

PARTS LIST

V17

MULTIPLE USE CUTTER/CRUSHER



SUPPLY PERIOD OF SPARE PARTS

Thank you for purchasing a Furukawa Rock Drill product.

Please note that the supply of spare parts will be assured for 10 years after the termination of production. Although the supply of spare parts is terminated in principle at the maturity of the subject supply period, we may be able to supply them upon request even after the expiration of the supply period on condition that the delivery date and price are subject to negotiation.

Even if it is within the supply period, however, the delivery date, price, etc. may be subject to negotiation when it is difficult to keep stocks should the purchased parts, such as electronic parts, etc., be not available because the manufacturer does not produce them anymore.

If you have any questions about any particular model subject to the warranty as stated above and the time limit of spare parts supply, please contact your nearest FRD Europe B.V. distributor.



USING THE PARTS LIST

1. This parts list describes the components of a multiple use cutter/crusher.
2. When ordering a part, refer to the illustrations and lists in this parts list and then inform the FRD Europe B.V. distributor in your area of the following items.
 - (1) Model name
 - (2) Serial No.
 - (3) Part No.
 - (4) Part name
 - (5) Quantity
3. Use "Genuine Furukawa Rock Drill Parts" when replacing all parts.
4. The illustrations in this parts list show the positions and shapes of the parts so that a user can order a part without any problem.

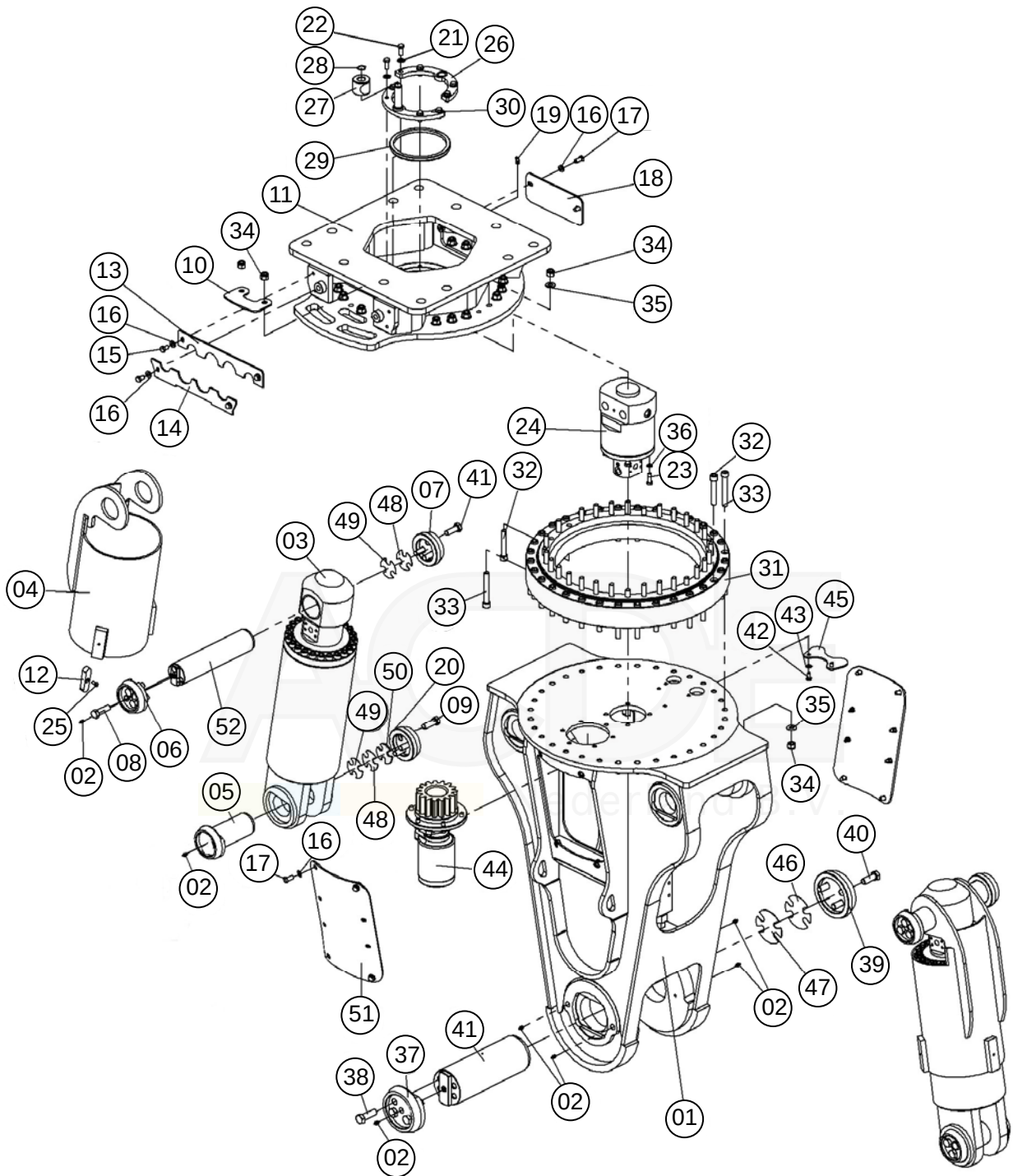
Do not repair a multiple use cutter/crusher by using this parts list.
5. The parts in this list are subject to change for improvement without notice on the part of the manufacturer.

