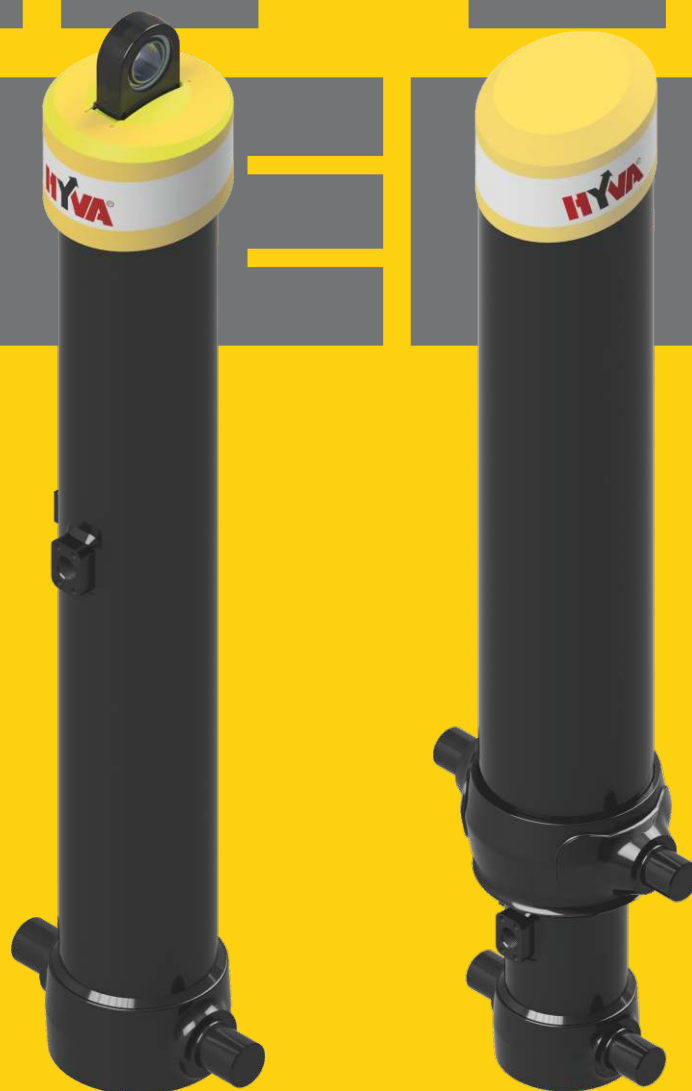


EFFICIENT



FRONT-END CYLINDERS

Components Catalogue

TABLE OF CONTENT

CODE EXPLANATION	
CODE SYSTEM TIPPING CYLINDERS	4
FC - FRONT-END CYLINDERS WITH OUTER COVER	
FC A137	5
FC A149	5
FC A169	6
FC A179	6
FC A191	6
FC A214	6
FE - FRONT-END CYLINDERS WITH EYE	
FE A129	7
FE A137	7
FE A149	7
FE A157	8
FE A169	8
FE A179	8
FE A191	8
FE A214	8
FSE - FRONT-END CYLINDERS WIT PISTON EYE & BOTTOM EYE	
FSE A110	9
FSE A129	9
FEE - FRONT-END CYLINDERS WIT PISTON EYE & BOTTOM EYE AND PIN	
FEE A110	10
FEE A129	10
FEE A149	10
FEE A191	11
FEE A214	11
FC-HD - HEAVY DUTY FRONT-END CYLINDERS WITH OUTER COVER	
FC A110-HD	12
FC A149-HD	12
FC A157-HD	12
FC A169-HD	13
FC A191-HD	13
FE-HD - HEAVY DUTY FRONT-END CYLINDERS WITH EYE	
FE A110-HD	14
FE A118-HD	14
FE A129-HD	14
FE A137-HD	14
FE A149-HD	15
FE A157-HD	15
FE A169-HD	15
FE A191-HD	15
FE A214-HD	15
FE A226-HD	15
FSE-HD - HEAVY DUTY FRONT-END CYLINDERS WITH PISTON EYE & BOTTOM EYE	
FSE A137-HD	16
FEE-HD - HEAVY DUTY FRONT-END CYLINDERS WITH PISTON EYE & BOTTOM EYE AND PIN	
FEE A129-HD	17
FEE A149-HD	17
FEE A169-HD	17
FEE A191-HD	18
FEE A214-HD	18

LIFTING BRACKETS	
LIFTING BRACKETS FOR CYLINDER TYPE: FC 110/118/129	19
LIFTING BRACKETS FOR CYLINDER TYPE: FC 118/129/137/149/157/169/179	19
LIFTING BRACKET FOR CYLINDER TYPE: FC 191/202/214	19
LIFTING BRACKET FOR CYLINDER TYPE: FC 202	20
LIFTING BRACKET SILO	20
CHASSIS BRACKETS	
CHASSIS BRACKETS FOR CYLINDERS FOR CYLINDER TYPE: FC/FE 110/118/129/137/149	21
CHASSIS BRACKETS FOR CYLINDERS FOR CYLINDER TYPE: FC/FE 137/149	21
CHASSIS BRACKETS FOR CYLINDERS FOR CYLINDER TYPE: FC/FE 157/169/179/191	21
CHASSIS BRACKETS FOR CYLINDERS FOR CYLINDER TYPE: FC/FE 214	22
CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 110/118/129/137/149	22
CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 137/149	22
CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 157/169/179/191	22
CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 226/238	23
FOOT MOUNTED CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 110 - 191	24
FOOT MOUNTED CHASSIS BRACKETS FOR CYLINDER TYPE: FSE/EF 110 - 191	24
CRADLES	
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 077	25
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 110 (NARROW)	25
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 110 (WIDE)	25
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 118/129/137/149 (NARROW)	26
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 137/149/157/169/179/191 (WIDE)	26
TOP BRACKETS	
TOP BRACKETS FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø50 (BOLTABLE)	27
TOP BRACKETS FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø60 (BOLTABLE)	28
TOP BRACKETS FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø60 (WELDABLE)	28
BOLTS & NUTS	
BRACKET MOUNTING BOLT SETS	29
TOP NUT AND WASHER	29
SEAL KITS	
SEAL KITS FOR FC/FE/FSE CYLINDERS	30
DUST COVER	
CAPS FOR FC CYLINDERS	31
CAPS FOR FE/FEE/FSE CYLINDERS	31
CYLINDER RING FOR FE/FEE/FSE CYLINDERS	31

CODE EXPLANATION

CODE SYSTEM TIPPING CYLINDERS

FC A191 - 5 - 07130 - 000 - K0343 - XX

FC	A	191	5	7130	000	K0343	XX	
FC								Cylinder type description
	A							Alpha cylinder range
		191						Effective diameter first stage
			5					Number of extensions
				7130				Total stroke in mm (pull-out incorporated)
					0			Code E1 concerning fitting to base
					0			Code E2 concerning fitting to hydraulic system
					0			Code E3 concerning fitting to body
						K0343		Closed length
							XX	Other options

Cylinder type description

- FC - front-end cylinder with outer cover
- FE - front-end cylinder with piston eye
- FEE - front-end cylinder with piston eye and bottom eye with pin
- FSE - front-end cylinder with piston eye and single bottom eye
- FCE - front-end cylinder with outer cover and bottom eye

Code E1 concerning fitting to base

- 0 - standard trunnion at standard position
- 2 - double eye trunnion with bush (FEE)
- 4 - single spherical eye (FSE)

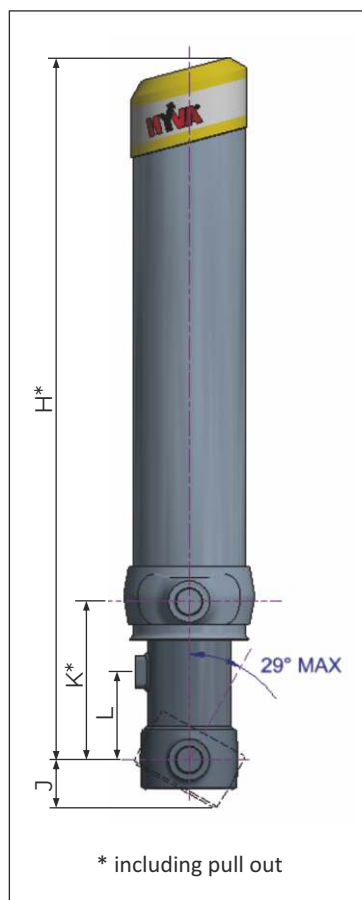
Code E2 concerning fitting to hydraulics

- 0 - standard inlet at standard front position
- 1 - standard inlet at non-standard front position
- 2 - NPT 1" inlet at standard front position
- 7 - standard inlet at side

Code E3 concerning fitting to body

- 0 - standard cover
- 1 - standard spherical eye
- 2 - fixed eye with bush
- 4 - non standard cover
- 9 - special cover or piston

FC - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FC A137

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70125364	FC A137-4-04980-004-K1050	250	35-52	205	52	1"BSP	1569	92	1050	190
70125410	FC A137-4-05180-000-K0343	250	35-53	231	54	1"BSP	1642	92	343	190

FC A149

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70525380	FC A149-4-04500-070-K0343	250	47-60	233	57	1"BSP	1452	95	343	280
70525410	FC A149-4-05180-070-K0343	250	45-59	258	65	1"BSP	1642	95	343	261
70525507	FC A149-4-06300-079-K0550-HC	250	44-58	303	81	1"BSP	2009	95	550	130

