

DMG2 25.4 GEARBOX SPEC	
Item	Spec/Description
Name	Ball mill Gearbox
Manufacturer	FENDER
Power(Kw)	4900
QTY	1
Serial No.	NFB/46167765-00210 1/2018
Weight	36000
Physical Spec	DMG2 25.4
N1	1000
N2	132.22
oil	CLP mineral VG 460
Oil Capacity(Liter)	460
Output Rotation	Double Pinion
output	Straight
Description	BA5150 10/2017 +BA7300 10/2017

NAME PLATE CONFIRMED

FLENDER

NO. NFB / 46167765 - 00210 - 1 / 2018

 36000 kg

DMG2 25,4

P2 4900 kW

 1 1000 /min

 2 132,22 /min

Oil: CLP MINERAL

ISO VG 460



BA5150 10/2017 • BA7300 10/2017

FLENDER GmbH, Voerde

Made in Germany

076,0012

SERVICE

Am Industriepark 2 D-46562 Voerde - Germany

Hotline: +49-(0)172-2810100

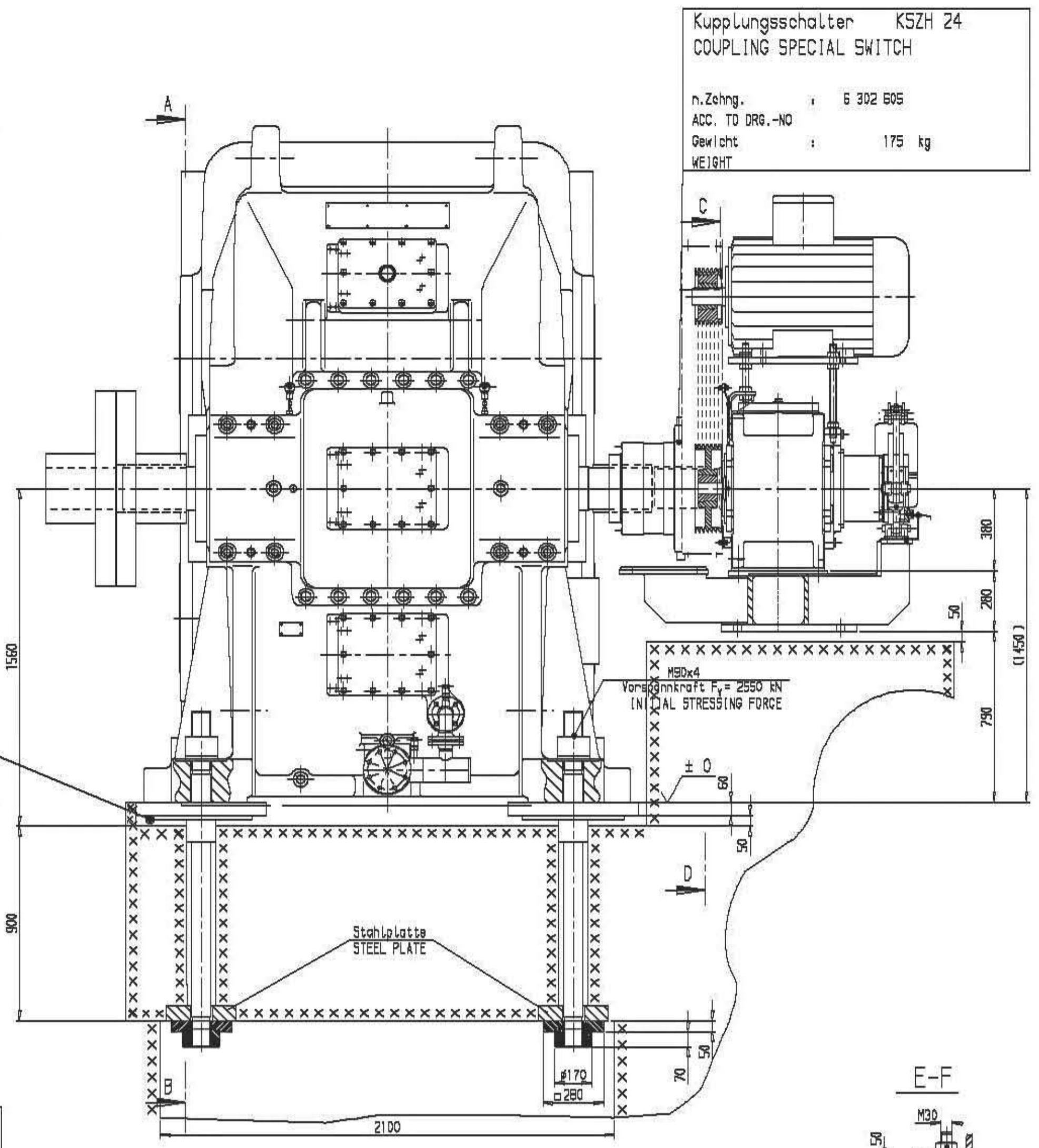
		Type: DMG 2	
		Size: 25.4	
Please quote in correspondence			
<p>Main drive unit:</p> <p>Main Gear unit : DMG2 25.4</p> <p>Girth gear teeth: : 296</p> <p>Girth gear tooth quality acc. DIN 3962 : Q8</p> <p>Ratio in girth gear stage: : 9.548</p> <p>Motor power : 5500 kW</p> <p>Gear unit power : 4900 kW</p> <p>Motor speed : 1000 1/min</p> <p>Gear unit ratio : 7.563</p> <p>Input drive speed : 1000 1/min</p> <p>Output drive speed : 131.77 1/min</p> <p>Output drive torque total : 397220 Nm</p> <p>Weight : 36000 kg</p> <p>Overall dimensions l x b x h : 2560 x 2450 x 3150 mm</p> <p>Oil viscosity : ISO VG 460 (MIN-oil)</p> <p>Oil grade : see Page 40</p> <p>Ambient temperature : -10 ... 45 °C</p> <p>Durability of the internal gear unit preservative : see DMG2 Manual, section 4, point 4.4 "Standard coating and preservation"</p> <p>Auxiliary drive unit:</p> <p>Motor rating: : 72.8 kW</p> <p>Motor speed: : 922 1/min</p> <p>Belt drive ratio: : 1.6</p> <p>Type: : H3SH</p> <p>Size: : 12</p> <p>Gear unit ratio: : 81.089</p>			
		Date	Name
		07.06.13	Ralf- Meier
		Doc.	
		BMDOC.EN	

