

PARTS LIST

V11

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.

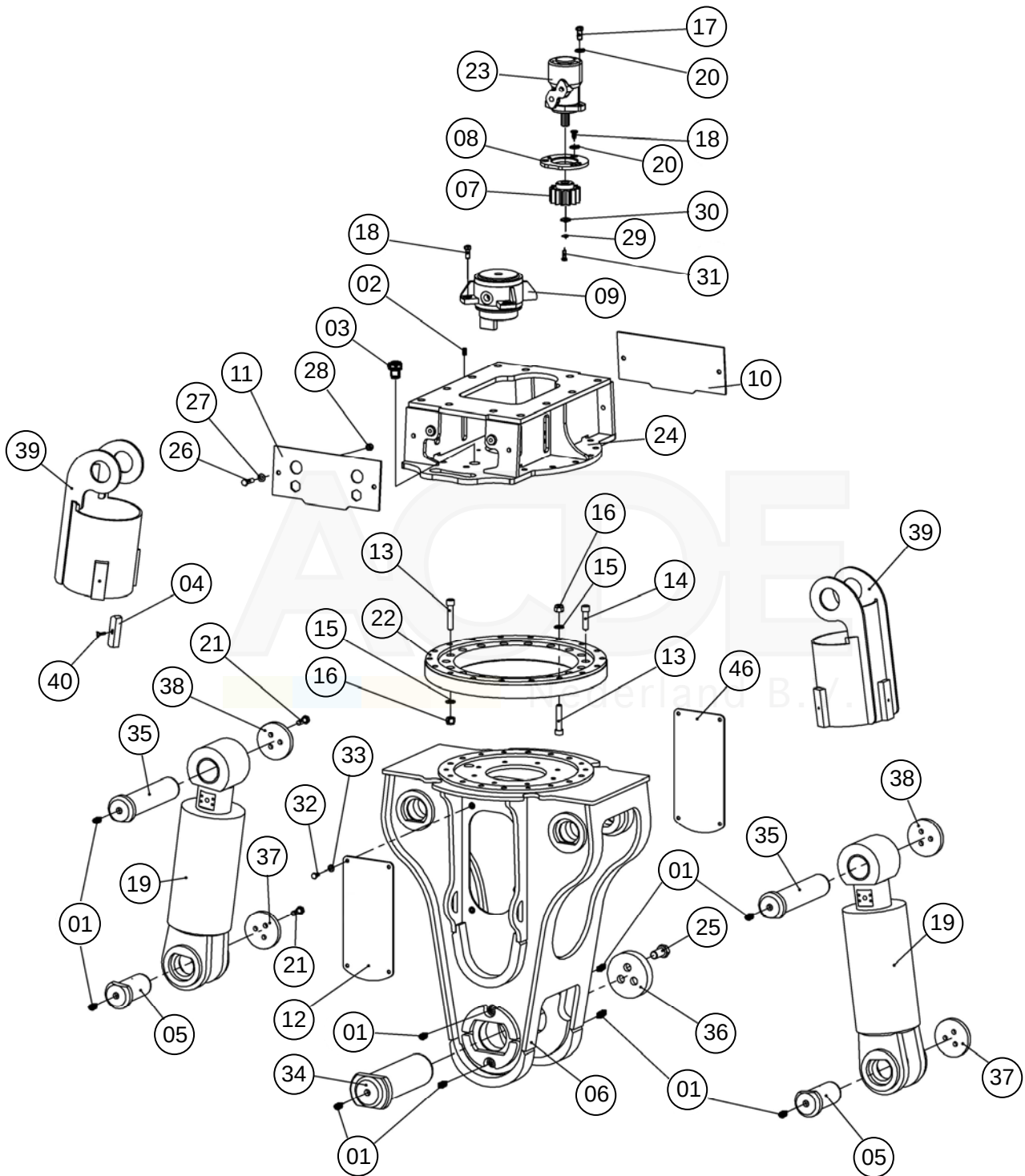
Do not repair a multiple use cutter/crusher by using this parts list.
5. The parts in this list are subject to change for improvement without notice on the part of the manufacturer.

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CUTTER/CRUSHER FRAME ASSEMBLY