FC - CYLINDERS

FC A169

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70526450	FC A169-5-05830-000-K0343	250	46-58	289	87	1"BSP	1492	105	343	190
70526456	FC A169-5-05830-014-K1050	250	46-57	265	87	1"BSP	1489	105	1050	290
70526490	FC A169-5-06230-000-K0343	250	45-57	303	93	1"BSP	1572	105	343	190
70526491	FC A169-5-06230-000-K0343-HC	250	45-57	303	93	1"BSP	1572	105	343	190
70526530	FC A169-5-06480-004-K1050	250	45-56	294	97	1"BSP	1639	105	1050	190
70526550	FC A169-5-06830-000-K0343	250	45-55	327	102	1"BSP	1642	105	343	190
70526558	FC A169-5-06830-014-K1050	250	44-58	306	102	1"BSP	1709	105	1050	290
70525580	FC A169-5-07130-000-K0343	250	44-56	338	106	1"BSP	1772	105	343	190
70526586	FC A169-5-07130-014-K1050	190	34-48	317	106	1"BSP	1769	105	1050	290
70526680	FC A169-5-07630-004-K0343	220	38-55	514	114	1"BSP	1912	105	343	190
70526686	FC A169-5-07630-014-K1050	190	33-47	341	114	1"BSP	1909	105	1050	190
70526710	FC A169-5-08130-004-K0343	190	33-47	379	121	1"BSP	2012	105	343	190
70526718	FC A169-5-08130-000-K0486	190	33-46	375	121	1"BSP	2005	105	486	190
70526871	FC A169-5-09030-004-K0550-HC	150	26-35	410	135	1"BSP	2219	105	550	190
70526872	FC A169-5-09030-074-K0900	150	26-35	399	135	1"BSP	2219	105	900	290
70526873	FC A169-5-09030-074-K0900-HC	150	26-35	399	135	1"BSP	2219	105	900	290

FC A179

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70127710	FC A179-5-09030-014-K0900	150	30-41	430	152	1"BSP	2229	108	900	290

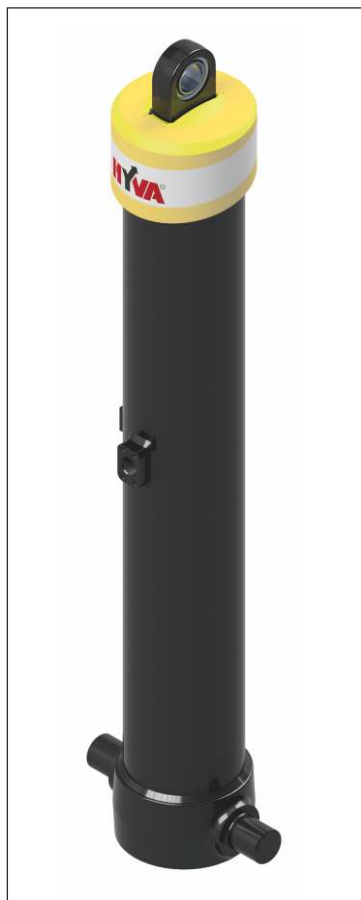
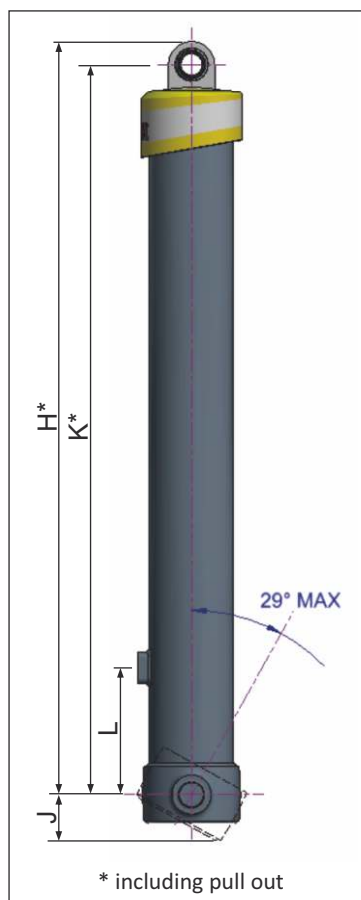
FC A191

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70527717	FC A191-5-08130-004-K0343-HC	220	56-79	468	159	1"BSP	2012	115	343	190
70527786	FC A191-6-08200-004-K1050	190	34-47	400	144	1"BSP	1709	115	1050	190
70527913	FC A191-6-09500-009-K0550-HC	170	30-40	455	169	1"BSP	2009	115	550	190

FC A214

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70528721	FC A214-5-08130-000-K0486-HC	220	77-99	540	204	1"BSP	1995	133	486	190
70528814	FC A214-6-08560-004-K1050	190	49-68	478	194	1"BSP	1759	133	1050	190

FE - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FE A129

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70544180	FE A129-3-03490-001-K1450	250	44-61	130	37	1"BSP	1503	91	1450	190
70544230	FE A129-3-03880-001-K1600	250	43-59	142	41	1"BSP	1653	91	1600	190
70544171	FE A129-4-03420-001-K1140-HC	250	29-47	116	31	1"BSP	1193	91	1140	190

FE A137

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70145360	FE A137-4-04980-001-K1530	220	31-52	161	52	1"BSP	1583	92	1530	190

FE A149

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70545264	FE A149-4-04320-001-K1365	250	47-61	162	54	1"BSP	1418	95	1365	190
70545296	FE A149-4-04660-009-K1485	250	45-60	172	59	1"BSP	1538	95	1485	190
70545360	FE A149-4-04980-001-K1530	250	45-60	180	63	1"BSP	1583	95	1530	190
70545420	FE A149-4-05460-001-K1670	220	39-58	195	69	1"BSP	1723	95	1670	190

FE - CYLINDERS

FE A157

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70146296	FE A157-4-04660-019-K1484	250	54-83	189	67	1"BSP	1537	102	1484	290
70196516	FE A157-4-05540-118-K1649	220	46-79	215	79	1"BSP	1699	102	1649	700
70146520	FE A157-4-06100-011-K1869	170	35-57	237	87	1"BSP	1922	102	1869	290
70146400	FE A157-5-05405-011-K1364	250	35-48	193	68	1"BSP	1417	102	1364	290

FE A169

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70546404	FE A169-5-05405-019-K1394	250	46-58	213	80	1"BSP	1447	105	1394	700
70546470	FE A169-5-05830-011-K1449	250	45-56	225	87	1"BSP	1502	105	1449	290
70546532	FE A169-5-06230-019-K1559	190	34-52	237	93	1"BSP	1612	105	1559	290
70546540	FE A169-5-06480-011-K1599	190	34-56	247	97	1"BSP	1652	105	1559	290
70546550	FE A169-5-06830-011-K1669	170	30-48	257	102	1"BSP	1722	105	1669	290
70546584	FE A169-5-07030-019-K1729	170	30-42	265	106	1"BSP	1782	105	1729	290

FE A179

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70147684	FE A179-5-07630-011-K1877	170	35-48	312	129	1"BSP	1930	108	1877	700

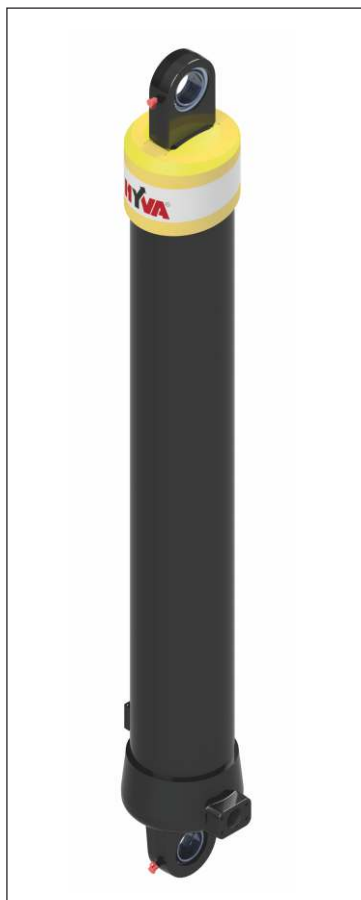
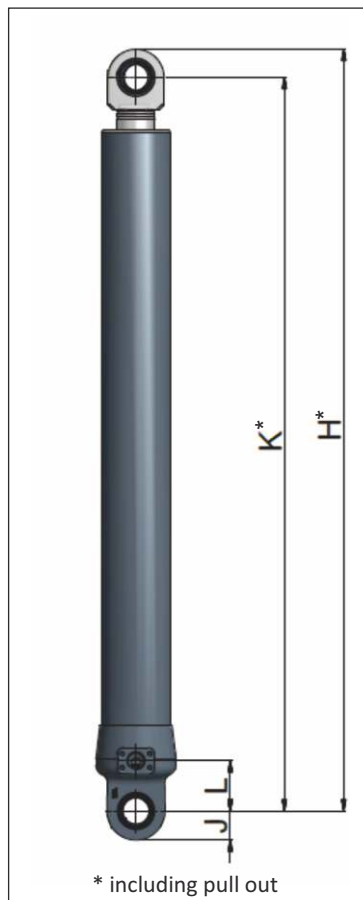
FE A191

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70547621	FE A191-4-07220-011-K2182-HC	150	51-69	361	158	1"BSP	2244	115	2182	290
70547528	FE A191-5-06230-016-K1532	220	57-79	282	122	1"BSP	1585	115	1532	390
70547603	FE A191-5-07130-011-K1732-HC	170	43-61	316	140	1"BSP	1785	115	1732	290
70547650	FE A191-5-07430-011-K1792	150	38-53	326	145	1"BSP	1845	115	1792	700
70547538	FE A191-6-06460-079-K1452	250	45-56	288	119	1"BSP	1505	115	1452	190

FE A214

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70548530	FE A214-5-06230-011-K1517	220	79-104	338	156	1"BSP	1579	133	1517	700
70548584	FE A214-5-07130-011-K1717	190	67-94	379	179	1"BSP	1779	133	1717	700