Prof. Li. SPB	Riemtrieb D1/02	250/400
PROFIL: SPB	BELT DRIVE	IR
	Antriebsdrehzahl	1475
	OUTPUT SPEED	n [min ⁻¹]
	TESTING FORCE	F = N
	TESTING FORCE	F = N
	Erstmontage	t = mm
	BASE DEFLECTION	t = mm
	Erstmontage	t _z = mm
	FOR FIRST ASSEMBLY	t _z = mm
	Achsabstand	886.3
	CENTRE DISTANCE	mm
	Riemenlänge	L _m mm
	V-BELT LENGTH	2800

Epoxid Kleber
 Sekundäres
 Druckfestigkeit mindestens 90 N/mm²
 Gute Gleitfähigkeit
 Epoxi grout
 Non-shrink
 Minimum compressive strength 90 N/mm²
 Excellent flow characteristic

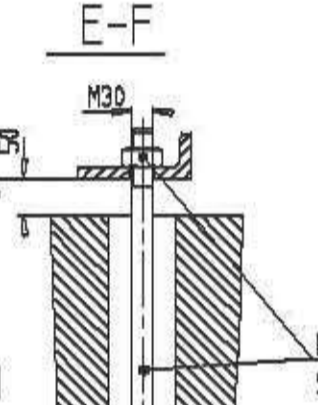
Zahnkranzgetriebe Gr. 25.4	
GIRTH GEAR UNIT	
Motorleistung	5500 kW
MOTOR POWER	5500 kW
Gabelbelastung	4900 kW
GEAR UNIT POWER	4900 kW
n Motor	1000 1/min
n ₁	1000 1/min
n ₂	132.22 1/min
i _{st}	7.553
RATIO	7.553
Ölviskosität	460 VG
OIL VISCOSITY	460 VG
n.Zehng.	5-8 337 485
ACC. TO DRG.-NO	5-8 337 485
Gewicht	38000 kg
WEIGHT	38000 kg

P = 5500 kW
 n = 1000 1/min
 Mittels Hauptmotor
 MAIN MOTOR
 Lieferung Kunde
 SUPPLIED BY CUSTOMER