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CUTTER/CRUSHER FRAME ASSEMBLY



CUTTER/CRUSHER FRAME ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V17-02501	FRAME ASSEMBLY	1	SEE PAGE 02-01
02	VS30E-02508	GREASE NIPPLE	9	
03	V17-91001	HYDRAULIC CYLINDER	2	
04	V17-01018	ROD GUARD	2	
05	VR15ER-02502	CYLINDER PIN - LOWER	2	
06	VM19ER-02514	COVER	2	
07	VM19ER-02515	COVER	2	
08	101032-18050	HEXAGON BOLT	12	
09	VR15ER-02503	HEXAGON BOLT	6	
10	VR15ER-02511	COVER	1	
11	V17-02201	FLAT TOP BRACKET	1	M18 X 50 10.9
12	V22-02502	ANTI VIBRATION BLOCK	6	
13	VM19ER-02518	DUST COVER	1	
14	VM19ER-02519	DUST COVER	1	
15	101022-12020	HEXAGON BOLT	4	
16	145012-12000	SPRING WASHER	14	
17	101022-12025	HEXAGON BOLT	10	
18	VM19ER-02505	PROTECTION COVER	1	
19	VM19ER-02531	GREASE NIPPLE	1	
20	VR15ER-02517	COVER	2	
21	VM19ER-02528	WASHER	8	M12
22	101032-12030	HEXAGON BOLT	8	M12 X 30 10.9
23	VM19ER-08511	HEXAGON BOLT	4	M12 X 30 10.9
24	VR15ER-94001	HYDRAULIC SWIVEL JOINT ASSEMBLY	1	
25	V4-02515	COUNTERSUNK SCREW	6	
26	VR15ER-02506	SEMI CIRCULAR LOCKING RING	1	
27	VR15ER-02507	ANTI ROTATION BLOCK	1	
28	VM19ER-02512	CIRCLIP	1	
29	VM19ER-02508	SEAL	1	
30	VR15ER-02505	SEMI CIRCULAR LOCKING RING	1	
31	VR15ER-93001	SWIVEL BEARING	1	
32	VR15ER-02512	HEXAGON SOCKET BOLT	12	
33	VR15ER-02513	HEXAGON SOCKET BOLT	28	M14
34	VR15ER-02514	SELF LOCKING NUT	28	
35	140112-14000	FLAT WASHER	28	M14
36	VS30E-03507	SPRING WASHER	4	
37	VR15ER-02626	COVER	1	

CUTTER/CRUSHER FRAME ASSEMBLY

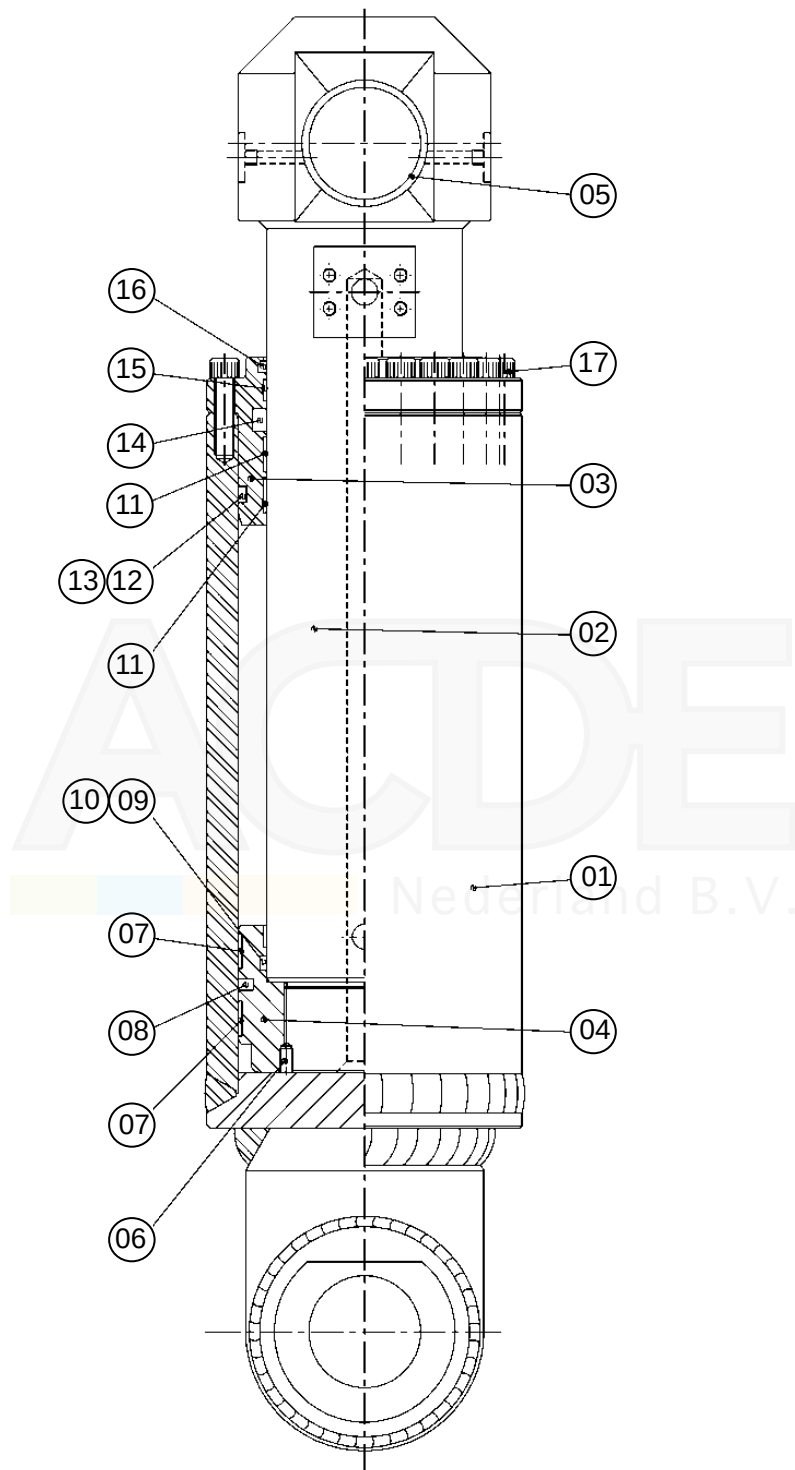
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
38	101032-20065	HEXAGON BOLT	3	M20 X 65 10.9
39	VM32ER-02514	COVER	1	
40	101032-20050	HEXAGON BOLT	3	M20 X 50 10.9
41	V17-02502	CENTRE PIN	1	
42	101022-10020	HEXAGON BOLT	2	M10 X 20 8.8
43	145012-10000	SPRING WASHER	2	M10
44	**	ROTATION MOTOR ASSEMBLY	**	SEE PAGE 03-01
45	V17-02503	COVER	1	
46	VM32ER-02516	SHIM	**	AS REQUIRED
47	V17-02504	SHIM	**	AS REQUIRED
48	V22-02505	SHIM	**	AS REQUIRED
49	VM19ER-02517	SHIM	**	AS REQUIRED
50	VM19ER-02516	SHIM	**	AS REQUIRED
51	VM19ER-02504	COVER	2	
52	V17-02505	CYLINDER PIN - UPPER	2	
**	V17-91011	HYDRAULIC CYLINDER SEAL KIT	**	**
**	VM19ER-94011	HYDRAULIC SWIVEL JOINT SEAL KIT	**	**
**	V26-98011	ROTATION MOTOR SEAL KIT	**	**