FSE - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

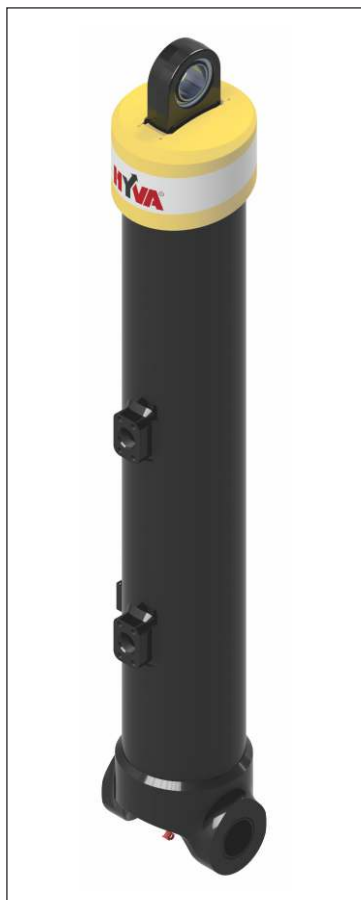
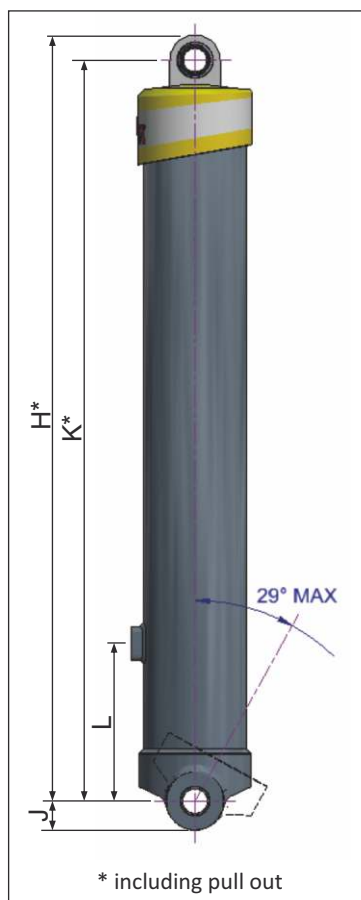
FSE A110

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70573143	FSE A110-3-03010-471-K1387-HC	250	29-48	90	22	1"BSP	1440	55	1387	95
70573171	FSE A110-3-03270-479-K1547-HC	250	28-49	101	25	1"BSP	1600	55	1547	95

FSE A129

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70574281	FSE A129-4-04320-471-K1464-HC	250	29-48	130	39	1"BSP	1517	55	1464	95

FEE - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FEE A110

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70573110	FEE A110-3-02110-223-K1075	250	32-53	74	16	1"BSP	1128	56	1075	330

FEE A129

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70574130	FEE A129-3-02785-243-K1300	250	46-63	107	30	1"BSP	1353	56	1300	330

FEE A149

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70575188	FEE A149-3-03490-243-K1535	250	64-81	151	50	1"NPT	1588	56	1535	330
70575184	FEE A149-4-03420-243-K1225	250	46-60	135	43	1"NPT	1278	56	1225	330
70575256	FEE A149-4-04020-243-K1375	250	47-57	151	51	1"BSP	1428	56	1375	330
70575270	FEE A149-4-04320-243-K1450	250	46-61	160	55	1"NPT	1503	56	1450	330
70575300	FEE A149-4-04660-243-K1535	250	45-60	169	59	1"BSP	1588	56	1535	330

FEE - CYLINDERS

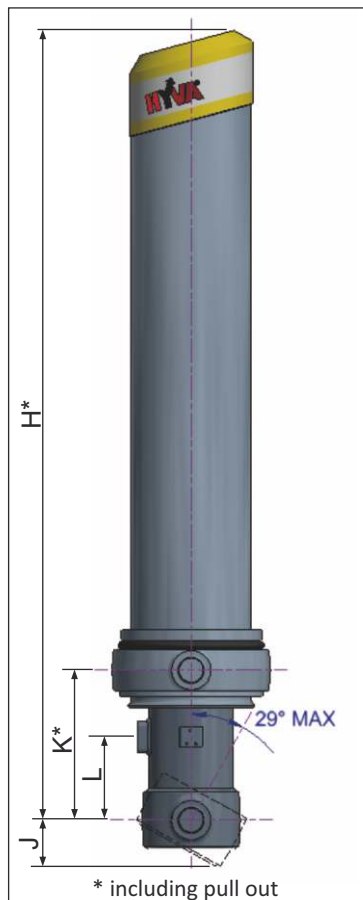
FEE A191

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70577340	FEE A191-5-04830-249-K1392-1HC	250	68-79	237	97	1"BSP	1445	61	1392	170
70577534	FEE A191-5-06230-201-K1632	220	57-78	279	122	1"BSP	1685	56	1632	330
70577544	FEE A191-5-06480-243-K1702-1HC	190	49-73	290	127	1"NPT	1755	61	1702	170
70577548	FEE A191-5-06830-243-K1772-1HC	190	49-78	302	134	1"NPT	1825	61	1772	170

FEE A214

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70578450	FE FEE A214-5-05830-221-K1552	220	80-100	315	146	1"NPT	1614	63.5	1552	330

HEAVY DUTY FC - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FC A110-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70513161	FC A110-3-03150-000-K0343-HD-HC	250	28-46	130	24	1"BSP	1397	94	343	190

FC A149-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70515360	FC A149-4-04845-000-K0343-HD	250	46-58	270	61	1"BSP	1572	95	343	190
70515420	FC A149-4-05405-000-K0343-HD	250	45-57	291	68	1"BSP	1712	95	343	190

FC A157-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70116440	FC A157-4-04505-000-K0343-HD	250	55-82	282	64	1"BSP	1492	102	343	190

HEAVY DUTY FC - CYLINDERS



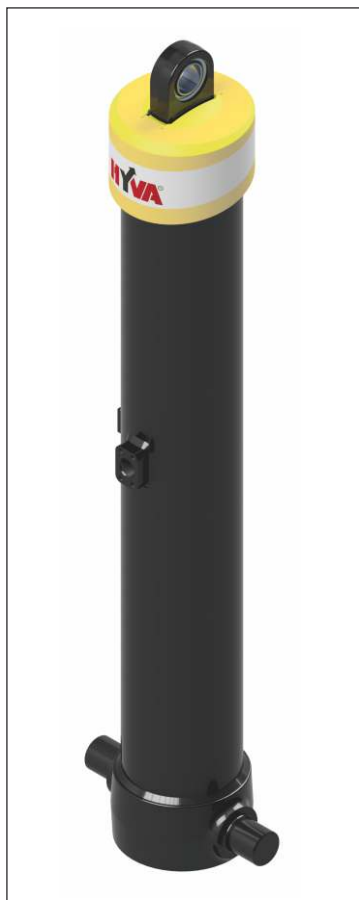
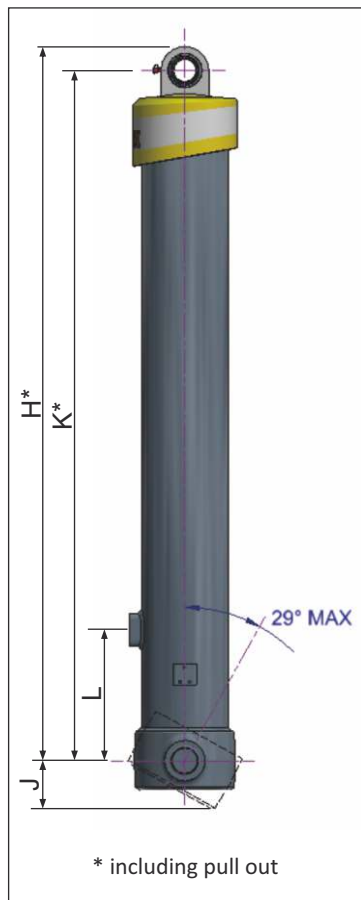
FC A169-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70516321	FC A169-4-04825-000-K0343-HD-HC	250	67-84	313	82	1"BSP	1572	105	343	190
70516444	FC A169-5-05850-007-K1050-HD	250	46-58	284	87	1"BSP	1529	105	1050	190
70516500	FC A169-5-06050-000-K0343-HD	250	45-57	332	90	1"BSP	1572	105	343	190

FC A191-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70517321	FC A191-4-04805-000-K0343-HD-HC	250	93-96	352	106	1"BSP	1572	115	343	190
70517491	FC A191-5-06025-000-K0343-HD-HC	250	67-78	376	118	1"BSP	1572	115	343	190
70517708	FC A191-5-08130-004-K1050-HD	190	48-66	442	159	1"BSP	2009	115	1050	190

HEAVY DUTY FE - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FE A110-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70533165	FE A110-3-03150-009-K1400-HD-HC	250	28-45	100	24	1"BSP	1453	86	1400	190

FE A118-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70134211	FE A118-3-03635-001-K1530-HD-HC	250	33-57	120	32	1"BSP	1583	60	1530	190

FE A129-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70534161	FE A129-3-03140-001-K1365-HD-HC	250	45-59	123	34	1"BSP	1418	91	1365	190
70534181	FE A129-3-03395-001-K1450-HD-HC	250	44-57	130	36	1"BSP	1503	91	1450	190
70534211	FE A129-3-03635-001-K1530-HD-HC	250	43-59	136	39	1"BSP	1583	91	1530	190

FE A137-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70135292	FE A137-4-04525-001-K1450-HD	250	35-52	154	47	1"BSP	1503	92	1450	190