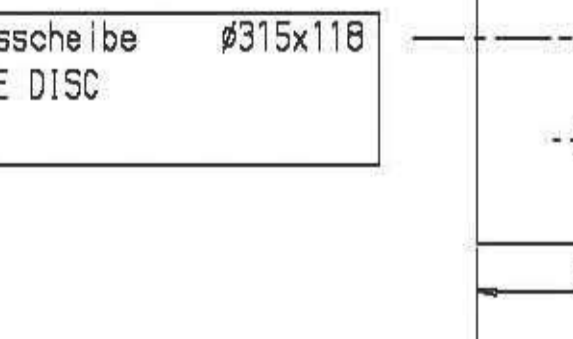


ZAHNKRANZ/ GIRTH GEAR	
Z 288	
Antrieb über Hilfsantrieb	0.16 1/min
drive via auxiliary	0.16 1/min
Antrieb über Hauptantrieb	13.85 1/min
drive via main drive	13.85 1/min

Grundplatte	
BASE PLATE	
n.Zehng.	6 014 909
ACC. TO DRG.-NO	6 014 909
Gewicht	500 kg
WEIGHT	500 kg



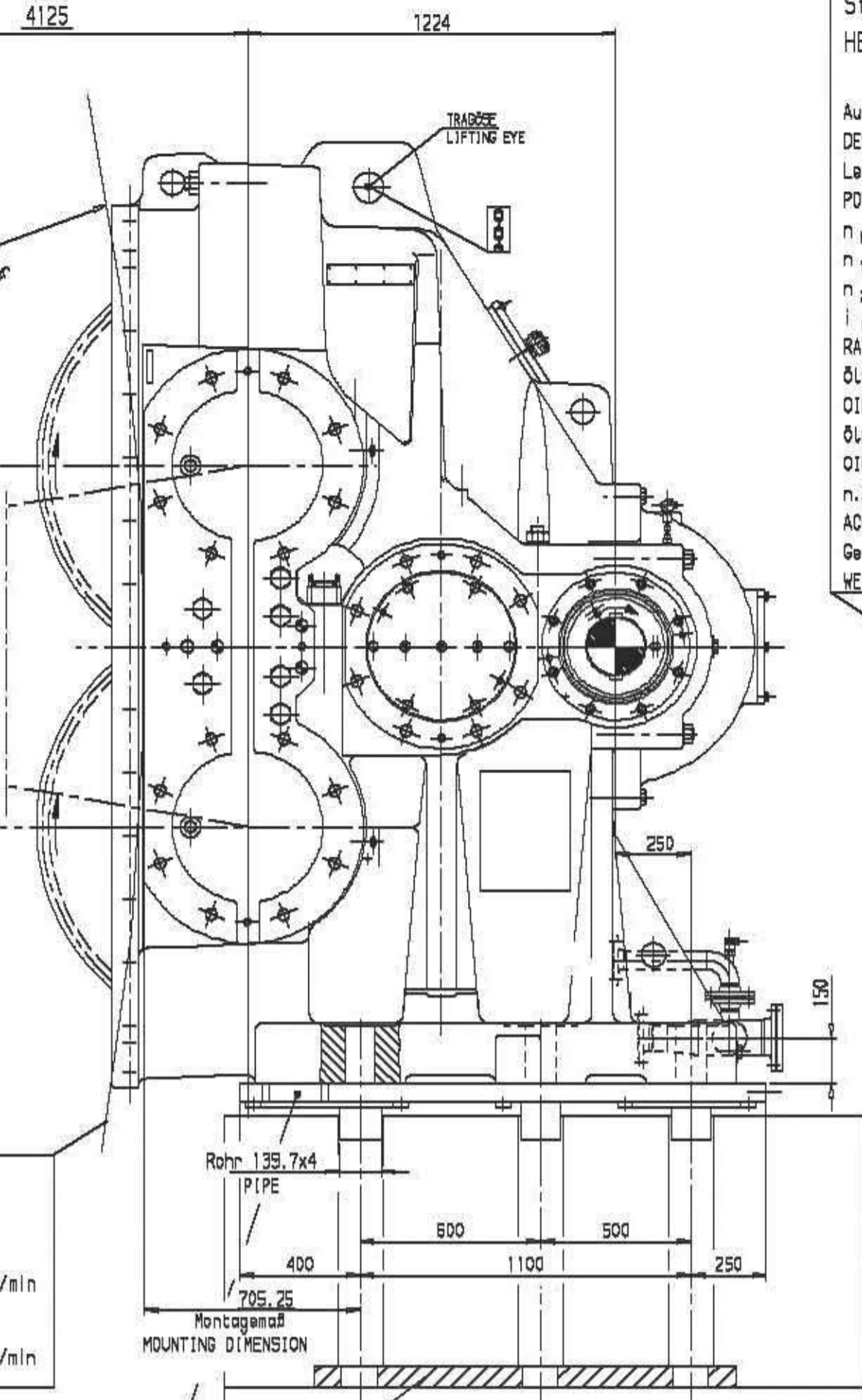
Doppelbackenbremse TE 315/800/60	
DOUBLE-SHOE BRAKE	
Betriebsspannung	230 V; 50 Hz
OPERATING VOLTAGE	230 V; 50 Hz
Steuerspannung	24 V DC
CONTROL VOLTAGE	24 V DC
Bremsmoment	Nm
BRAKE TORQUE	Nm
Gewicht	kg
WEIGHT	kg
Endschalter	Turck B15-M18-AP2X
LIMIT SWITCH	Turck B15-M18-AP2X



