

Datasheet for FLENDER Gear Unit B3HH07C25

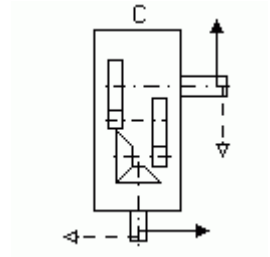
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-6DB01-0GN1-Z

A04 +B01 +B15 +B28 +B41 +C00 +G31 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 40 C}{Y20: 1485 rpm}{Y23: 75 kW}



Client-Order-No:

Item-No:

100

Order-No:

Consignment-No:

Quotation-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit 3 – stage H – (H) Hollow shaft with keyway H – (H) Horizontal
Installation size	7
gear design	C
Actual ratio	25.446 (iN = 25)
Tolerance for special ratio	-
Nominal output torque	T _{2N} = 21700 [Nm]
Nominal power rating	P _{2N} = 134.65 [kW]
Service factor (T _{2N} / T ₂)	1.77
mass	approx. 577.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 45 m6; l3 = 80; G3 = 710 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: -
Dimension: -

Shaft 2 (right):

Seal: Radial shaft seal
Dimension: D2 = 115 H7; G4 = 195 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 280S
Y23	Motor power	P ₁ = 75.00 [kW]
-	Starting torque	T _A = 1205.80 [Nm]
Y20	Speed Shaft 1	n ₁ = 1485 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 75.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 58.36 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G31	For altitudes:	1001 [m] - 2000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 40.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

- Dip lubrication

Additional cooling

1 Fan
(PG = 107.04 kW)

Conservation

A../B../... K.050.06.06.01.002. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order
acc. to DIN 10204-2.1

- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

Backstop:

Design: [...] Standard Design

Direction of rotation of gear output shaft: CW rotation

- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A04	Application Conveyors
B01	Climatic stress temperate climate zones, central european conditions
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B41	Coating system Standard coating, finishing coat, moderate climatic zones
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3HH04C25

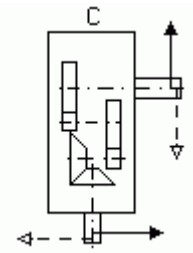
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-3DB01-0GH1-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1465 rpm}{Y23: 22 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

200

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	H – (H) Hollow shaft with keyway
	H – (H) Horizontal

Installation size	4
gear design	C
Actual ratio	25.38 (iN = 25)
Tolerance for special ratio	-
Nominal output torque	T2N = 6700 [Nm]
Nominal power rating	P2N = 40.95 [kW]
Service factor (T2N / T2)	1.84
mass	approx. 221.50 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal:	Radial shaft seal
Dimension:	d1 = 30 m6; l3 = 50; G3 = 520 (mm)

Shaft 1 (right):

Seal:	-
Dimension:	-

Shaft 2 (left):

Seal:	-
Dimension:	-

Shaft 2 (right):

Seal:	Radial shaft seal
Dimension:	D2 = 80 H7; G4 = 140 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 180L
Y23	Motor power	P ₁ = 22.00 [kW]
-	Starting torque	T _A = 358.53 [Nm]
Y20	Speed Shaft 1	n ₁ = 1465 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 22.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 57.72 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 41.39 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3SH07D31.5

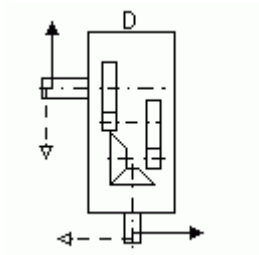
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0023-6AB01-0JN2-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1485 rpm}{Y23: 75 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

300

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	S – (S) Solid shaft
	H – (H) Horizontal
Installation size	7
gear design	D
Actual ratio	30.509 (iN = 31.5)
Tolerance for special ratio	-
Nominal output torque	T2N = 21700 [Nm]
Nominal power rating	P2N = 107.85 [kW]
Service factor (T2N / T2)	1.47
mass	approx. 577.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 45 m6; l3 = 80; G3 = 710 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: Radial shaft seal
Dimension: d2 = 120 n6; l2 = 210; G2 = 195 (mm)