HEAVY DUTY FE - CYLINDERS



FE A149-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70535201	FE A149-3-03620-001-K1530-HD-HC	250	63-80	161	53	1"BSP	1583	95	1530	190
70535211	FE A149-3-03830-009-K1645-HD-HC	250	63-84	168	56	1"BSP	1698	95	1645	190
70535257	FE A149-3-04220-001-K1730-HD-HC	250	65-87	180	61	1"BSP	1783	95	1730	190
70535295	FE A149-4-04525-009-K1490-HD-HC	250	46-61	172	57	1"BSP	1543	95	1490	190

FE A157-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70136390	FE A157-4-05105-011-K1599-HD	250	53-82	206	73	1"BSP	1652	102	1599	290
70136250	FE A157-5-04475-001-K1214-HD	250	37-51	173	56	1"BSP	1267	102	1214	190

FE A169-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70536263	FE A169-4-04165-019-K1366-HD-HC	250	69-80	196	71	1"BSP	1419	105	1366	290
70536291	FE A169-4-04505-009-K1451-HD-HC	250	67-85	207	76	1"BSP	1504	105	1451	190
70536305	FE A169-4-04665-009-K1599-HD-HC	250	66-84	226	82	1"BSP	1652	105	1599	190
70536321	FE A169-4-04825-009-K1531-HD-HC	250	66-82	217	82	1"BSP	1584	105	1531	190
70536371	FE A169-4-05105-009-K1601-HD-HC	250	66-84	227	86	1"BSP	1654	105	1601	190
70536391	FE A169-5-05225-009-K1366-HD-HC	250	46-57	213	78	1"BSP	1419	105	1366	190
70536484	FE A169-5-06050-011-K1529-HD	190	34-53	236	90	1"BSP	1582	105	1529	290

FE A191-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70597371	FE A191-4-04805-911-K1532-HD-HC	250	91-95	261	106	1"BSP	1594	115	1532	290
70537530	FE A191-5-06025-011-K1532-HD	250	65-81	282	118	1"BSP	1585	115	1532	290

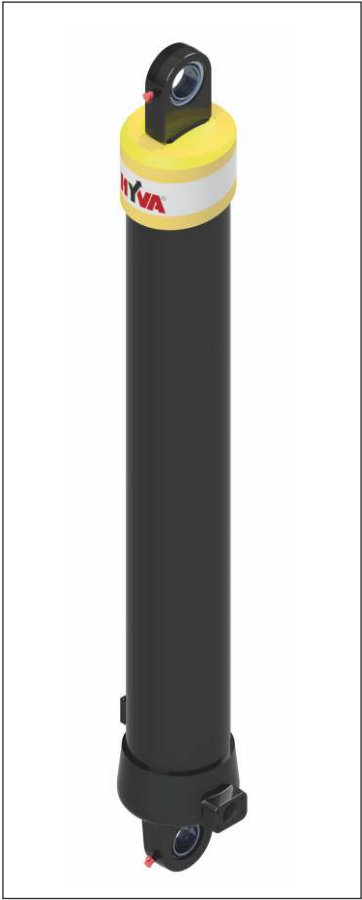
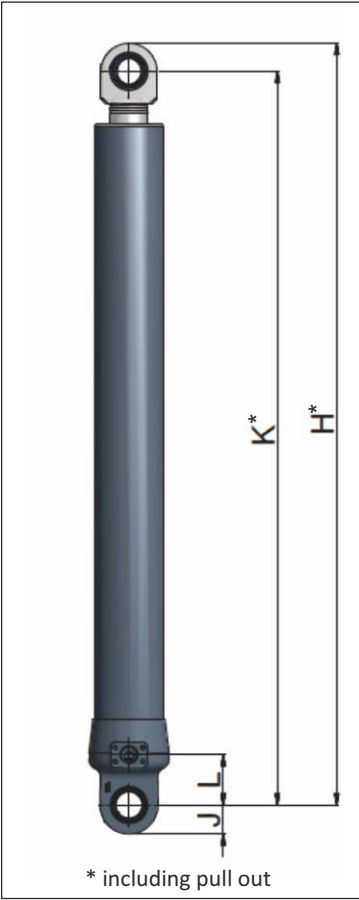
FE A214-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70538584	FE A214-5-06995-011-K1717-HD	190	67-96	379	176	1"BSP	1770	85	1717	390

FE A226-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70139630	FE A226-5-06970-011-K1723-HD	190	75-108	430	195	1"BSP	1785	137	1723	390

HEAVY DUTY FSE - CYLINDERS

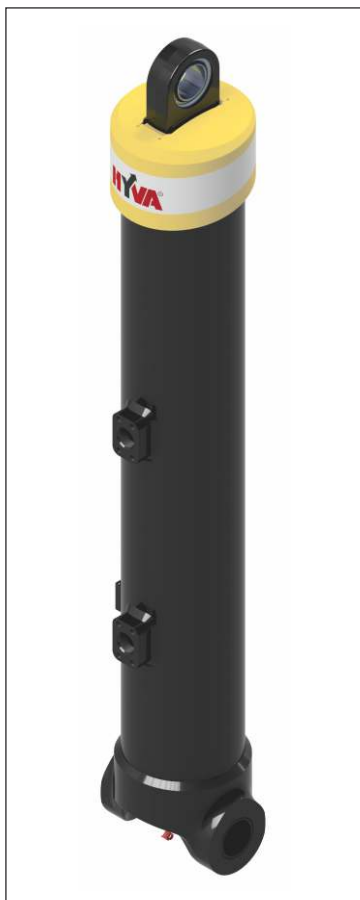
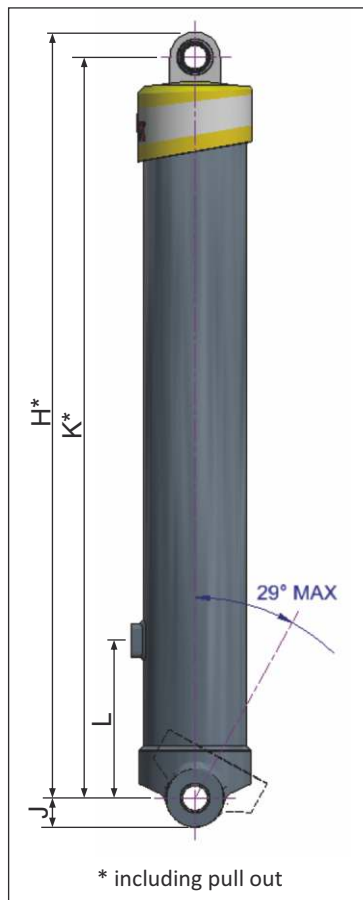


- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FSE A137-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70165245	FSE A137-4-03585-479-K1396-HD-HC	250	35-55	127	38	1"BSP	1449	55	1396	95
70165320	FSE A137-4-04185-479-K1496-HD	250	36-52	141	44	1"BSP	1549	55	1496	95

HEAVY DUTY FEE - CYLINDERS



- All cylinders incl. 20 mm pull out with tolerances of -5/+30mm.

FEE A129-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70564124	FEE A129-3-02690-248-K1275-HD	250	46-64	107	29	1"BSP	1320	56	1275	330
70564140	FEE A129-3-02915-243-K1375-HD	250	46-62	113	31	1"NPT	1428	56	1375	330
70564176	FEE A129-3-03140-243-K1450-HD	250	45-58	119	34	1"NPT	1503	56	1450	330
70564182	FEE A129-3-03395-243-K1535-HD	250	44-57	126	36	1"NPT	1588	56	1535	330
70564241	FEE A129-3-03635-221-K1615-HD-HC	250	43-59	133	39	1"BSP	1668	56	1615	330

FEE A149-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70565255	FEE A149-3-03830-923-K1690-HD-HC	250	63-84	172	56	1"BSP	1743	56	1690	330

FEE A169-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70566309	FEE A169-4-04505-923-K1544-HD-HC	250	68-79	210	76	1"BSP	1597	61	1544	330

HEAVY DUTY FEE - CYLINDERS



FEE A191-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70567460	FEE A191-5-05625-223-K1552-HD	250	66-80	263	110	1"NPT	1605	61	1552	330

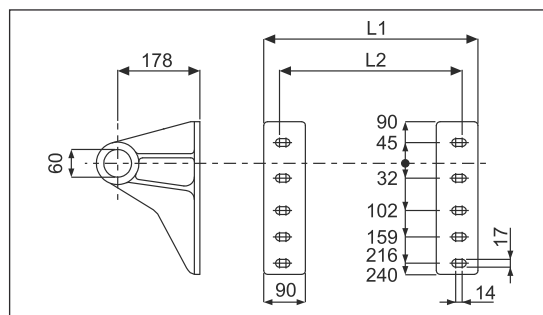
FEE A214-HD

Part no.	Description	Pressure (bar)	Tipping weight (ton)	Weight (kg)	Volume (l)	Oil inlet	H* (mm)	J (mm)	K* (mm)	L (mm)
70568584	FEE A214-5-06995-211-K1832-HD	190	67-96	373	175	1"BSP	1894	63.5	1832	390

LIFTING BRACKETS

LIFTING BRACKETS FOR CYLINDER TYPE: FC 110/118/129

Bracket Type	Part no. right bracket	Part no. left bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01509120	01509121	Lifting bracket D60 H178 110-129	7.7	190	01794235
Greased version	01509124	01509125	Lifting bracket D60 H178 110-129	7.9	255	None

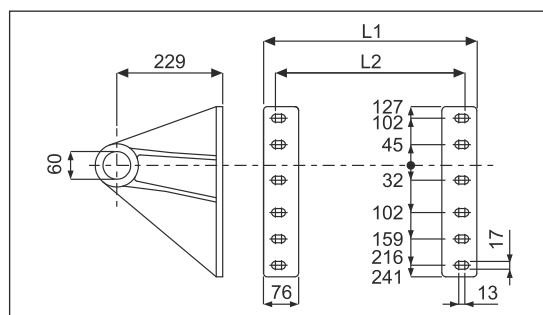


Cover	A-dimension*	L1 (mm)	L2 (mm)
168	201	305	237
219	340	444	376
241	340	444	376
242	340	444	376

* Refers to trunnion width, which can be found on the spec sheet.

