MOLEY
MAGNETICS & EQUIPMENT

ORANGE PEEL MAG GRAPPLE OWNER'S MANUAL

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D.2. TECHNICAL DATA

Model Number: MPV 1000 FH EL
Serial Number: 2011

CAPACITY:
Dynamic Capacity in lb: **11,023**
Static Capacity in lb: **15,432**

GRAB TECHNICAL SPECIFICATIONS :

Own weight (lb) : **5589**
Max. pressure (psi) : **4785**
Operating pressure (psi) : **4350-5076**
Magnet Voltage: **220v**
Power Supplied: **5.5kw**

NB: the data shown refer to correct equipment use.

Model Number: OR 1 S EL
Serial Number: 3399

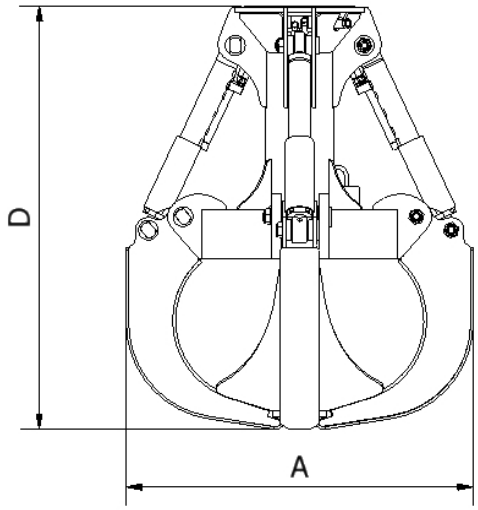
CAPACITY:
Dynamic Capacity in lb: **50,600**
Static Capacity in lb: **88,000**

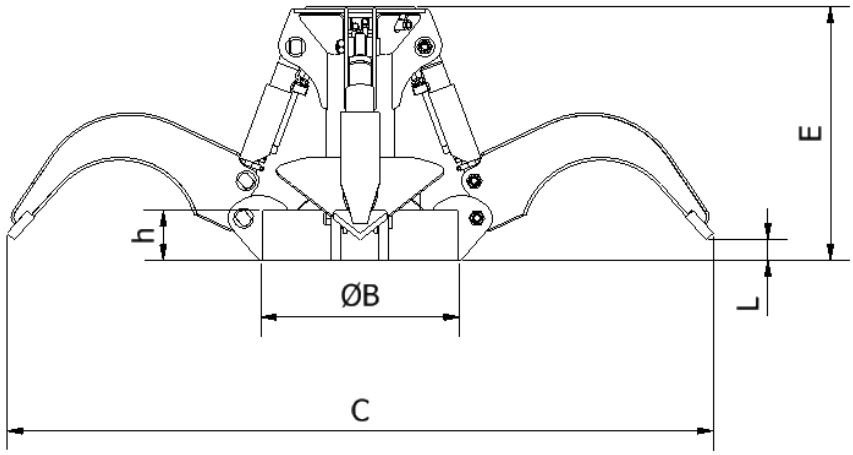
GRAB TECHNICAL SPECIFICATIONS :

Own weight (lb) : **594**
Max. pressure (psi) : **4351**
Max. flow gpm : **9**

NB: the data shown refer to correct equipment use.

DIAGRAMS





MODEL	DIMENSION (Inch)					
	A	ØB	C	D	E	L
MPV 1000/4 FH EL	70	40x9.84h	144	77	46	5

WARRANTY

ALL ORDERS FOR PRODUCT ARE SUBJECT TO THE FOLLOWING:

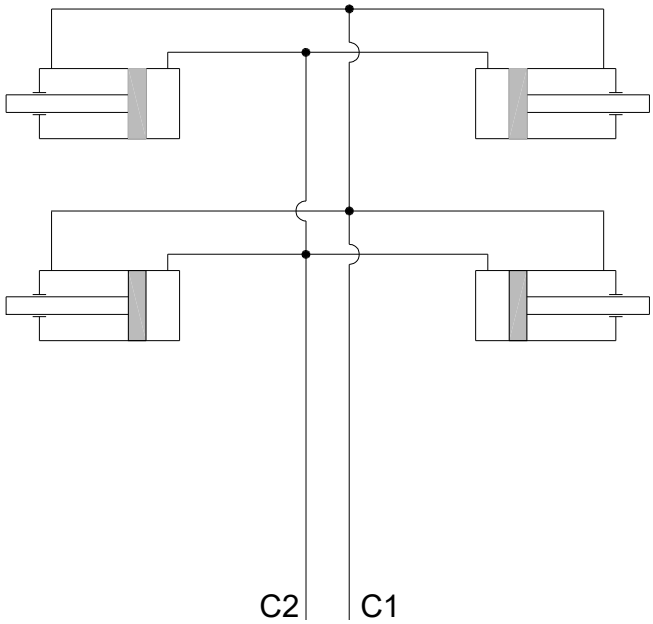
Moley Magnetics, Inc. warranties each product to be free from defects in material and workmanship under normal use and service. Moley Magnetics obligation under this warranty is limited to repairing or supplying, at our option, a part or parts to replace any defective part or parts which fail, within one (1) year from date of original sale with the exception of grapples which are within two (2) years from date of original sale. We do not cover labor or downtime. No product shall be returned without prior authorized approval. Unauthorized returns will not be accepted.

The provisions of this warranty shall not apply to any part or parts which have been subject to misuse, negligence or accident, or which have been repaired or altered outside of Moley Magnetics' service department in any way, so, as in the judgment of Moley Magnetics to affect adversely its performance, stability or reliability.

Moley Magnetics neither assumes nor authorizes anyone to assume for it any other obligation or liability for any loss or damage, either direct, incidental or consequential, resulting from or arising out of, or in connection with, any of its defective part or parts.

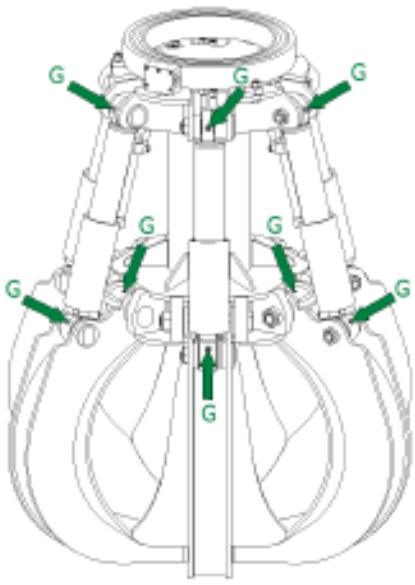
All warranty repairs need to be approved by Moley Magnetics, Inc.

