

SERVICE

HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

Thank you for choosing a Hydrotech filter.

It is a trustworthy machine that will run for a long time with minimum care and service. Indeed, any mechanical equipment requires annual maintenance in order to operate efficiently and with as little down time as possible. This is also the case with your Hydrotech Drumfilter HDF1600, 1F/H, 2F/H or 2S.

On the next pages, you will find recommendations for maintenance, parts to change and drawings.

If you don't have the possibility to do the maintenance yourself, Hydrotech will be pleased to send you a service offer or recommend a reliable technician that can assist you.

Apart from the periodic maintenance mentioned in the **Operation & Maintenance manual** we recommend a large service every fifth year where at least all parts in the **5 year service kit** are replaced.

To order spare parts or a service from Hydrotech and also to get the latest updated prices, please contact Hydrotech at services@hydrotech.se.



Veolia Water Technologies AB

Hydrotech



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SERVICE

HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

5 year service kit

Art. N°	N° on drawing	Description	Qty	Versions
424040	4717-A pos.2	Key steel 22x14x45 mm	1	
425734	4717-A pos.8	Spacer 118/81x6 mm	2	
352310	2408-A pos.6	Grease nipple, M8x1mm	3	Qty 2 for 2F/H/S
425520	4717-A pos.10	Slide bearing Ø80 mm	2	
1006091	4717-A pos.9	Shaft sealing radial 80x100x10	2	
422260		Rubber seal 5x30,self-adhering or silicone	1,8	
1001275	4717-A pos.13	Cone for chainwheel Ø80	1	
1003764	See manual page 32	Rubber lip seal HDF1601-7 H , long version	1	
See Table 2	0678-C pos.5	Rubber lip, Solids trough	1	Not for 2S
425540	4632-C pos.4	Slide bearing Ø35	2	
1001387	4632-C pos.5	Slide bearing Ø35 (L=17 mm)	2	
1011615	4632-C pos.8	Spacer Ø70/13x3	2	
425720	4632-C pos.9	Spacer Ø70/35,2x3.0 mm	4	
1002089	2317-E	Support wheel type 14	4	
425710	4632-C pos.18	Spacer 60/36x3 mm	2	
1001262	1664-B pos.2	Chain wheel Z= 32	1	
420180	1664-B pos.3	Chain wheel Z= 10	1	
420120	1664-B pos.5	Chain lock 1"	1	
1010967	On spray bar	Manometer 0-16 bar 1/4" SI	1	

Table 2

Filter type	Qty for Art. N° Rubber lip for solids tray
HDF1605	1005259
HDF1606	1005260
HDF1607	1005261

Parts only valid for 1F tank version:

Art. N°	N° on drawing	Description	Qty
276138	On spray bar	Hose, 38 mm	0,7
276940	On spray bar	Hose clamp Pa-Ri 50mm 2343	2
1006284	1664-B pos.4	Chain 1" Rex simplex	1

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HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

Parts only valid for 2F frame version:

Art. N°	N° on drawing	Description	Qty
1001983	1664-B pos.8	Sealing, 170 mm	1
1014557	1664-B pos.14	Screw hex. Head M6S M16x130	2
350350	1664-B pos.19	Nut, nyloc, M6NM, M16, A4	2
350570	1664-B pos.22	Washer RB 17x30x3.0, A4	2
1014511	1664-B pos.23	Rubber washer Ø40/17x5	2
1014514	1664-B pos.24	Washer Ø16.5/40x4.0	2
424010	1664-B pos.6	Key steel 10x8x45 mm	1
1006282	1664-B pos.4	Chain 1" Rex simplex	1

Strategic spare parts

Art. N°	N° on drawing	Description	Qty
		Backwash nozzles	5 per segment
		Filter panels	4 per segment
278040		Cartridge for strainer	1
1000691	4717-A pos.1	Drive shaft and bearing house	1

Critical spare parts

Art. N°	N° on drawing	Description	Qty
		Backwash pump	1
	1664-B pos.9	Drive gear/motor	1

Definitions:

5 year service kit:

Parts to be changed after 5 years of operation

Strategic spare parts:

Parts with short lead time (always on Hydrotech stock) which are vital for the operation of the unit.

Critical spare parts:

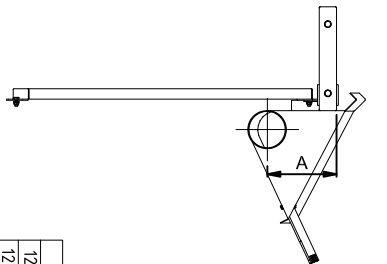
Parts with long lead time which are vital for the operation of the unit, contact Hydrotech for precise delivery time.