CUTTER/CRUSHER FRAME ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	VS30E-02508	GREASE NIPPLE	9	
02	VM19ER-02531	GREASE NIPPLE	1	
03	VM19ER-03513	PLUG	1	
04	V22-02502	ANTI VIBRATION BLOCK	6	
05	V11-02501	CYLINDER PIN - LOWER	2	
06	V11-02001	FRAME ASSEMBLY	1	
07	VR7ER-02524	GEAR	1	
08	VR7ER-02523	FLANGE	1	
09	VR7ER-94001	HYDRAULIC SWIVEL JOINT ASSEMBLY	1	
10	VR7ER-02526	PROTECTION COVER	1	
11	V11-02502	PROTECTION COVER	1	
12	V11-02503	PROTECTION COVER	2	
13	VR7ER-02530	HEXAGON SOCKET BOLT	28	
14	VR26ER-02606	HEXAGON SOCKET BOLT	8	
15	140112-16000	FLAT WASHER	28	M16
16	VS30E-02506	SELF-LOCKING NUT	28	
17	VM19ER-08507	HEXAGON SOCKET BOLT	2	
18	101032-12030	HEXAGON BOLT	8	M12 X30 10.9
19	V11-91001	HYDRAULIC CYLINDER	2	SEE PAGE 02-01
20	VM19ER-08508	WASHER	6	M12
21	V11-02504	HEXAGON BOLT	12	
22	VR7ER-93001	SWIVEL BEARING	1	
23	V4-08116	ROTATION MOTOR ASSEMBLY	1	
24	V6-02201	FLAT TOP BRACKET	1	
25	101033-24050	HEXAGON BOLT FINE THREAD	3	M24 X 50 10.9
26	VR7ER-02525	HEXAGON BOLT	4	
27	145012-12000	SPRING WASHER	4	M12
28	V4-02516	SELF-LOCKING NUT	4	M12
29	145012-08000	SPRING WASHER	1	M8
30	V4-02513	WASHER	1	M8
31	VR4ER-03506	HEXAGON BOLT	1	
32	101032-12020	HEXAGON BOLT	8	M12 X 20 10.9
33	140112-10000	FLAT WASHER	8	M10
34	V11-02506	CENTRE PIN	1	
35	V11-02507	CYLINDER PIN - UPPER	2	
36	V11-02508	COVER	1	
37	V4-02508	COVER	2	

CUTTER/CRUSHER FRAME ASSEMBLY

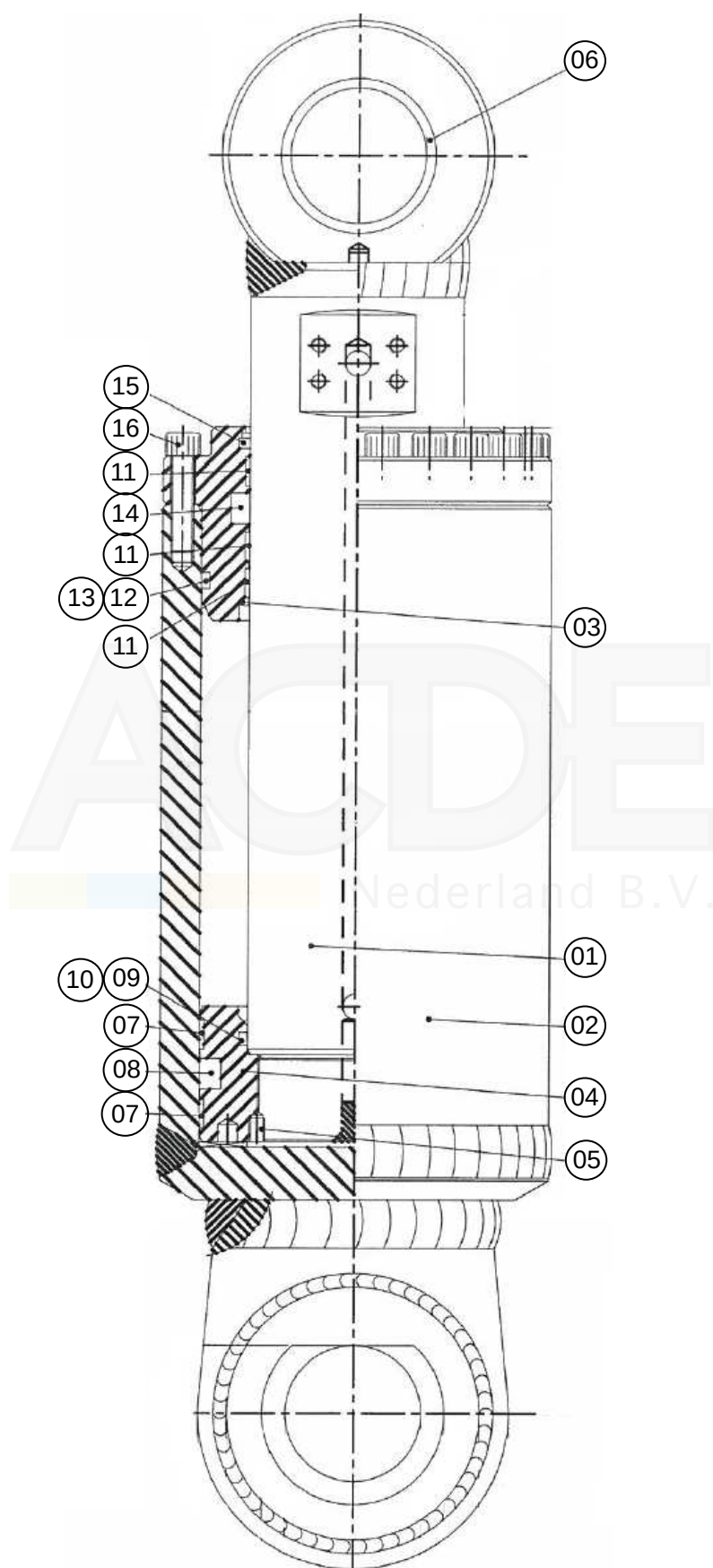
ITEM	PART NO.	PART NAME	Q'TY	REMARKS
38	V11-02509	COVER	2	
39	V11-01018	ROD GUARD	2	
40	V4-02515	COUNTERSUNK SCREW	6	
**	V11-91011	CYLINDER SEAL KIT	**	
**	VR7ER-94011	HYDRAULIC SWIVEL JOINT SEAL KIT	**	
**	VX5ER-98011	ROTATION MOTOR SEAL KIT	**	
				