HYDRAULIC CIRCUIT DIAGRAM

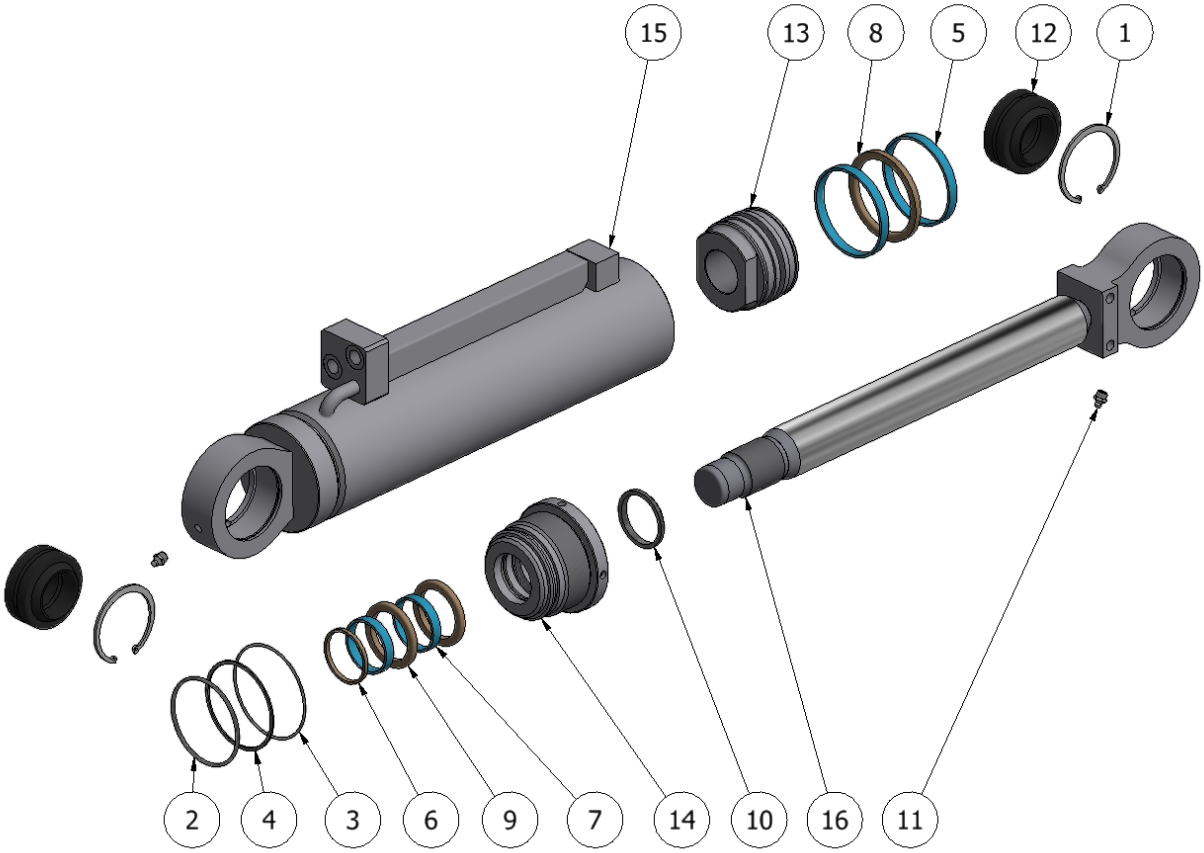


D.3. GREASING DIAGRAM

Grease every 8 hours, recommended grease MOBILUX EP2

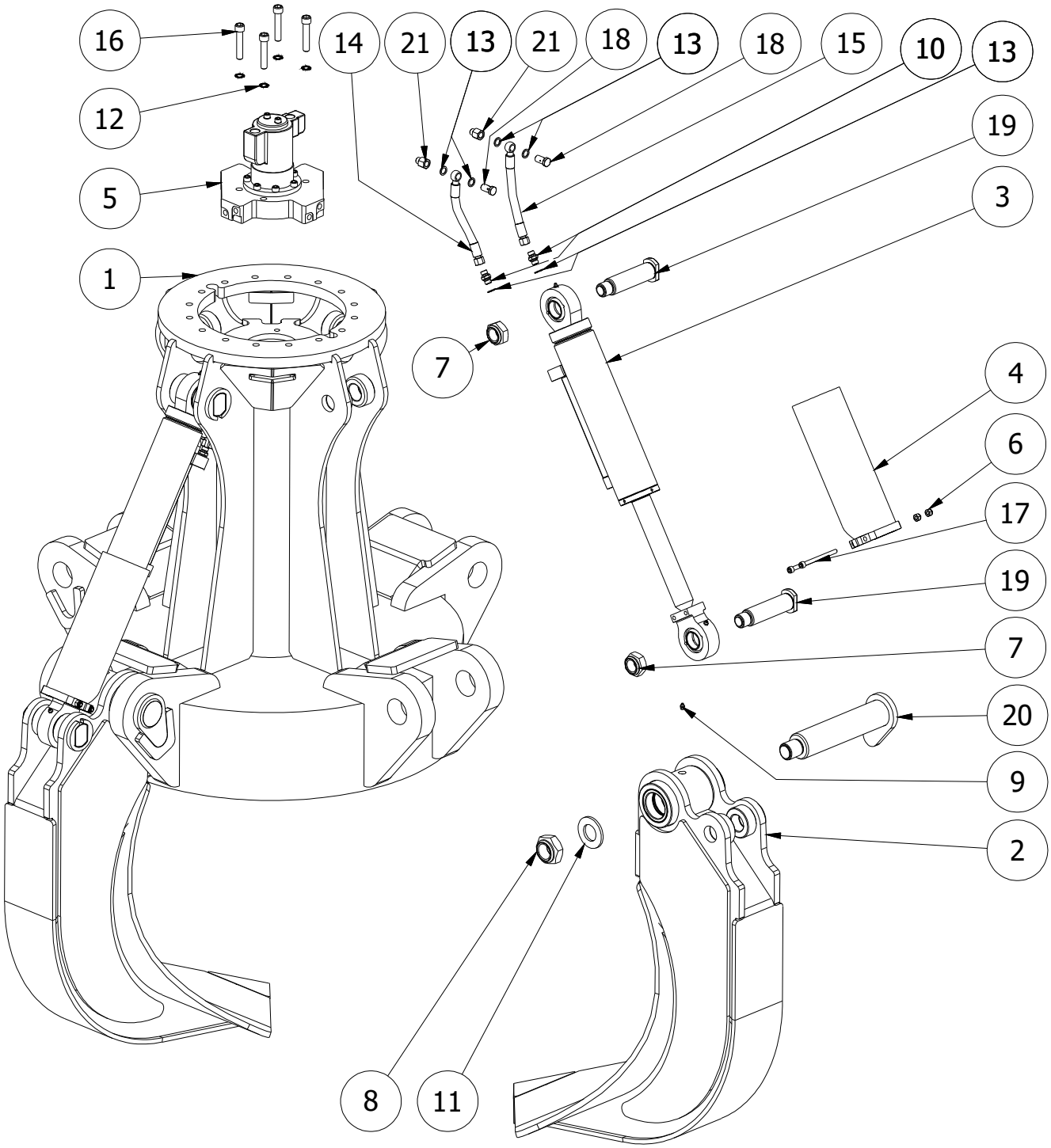


SPARE PART EXPLODED DIAGRAM MPV FH EL



Pos.	Description	Qty	Code
1	Elastic Ring UNI 7437 Ø75	2	C.AE0.075.0000.00
2	Gasket OR 236	1	C.G00.00R.0236.00
3	Gasket OR 536	1	C.G00.00R.0536.00
4	Gasket 2-236	1	C.G00.PK2.0236.00
5	Gasket TRELLEBORG GP6900900-C380	2	C.G30.GP6.9090.01
6	Gasket TRELLEBORG GR6400500-T47	1	C.G30.GR6.4050.01
7	Gasket TRELLEBORG GR6900500-C380	2	C.G30.GR6.9050.01
8	Gasket TRELLEBORG PT0300900-T46N	1	C.G30.PT0.3090.01
9	Gasket TRELLEBORG RSK300500-T46N	2	C.G30.RSK.3050.01
10	Gasket TRELLEBORG WSW000500-Z201	1	C.G30.WSW.0050.01
11	Greasing Point M10x1 Dritto	2	C.IG0.010.0010.00
12	Spherical Bearing SKF GEH 45 ES-2RS	2	C.S01.001.0450.01
13	Cylinder Piston Ø90-M45	1	N.CPI.090.0M45.00
14	Cylinder Closing Plug Ø50-90-73	1	N.CT0.050.0090.01
15	Cylinder Sleeve Ø90-300	1	P.CC0.090.0300.01
16	Cylinder Rod Ø50-573 - P45	1	P.CS0.050.0573.45