Veolia Water Technologies AB

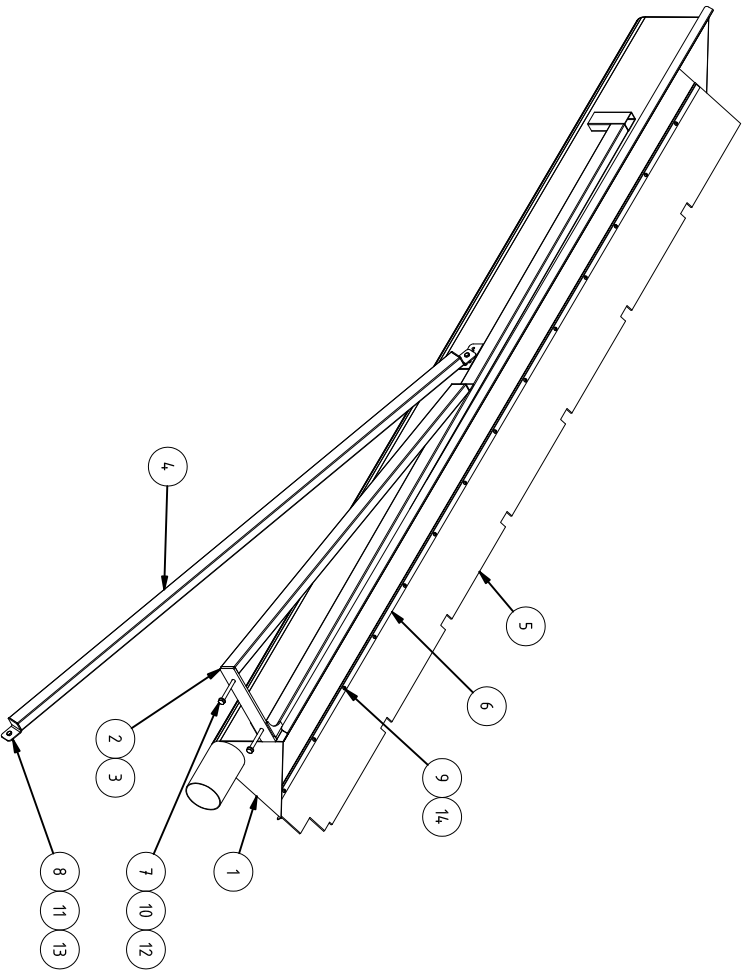
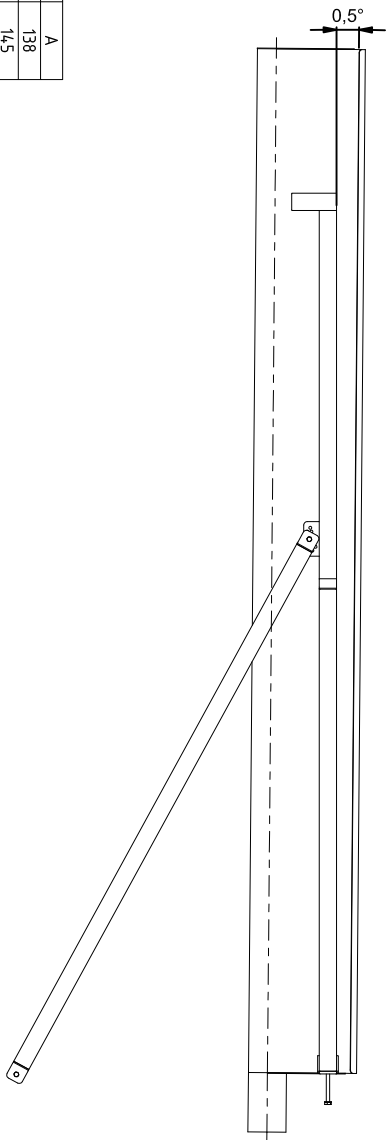
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Type	A
1201-02 1,2,3H	138
1203-04 1,2,3H	14,5
1601-07 1H	180
1601-07 2,3H	200



