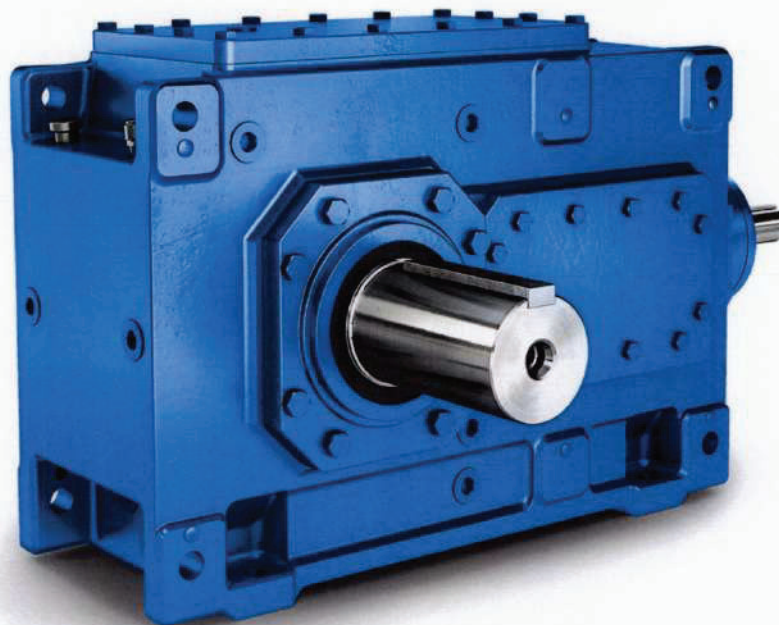


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HELICAL GEAR UNITS AND BEVEL-HELICAL GEAR UNITS

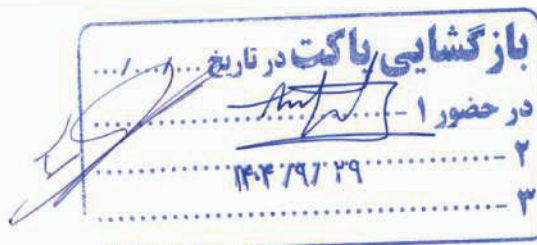
STIRNRADGETRIEBE UND KEGELSTIRNRADGETRIEBE

Product / Produkt

2LP3021-6BJ20-2EF0-Z

B41+C00+C82+C86+D97+G31+G36+H00+H11+L00+L93+Y01+Y02+Y20+Y21+Y23

{Y01:-5}{Y02:50}{Y20:1450.0}{Y21:89.00}{Y23:89.00}





Details / Details

Gear unit basic data / Getriebe-Grunddaten

Catalog	MD 20.1 - 2009
Type	B4HH
Size	16
Gear unit design	C
Special ratio	No
Actual ratio	193.365 [$i_N=200$]
Nominal torque	173,000 Nm
Nominal power	135.84
Service factor f_{1_actual}	1.52
Driving at	High-speed shaft
Mass moment of inertia for high-speed shaft J1	0.06423 kgm ²
Mass moment of inertia for low-speed shaft J2	2,401.56119 kgm ²

High-speed shaft / schnell drehende Getriebewelle

Shaft seal	Taconite E
Shaft design	Standard shaft
Shaft dimension	d1 = 70 m6; l1 = 135; G1 = 1448 (mm)
Protective cover	Not possible

Low-speed shaft / langsam drehende Getriebewelle

Shaft seal	Taconite F-F
Shaft design	Standard shaft
Shaft dimension	D2 = 240 H7; G4 = 380 (mm)
Protective cover	Yes, signal yellow

Power data / Leistungsdaten

Type of prime mover	Electric motors
Power P1	(Y23) 89
Torque T1	586.17 Nm
Starting torque TA	1,465.43 Nm
Max. permitted starting torque TA_zul	1,278 Nm
Limitation of starting torque TA	is required!
Speed n1	(Y20) 1450.0 1/min
Engine	Dredge, Bucket conveyor
Power P2	(Y21) 89
Torque T2	113,345.23 Nm
Speed of rotation n2	7.5 1/min
Selected factor f1 for driven machine	2.00
Direction of load	Continuous
Peak loads / [h]	31-100
Peak torque factor f3	0.7
Operating cycle per hour	100 %