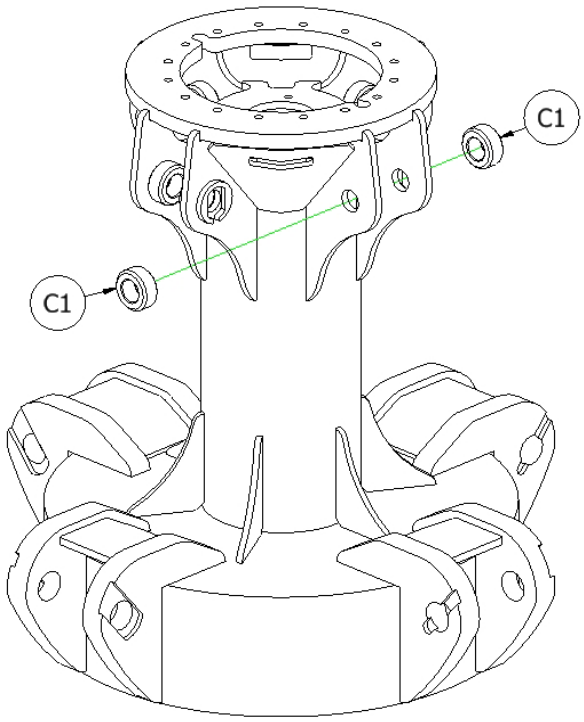
MPV 1000/4 FH EL SPARE PARTS LIST



MPV 1000/4 FH EL SPARE PARTS LIST

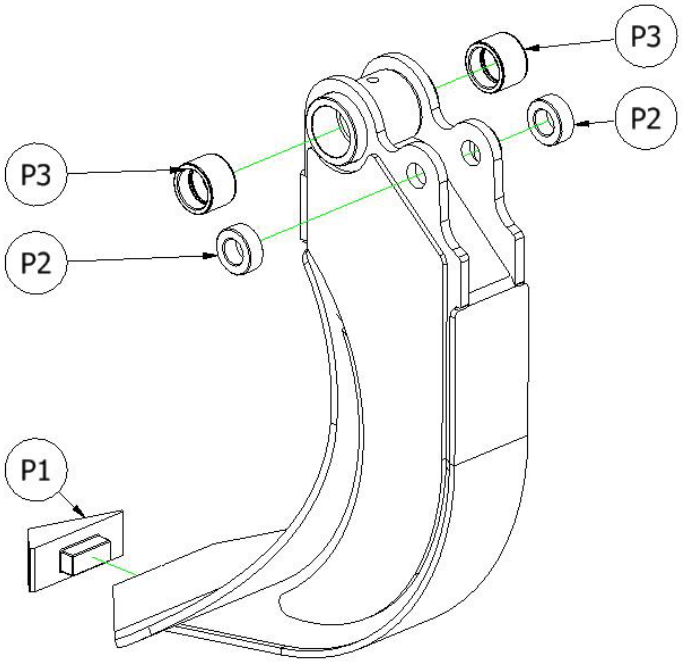
Pos.	Description	Qty	Code
1	MPV 1000/4 FH EL Body	1	A.010.270.1000.004.0B
2	MPV 1000/4 FH EL Finger	4	A.020.270.1000.004.0A
3	Cylinder Ø90-300 MPV FH – with brake	4	A.500.090.0300.001.00
4	Cylinder Ø90-300 Protection	4	A.600.050.0090.0A0.0A
5	Manifold MPV FH 310x50 – 4 ways	1	B.030.050.0310.004.0F
6	Self-locking Nut M10 low	8	C.D01.010.0000.B00.00
7	Self-locking M36x3 H27	8	C.D01.036.0030.027.00
8	Self-locking M45x3 H34	4	C.D01.045.0030.034.00
9	Nipple Grease M10x1 straight	4	C.IG0.010.0010.000.00
10	Male/Male Adaptor G3/8	8	C.ND0.G38.0000.000.00
11	Washer Ø48x85 H7	4	C.R00.048.0085.007.00
12	Washer Schnorr Ø16	4	C.R03.016.0000.000.00
13	Washer Bonded G3/8	24	C.RB0.G38.0000.000.00
14	Rubber Hose R2 (Banjo Fitting G3/8-Female Straight Fitting G3/8) L=240	4	C.T01.051.0240.053.00
15	Rubber Hose R2 (Banjo Fitting G3/8-Female Straight Fitting G3/8) L=260	4	C.T01.051.0260.053.00
16	Screw TCE M16x80 – 12.9	4	C.V02.016.0080.003.00
17	Zinc-plated Screw TCE M10x120 - 8.8	8	C.V12.010.0120.001.00
18	Drilled Screw G3/8	8	C.VF0.G38.0000.000.00
19	Molded Head Pin Ø45-150	8	N.P10.045.0150.000.00
20	Welded Head Pin Ø70-302	4	N.P20.070.0302.000.00
21	Extension G3/8-G3/8 L=20 - CH.24x33	8	N.PR0.G38.0033.024.00

MPV 1000/4 FH EL BODY SPARE PARTS EXPLODED



Pos.	Description	Qty	Code
C1	Collar Boss Ø45-Ø82-37	8	N.A00.045.0082.037.00

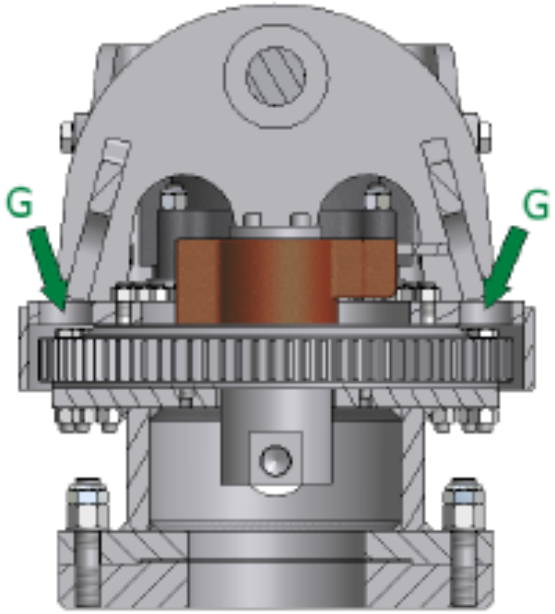
MPV 1000/4 FH EL FINGER SPARE PARTS EXPLODED