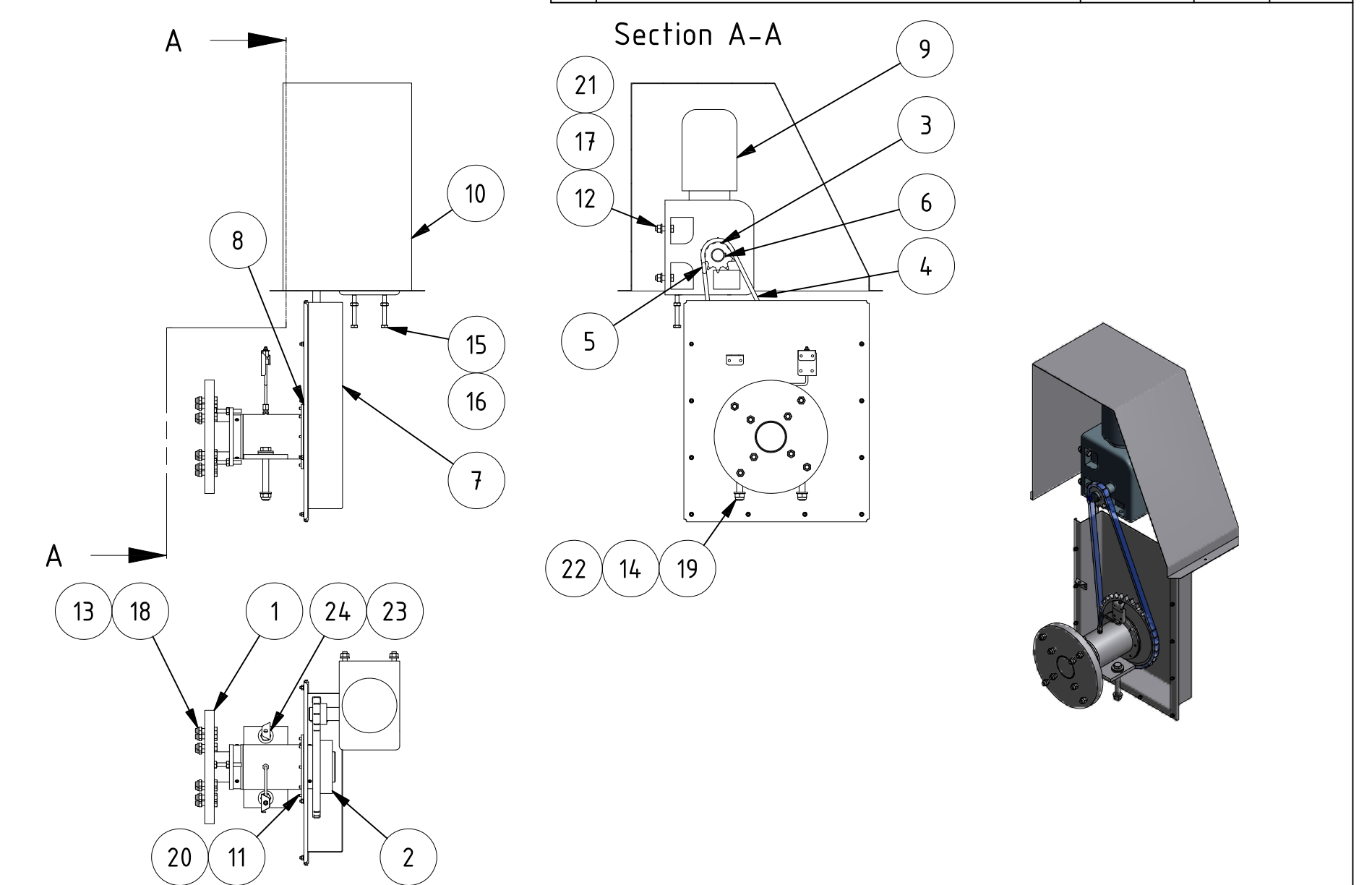
Type	B	C	D
12,1601	0	1	2
12,1602	0	1	4
12,1603	1	0	6
12,1604	1	0	8
1605	1	0	10
1606	1	0	12
1607	1	0	14