SERVICE MEMO

Service memo template with horizontal lines for writing.



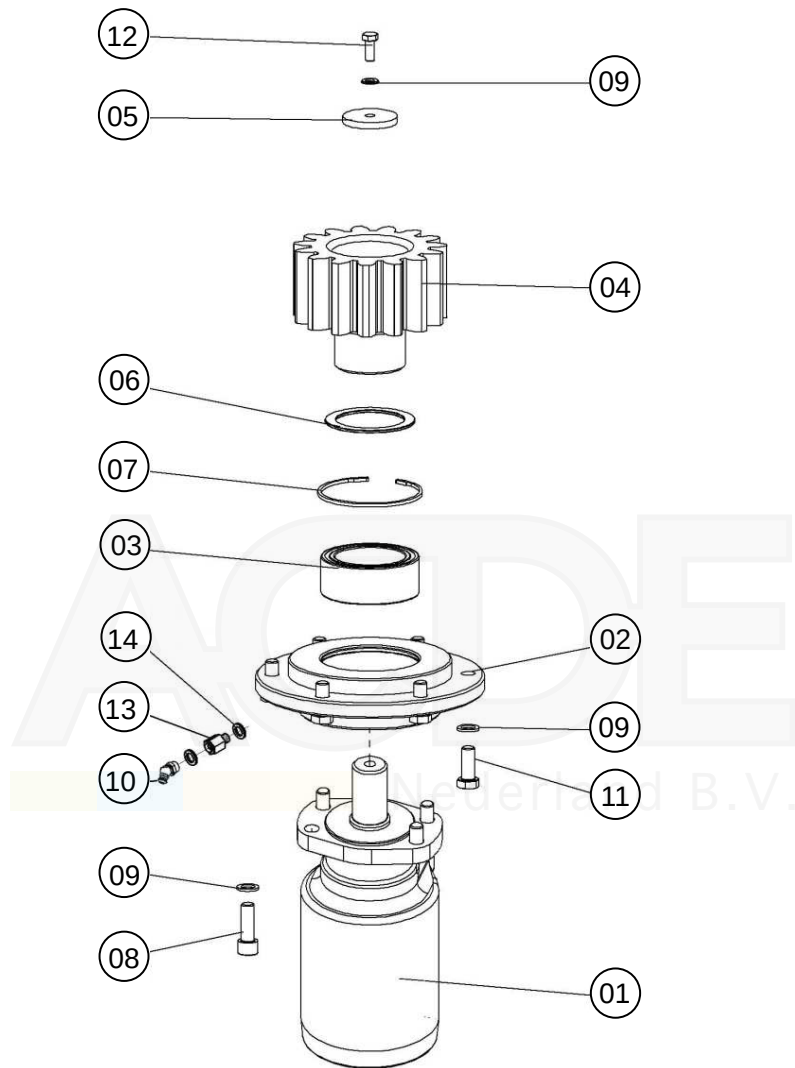
HYDRAULIC CYLINDER



HYDRAULIC CYLINDER

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	V17-91001	HYDRAULIC CYLINDER ASSEMBLY	1	(ITEMS 1 - 17)
01	V17-01501	CYLINDER TUBE	1	
02	V17-01502	PISTON ROD	1	
03	V17-01503	PISTON HEAD	1	
04	V17-01504	PISTON	1	
05	V17-01505	BUSHING	2	
06	V17-01506	SET SCREW	2	
07	V17-01507	WEAR RING	2	
08	V17-01508	PISTON SEAL	1	
09	V17-01509	PISTON SEAL	1	
10	V17-01510	PISTON SEAL	2	
11	V17-01511	WEAR RING	2	
12	V17-01512	SEAL	1	
13	V17-01513	SEAL	2	
14	V17-01514	ROD SEAL	1	
15	V17-01515	GUIDE RING	1	
16	V17-01516	SCRAPER RING	1	
17	V17-01517	HEXAGON SOCKET BOLT	24	
**	V17-91011	CYLINDER SEAL KIT	**	(ITEMS 7 - 16)