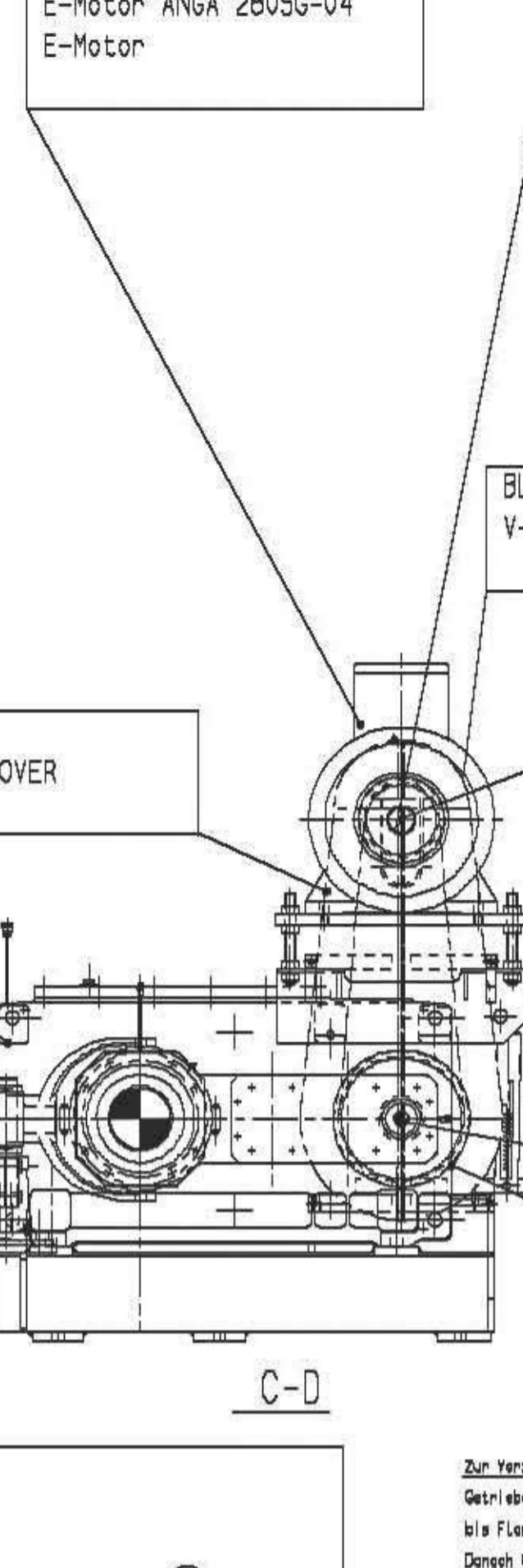
RUPEX-Kupplung RWS 900	
RUPEX-COUPLING	
n.Zehng.
ACC. TO DRG.-NO
Gewicht	907 kg
WEIGHT	907 kg

ZAPEX-Kupplung ZWS 375	
ZAPEX-COUPLING	
n.Zehng.	6 346 902
ACC. TO DRG.-NO	6 346 902
Gewicht	190 kg
WEIGHT	190 kg

Fliehkraftbremse Centrex AF 27 ST	
CENTRIFUGAL BRAKE	
n.Zehng.
ACC. TO DRG.-NO
Gewicht	55 kg
WEIGHT	55 kg



E-Motor ANGA 2B05G-04	
E-Motor	
TAPER-Spannbuchse	3535
TAPER-BUSH	3535
Bohrung	∅ 75H7
BORE DIA.	∅ 75H7