Shaft 2 (right):

Seal: -
Dimension: -

Power data

Prime mover: Electric motors

-	Motor	IEC 280S
Y23	Motor power	P ₁ = 75.00 [kW]
-	Starting torque	T _A = 1205.80 [Nm]
Y20	Speed Shaft 1	n ₁ = 1485 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 75.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 48.67 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 85.26 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CCW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3SH08D31.5 - Alternative

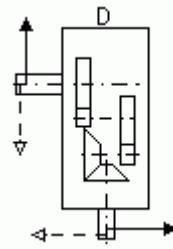
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0023-7AB01-0JN2-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1485 rpm}{Y23: 75 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

350

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	S – (S) Solid shaft
	H – (H) Horizontal

Installation size	8
gear design	D
Actual ratio	32.084 (iN = 31.5)
Tolerance for special ratio	-
Nominal output torque	T _{2N} = 27200 [Nm]
Nominal power rating	P _{2N} = 134.6 [kW]
Service factor (T _{2N} / T ₂)	1.76
mass	approx. 662.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal:	Radial shaft seal
Dimension:	d1 = 45 m6; l3 = 80; G3 = 755 (mm)

Shaft 1 (right):

Seal:	-
Dimension:	-

Shaft 2 (left):

Seal:	Radial shaft seal
Dimension:	d2 = 130 n6; l2 = 250; G2 = 195 (mm)

Shaft 2 (right):

Seal:	-
Dimension:	-

Power data

Prime mover: Electric motors

-	Motor	IEC 280S
Y23	Motor power	P ₁ = 75.00 [kW]
-	Starting torque	T _A = 1205.80 [Nm]
Y20	Speed Shaft 1	n ₁ = 1485 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 75.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 46.28 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 100.74 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CCW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3SH07C31.5

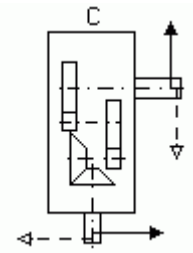
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-6AB01-0JN2-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1485 rpm}{Y23: 75 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

400

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	S – (S) Solid shaft
	H – (H) Horizontal
Installation size	7
gear design	C
Actual ratio	30.509 (iN = 31.5)
Tolerance for special ratio	-
Nominal output torque	T2N = 21700 [Nm]
Nominal power rating	P2N = 107.85 [kW]
Service factor (T2N / T2)	1.47
mass	approx. 577.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 45 m6; l3 = 80; G3 = 710 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: -
Dimension: -

Shaft 2 (right):

Seal: Radial shaft seal
Dimension: d2 = 120 n6; l2 = 210; G2 = 195 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 280S
Y23	Motor power	P ₁ = 75.00 [kW]
-	Starting torque	T _A = 1205.80 [Nm]
Y20	Speed Shaft 1	n ₁ = 1485 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 75.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 48.67 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 85.26 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CCW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3SH07C31.5 - Alternative

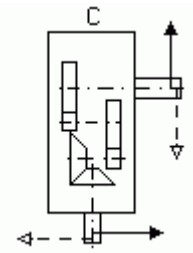
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-6AB01-0JN2-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1485 rpm}{Y23: 75 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

450

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	S – (S) Solid shaft
	H – (H) Horizontal
Installation size	7
gear design	C
Actual ratio	30.509 (iN = 31.5)
Tolerance for special ratio	-
Nominal output torque	T _{2N} = 21700 [Nm]
Nominal power rating	P _{2N} = 107.85 [kW]
Service factor (T _{2N} / T ₂)	1.47
mass	approx. 577.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 45 m6; l3 = 80; G3 = 710 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: -
Dimension: -

Shaft 2 (right):