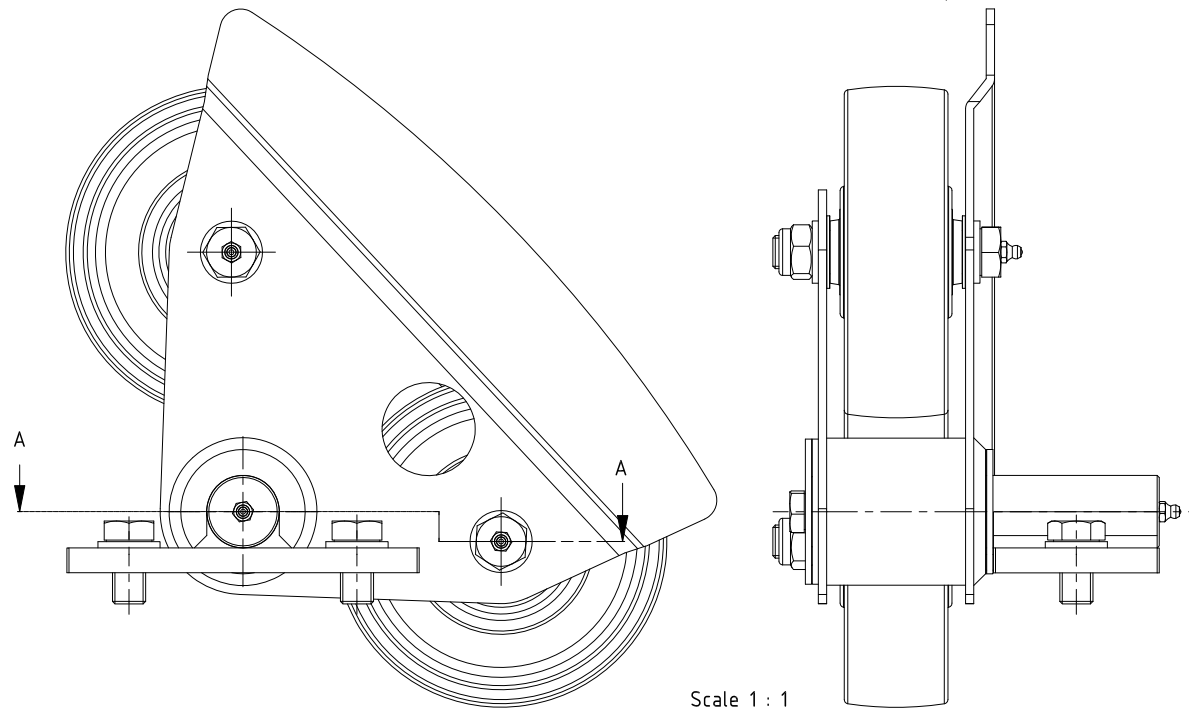
14	D	Nut locking	A4	M6NM M6	Art. no. 350310
13	2	Nut locking	A4	M6NM M8	Art. no. 350320
12	2	Nut locking	A4	M6NM M10	Art. no. 350330
11	2	Washer	A4	8,4x16x1,6	Art. no. 350540
10	4	Washer	A4	10,5x20x2	Art. no. 350550
9	D	Screw	A4	MRT M6x16H	Art. no. 1007487
8	2	Screw	A4	M6S M8x20H	Art. no. 350870
7	2	Screw	A4	M6S M10x100D	Art. no. 351017
6	1	Bracket for Rubber Lip	AISI 316L	t = 4	Drw. no. 0670
5	1	Rubber Lip for Solids Tray	Rubber	250 x 5	Drw. no. 5612
4	1	Strut for Solids Tray			Drw. no. 0685
3	C	Console for Solids Tray			Drw. no. 0676
2	B	Console for Solids Tray			Drw. no. 0677
1	1	Solids Tray			Drw. no. 0615

Pos no	Qty	Name	Material	Dimension	Remark
Designer	Drawn by	Projection method	Controlled by	Stand	Approved
DLS			ISO 2768-m		
				Scale	1 : 15

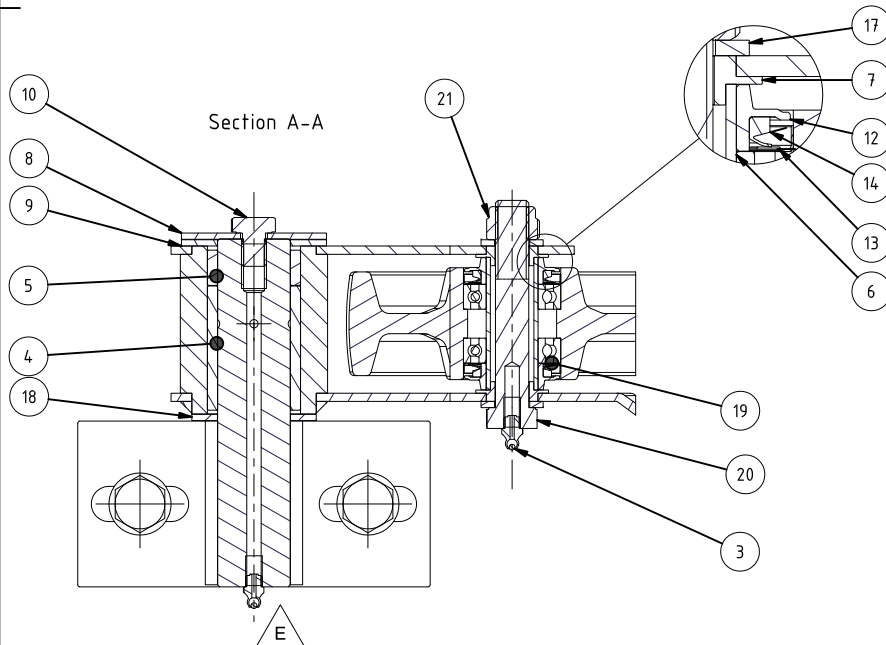
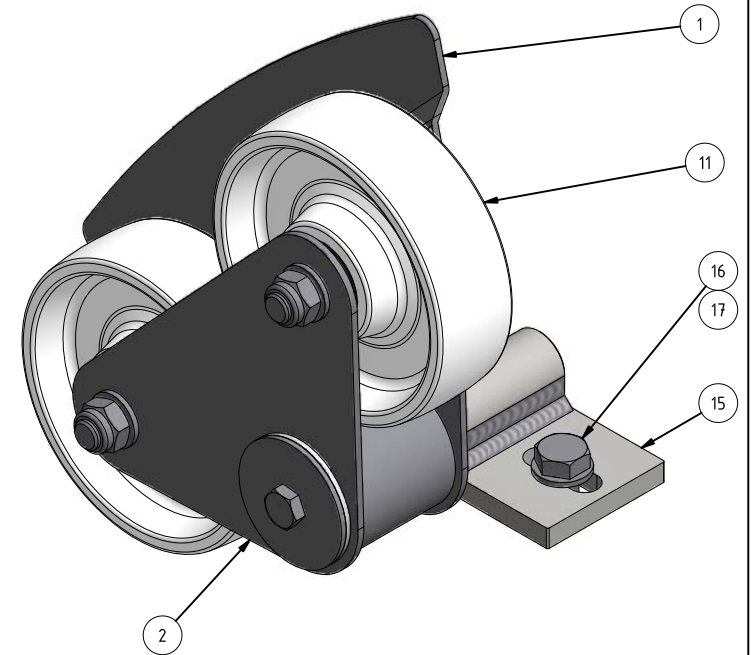
HYDROTECH		Assembly Solids Tray		Sheet	1 / 1	Date
Drumfilter HDF1201-04		Drumfilter HDF1601-07		Draw. no.		
0678				Edition	C	