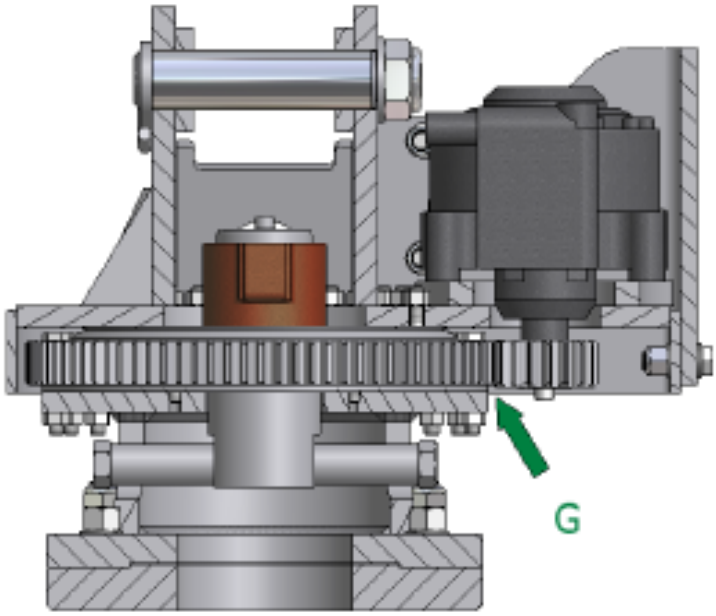


Pos.	Description	Qty	Code
P1	Finger Tip 80x120 - 4 fingers (DPU10A)	1	N.900.080.0120.004.0A
P2	Collar Boss Ø45-Ø82-32	2	N.A00.045.0082.032.00
P3	Bushing 90x70x60 GIR SP.NU	2	N.B01.090.0060.070.00