Seal: Radial shaft seal
Dimension: d2 = 120 n6; l2 = 210; G2 = 195 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 280S
Y23	Motor power	P ₁ = 75.00 [kW]
-	Starting torque	T _A = 1205.80 [Nm]
Y20	Speed Shaft 1	n ₁ = 1485 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 75.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 48.67 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 85.26 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CCW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3HH06C31.5

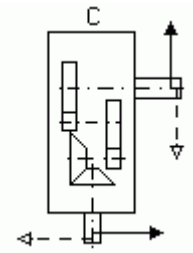
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-5DB01-0JL1-Z

A05 +B00 +B15 +B28 +B63 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1475 rpm}{Y23: 45 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

500

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	H – (H) Hollow shaft with keyway
	H – (H) Horizontal
Installation size	6
gear design	C
Actual ratio	31.508 (iN = 31.5)
Tolerance for special ratio	-
Nominal output torque	T2N = 15500 [Nm]
Nominal power rating	P2N = 75.67 [kW]
Service factor (T2N / T2)	1.69
mass	approx. 394.10 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 35 m6; l3 = 60; G3 = 630 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: -
Dimension: -

Shaft 2 (right):

Seal: Radial shaft seal
Dimension: D2 = 105 H7; G4 = 165 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 225M
Y23	Motor power	P ₁ = 45.00 [kW]
-	Starting torque	T _A = 786.67 [Nm]
Y20	Speed Shaft 1	n ₁ = 1475 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 45.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 46.81 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 64.61 kW)
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Conservation

A../B../... K.051.00.06.01.116. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A05	Application Conveyors, belt drives, open-pit coal mining, Australia
B00	Climatic stress Climate not taken into account
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B63	Coating system Special painting, finishing coat, open-pit coal mining Australia
C00	Color: Color RAL 5015 sky blue

Datasheet for FLENDER Gear Unit B3SH11C40

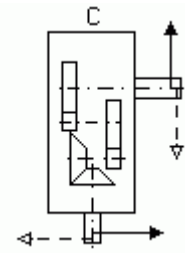
Design according to brochure: MD 20.1 (Gear units), Edition 2009

Ordering Data

2LP0022-1BB01-0LR1-Z

A04 +B01 +B15 +B28 +B41 +C00 +G30 +G36 +H00 +H10 +Y02
+Y20 +Y23

{Y02: 45 C}{Y20: 1488 rpm}{Y23: 132 kW}



Client-Order-No:

Order-No:

Quotation-No:

Item-No:

600

Consignment-No:

Project:

Gear unit - Basic data

Type	B – (B) Bevel-helical gear unit
	3 – stage
	S – (S) Solid shaft
	H – (H) Horizontal
Installation size	11
gear design	C
Actual ratio	39.861 (iN = 40)
Tolerance for special ratio	-
Nominal output torque	T2N = 63500 [Nm]
Nominal power rating	P2N = 249.88 [kW]
Service factor (T2N / T2)	1.88
mass	approx. 1511.00 kg Without oil

Explosion protection according to ATEX 95: No

Shaft 1 (left, front):

Seal: Radial shaft seal
Dimension: d1 = 70 m6; l3 = 105; G3 = 990 (mm)

Shaft 1 (right):

Seal: -
Dimension: -

Shaft 2 (left):

Seal: -
Dimension: -

Shaft 2 (right):

Seal: Radial shaft seal
Dimension: d2 = 170 n6; l2 = 300; G2 = 270 (mm)

Power data

Prime mover: Electric motors

-	Motor	IEC 315M
Y23	Motor power	P ₁ = 132.00 [kW]
-	Starting torque	T _A = 2287.39 [Nm]
Y20	Speed Shaft 1	n ₁ = 1488 [rpm]

Driven machine

-	Output power	P ₂ = P ₁ = 132.00 [kW]
-	Output torque	-
-	Speed Shaft 2	n ₂ = 37.33 [rpm]
-	Operating cycle per hour	100 %
-	Daily term	> 10 [h / day]
-	FEM rating	-
-	Factor for driven machine	f ₁ = 1.5
-	Peak torque	f ₃ = 0.5