LIFTING BRACKETS FOR CYLINDER TYPE: FC 118/129/137/149/157/169/179

Bracket Type	Part no. right bracket	Part no. left bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01509130	01509131	Lifting bracket D60 H229 118-179	9.8	235	01794240
Greased version	01509136	01509137	Lifting bracket D60 H229 118-179	10.0	290	None

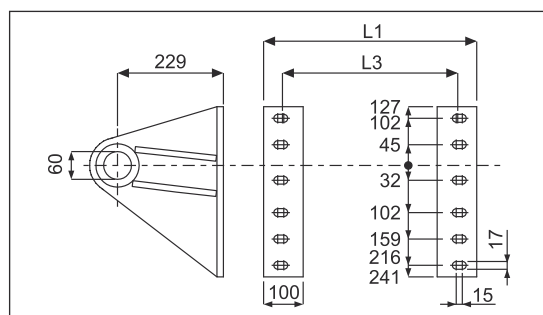


Cover	A-dimension*	L1 (mm)	L2 (mm)
219	340	462	410
241	340	462	410
242	340	462	410
273	340	462	430

* Refers to trunnion width, which can be found on the spec sheet.

LIFTING BRACKETS FOR CYLINDER TYPE: FC 191/202/214

Bracket Type	Part no. right bracket	Part no. left bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000122	5629000123	Lifting bracket D60 H229 191-214	14.0	440	01794240



Cover	A-dimension*	L1 (mm)	L2 (mm)
241	340	490	386
242	340	490	386
273	360	510	410

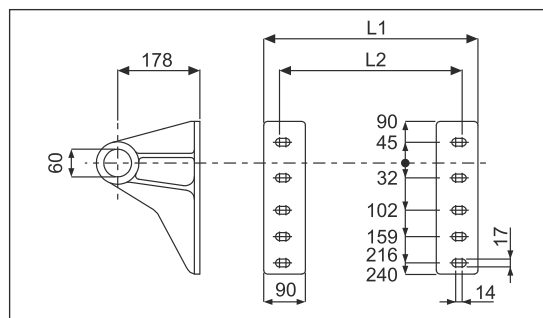
* Refers to trunnion width, which can be found on the spec sheet.

Mount the lifting brackets with the bolts to the outer side or the inner side of the slotted hole. In this way the washer and bolt, clamp on maximum surface and can absorb the largest forces. Max. 1 mm clearance between each bracket and the cylinder.

LIFTING BRACKETS

LIFTING BRACKET FOR CYLINDER TYPE: FC 202

Bracket Type	Part no. right bracket	Part no. left bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000673	5629000672	Lifting bracket 202	15.0	515	01794029

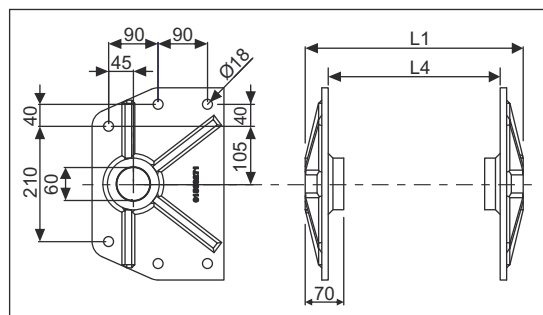


Cover	A-dimension*	L1 (mm)	L2 (mm)
273	360	510	410

* Refers to trunnion width, which can be found on the spec sheet.

LIFTING BRACKET SILO

Bracket Type	Part no. right bracket	Part no. left bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	01509271	01509271	Lifting bracket Silo D60	9.6	290	01794019



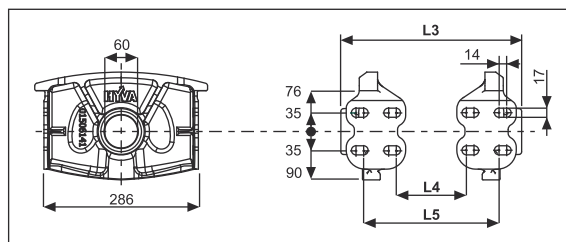
Cover	A-dimension	L1 (mm)	L4 (mm)
242	340	482	398
273	360	502	418

Mount the lifting brackets with the bolts to the outer side or the inner side of the slotted hole. In this way the washer and bolt, clamp on maximum surface and can absorb the largest forces. Max. 1 mm clearance between each bracket and the cylinder.

CHASSIS BRACKETS

CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 110/118/129/137/149

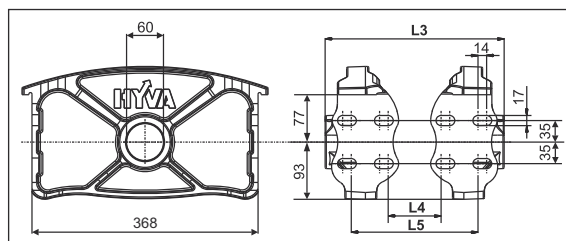
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01506141	Chassis bracket 286-D60 STD-MF-T24	7.1	235	01794240
Greased version	01506146	Chassis bracket 286-D60 HD-GR-T30	7.1	290	01794020



Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 110	308	103	223
FC/FE 118	325	120	240
FC/FE 129	346	141	261
FC/FE 137	346	141	261
FC/FE 149	346	141	261

CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 137/149

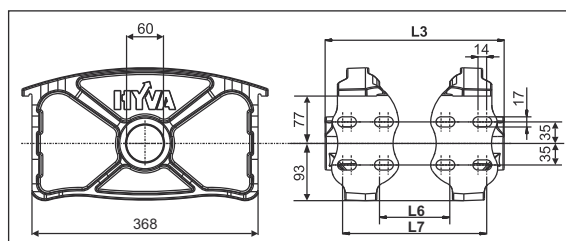
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01506181	Chassis bracket 368-D60 STD-MF-T24	10.3	235	01794240
Greased version	01506182	Chassis bracket 368-D60 HD-GR-T45	10.2	440	01794020



Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 137	346	141	261
FC/FE 149	346	141	261

CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 157/169/179/191

Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01506181	Chassis bracket 368-D60 STD-MF-T24	10.3	235	01794240
Greased version	01506182	Chassis bracket 368-D60 HD-GR-T45	10.2	440	01794020



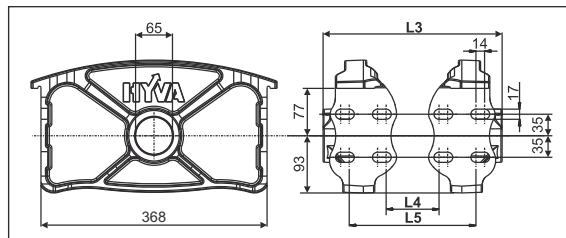
Cylinder	L3 (mm)	L6 (mm)	L7 (mm)
FC/FE 157	388	211	331
FC/FE 169	388	211	331
FC/FE 179	388	211	331
FC/FE 191	388	211	331

Mount the chassis brackets with the bolts to the outer side or the inner side of the slotted hole. In this way the washer and bolt, clamp on maximum surface and can absorb the largest forces. *Max. 1 mm clearance between each bracket and the cylinder.*

CHASSIS BRACKETS

CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 214

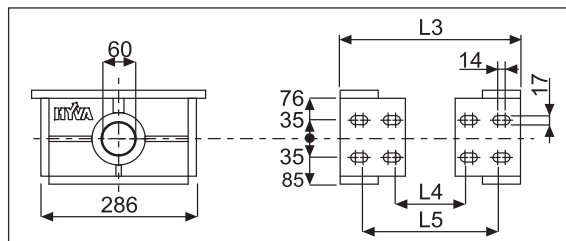
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Maintenance free	01506185	Chassis bracket 368-D65-STD-MF-T26	10.4	255	01794245
Greased version	01506186	Chassis bracket 368-D65-HD-GR-T45	10.2	440	01794245



Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 214	308	211	331

CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 110/118/129/137/149

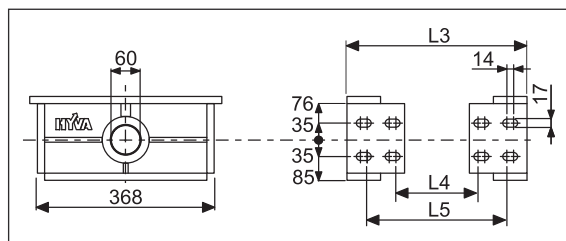
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000154	Chassis bracket 286-D60 HD-GR-T30	15.0	295	01794020



Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 110	307	103	223
FC/FE 118	324	120	240
FC/FE 129	345	141	261
FC/FE 137	345	141	261
FC/FE 147	345	141	261

CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 137/149

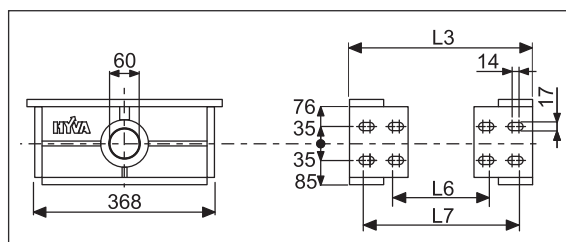
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000121	Chassis bracket 368-D60 HD-GR-T50	17.8	490	01794020



Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 137	345	141	261
FC/FE 149	345	141	261

CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 157/169/179/191

Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000121	Chassis bracket 368-D60 HD-GR-T50	17.8	490	01794020