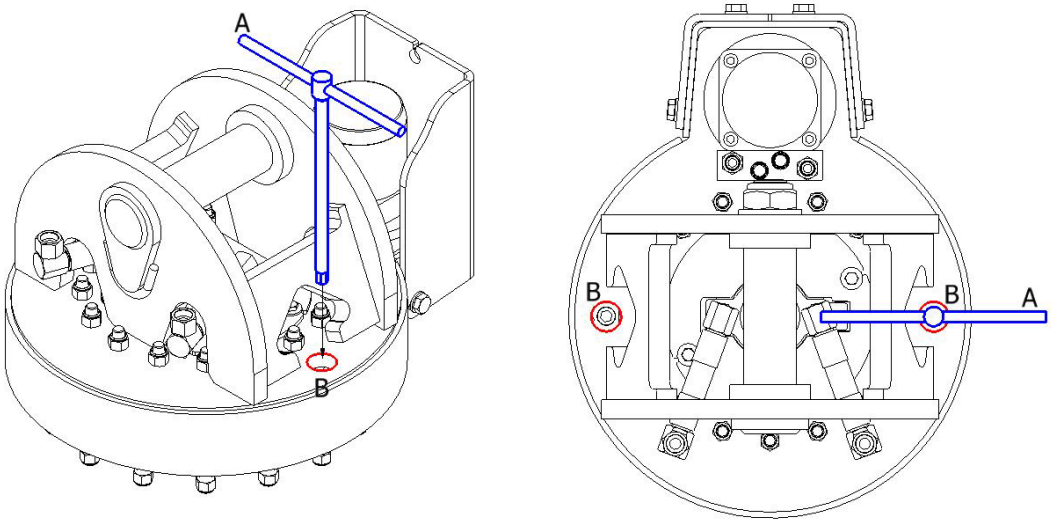
D.3. GREASING DIAGRAM

Greasing evry 8 hours, recommended grease: MOBILUX EP2
MOBILTAC 81

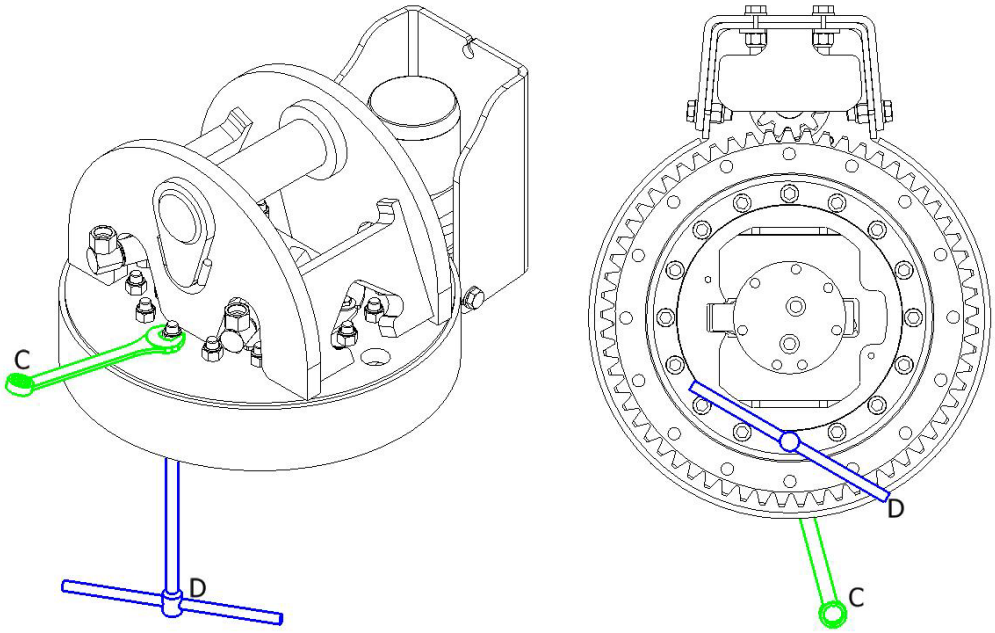




DISASSEMBLY SKEW BEARING

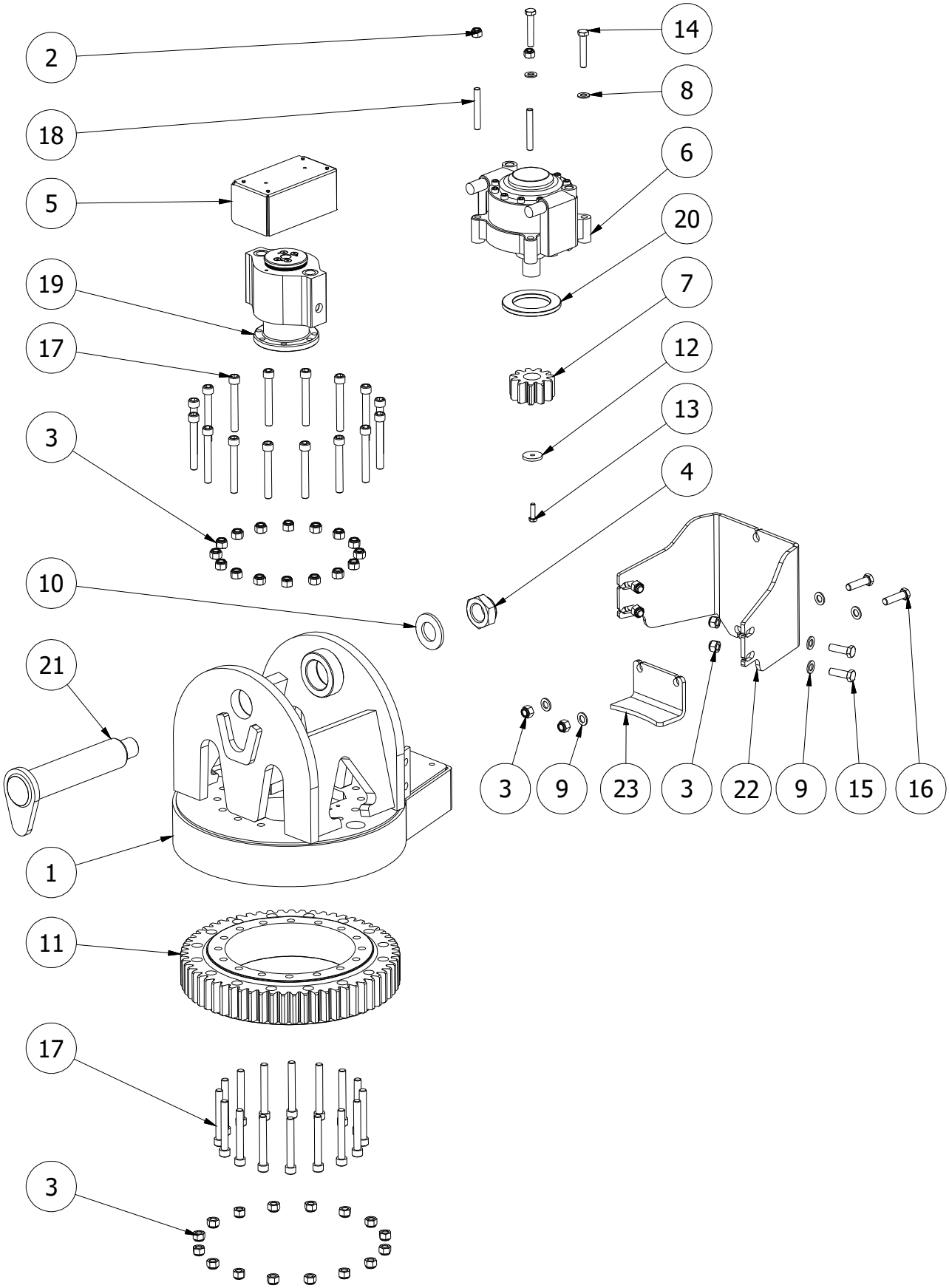


1. Spin the rotator's body in order to center the screw hexagon in the predisposed "B" hole.
2. Insert the wrench "A" into "B" hole, to hook the screw hexagon, then proceed to the screw. (Repeat phase 1 and 2 for all the fixing screw on the machine)
3. Once removed all the screw, proceed carefully to remove the rotator from the machine.



4. Remove all the linking screws to the Skew Bearing, as shown in the drawing, unscrewing them with the "D" wrench and blocking the nut with the "C" wrench.
5. Once all the remaining screws have been removed, the Skew Bearing should get off easily.

SPARE PARTS EXPLODED OR 1 S EL



Pos.	Description	Qty	Code
1	OR 1 S EL Body	1	A.010.100.0010.0EL.0B
2	Self-Locking Nut M14	2	C.D01.014.0000.B00.00
3	Self-Locking Nut M16	38	C.D01.016.0000.A00.00