SERVICE MEMO

Service memo template with horizontal lines for writing.



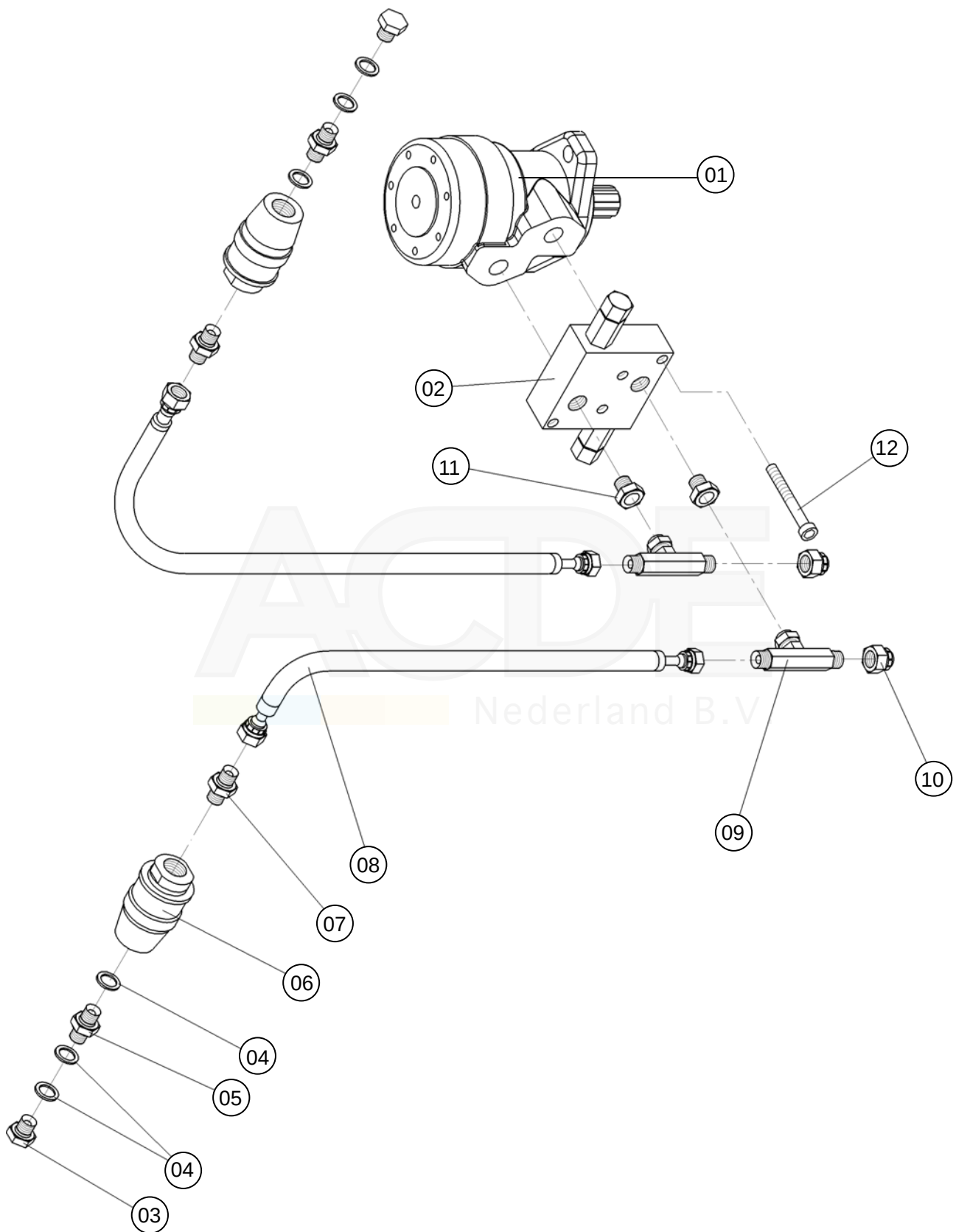
HYDRAULIC CYLINDER



HYDRAULIC CYLINDER

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
	V11-91001	HYDRAULIC CYLINDER ASSEMBLY	1	(ITEMS 1 - 16)
01	V11-01501	PISTON ROD	1	
02	V11-01502	CYLINDER TUBE	1	
03	V11-01503	PISTON HEAD	1	
04	V11-01504	PISTON	1	
05	V11-01505	SET SCREW	1	
06	V11-01506	BUSHING	2	
07	V11-01507	PISTON GUIDE	2	
08	V11-01508	PISTON SEAL	1	
09	V11-01509	SEAL	1	
10	V11-01510	PISTON SEAL	1	
11	V11-01511	ROD GUIDE	3	
12	V11-01512	SEAL	1	
13	V11-01513	SEAL	1	
14	V11-01514	ROD SEAL	1	
15	V11-01515	SCRAPER RING	1	
16	V11-01516	HEXAGON SOCKET BOLT	22	
**	V11-91011	CYLINDER SEAL KIT	**	(ITEMS 7 - 15)