ROTATION MOTOR ASSEMBLY

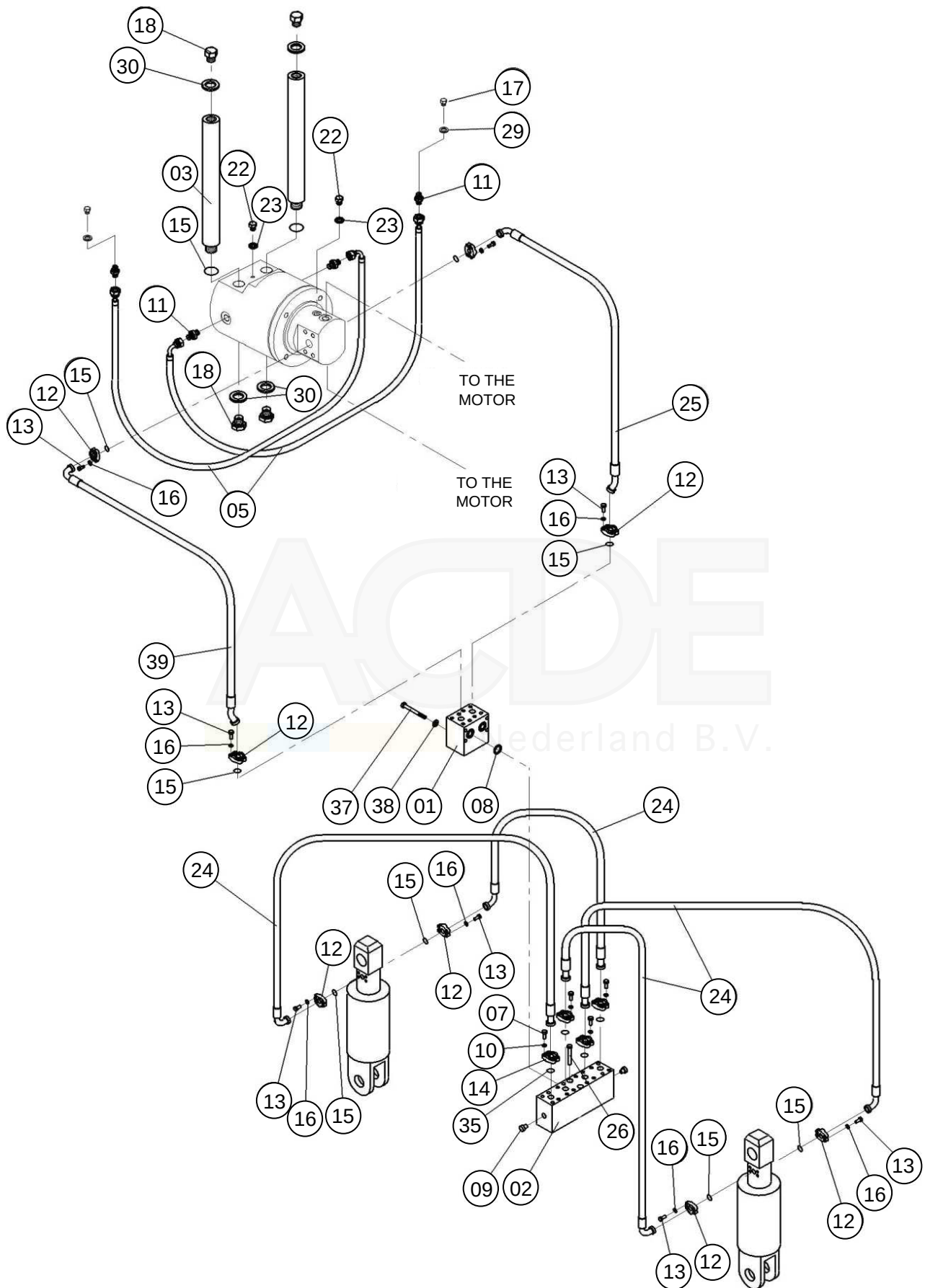


ROTATION MOTOR ASSEMBLY

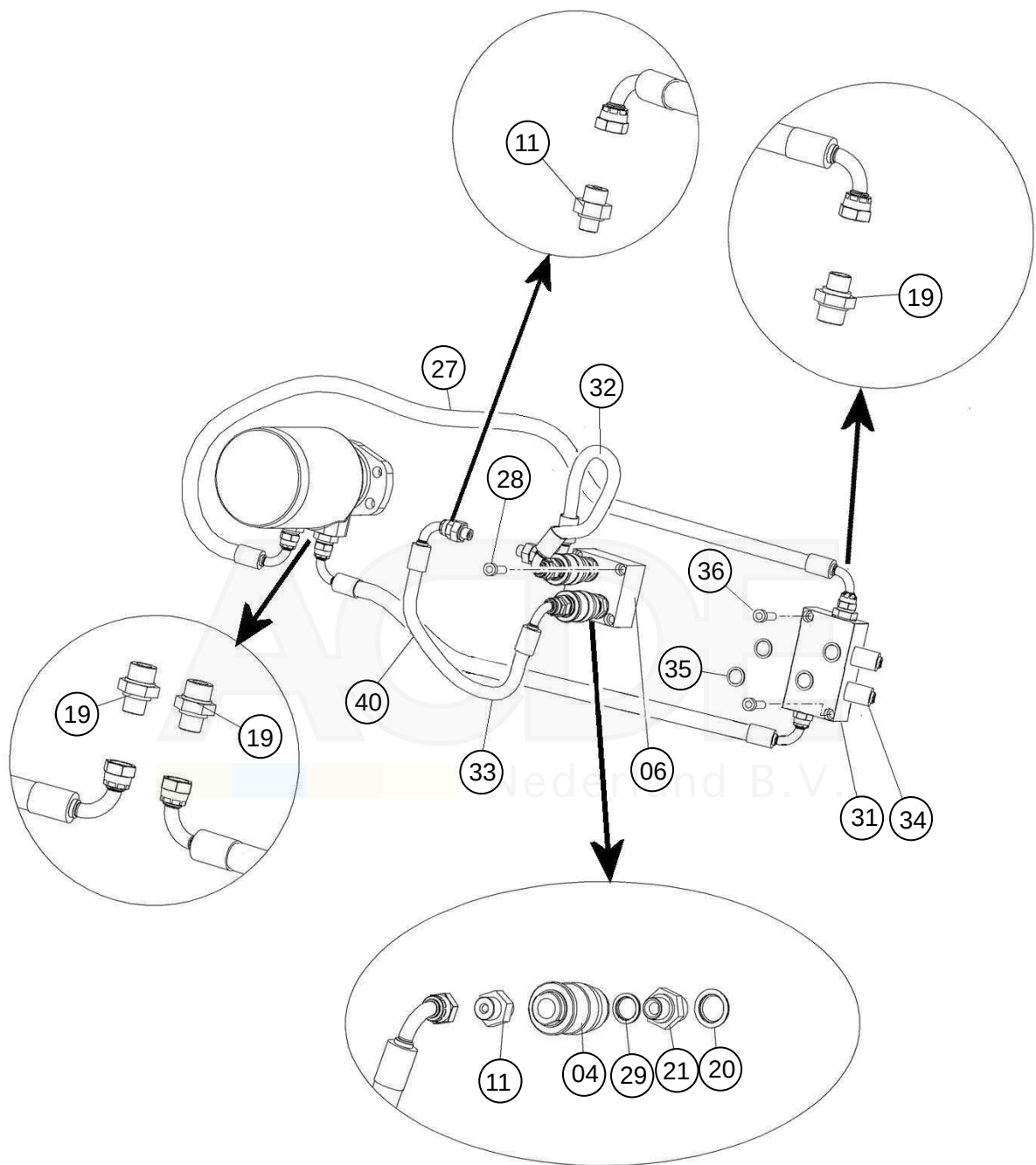
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	VM19ER-08116	ROTATION MOTOR	1	M12 X 30 10.9
02	VR15ER-08501	FLANGE	1	
03	VM19ER-08502	BEARING	1	
04	VR15ER-08502	GEAR	1	
05	VM19ER-08504	FLANGE	1	
06	VM19ER-08505	SHIM	1	
07	VM19ER-08506	CIRCLIP	1	
08	VM19ER-08507	HEXAGON SOCKET BOLT	4	
09	VM19ER-08508	WASHER	10	
10	VM19ER-02531	GREASE NIPPLE	1	
11	101032-12030	HEXAGON BOLT	6	
12	VM19ER-08511	HEXAGON BOLT	1	
13	V17-08501	EXTENSION	1	
14	VM32ER-03515	SEAL	2	
**	V26-98011	ROTATION MOTOR SEAL KIT	**	