Ed.	Change and/or message no.	Rev date	Made by	C-m no.
C	Redrawn in Inventor. Updated.	2016-09-06	DLS	-

				Ed.	Change and/or message no.	Date	Made by	c-m no.
								
24	2	Washer	S32205	Ø 16,5x40x4	Drw. no. 4675			
23	2	Washer	Rubber	Ø 17x40x5	Drw. no. 4677			
22	2	Washer	A4	RB 17x30x3	Art. no. 350570			
21	4	Washer	A4	RB 13x24x2,5	Art. no. 350560			
20	8	Washer	A4	RB 6,4x12x1,6	Art. no. 350530			
19	2	Nut locking	A4	M6NM M16	Art. no. 350350			
18	8	Nut locking	A4	M6NM M12	Art. no. 350340			
17	4	Nut	A4	M6M M12	Art. no. 350140			
16	2	Nut	A4	M6M M10	Art. no. 350130			
15	2	Bolt	A4	M6S M10 x 80	Art. no. 351010			
14	2	Bolt (Bumax)	A4	M6S M16x130	Art. no. 1014557			
13	8	Bolt	A4	M6S M12x50H	Art. no. 351050			
12	4	Bolt	A4	M6S M12x40	Art. no. 351040			
11	8	Bolt	A4	M6S M6x16	Art. no. 350780			
10	1	Motor cover	AISI304/316L		Drw. no. 1381			
9	1	SEW gear box & motor	AISI304/316L	S67DRS71M4	M4B			
8	1	Seal	Rubber		Drw. no. 2307			
7	1	Chain tray			Drw. no. 1141			
6	1	Key steel		10x8x45	Art. no. 424010			
5	1	Chain lock		1"	Art. no. 420120			
4	1	Drive chain		1" L=1500	Art. no. 1006282			
3	1	Chain wheel		Z = 10	Art. no. 420180			
2	1	Chain wheel		Z=32	Art. no. 1001262			
1	1	Center shaft and bearing		HDF 1601-04	Drw. no. 4719			
1	1	Center shaft and bearing		HDF 1605-07	Drw. no. 4717			
Part no.	Qty	Name		Material	Mod.-nr Blank Dimension Mass	Remark		
Designer EmS	Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale 1:20	Replaces	Replaced by
HYDROTECH			Drive assembly Drumfilter HDF 1601-07 2,3 H/F				Date 980810	
							Draw. no. 1664 Edition B	