BLAURI-Keilriemen SPB LW 2800	
V-BELT	
BLAURI-Scheibe SPB 250x5	
V-BELT PULLY	

TAPER-Spannbuchse 3535	
TAPER-BUSH	
Bohrung	∅ 50H7
BORE DIA.	∅ 50H7

BLAURI-Scheibe SPB 400x5	
V-BELT PULLY	

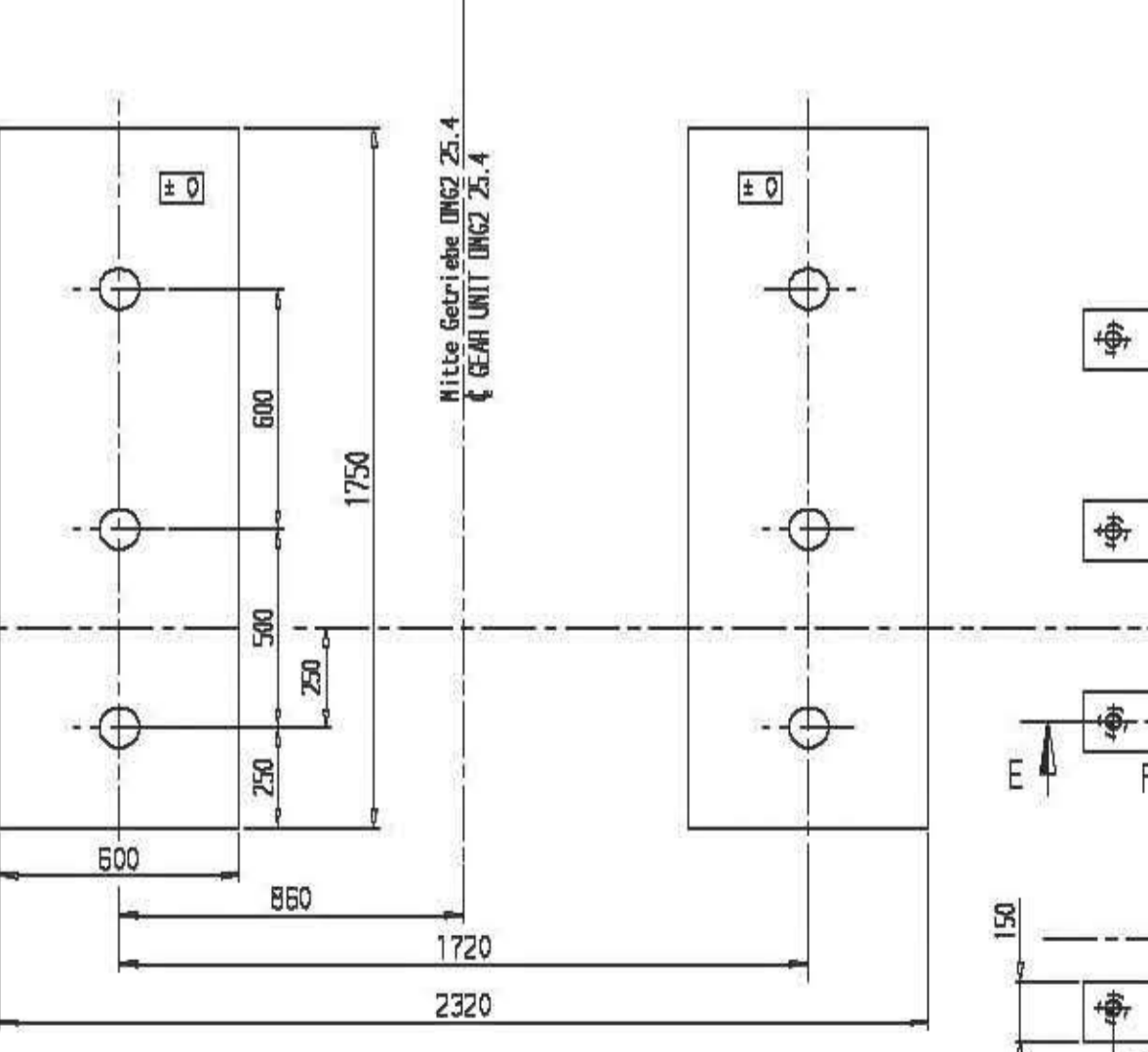
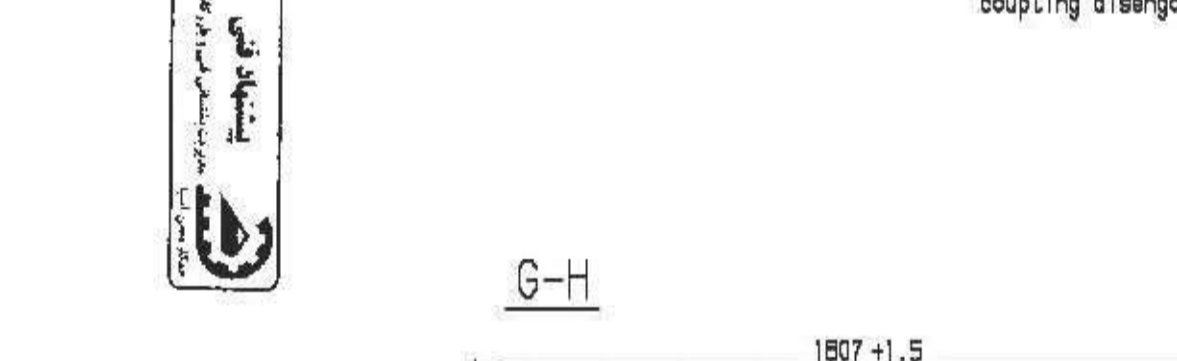
TAPER-Spannbuchse 3535	
TAPER-BUSH	
Bohrung	∅ 50H7
BORE DIA.	∅ 50H7

