: ISO 1035-01: EN ISO 1030-01: EN 1391-01: EN 1890-01: EN 1843-01: DIN 186-01: DIN							

BEZUGSZEICHEN UND DATUM VERLEIH UND NAME DES ANGEHÖRIGEN (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME)		BEZUGSZEICHEN UND DATUM VERLEIH UND NAME DES ANGEHÖRIGEN (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME)	
DAS IST BEZUGSZEICHEN UND DATUM VERLEIH UND NAME DES ANGEHÖRIGEN (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME)		BEZUGSZEICHEN UND DATUM VERLEIH UND NAME DES ANGEHÖRIGEN (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME) VERLEIHSTELLE (NACHNAME, VORNAME)	

PARTEI-AD Score	BEKENNING / designation	ART-LEUNG	Department
1-40	General Arrangement Drawing	TLT - GB I	
	Raw Mill Fan	Zur Name	For name
Werte in mm	Type: 1886 ZA / 1664		
AUTRAL-AD / Order No.	KENNWORT / Code	BAUGR.	ZEICHNUNG-LEUNG / Drawing-No
71260-1	Polysius f. IRSAB. AAT 060-14		H6002313
			F

		A	
		axial mm	tailer mm
expansion joint (rated extension)	suction side	± 10	± 20
	discharge side	± 10 ± 29	± 20
fan (extension in di- rection of expansion joint)	suction side	15	± 15
	discharge side	7	± 10
duct (remaining extension possibility of duct in direction of expansion joint)	suction side	60	± 7
	discharge side	22	± 10

B-B-D-6-5-5