Application specification

G30	Altitude up:	1000 [m]
G36	Place of installation:	Large halls, workshops (wind velocity > 1.4 m/s)
- /Y02	Ambient temperature	-10.00 [°C] up to 45.00 [°C]
H00	Oil grade	Mineral oil (CLP)
H10	Oil viscosity	ISO VG 460 Oil not included

Oil supply

-	Dip lubrication
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Additional cooling

1	Fan (PG = 159.92 kW)
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Conservation

A../B../... K.050.06.06.01.002. Color RAL 5015 sky blue (see details)

Other options

- with declaration of compliance with the order acc. to DIN 10204-2.1
- Plates out of weather and temperature resistant foil

Motor connection

Brake console

Mounting parts

- **Backstop:**
Design: [...] Standard Design
Direction of rotation of gear output shaft: CW rotation
- Air Filter Standard air filter acc.to F 5125 type 1

Details of conservation: (identification keys)

A04	Application Conveyors
B01	Climatic stress temperate climate zones, central european conditions
B15	Internal corrosion prevention Castrol Alpha SP 220 S, up to 24 months
B28	External corrosion prevention TECTYL 846 K-19
B41	Coating system Standard coating, finishing coat, moderate climatic zones
C00	Color: Color RAL 5015 sky blue

Datasheet FLENDER couplings FLUDEX FND 490

Design according to brochure: MD10.1

Ordering Data **2LC0901-1GC99-1AA0**
L1H +M1A



Client-Order-No:

Item-No:

1100

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[90]	Series:	FLUDEX
[GC]	Type:	FND
[11]	Size:	490
	Variant:	NL1=148

Result data for continuous operation

Oil filling quantity	13.90 l
Operating slip s	2.30 %
Power loss P _v	1.72 kW
Coupling temperature rise ΔT	13 K
Absolute coupling temperature T _u +ΔT	58 °C
Seal	Buna N (standard)

Input data for series: FN

Starting factor f _A	1.15
Installed motor power P _{mot}	75 kW
Effective input power rating P ₁	75 kW
Input speed n ₁	1485 1/min
Nominal operating torque T ₁	482.32 Nm
Ambient temperature	45 °C

Result data of the start calculation (estimation)

Connection 1 Hub carrier (Drive)

[L1H]	Hub variant:	Bore diameter 75 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L49]	axial locking:	with retaining screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Connection 2 Part 11 (Output)

[M1A]	Hub variant:	Bore diameter 45 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Mounting position:	Horizontal version
[STD]	Built-in components:	No additional internal add-on parts
[STD]	Thermal equipment:	Safety fuse 140°C, seals set NBR

Balancing

[STD]	Balancing quality:	Standard balancing
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Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Certificates

Datasheet FLENDER couplings FLUDEX FND 370

Design according to brochure: MD10.1

Ordering Data **2LC0900-8GC99-1AA0**
L1B +M0S



Client-Order-No:

Item-No:

1200

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[90]	Series:	FLUDEX
[GC]	Type:	FND
[08]	Size:	370
	Variant:	NL1=115

Input data for series: FN

Starting factor f_A	1.15
Installed motor power P_{mot}	22 kW
Effective input power rating P_1	22 kW
Input speed n_1	1465 1/min
Nominal operating torque T_1	143.41 Nm
Ambient temperature	45 °C

Result data for continuous operation

Oil filling quantity	6.39 l
Operating slip s	2.18 %
Power loss P_v	0.48 kW
Coupling temperature rise ΔT	8 K
Absolute coupling temperature $T_u + \Delta T$	53 °C
Seal	Buna N (standard)

Result data of the start calculation (estimation)

Connection 1 Hub carrier (Drive)