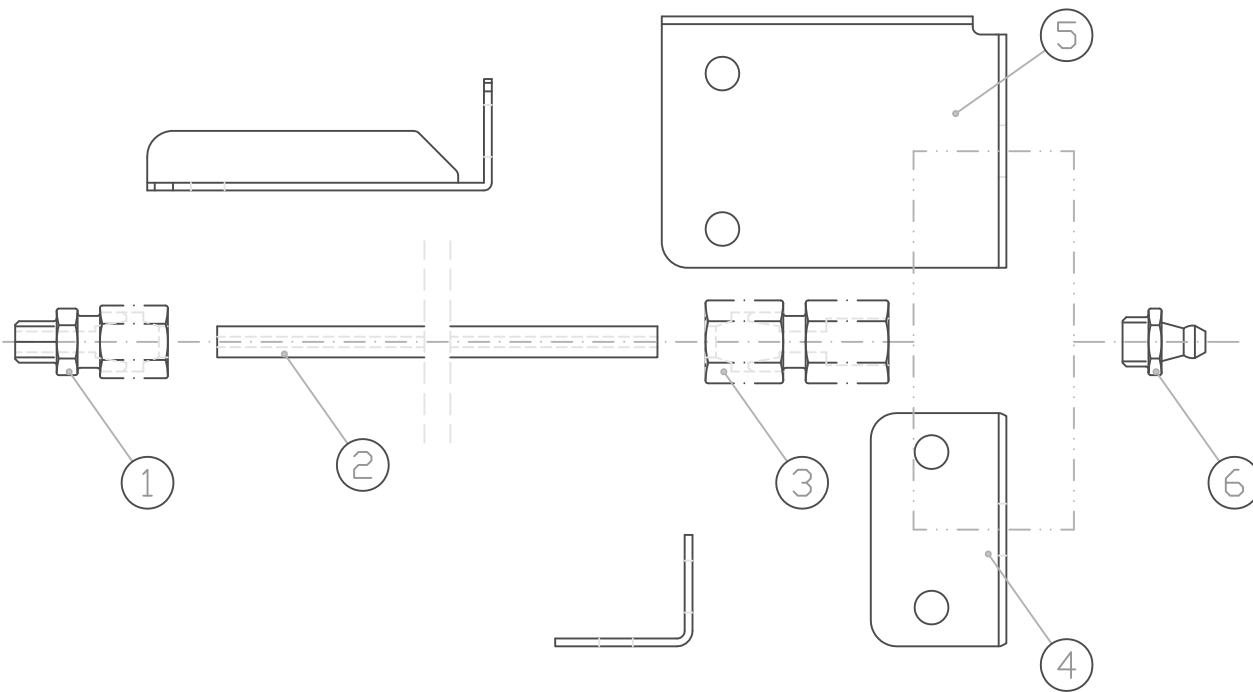
Scale 1 : 1



E	Central greasing for bearing br.	160120	FT	
Ed.	Change and/or message no.	Date	Made by	c-m no.

21	2	Nut locking	A4	M6NM M16	Art. no. 350350
20	2	Bolt for grease nipple	A4		Drw. no. 4571
19	4	Ball bearing	AISI 304	6005	Colson (Art.no. 1001606)
18	1	Spacer	Acetal	Ø 60x35,2x3	Drw. no. 1091
17	6	Washer	A4	RB 17x30x3	Art.no. 350570
16	2	Bolt	A4	M6S M16x30	Art.no. 351630
15	1	Bearing bracket			Drw. no. 1089 / Drw. no. 4813 (for 1600-1G)
14	4	Radial sealing			Colson (Art.no. 1001606)
13	4	Support for radial sealing	AISI 316L		Colson (Art.no. 1001606)
12	4	Support for radial sealing	Plastic, Black		Colson (Art.no. 1001606)
11	2	Support wheel	Plastic, White	160 x 50	Colson (Art.no. 1001606)
10	1	Bolt	A4	M6S M12x16	Art.no. 351023
9	1	Spacer	Acetal	Ø 70x35,2x3	Drw. no. 1091
8	1	Washer		Ø 70x13x3	Drw. no. 1091
7	4	Shaft end			Drw. no. 2282
6	2	Shaft tube			Drw. no. 2282
5	1	Slide bearing Wolf	ZX100	Ø 45/35 L=17	Art.no. 1001387
4	1	Slide bearing Wolf	ZX100	Ø 45/35 L=60	Art.no. 425540
3	3	Grease Nipple	AISI 316L	M8x1	Art.no. 352310
2	1	Boogie support gable			Drw. no. 1092
1	1	Boogie gable with bearing house		Left + Right	Drw. no. 4583