Zur Verzahnungseinstellung	
Getriebe in den Radkreuz	
bis Flankenpiel = 0 ist.	
Daneben Getriebe um "y" = 5 mm zurückziehen	

FÜR GEAR ADJUSTMENT
 MOVE REDUCER INTO GIRTH GEAR
 UNTIL BACKLASH IS 0.
 AFTER THIS MOVE REDUCER "Y" = 5 mm BACK

Stahllatte ACHTUNG! Fundamentbelastung berücksichtigen
 STEEL PLATE ATTENTION! PAY ATTENTION TO FOUNDATION LOAD

Lieferumfang Kunde
 SUPPLIED BY CUSTOMER



Belastungsort	Q1	Q2	Q3	Q4	Q5	Q6
Statisch, im Stillstand 1) STATIC, STAND STILL						
Lastrichtung v DIRECTION OF LOAD	+2719	+2606	+2511	+2719	+2606	+2511
Dynamisch, im Betrieb 2) DYNAMIC, OPERATION						
Lastrichtung v DIRECTION OF LOAD	+3524	+2809	+2397	+3524	+2809	+2397
Lastrichtung w DIRECTION OF LOAD	+158	+158	+158	+158	+158	+158
Fußschraubenspannkraft INITIAL STRESSING FORCE OF FOOT BOLTS	2550	2550	2550	2550	2550	2550