Installation specification / Einsatzbedingungen

Installation altitude	(G31) 1001 m - 2000 m
Place of installation	(G36) Large halls, workshops
Wind velocity	1.4 m/s
Min. ambient temperature	(Y01) -5 °C
Max. ambient temperature	(Y02) 50 °C
Oil type	(H00) Mineral oil
Oil viscosity	(H11) ISO VG 320
Oil quantity	235 l
Oil information	Oil is not included in delivery!

Oil supply / Ölversorgung

Oil supply	Dip lubrication
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Additional cooling / Zusatzkühlung

Thermal capacity factor kTH	0.85
Fan	Without
Cooling coil	Without

Corrosion protection / Korrosionsschutz

Corrosion protection selected acc.	Corrosivity categ. acc. DIN EN ISO 12944-2
Term of protection class	(C86) Medium
Coating system	(B41) Coating system 002
Color	(C00) RAL 5015 sky blue

Additional forces / Zusatzkräfte

ATEX

Options / Optionen

Visual oil level indicator	Oil dipstick
Oil drain	Oil drain plug
Housing material	GG-20
Air filter	Standard air filter according to F 5125 type 1
Backstop	(L00) Standard design
Direction of rotation	(L93) Counterclockwise
Unspecified inspection document	Factory certificate acc. DIN EN 10204-2.1
Unspecified inspection certificate	(D97) Insp.certificate acc. DIN EN 10204-2.2
Rating plate	Stick-on label foil
Name plate marked with	Power P2

[illegible]

Getriebenteile
Masse in kg

[illegible]

Data sheet FLENDER couplings

FLUDEX FAD 450

Version according to the catalog FLE 10.4

2LC09004AA990AA0-Z L1J+M1G+B34

Product

Series	FLUDEX
Type	FAD
Size	450
Scope of supply	complete coupling
Torsional stiffness	Hydrodynamic

Basic data¹⁾

Maximum coupling speed	n_{Kmax}	3,000 1/min
Operating temperature (min.)	T_{min}	-30 °C
Operating temperature (max.)	T_{max}	45 °C
Mounting position		horizontal version
Total weight	m	69 kg

Connection 1 hollow shaft⁷⁾

Hub length	0 mm
Bore diameter	80 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (JS9)
Number of keyways, offset	one keyway
Axial locking	with retaining screw
Balancing principle	balancing acc. to half feather key agreement
shaft insertion depth acc. to plain text specification	170 mm

Product-specific options

Mounting position	horizontal version
drive via housing	No
Thermal equipment	Fuse 140°C, sealing set made of NBR

Balance state

Method	DIN ISO 21940-11 component balance
Speed	1,800 1/min
Balancing quality	G 6,3



Connection 2 part 2+3⁷⁾

Hub length	100 mm
hub diameter	153 mm
Bore diameter	70 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (JS9)
Number of keyways, offset	one keyway
Axial locking	with setscrew
Balancing principle	balancing acc. to half feather key agreement