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HYDRAULIC SYSTEM



HYDRAULIC SYSTEM

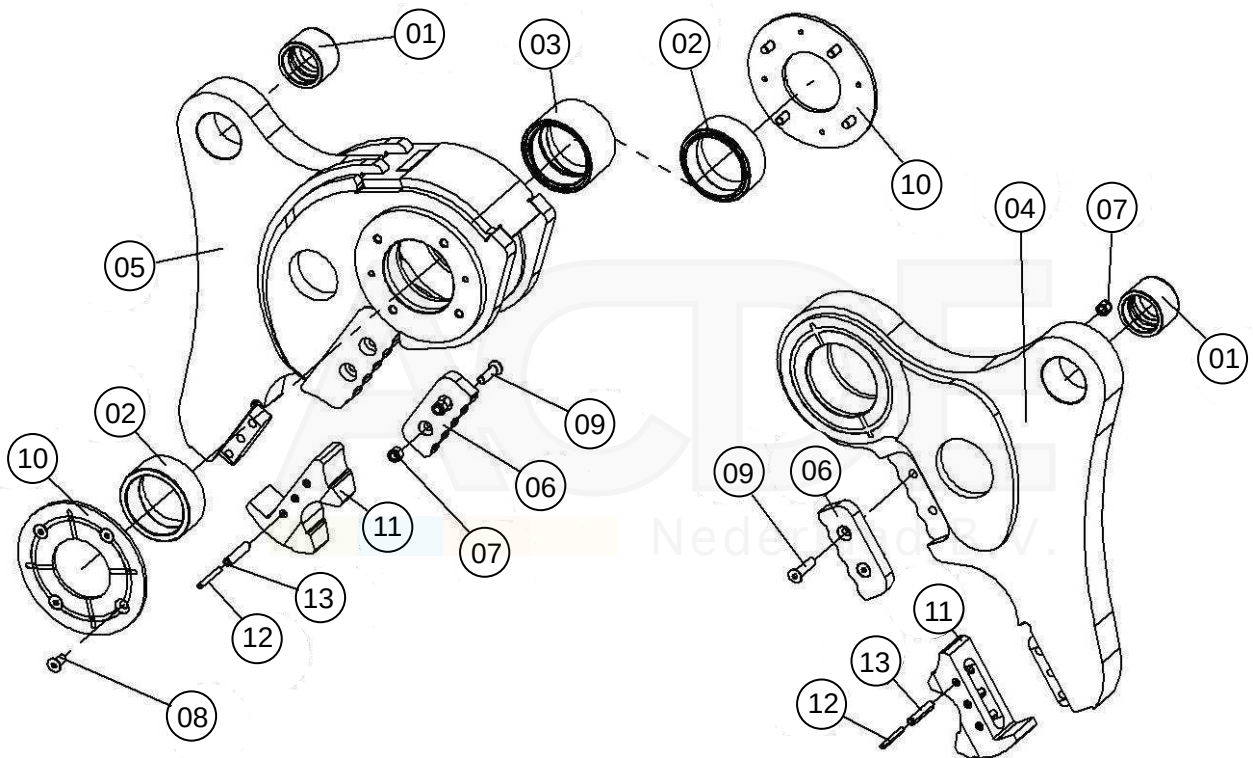


HYDRAULIC SYSTEM

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	VM19ER-94017	ACCELERATION VALVE ASSEMBLY	1	M10 x 30 10.9
02	V17-03501	DISTRIBUTION BLOCK	1	
03	VR15ER-03501	EXTENSION TUBE	2	
04	VM19ER-03503	VALVE	2	
05	VM19ER-03504	HOSE ASSEMBLY	2	
06	VM19ER-03511	DISTRIBUTION BLOCK	1	
07	VR4ER-03506	HEXAGON SOCKET BOLT	16	
08	VM19ER-03519	O-RING	2	
09	V17-03502	PLUG	2	
10	VR4ER-03507	WASHER	16	
11	VM32ER-03510	CONNECTOR	8	
12	VM19ER-03505	SPLIT FLANGE	8	
13	101032-10030	HEXAGON BOLT	32	
14	VR4ER-03508	SPLIT FLANGE	4	
15	VM32ER-03508	O-RING	10	
16	VM19ER-03506	SPRING WASHER	32	
17	VM19ER-03512	PLUG	2	
18	VR15ER-03506	PLUG	4	
19	VM32ER-03524	CONNECTOR	4	
20	VM19ER-03527	SEAL	2	
21	VM19ER-03526	CONNECTOR	2	
22	VM19ER-03515	PLUG	3	
23	VM19ER-03516	SEAL	3	
24	V17-03503	HOSE ASSEMBLY	4	
25	V17-03504	HOSE ASSEMBLY	1	
26	V17-03505	HEXAGON SOCKET BOLT	2	
27	V17-03506	HOSE ASSEMBLY	1	
28	VR15ER-03503	HEXAGON SOCKET BOLT	4	
29	VM19ER-03520	SEAL	4	
30	VR7ER-03505	SEAL	4	
31	VM19ER-03525	VALVE BLOCK	1	
32	VR15ER-03505	HOSE ASSEMBLY	1	
33	V17-03507	HOSE ASSEMBLY	1	
34	VM19ER-03528	PRESSURE TEST CONNECTOR	2	
35	VM19ER-03529	SEAL	6	
36	102032-10040	HEXAGON SOCKET BOLT	2	M10 x 40 10.9
37	VM19ER-03517	HEXAGON SOCKET BOLT	4	

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
38	145012-10000	SPRING WASHER	4	M10
39	V17-03508	HOSE ASSEMBLY	1	
40	V17-03509	HOSE ASSEMBLY	1	