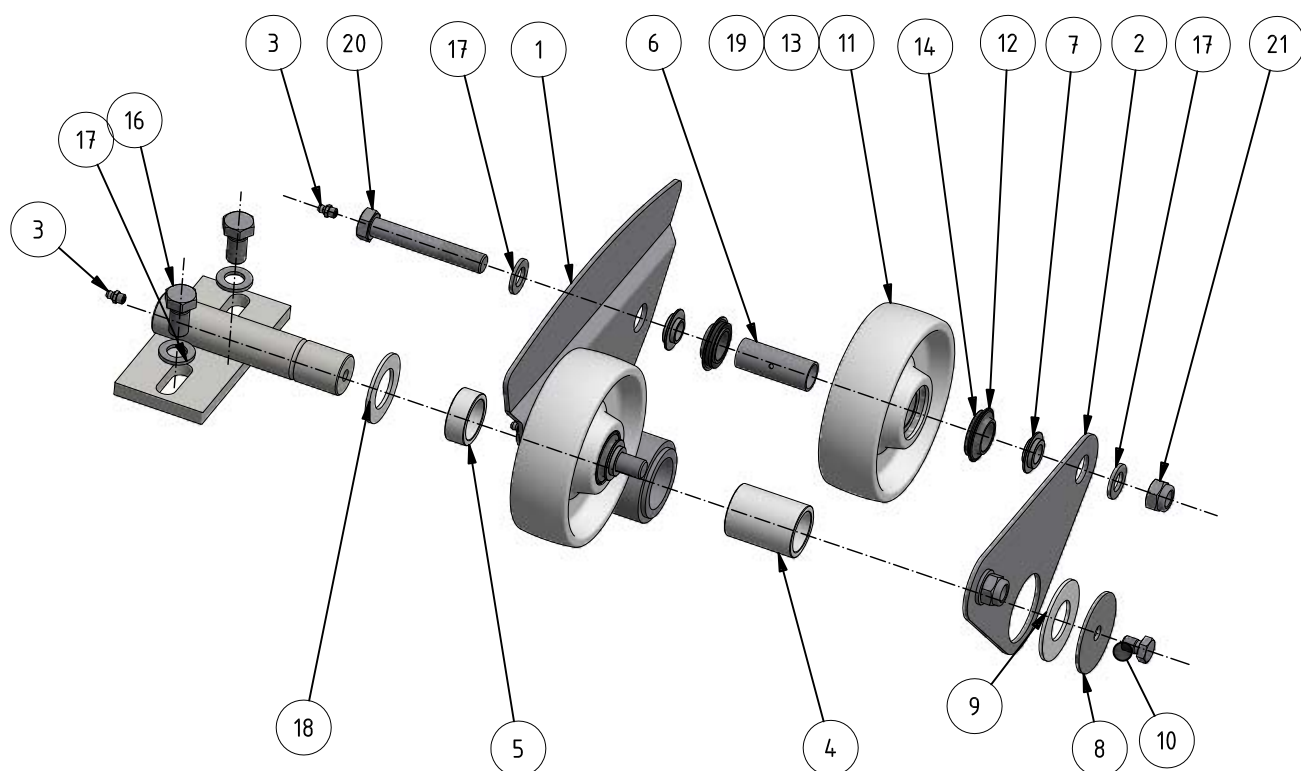
Part no.	Qty	Name	Material	Mod.-nr Blank Dimension Mass	Remark
Designer	Drawn by	Copy	Controlled by	Stand.	Approved
	EmS			ISO 2768-m	
Scale 1:2,5					Replaces
Boogie assembly (type 14) (Right shown) Drumfilter HDF 1600-1G 1605-07, 2005-07					Replaced by
HYDROTECH					Date 110201
Draw. no. 2317 Edition E					



6	1	Greasing nipple	AISI 316L	G1/8"	H1-KR 1/8" SY			
5	1	Holder	AISI 316L		Draw. 2405 pos 2			
4	1	Holder	AISI 316L		Draw. 2405 pos 1			
3	1	Anguar zirk fitting	AISI 316L		90° (G1/8")			
3	1	Zirk fitting	AISI 316L		GAI 6 LR SY(G1/8")			
2	1	Hose	Polyamid	ø6	P 06 01 30			
1	1	Zirk fitting	AISI 316L		GE 6-LLM M8x1 SY			
Part no.	Quantity	Name		Material	Mod.-nr Blank Dimension	Remark		
Designer	Drawn by	Copy	Controlled by	Stand.	Approved	Scale	Replaces	Replaced by
	Per			ISO 2768-m		1:1		
HYDROTECH			Grease fitting					Date
			Rollerbearing housing					011017
			Draw. no. 2408 Edition A					

Ed.	Change and/or message no.	Date	Made by	€-m no.
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Ed.	Change and/or message no.	Date	Made by	c-m no.
B	Type 1600-1G added	20120329	FT	
C	Central greasing added	20160121	FT	