P (Motor) = 5500 kW, n (Motor) = 1000 1/min

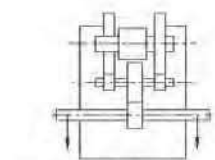
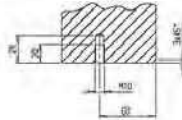
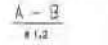
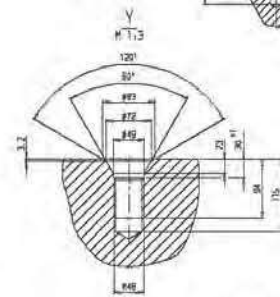
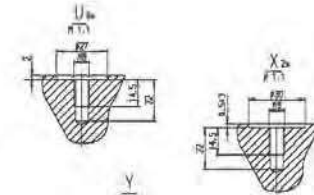
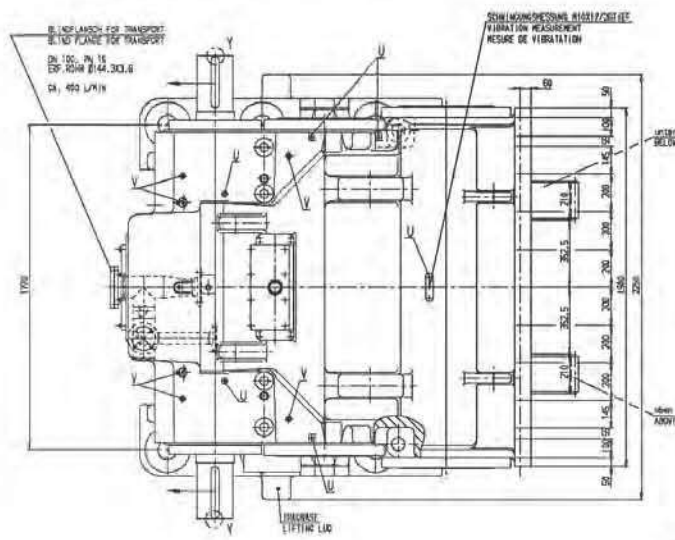
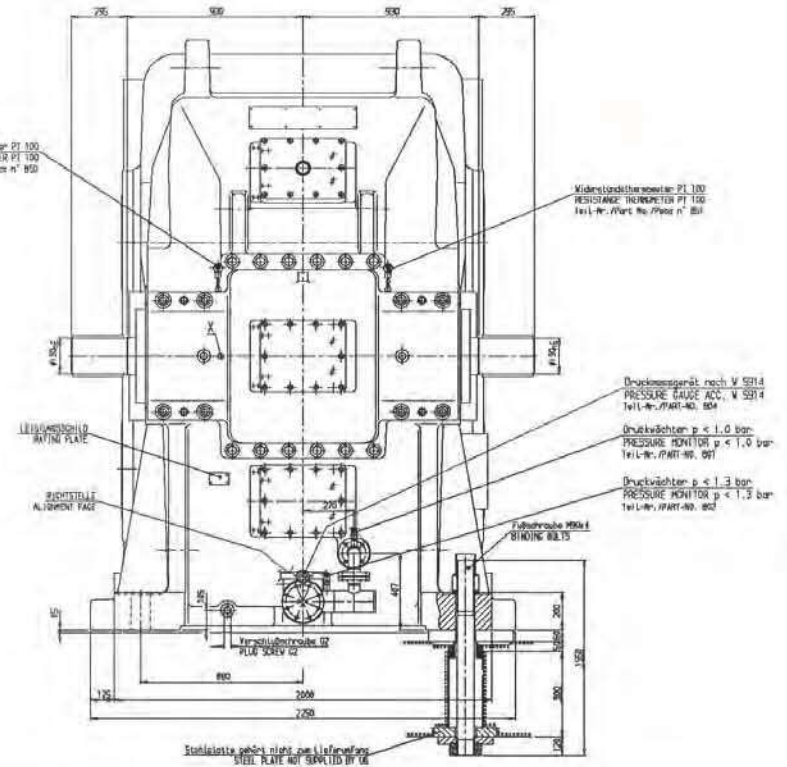
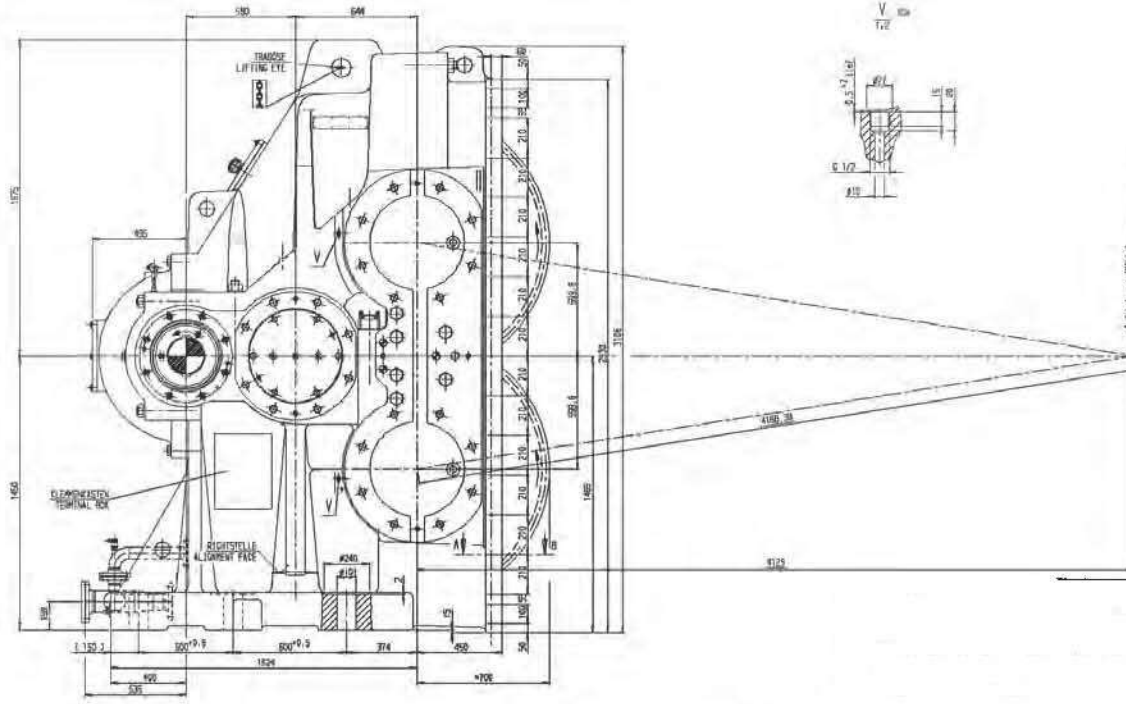
Gleichartige Pfeile kennzeichnen die Abhängigkeit der Drehrichtungen!
 Arrows show relative directions of rotation

Alle Fundamentmaße sind Fertigungsmaße in mm. Die Fundamente sind zum Vergleich 50 mm niedriger auszuführen, aus besten Stahlbeton herzustellen und fest in Boden zu anheben.