Corrosion protection

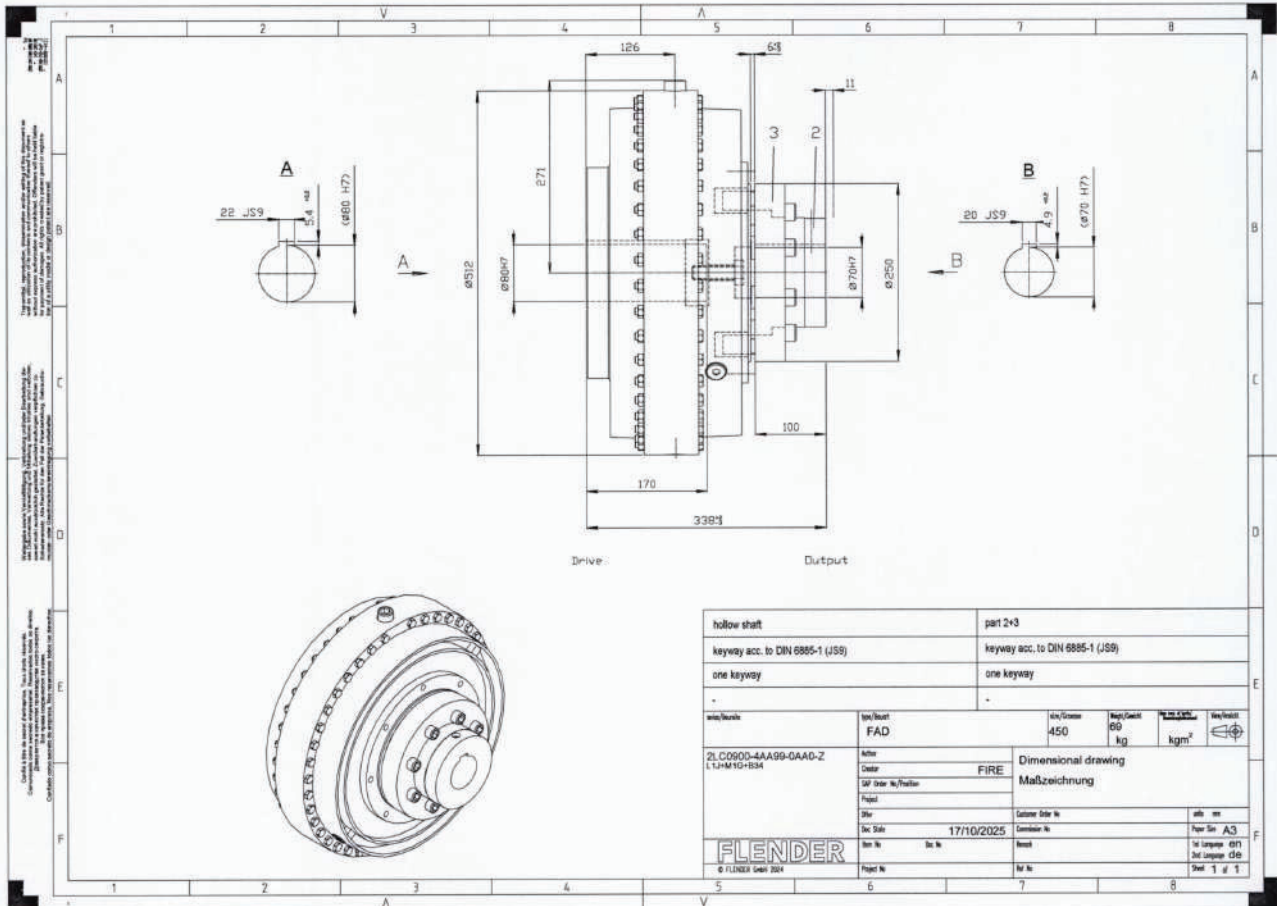
Preservation	VCI foil - indoor storage up to 5 years suitable for maritime transport
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Note

1) The formula symbols are defined in Catalog.

6) Only mounted parts.

7) The orderer is responsible for verifying the design strength of the shaft-hub connection.



hollow shaft		part 2x3	
keyway acc. to DIN 6885-1 (JS9)		keyway acc. to DIN 6885-1 (JS9)	
one keyway		one keyway	
series/brand		-	
type/brand		FAD	450
2L C0900-4AAG9-GA40-Z		kg	80
L1U-MYG-B34		kgm	kgm
Author		FIRE	
Customer		Dimensional drawing	
SAF Order No./Revision		Maßzeichnung	
Project		Customer Order No.	
Date		17/10/2025	
Doc. State		Revision No.	
Item No.		Sheet	
Project No.		Sheet 1 of 1	

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