ROTATION HYDRAULIC SYSTEM

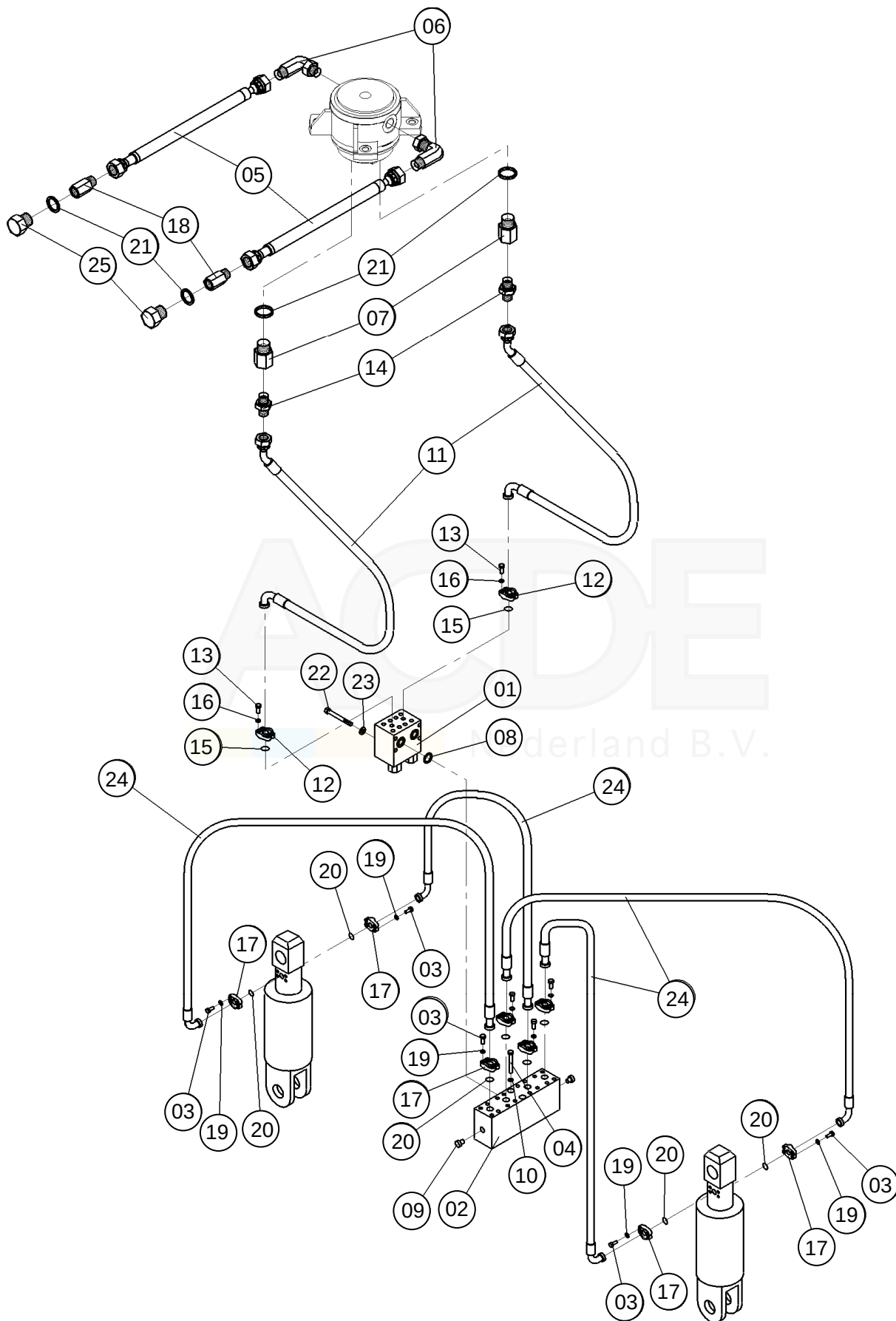


ROTATION HYDRAULIC SYSTEM

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V4-08116	ROTATION MOTOR	1	
02	V4-03501	VALVE ASSEMBLY	1	
03	VM19ER-03515	PLUG	2	
04	VM19ER-03516	SEAL	6	
05	VM32ER-03535	CONNECTOR	2	
06	V4-03502	VALVE	2	