Alle Foundation dimensions are finished dimensions in mm. The foundations are to be cast 50 mm lower, and should be of the good steel reinforced concrete, and anchored securely to the ground.

Angaben sind die Fußflächen, die Basenflächen sind entsprechend größer auszuführen.
 THE BASE SURFACES ARE INDICATED, FOUNDATION SURFACES MUST BE MADE CORRESPONDINGLY LARGER.

a	Bx	2207 und diverse Daten hierzu	2012-12-18	WIS	WIS	-
b	3x	1790 In 1475, Text hierzu	2012-11-18	WIS	WIS	-
c	D5	480 hierzu	2012-11-18	WIS	WIS	-
d	Zone	Description/Änderungsbeschreibung	Date	Name		
Toleranz 150 8013 Toleranz 150 8015			General tolerances for machining 430 ±0.3 otherwise ISO 2768-mS All dimensions are in mm. Bearing tolerances for mech. bearings ISO 40:3, ISO 2768-mS			
Surfaces not specified			Checked	DATE	2012-10-26	WIS
Roughness Ra in µm			Checked	DATE	2012-10-26	WIS
Scale 1:18			Dept	Date		
Weight (kg)			Scale	1:18	Weight (kg)	Size Type Drawing No./Zeichnungs-Nr.
Mass mon. of inertia J (kgm ²)			5MB 6337466			Rev.
Supersedes			From dwg			B314533
Made in mm			Observes protection marks/Schutzvermerk 150 1601B			



ANTRIEB EINER ZEMENTMÜHLE
DRIVE CEMENT MILL

DIREKTANTRIEB GETRIEBE - ZAHNKRANZ - KUGELMÜHLE M=25.4
DIRECT DRIVE GEAR UNIT - GIRTH GEAR - BALL MILL

P GETRIEBE GEAR	4900 KW
P MOTOR MOTOR	5500 KW
n MÜHLE MILL	13.85 1/MIN
ZÄHNEZAHL NO. OF TEETH	296
BREITE FACE WIDTH	...
GETRIEBE GEAR UNIT	n1 1000 1/MIN n2 132.22 1/MIN
ADMA - FACTOR NIN NOM-FACTOR	7.563 2.0
AUSGANGSRITZEL - ZÄHNEZAHL OUTPUT PINION - NO. OF TEETH	31
(n1 GETRIEBE + RÄCKKRANZ) GEAR UNIT	72.215
GETRIEBESCHWERTUNG, ÖLVIKOSITÄT OIL VISCOSITY (SINCE 1970)	16 450
GEWICHT HAUPTGETRIEBE WEIGHT OF GEAR UNIT	36000 KG @
UMGEBUNGSTEMPERATUR AMBIENT TEMPERATURE	-10°C bis +45°C
LAGER LEBENSDAUER BEARING LIFE	80 000 h

ZAHNKRANZ : VERZÄHNUNGSDATEN
GIRTH GEAR : GEARING DATA

QUALITÄT QUALITY CLASS	UB NACH DIN 3982
MODUL	M = 25.4
ZÄHNEZAHL NO. OF TEETH	Z = 296
RECHN. ABSCHNITT CENTRE DISTANCE	A = 4168.38
SCHÄGELWINKEL HELIX ANGLE	$\beta = 0^\circ$
PROFILVERSCHLEBUNG ADDENDUM MODIFICATION COEFFICIENT	X.MN = 10.151
ERZEUGUNGSPROFIL VERLEBUNGSKOEFFIZIENT XE FÜR AME, XE = 0.3065 GENERAT. PROFILE SHIFT FAC. FOR UPPER ALLOW.	
ZAHN BREITE FACE WIDTH	b = 650

Dr. Ing. h.c. F. Opel	5 MB	6337465
REPRODUCTION		
SHEET 1 of 1		

VERFAHREN FÜR DIE HERSTELLUNG VON...
THE PROGRAM IS RESPONSIBLE FOR THE PROVISION OF SAFETY SIGNALS.

Antriebsfall "A/R" nach Zeichn.-Nr. 5429084 "a"
DRIVE ARRANGEMENT "A/R" ACCORDING TO DRAWING NO. 5429084 "a"