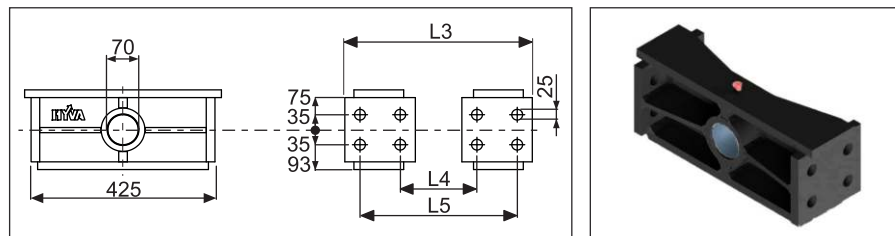
Cylinder	L3 (mm)	L6 (mm)	L7 (mm)
FC/FE 157	387	211	331
FC/FE 169	387	211	331
FC/FE 179	387	211	331
FC/FE 191	387	211	331

Mount the chassis brackets with the bolts to the outer side or the inner side of the slotted hole. In this way the washer and bolt, clamp on maximum surface and can absorb the largest forces. *Max. 1 mm clearance between each bracket and the cylinder.*

CHASSIS BRACKETS

CHASSIS BRACKETS FOR CRADLE MOUNTED CYLINDER TYPE: FC/FE 226/238

Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	5629000163	Chassis bracket 425-D70 HD-GR-T50	30.0	490	01794030



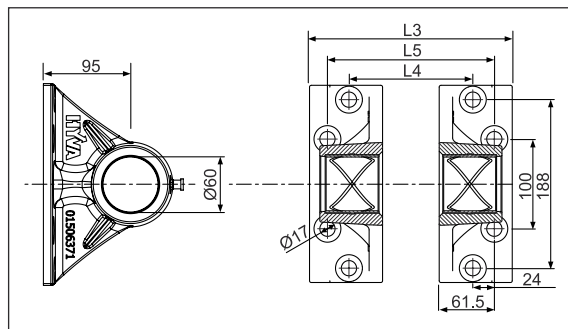
Cylinder	L3 (mm)	L4 (mm)	L5 (mm)
FC/FE 226	514	258	444
FC/FE 238	514	258	444

Mount the chassis brackets with the bolts to the outer side or the inner side of the slotted hole. In this way the washer and bolt, clamp on maximum surface and can absorb the largest forces. *Max. 1 mm clearance between each bracket and the cylinder.*

CHASSIS BRACKETS

FOOT MOUNTED CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 110 - 191

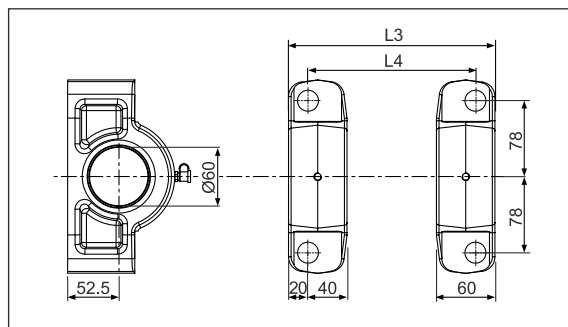
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	01506371	Foot mount H=95 D60 HD-GR-T34	4.4	335	01794020



Cylinder FC/FE	L3 (mm)	L4 (mm)	L5 (mm)
110	328	240	288
118	345	257	261
129/137/149	366	278	282
157/169	410	322	326
179/191	454	366	370

FOOT MOUNTED CHASSIS BRACKETS FOR CYLINDER TYPE: FC/FE 110 - 191

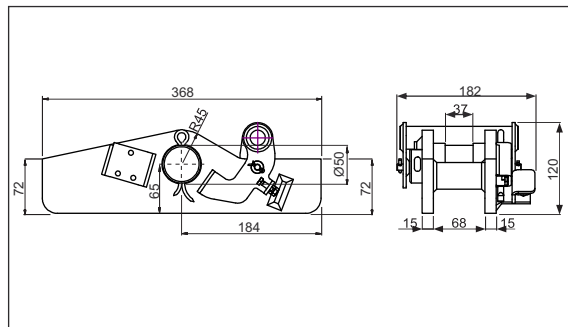
Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement bush
Greased version	01506166	Chassis bracket compact D60 HD-GR-T34	4.6	335	01794019



Cylinder FC/FE	L3 (mm)	L4 (mm)
110	284	244
118	301	261
129/137/149	322	282
157/169	366	326
179/191	410	370

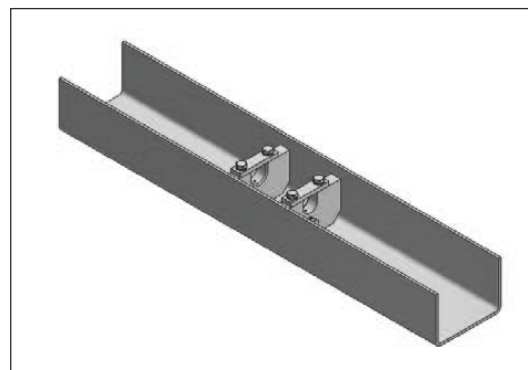
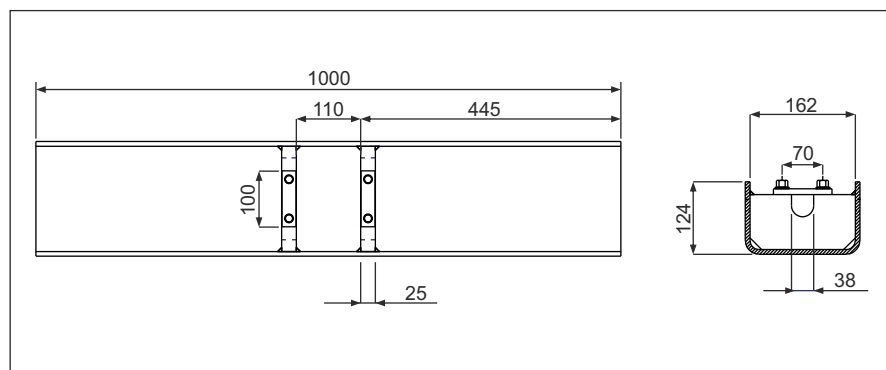
FOOT MOUNTED CHASSIS BRACKETS FOR CYLINDER TYPE: FSE/EF 110 - 191

Bracket Type	Part no. bracket	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement pin
Welded version	562000689	Chassis bracket FSE/EF D50	10.4	292	56274147



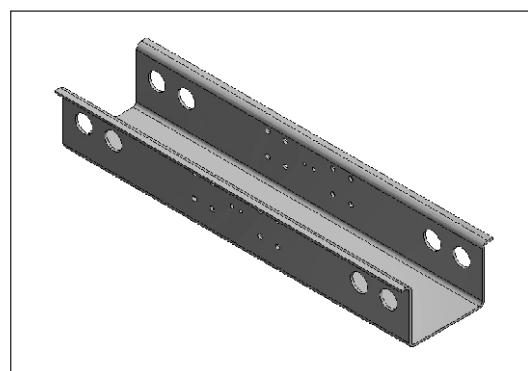
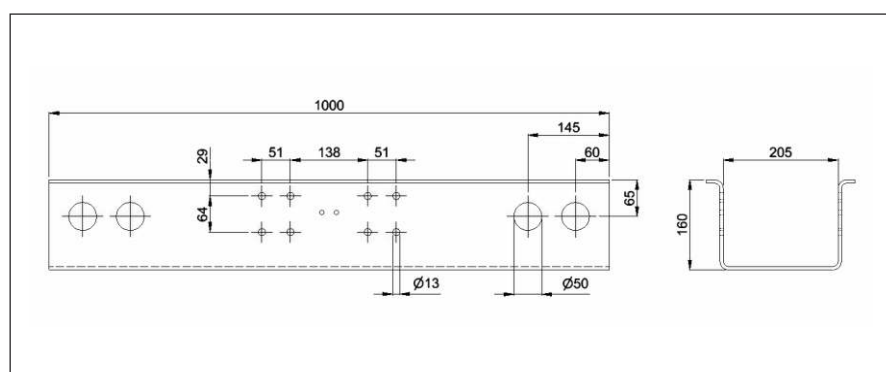
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 077

Part no.	Description	Weight (kg)
01507545	Cylinder cradle FC 077	24.5



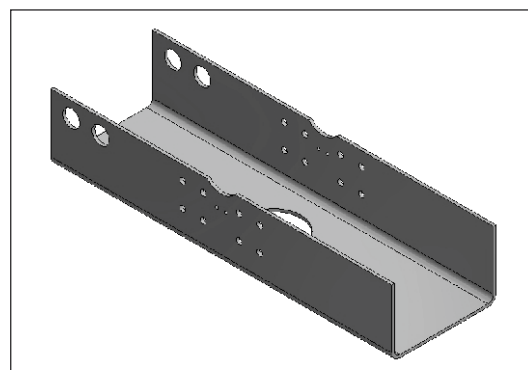
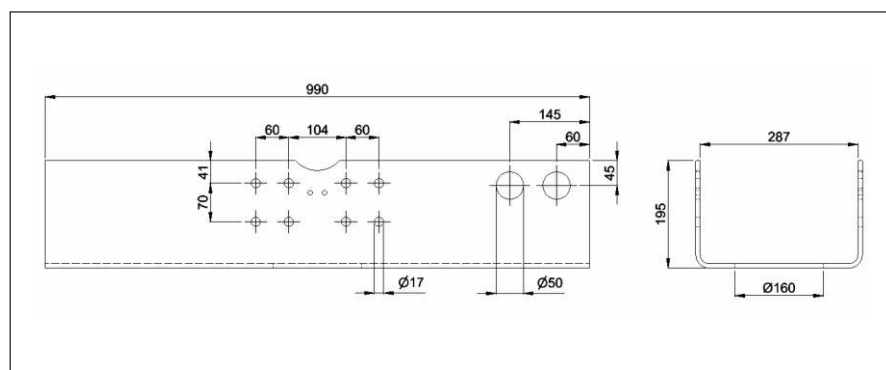
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 110 (NARROW)