07	V4-03503	CONNECTOR	2	
08	VR7ER-03509	HOSE ASSEMBLY	2	
09	V4-03505	T CONNECTOR	2	
10	V4-03506	CAP	2	
11	V4-03507	REDUCER	2	
12	V4-03508	HEXAGON SOCKET BOLT	2	
**	V4-98011	ROTATION MOTOR SEAL KIT	**	

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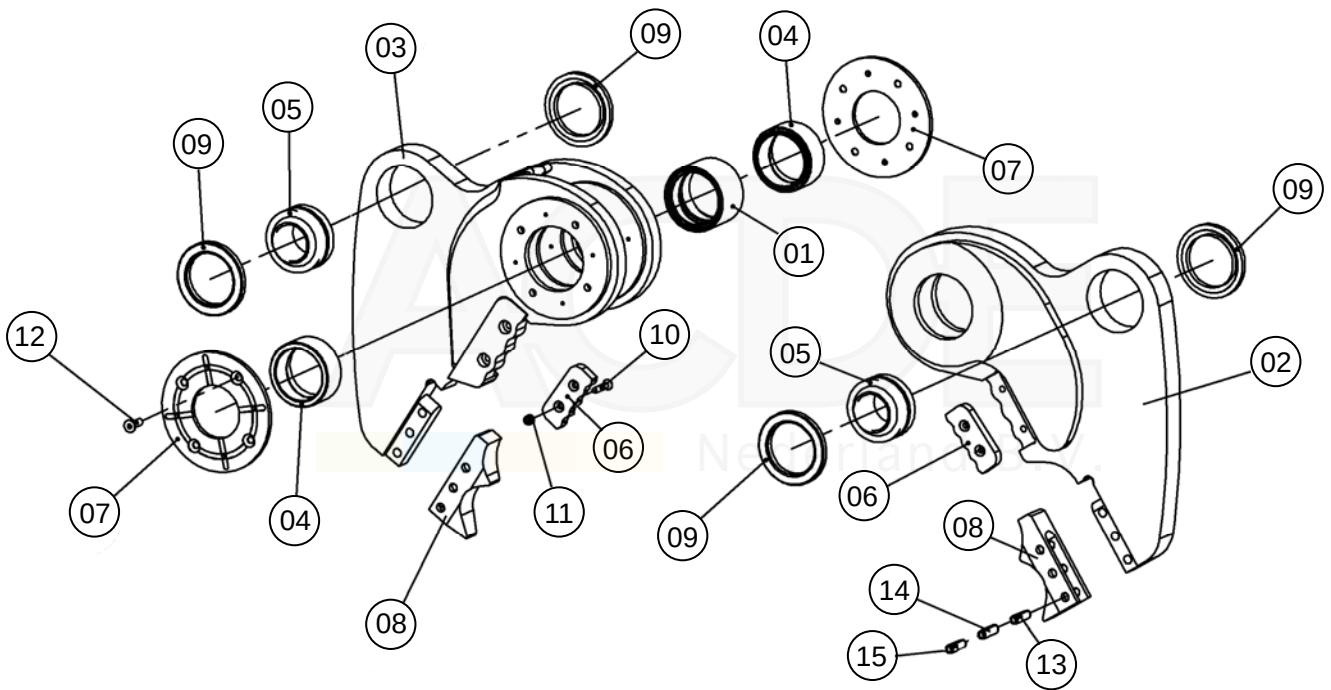
CYLINDER HYDRAULIC SYSTEM