21	2	Nut locking	A4	M6NM M16	Art. no. 350350
20	2	Bolt for grease nipple	A4		Drw. no. 4571
19	4	Ball bearing	AISI 304	6005	Colson (Art.no. 1001606)
18	1	Spacer	Acetal	Ø 60x35,2x3	Drw. no. 1091
17	6	Washer	A4	RB 17x30x3	Art.no. 350570
16	2	Bolt	A4	M6S M16x30	Art.no. 351630
15	1	Bearing bracket			Drw. no. 1089 / Drw. no. 4813 (for 1600-1G)
14	4	Radial sealing			Colson (Art.no. 1001606)
13	4	Support for radial sealing	AISI 316L		Colson (Art.no. 1001606)
12	4	Support for radial sealing	Plastic, Black		Colson (Art.no. 1001606)
11	2	Support wheel	Plastic, White	160 x 50	Colson (Art.no. 1001606)
10	1	Bolt	A4	M6S M12x16	Art.no. 351023
9	1	Spacer	Acetal	Ø 70x35,2x3	Drw. no. 1091
8	1	Washer		Ø 70x13x3	Drw. no. 1091
7	4	Shaft end			Drw. no. 2282
6	2	Shaft tube			Drw. no. 2282
5	1	Slide bearing Wolf	ZX100	Ø 45/35 L=17	Art.no. 1001387
4	1	Slide bearing Wolf	ZX100	Ø 45/35 L=60	Art.no. 425540
3	3	Grease Nipple	AISI 316L	M8x1	Art.no. 352310
2	1	Boogie support gable			Drw. no. 1092
1	1	Boogie gable with bearing house		Left + Right	Drw. no. 4583

Part no.		Qty	Name		Material	Mod.-nr Blank Dimension Mass	Remark			
Designer EmS		Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale	Replaces	Replaced by	
HYDROTECH			Boogie assembly (type 14) Exploded veiw Drumfilter HDF1600-1G, 1605-07, 2005-07					Date 110314		
									Draw. no. 4632 Edition C	

		Ed.	Change and/or message no.		Date	Made by	c-m no.
13	1	Cone for chainwheel			3020-Ø80	Art. no. 1001275	
12	1	Bearing house				Drw. no. 1140	
11	1	Grease fittings				Drw. no. 2408	
10	2	Slide bearing Wolf			Ø 90/80 L=50	Art.no. 425520	
9	2	Shaft sealing			80x100x10	Art. no. 1006091	
8	2	Axila bearing				Drw. no. 0580	
7	2	Retaining collar		AISI 316L		Drw. no. 0579	
6	6	Set screw		A4	MS6SS M10x20	Art. no. 352160	
5	1	Axial retaining washer		AISI 316L	Ø80	Drw. no. 3498	
4	2	Nut		A4	M6M M10	Art. no. 350130	
3	2	Bolt		A4	M6S M10x80H	Modified to correct length	
2	1	Key steel			22x14x45	Art. no. 424040	
1	1	Center shaft				Drw. no. 0634	
Part no.	Qty	Name		Material	Mod.-nr Blank Dimension Mass	Remark	
Designer EmS	Drawn by EmS	Copy	Controlled by	Stand. ISO 2768-m	Approved	Scale 1:5	Replaces Replaced by
HYDROTECH			Center shaft Bearing Exploded view Drumfilter HDF 1605-07 2,3				Date 20110621
							Draw. no. 4717 Edition A

SERVICE

HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

Checklist / service report

To be done on every visit

☐

Check backwash pressure

Remarks:

☐

Check panels for damage

Remarks:

☐

Visually inspect the inside of the unit

Remarks:

☐

Check the nozzles for clogging

Remarks:

☐

Lubricate all grease points of the unit

Remarks:

☐

Check drive chain tension

Remarks:

☐

Visually inspect the outside of the unit, clean if needed

Remarks:

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SERVICE

HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

To be done on yearly visit

☐

Check oil condition in drive unit according to separate manual

Remarks:

☐

Check drum bearings for ware

Remarks:

☐

Check shaft gaskets for ware

Remarks:

☐

Check inlet gasket for ware

Remarks:

☐

Check support wheels for ware

Remarks:

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SERVICE

HDF1605/7-1F-1H

HDF1605/7-2F-2S-2H

To be done every five years

Replace the parts from service kit

Ok

☐	Key steel 22x14x45 mm
☐	Spacer 118/81x6 mm
☐	Grease nipple, M8x1mm
☐	Slide bearing Ø80 mm
☐	Shaft sealing radial 80x100x10
☐	Rubber seal 5x30,self-adhering
☐	Manometer 0-16 bar 1/4" SI
☐	Rubber lip seal HDF1601-7 H
☐	Rubber lip, Solids trough
☐	Slide bearing Ø35
☐	Slide bearing Ø35 (L=17 mm)
☐	Spacer Ø70/13x3
☐	Spacer Ø70/35,2x3.0 mm
☐	Support wheel type 14
☐	Spacer 60/36x3 mm
☐	Chain wheel Z= 32
☐	Chain wheel Z= 10
☐	Drive assembly parts
☐	Hose to backwash pipe

Check and if needed replace strategic and critical parts:

OK

☐	Nozzles	Qty: _____
☐	Panels	Qty: _____
☐	Drive shaft	Qty: _____
☐	Drive unit	Qty: _____
☐	Backwash pump	Qty: _____

Remarks:

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