Part no.	Description	Weight (kg)
01507512	Cylinder cradle FC/FE 110 narrow	25.2



CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 110 (WIDE)

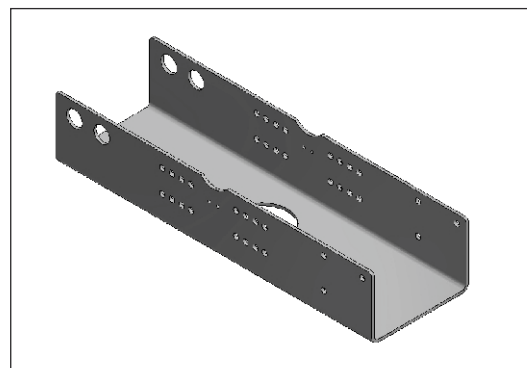
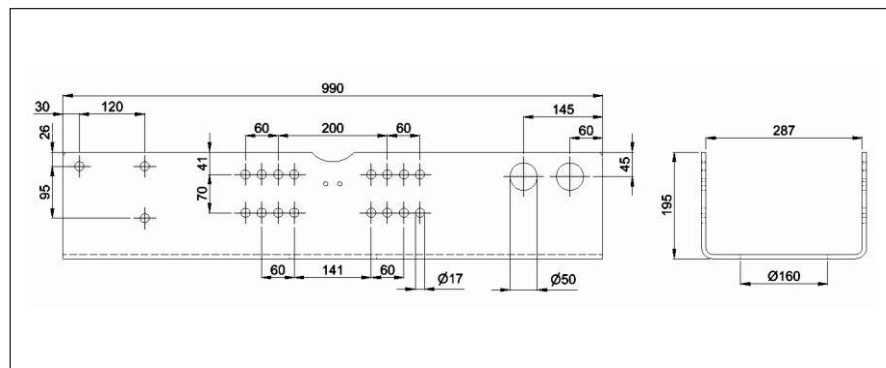
Part no.	Description	Weight (kg)
01507513	Cylinder cradle FC/FE 110 wide	39.0



For all cradles use: Bolts & Self-locking nuts with Property Class 8.8 or higher & Washer over slotted holes in bracket.

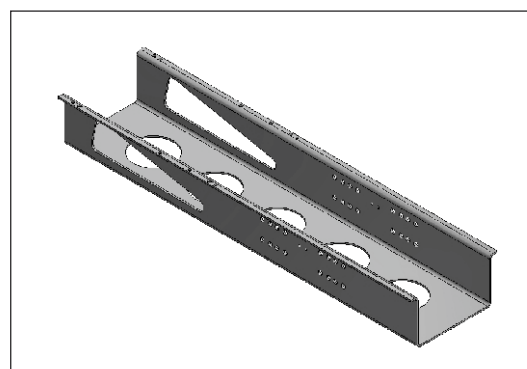
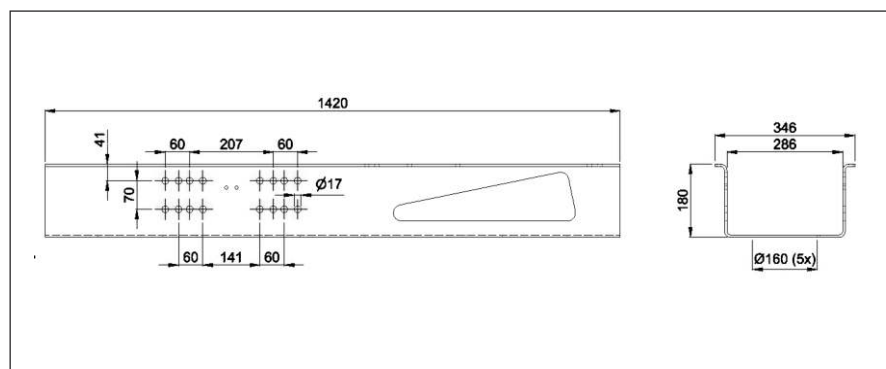
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 118/129/137/149 (NARROW)

Part no.	Description	Weight (kg)
01507516	Cylinder cradle FC/FE 118/129/137/149 narrow	38.5



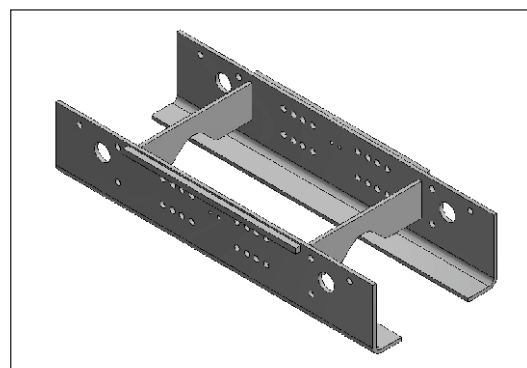
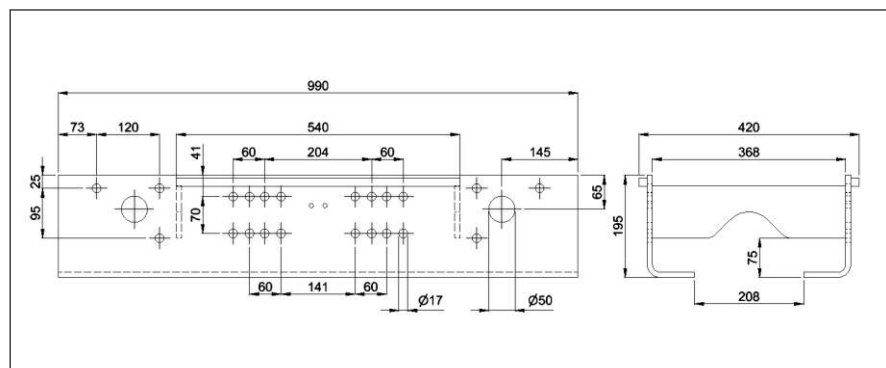
CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 118/129/137/149 (NARROW)

Part no.	Description	Weight (kg)
01507538	Cylinder cradle FC/FE 118/129/137/149 narrow	36.5



CYLINDER CRADLE FOR CYLINDER TYPE: FC/FE 137/149/157/169/179/191 (WIDE)

Part no.	Description	Weight (kg)
01507520	Cylinder cradle FC/FE 137/149/157/169/179/191 wide	47.3

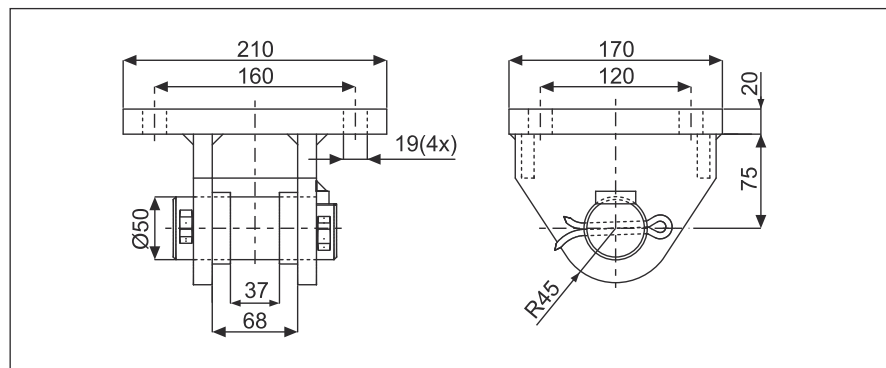


For all cradles use: Bolts & Self-locking nuts with Property Class 8.8 or higher & Washer over slotted holes in bracket.

TOP BRACKETS

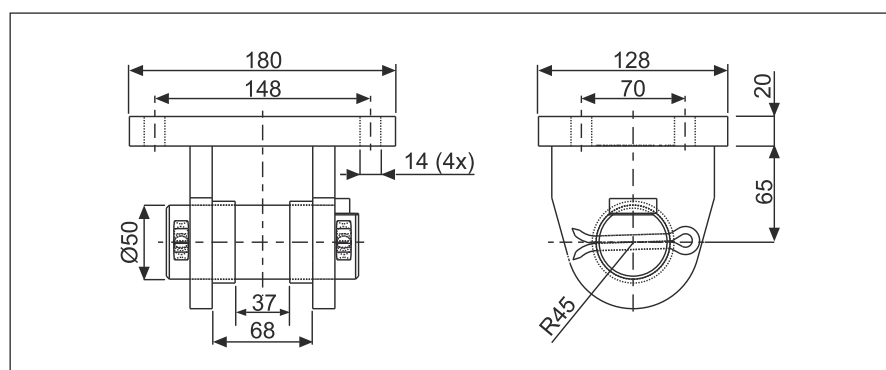
TOP BRACKET FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø50 (BOLTABLE)

Part no.	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement axle kit
01506777	Top bracket FE/FEE/FSE Bolted PIN50 H75 W210 T345	11.0	345	01506776