CYLINDER HYDRAULIC SYSTEM

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	VM19ER-94017	ACCELERATION VALVE ASSEMBLY	1	
02	V17-03501	DISTRIBUTION BLOCK	1	
03	VR4ER-03506	HEXAGON SOCKET BOLT	32	
04	VM19ER-03518	HEXAGON SOCKET BOLT	2	
05	V11-03501	HOSE ASSEMBLY	2	
06	V11-03502	90° ELBOW FITTING	2	
07	V6-03505	REDUCER	2	
08	VM19ER-03519	O-RING	2	
09	V17-03502	PLUG	2	
10	145012-14000	SPRING WASHER	2	M14
11	V11-03503	HOSE ASSEMBLY	2	
12	VM19ER-03505	SPLIT FLANGE	2	
13	101032-10030	HEXAGON BOLT	8	M10 x 30 10.9
14	V11-03504	CONNECTOR	2	
15	VM32ER-03508	O-RING	2	
16	VM19ER-03506	SPRING WASHER	8	
17	VR4ER-03508	SPLIT FLANGE	8	
18	V11-03505	EXTENSION FITTING	2	
19	VR4ER-03507	SPRING WASHER	32	
20	VM19ER-03529	SEAL	8	
21	V7ER-03505	SEAL	4	
22	VM19ER-03517	HEXAGON SOCKET BOLT	4	
23	145012-10000	SPRING WASHER	4	M10
24	V11-03506	HOSE ASSEMBLY	4	
25	VR15ER-03506	PLUG	2	

STANDARD (P) JAW ASSEMBLY

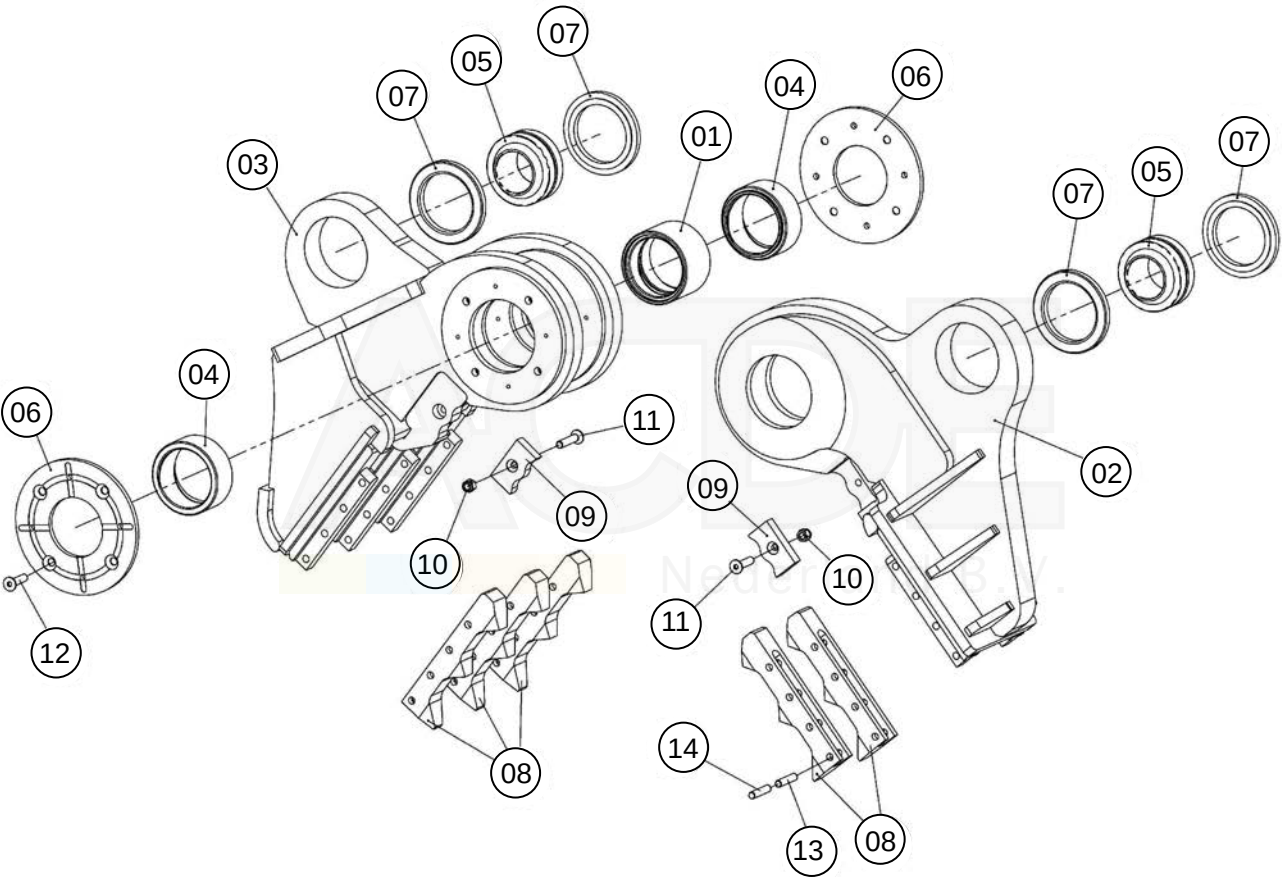


STANDARD (P) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V11P-02801	BUSHING	1	M12
02	V11P-02802	JAW (M)	1	
03	V11P-02803	JAW (F)	1	
04	V11P-02804	BUSHING	2	
05	V11P-02805	SPHERICAL BUSHING	2	
06	V22S-02804	CUTTER BLADE	2	
07	V11P-02806	RETAINING PLATE	2	
08	V11P-02807	TOOTH	2	
09	V11S-02803	SPACER RING	4	
10	V4C-02804	COUNTERSUNK SCREW	4	
11	V4-02516	SELF-LOCKING NUT	4	
12	V6P-02807	COUNTERSUNK SCREW	8	
13	V22S-02808	SPRING PIN	6	
14	V22S-02807	SPRING PIN	6	
15	V26S-02802	SPRING PIN	6	