STANDARD (P) JAW ASSEMBLY

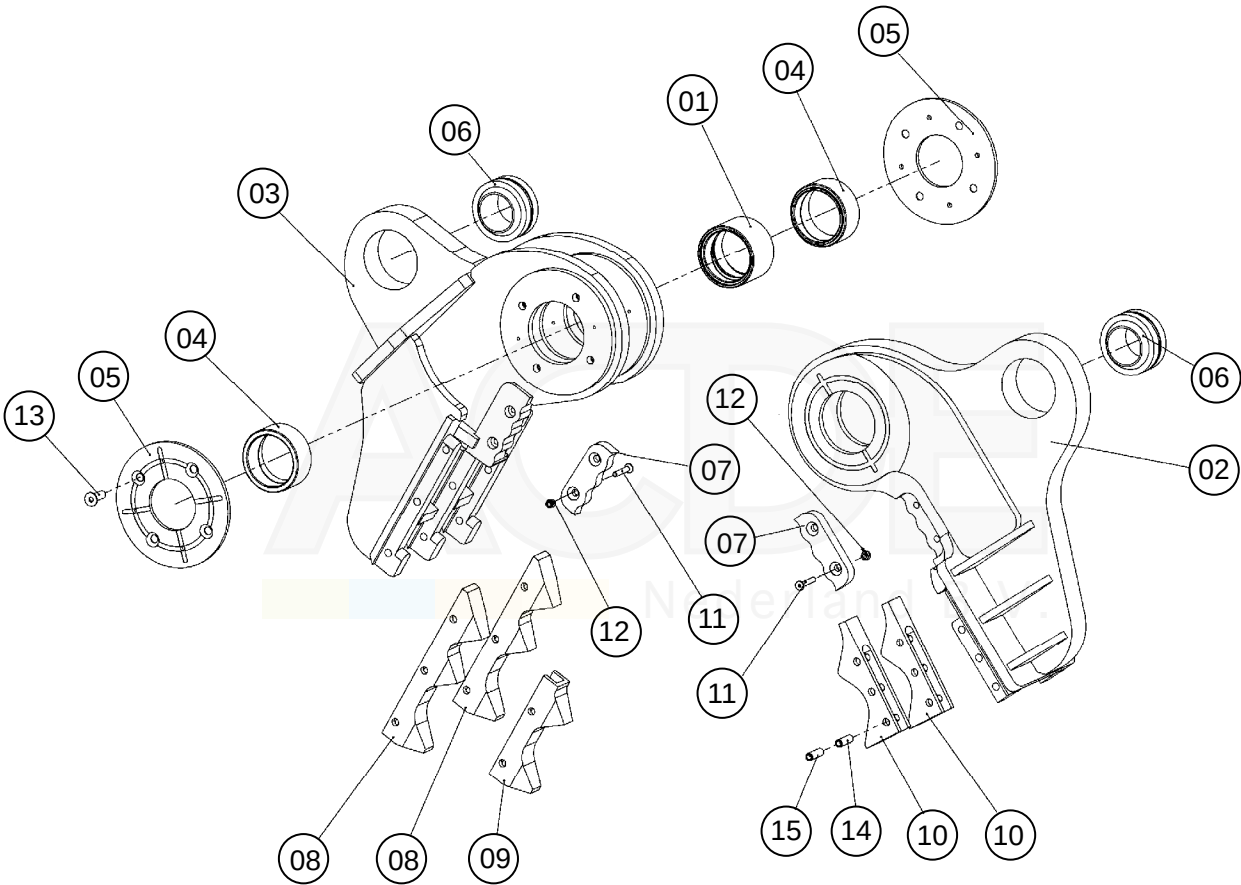


STANDARD (P) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V22P-02801	BUSHING	2	M16 M16 X 40 10.9
02	V17P-02801	BUSHING	2	
03	V17P-02802	BUSHING	1	
04	V17P-02803	JAW (M)	1	
05	V17P-02804	JAW (F)	1	
06	V22S-02804	CUTTER BLADE	2	
07	V4-02516	SELF-LOCKING NUT	4	
08	VM32ER-02526	COUNTERSUNK SCREW	8	
09	V4C-02805	COUNTERSUNK SCREW	4	
10	V17P-02805	RETAINING PLATE	2	
11	V17P-02806	TOOTH	2	
12	154037-01191	SPRING PIN	6	
13	154037-01266	SPRING PIN	6	

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SECONDARY (S) JAW ASSEMBLY

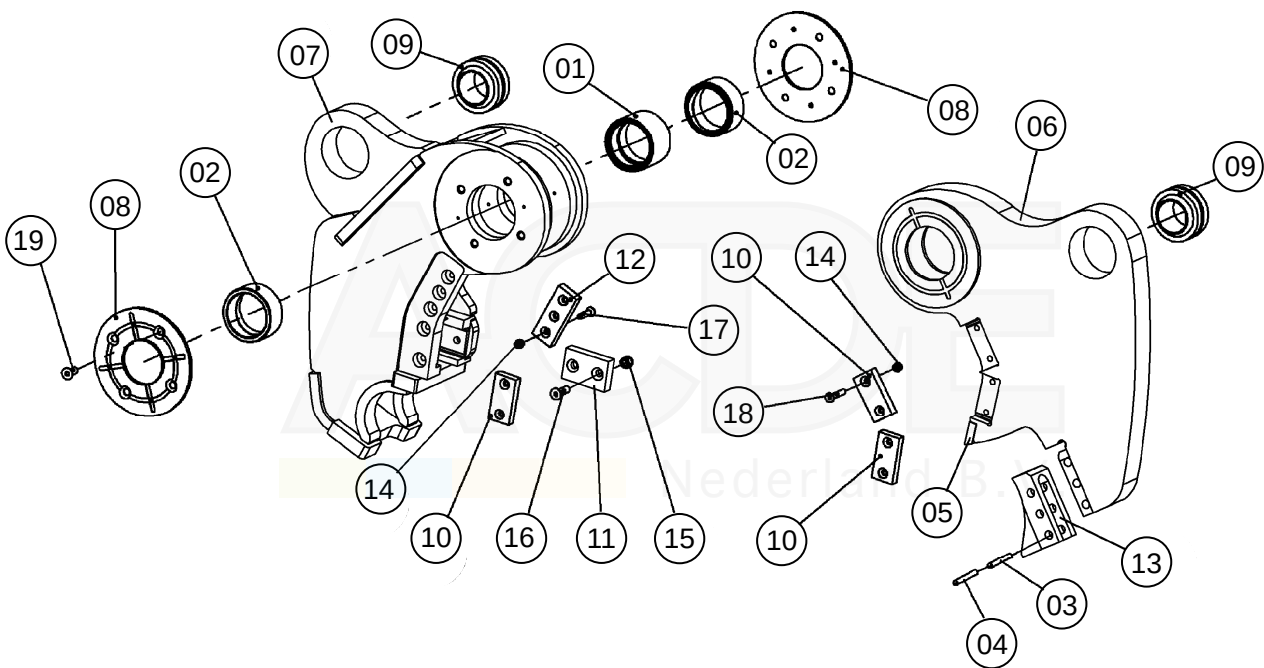


SECONDARY (S) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V17P-02802	BUSHING	1	
02	V17S-02801	JAW (M)	1	
03	V17S-02802	JAW (F)	1	
04	V17P-02801	BUSHING	2	
05	V17S-02803	RETAINING PLATE	2	
06	V22S-02801	SPHERICAL BUSHING	2	
07	V22S-02804	CUTTER BLADE	2	
08	V22S-02806	TOOTH	2	
09	V17S-02804	TOOTH	1	
10	V17S-02805	TOOTH	2	
11	V4C-02805	COUNTERSUNK SCREW	4	M12 X 60 10.9
12	V4-02516	SELF-LOCKING NUT	4	M12
13	VS40E-02509	COUNTERSUNK SCREW	8	
14	V22S-02808	SPRING PIN	14	
15	V22S-02807	SPRING PIN	14	