[L1B]	Hub variant:	Bore diameter 48 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L49]	axial locking:	with retaining screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Mounting position:	Horizontal version
[STD]	Built-in components:	No additional internal add-on parts
[STD]	Thermal equipment:	Safety fuse 140°C, seals set NBR

Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Connection 2 Part 11 (Output)

[M0S]	Hub variant:	Bore diameter 30 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Balancing

[STD]	Balancing quality:	Standard balancing
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Certificates

Datasheet FLENDER couplings FLUDEX FND 490

Design according to brochure: MD10.1

Ordering Data **2LC0901-1GC99-1AA0**
L1H +M1A

Client-Order-No:

Item-No:

1300

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data**Product selection**

[90]	Series:	FLUDEX
[GC]	Type:	FND
[11]	Size:	490
	Variant:	NL1=148

Power ratings at the coupling

Rated torque	-
Maximum speed	1800 rpm
Fatigue torque	-
Ambient temperature	-30...+45°C

Connection 1 Hub carrier (Drive)

[L1H]	Hub variant:	Bore diameter 75 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L49]	axial locking:	with retaining screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Connection 2 Part 11 (Output)

[M1A]	Hub variant:	Bore diameter 45 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Mounting position:	Horizontal version
[STD]	Built-in components:	No additional internal add-on parts
[STD]	Thermal equipment:	Safety fuse 140°C, seals set NBR

Balancing

[STD]	Balancing quality:	Standard balancing
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Certificates**Corrosion protection**

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Datasheet FLENDER couplings RUPEX RWN 450

Design according to brochure: MD10.1

Ordering Data **2LC0131-4AA99-0AA0**
L1S +M1S



Client-Order-No:

Item-No:

1400

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[13]	Series:	RUPEX
[AA]	Type:	RWN
[14]	Size:	450
[AA]	Scope of supply:	Complete coupling

Power ratings at the coupling

Rated torque	18500 Nm
Maximum speed	1800 rpm
Fatigue torque	3700 Nm
Ambient temperature	-30...+80°C

Connection 1 Part 1

[L1S]	Hub variant:	Bore diameter 120 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Connection 2 Part 2

[M1S]	Hub variant:	Bore diameter 120 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Flexible element:	elastomer buffers NBR 80 Shore A
[STD]	Special bolt:	Standard

Balancing

[STD]	Balancing quality:	Standard balancing
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Corrosion protection

[STD]	Conservation: 3 months	Cleaning emulsion - Indoor storage up to
[STD]	Paint coat:	No coating

Certificates

Datasheet FLENDER couplings RUPEX RWN 450 - Alternative

Design according to brochure: MD10.1

Ordering Data **2LC0131-4AA99-0AA0**
L1U +M1U



Client-Order-No:

Item-No:

1450

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[13]	Series:	RUPEX
[AA]	Type:	RWN
[14]	Size:	450
[AA]	Scope of supply:	Complete coupling

Power ratings at the coupling

Rated torque	18500 Nm
Maximum speed	1800 rpm
Fatigue torque	3700 Nm
Ambient temperature	-30...+80°C

Connection 1 Part 1

[L1U]	Hub variant:	Bore diameter 130 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Connection 2 Part 2

[M1U]	Hub variant:	Bore diameter 130 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Flexible element:	elastomer buffers NBR 80 Shore A
[STD]	Special bolt:	Standard

Balancing

[STD]	Balancing quality:	Standard balancing
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Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Certificates

Datasheet FLENDER couplings FLUDEX FND 490

Design according to brochure: MD10.1

Ordering Data **2LC0901-1GC99-1AA0**
L1H +M0U



Client-Order-No:

Item-No:

1500

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[90]	Series:	FLUDEX
[GC]	Type:	FND
[11]	Size:	490
	Variant:	NL1=148

Input data for series: FN

Starting factor f_A	1.15
Installed motor power P_{mot}	45 kW
Effective input power rating P_1	45 kW
Input speed n_1	1500 1/min
Nominal operating torque T_1	286.50 Nm
Ambient temperature	45 °C