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SECONDARY (S) JAW ASSEMBLY

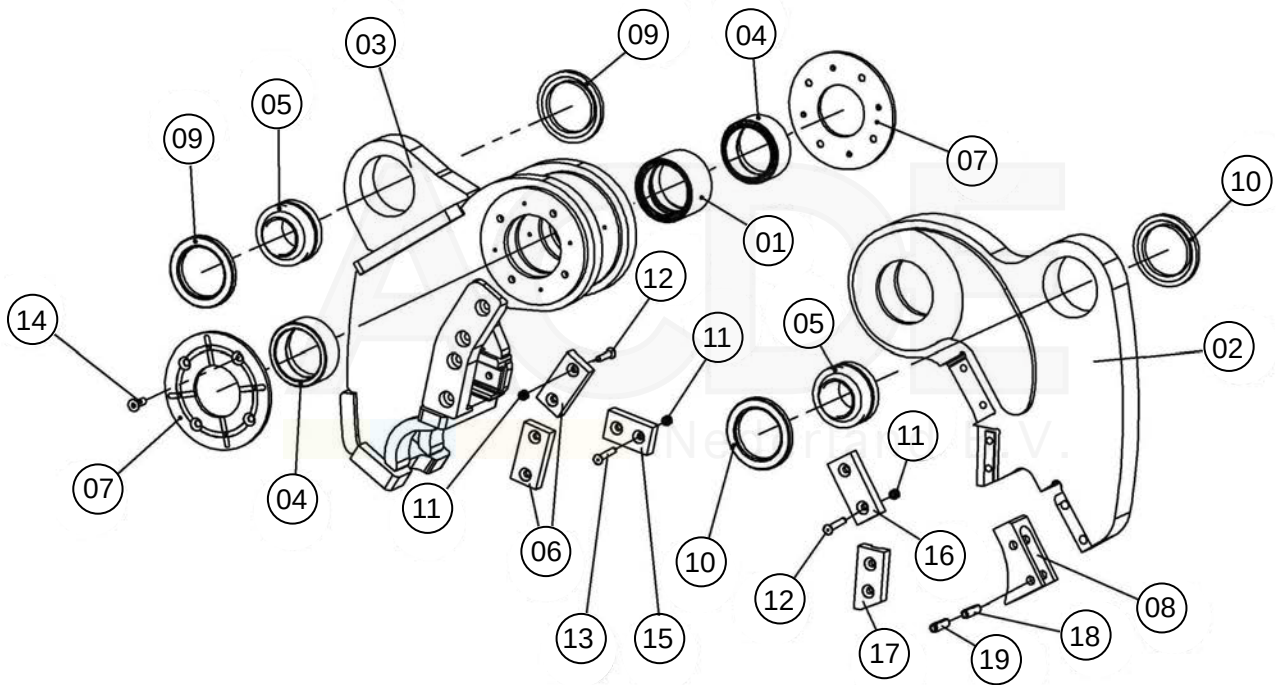


SECONDARY (S) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V11P-02801	BUSHING	1	M10
02	V11S-02801	JAW (M)	1	
03	V11S-02802	JAW (F)	1	
04	V11P-02804	BUSHING	2	
05	V11P-02805	SPHERICAL BUSHING	2	
06	V11P-02806	RETAINING PLATE	2	
07	V11S-02803	SPACER RING	4	
08	V11S-02804	TOOTH	5	
09	V4P-02806	CUTTER BLADE	2	
10	V4-02512	SELF-LOCKING NUT	2	
11	V11S-02805	COUNTERSUNK SCREW	2	
12	V6P-02807	COUNTERSUNK SCREW	8	
13	V4P-02812	SPRING PIN	20	
14	V4P-02813	SPRING PIN	20	