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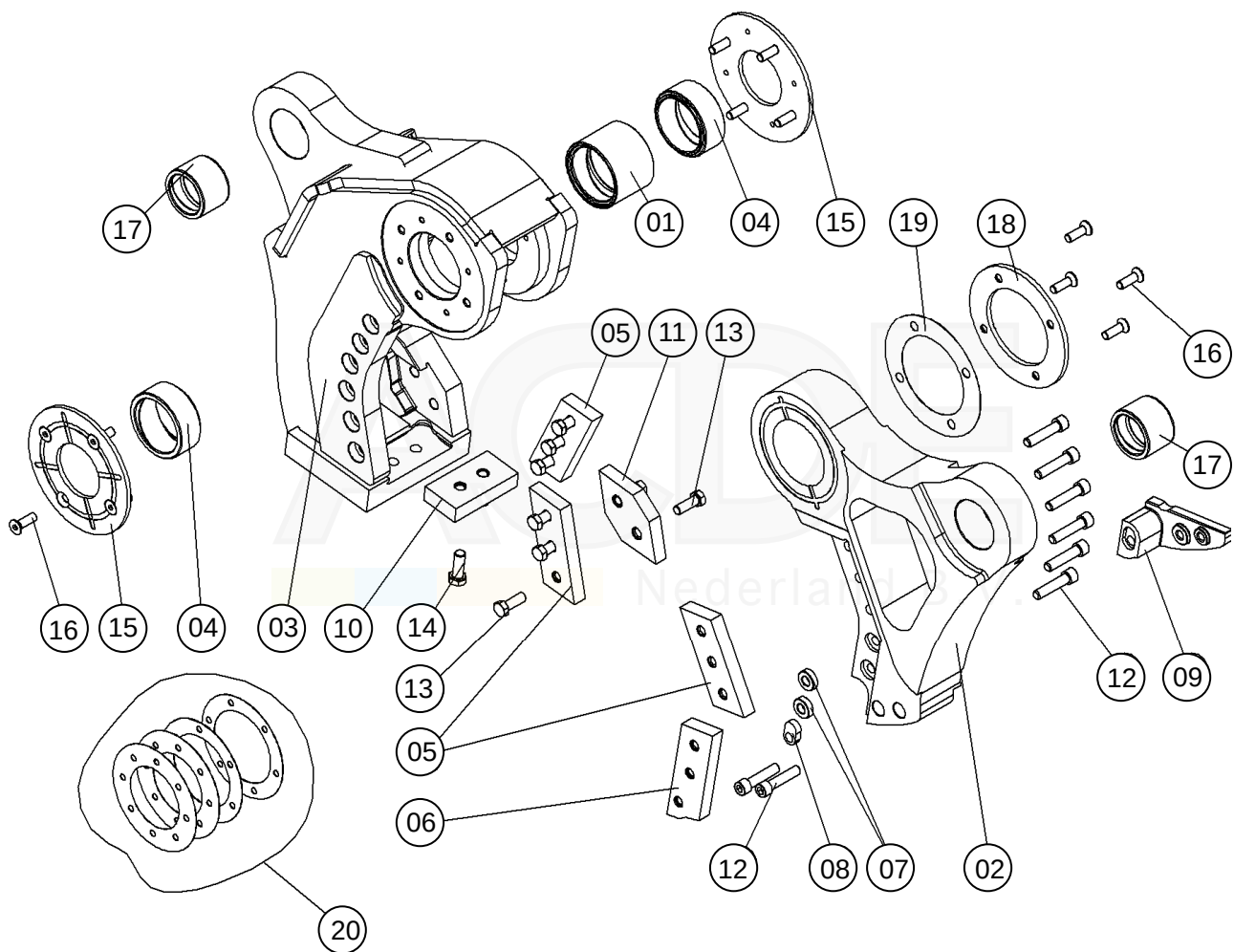
COMBI CUTTER/CRUSHER (M) JAW ASSEMBLY



COMBI CUTTER/CRUSHER (M) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V17P-02802	BUSHING	1	
02	V17P-02801	BUSHING	2	
03	V17M-02801	SPRING PIN	3	
04	V17M-02802	SPRING PIN	3	
05	V17M-02803	CUTTER BLADE	1	
06	V17M-02804	JAW (M)	1	
07	V17M-02805	JAW (F)	1	
08	V17S-02803	RETAINING PLATE	2	
09	V22S-02801	SPHERICAL BUSHING	2	
10	V17M-02806	CUTTER BLADE	3	
11	V17M-02807	CUTTER BLADE	1	
12	V17M-02808	CUTTER BLADE	1	
13	V17M-02809	TOOTH	1	
14	V4-02516	SELF-LOCKING NUT	9	M12
15	VS30E-02506	SELF-LOCKING NUT	2	
16	VM19ER-02527	COUNTERSUNK SCREW	2	
17	V17M-02810	COUNTERSUNK SCREW	5	
18	V22S-02805	COUNTERSUNK SCREW	4	
19	VM32ER-02526	COUNTERSUNK SCREW	8	M16 X 40 10.9

STEEL CUTTER (C) JAW ASSEMBLY



STEEL CUTTER (C) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V17C-02801	BUSHING	1	
02	V17C-02802	JAW (M)	1	
03	V17C-02803	JAW (F)	1	
04	V17C-02804	BUSHING	2	
05	VR18ER-02617	CUTTER BLADE	3	
06	VR18ER-02618	CUTTER BLADE	1	
07	VR15ER-02620	SPACER	2	
08	VR15ER-02621	SPACER	1	
09	VR15ER-02612	TOOTH	1	
10	VR15ER-02602	CUTTER BLADE	1	
11	VR15ER-02603	CUTTER BLADE	1	
12	VR15ER-02618	HEXAGON SOCKET BOLT	8	
13	VR15ER-02605	HEXAGON BOLT	8	
14	101032-20055	HEXAGON BOLT	2	M20 X 55 10.9
15	V17P-02805	RETAINING PLATE	2	
16	VS40E-02509	COUNTERSUNK SCREW	12	
17	V22P-02801	BUSHING	2	
18	V17C-02805	RETAINING PLATE	1	
19	V17C-02806	SHIM	1	
20	V17C-02807	SHIM SET	1	
**	V17C-95001	JAW KIT	1	(ITEMS1 - 18)



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