Result data for continuous operation

Oil filling quantity	10.83 l
Operating slip s	3.39 %
Power loss P_v	1.53 kW
Coupling temperature rise ΔT	12 K
Absolute coupling temperature $T_u + \Delta T$	57 °C
Seal	Buna N (standard)

Result data of the start calculation (estimation)

Connection 1 Hub carrier (Drive)

[L1H]	Hub variant:	Bore diameter 75 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L49]	axial locking:	with retaining screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Mounting position:	Horizontal version
[STD]	Built-in components:	No additional internal add-on parts
[STD]	Thermal equipment:	Safety fuse 140°C, seals set NBR

Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Connection 2 Part 11 (Output)

[M0U]	Hub variant:	Bore diameter 35 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Balancing

[STD]	Balancing quality:	Standard balancing
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Certificates

Datasheet FLENDER couplings FLUDEX FND 565

Design according to brochure: MD10.1

Ordering Data **2LC0901-2GC99-1AA0**
L1J +M1G



Client-Order-No:

Item-No:

1600

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[90]	Series:	FLUDEX
[GC]	Type:	FND
[12]	Size:	565
	Variant:	NL1=178

Input data for series: FN

	Starting factor f_A	1.15
	Installed motor power P_{mot}	132 kW
	Effective input power rating P_1	132 kW
	Input speed n_1	1500 1/min
	Nominal operating torque T_1	840.40 Nm
	Ambient temperature	35 °C

Result data for continuous operation

Oil filling quantity	19.99 l
Operating slip s	2.50 %
Power loss P_v	3.30 kW
Coupling temperature rise ΔT	18 K
Absolute coupling temperature $T_u + \Delta T$	53 °C
Seal	Buna N (standard)

Result data of the start calculation (estimation)

Connection 1 Hub carrier (Drive)

[L1J]	Hub variant:	Bore diameter 80 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L49]	axial locking:	with retaining screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Mounting position:	Horizontal version
[STD]	Built-in components:	No additional internal add-on parts
[STD]	Thermal equipment:	Safety fuse 140°C, seals set NBR

Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Connection 2 Part 11 (Output)

[M1G]	Hub variant:	Bore diameter 70 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Balancing

[STD]	Balancing quality:	Standard balancing
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Certificates

Datasheet FLENDER couplings RUPEX RWN 560

Design according to brochure: MD10.1

Ordering Data **2LC0131-6AA99-0AA0**
L2A +M2A



Client-Order-No:

Item-No:

1700

Order-No:

Consignment-No:

Quotation-No:

Project:

Coupling - Basic data

Product selection

[13]	Series:	RUPEX
[AA]	Type:	RWN
[16]	Size:	560
[AA]	Scope of supply:	Complete coupling

Power ratings at the coupling

Rated torque	39000 Nm
Maximum speed	1450 rpm
Fatigue torque	7800 Nm
Ambient temperature	-30...+80°C

Connection 1 Part 1

[L2A]	Hub variant:	Bore diameter 170 mm
[L10]	Bore tolerance:	ISO H7
[L40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[L48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Connection 2 Part 2

[M2A]	Hub variant:	Bore diameter 170 mm
[M10]	Bore tolerance:	ISO H7
[M40]	Shaft-hub connection:	parallel keyway acc. to DIN 6885-1 (JS9)
[STD]	No. of keyways, offset:	one parallel keyway
[M48]	axial locking:	with set screw
[STD]	Balancing principle:	Balancing in accordance with half parallel key

Product specific options

[STD]	Flexible element:	elastomer buffers NBR 80 Shore A
[STD]	Special bolt:	Standard

Balancing

[STD]	Balancing quality:	Standard balancing
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Corrosion protection

[STD]	Conservation:	Cleaning emulsion - Indoor storage up to 3 months
[STD]	Paint coat:	No coating

Certificates