4	Self-Locking Nut M45x3 H34	1	C.D01.045.0030.034.00
5	Electrical Manifold 100 A	1	K.E00.M30.0100.000.00
6	Carminati Hydraulic Motor - 500 cm³	1	C.MI0.100.0000.000.00
7	Pinion Z=11 M=8	1	C.PG0.101.0000.000.00
8	Washer Ø14	2	C.R00.014.0000.000.00
9	Washer Ø16	8	C.R00.016.0000.000.00
10	Washer Ø48x85 H7	1	C.R00.048.0085.007.00
11	Slew Ring Ø50 for OR 1 - E.2.050-404	1	C.RA0.101.0000.000.00
12	Pinon Stopper Washer OR	1	C.RP0.100.0000.000.00
13	Screw TE M10x35 - 8.8	1	C.V01.010.0035.001.00
14	Screw TE M14x80	2	C.V01.014.0080.001.00
15	Screw TE M16x50	4	C.V01.016.0050.001.00
16	Screw TE M16x60	2	C.V01.016.0060.001.00
17	Screw TCE M16x120 - 8.8	32	C.V02.016.0120.001.00
18	Traped Screw M14x100 (inner part L=22)	2	C.VP0.014.0100.000.00
19	Minelli Manifold Ø80 G 3/4	1	G.M30.G34.0080.0E2.0D
20	Carminati Motor Flange	1	N.040.102.0000.C00.00
21	Welded Head Pin Ø70-302.	1	N.P20.070.0302.000.00
22	Motor Protection OR	1	S.600.100.0000.000.0A
23	Pinion Protection OR 1	1	S.600.101.0010.S00.00