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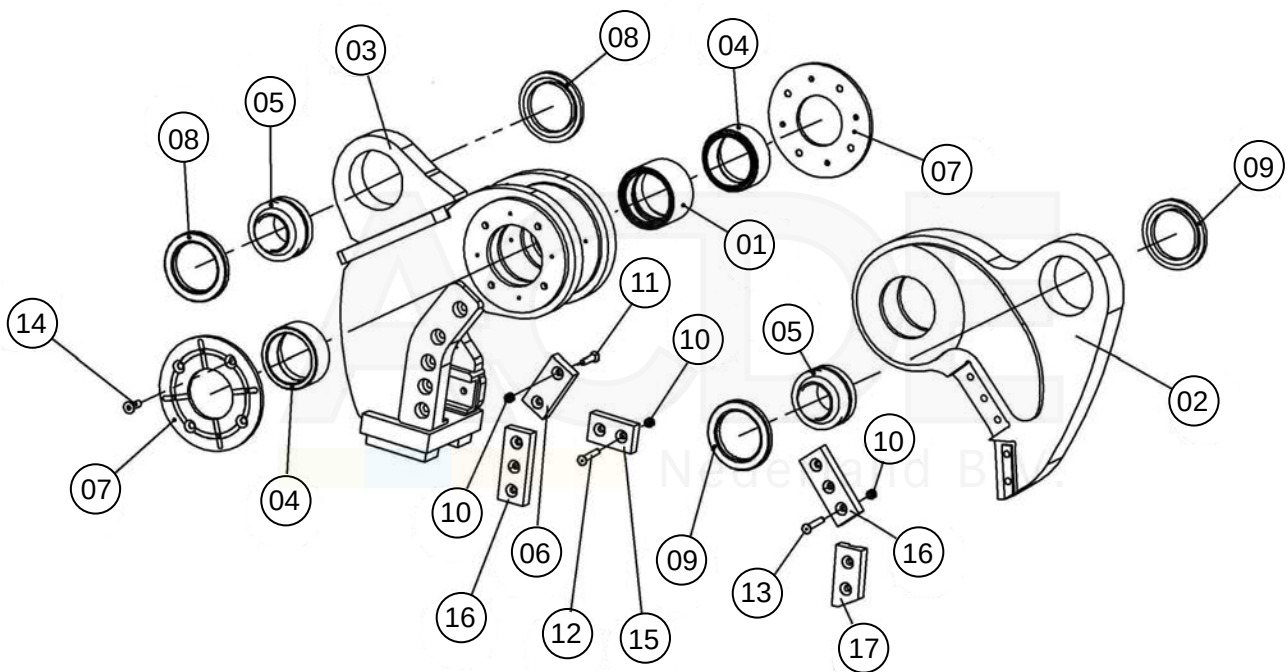
COMBI CUTTER/CRUSHER (M) JAW ASSEMBLY



COMBI CUTTER/CRUSHER (M) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V11P-02801	BUSHING	1	M12
02	V11M-02801	JAW (M)	1	
03	V11M-02802	JAW (F)	1	
04	V11P-02804	BUSHING	2	
05	V11P-02805	SPHERICAL BUSHING	2	
06	V17M-02806	CUTTER BLADE	2	
07	V11P-02806	RETAINING PLATE	2	
08	V11M-02803	TOOTH	1	
09	V11S-02803	SPACER RING	2	
10	V11M-02804	SPACER RING	2	
11	V4-02516	SELF-LOCKING NUT	10	
12	V4C-02805	COUNTERSUNK SCREW	8	
13	V4C-02804	COUNTERSUNK SCREW	2	
14	V6P-02807	COUNTERSUNK SCREW	8	
15	V6M-02804	CUTTER BLADE	1	
16	V11M-02805	CUTTER BLADE	1	
17	V6C-02803	CUTTER BLADE	1	
18	V11M-02806	SPRING PIN	2	
19	V11M-02807	SPRING PIN	2	

STEEL CUTTER (C) JAW ASSEMBLY



STEEL CUTTER (C) JAW ASSEMBLY

ITEM	PART NO.	PART NAME	Q'TY	REMARKS
01	V11P-02801	BUSHING	1	M12
02	V11C-02801	JAW (M)	1	
03	V11C-02802	JAW (F)	1	
04	V11P-02804	BUSHING	2	
05	V11P-02805	SPHERICAL BUSHING	2	
06	V17M-02806	CUTTER BLADE	1	
07	V11P-02806	RETAINING PLATE	2	
08	V11S-02803	SPACER RING	2	
09	V11M-02804	SPACER RING	2	
10	V4-02516	SELF-LOCKING NUT	12	
11	V22S-02805	COUNTERSUNK SCREW	5	
12	V4C-02804	COUNTERSUNK SCREW	2	
13	V4C-02805	COUNTERSUNK SCREW	5	
14	V6P-02807	COUNTERSUNK SCREW	8	
15	V6M-02804	CUTTER BLADE	1	
16	V17M-02808	CUTTER BLADE	2	
17	V6C-02803	CUTTER BLADE	1	



FURUKAWA ROCK DRILL EUROPE B.V.

Proostwetering 29
3543 AB Utrecht, The Netherlands
Tel.: +31-(0)30-2475160 Fax: +31-(0)30-2412305

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