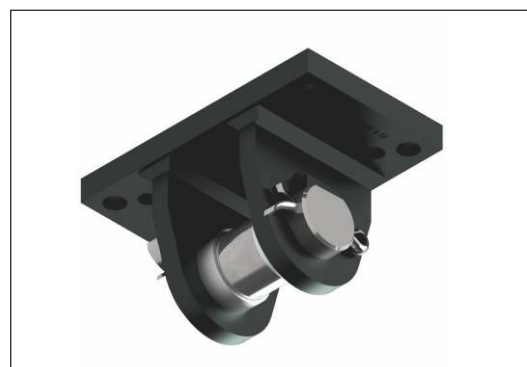
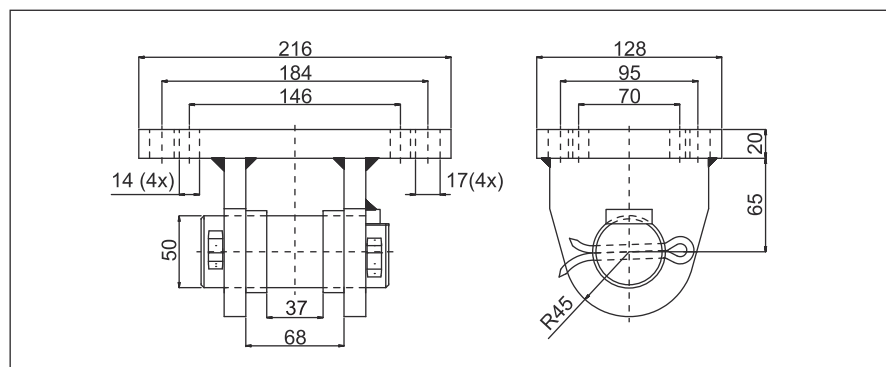
TOP BRACKET FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø50 (BOLTABLE)

Part no.	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement axle kit
01506787	Top bracket FE/FEE/FSE Bolted PIN50 H65 W180 T345	7.5	345	01506776



TOP BRACKET FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø50 (BOLTABLE)

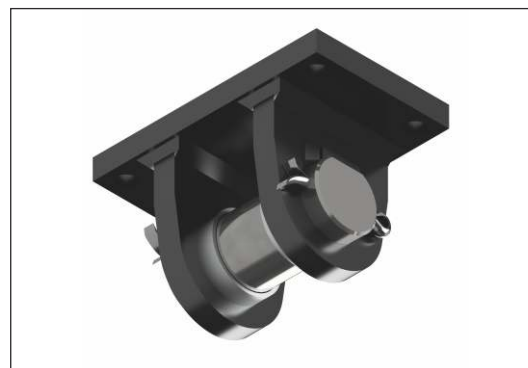
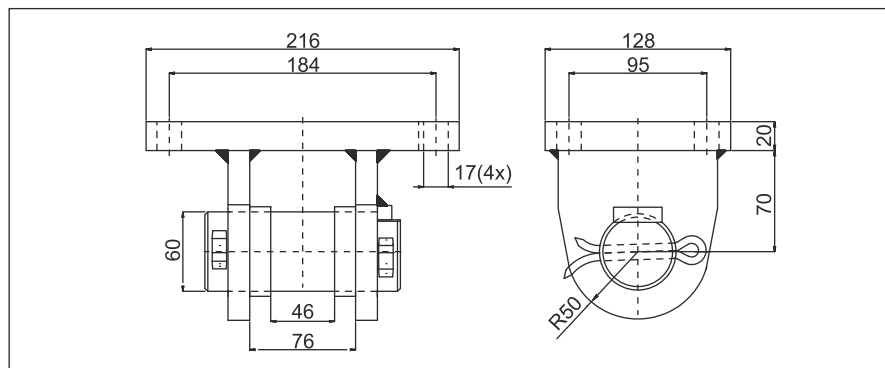
Part no.	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement axle kit
01506785	Top bracket FE/FEE/FSE Bolted PIN50 H65 W216 T345	8.3	345	01506776



TOP BRACKETS

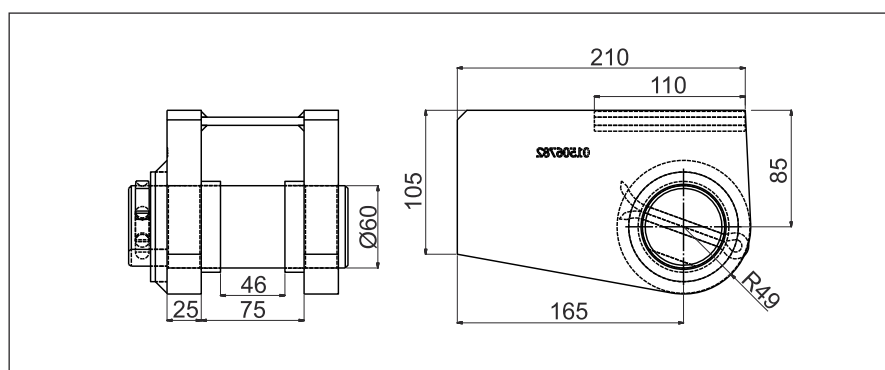
TOP BRACKET FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø60 (BOLTABLE)

Part no.	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement axle kit
01506789	Top bracket FE/FEE/FSE Bolted PIN60 H70 W216 T495	10.6	495	01506784



TOP BRACKET FOR CYLINDER TYPE: FE/FEE/FSE WITH EYE Ø60 (WELDABLE)

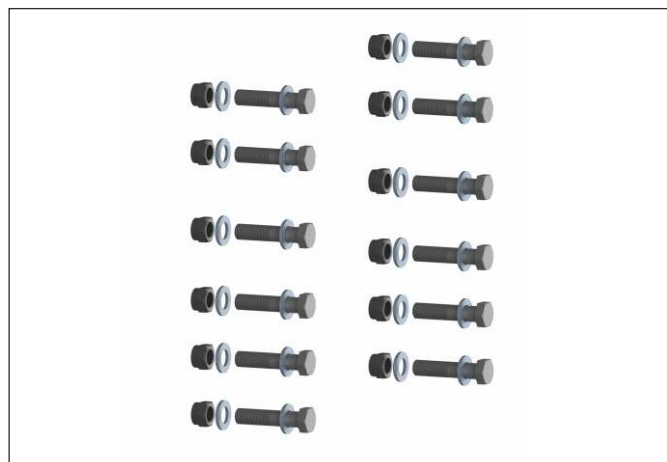
Part no.	Description	Weight (kg)	Max. cylinder load (kN)	Part no. replacement axle kit
01506782	Top bracket FE/FEE/FSE Welded PIN50 H85 W125 T495	13.4	495	01506781



BOLTS & NUTS

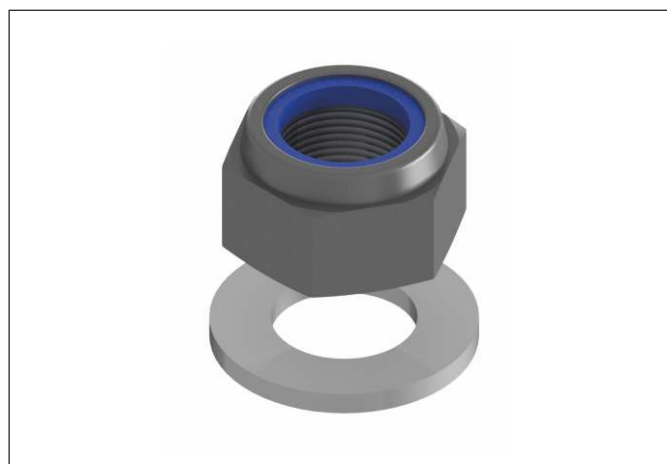
BRACKET MOUNTING BOLT SETS

Part no.	Description	Qty. of bolts
Q005	Chassis bracket bolt set M16x60	16
Q006	Chassis bracket bolt set M16x60	12
Q007	Chassis bracket bolt set M16x70	12



TOP NUT AND WASHER

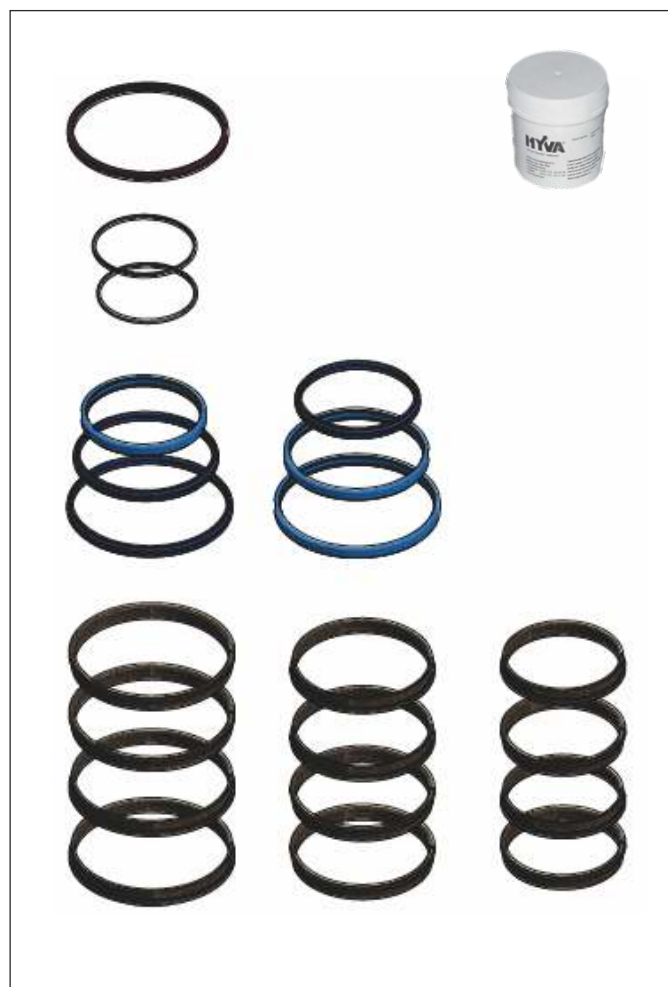
Part no.	Description	Key width
01702890K	Top nut and washer - FC - M48	75



SEAL KITS

SEAL KITS FOR FC/FE/FSE CYLINDERS

Part no.	Description
71908310K	Seal kit complete A110-1
71908321K	Seal kit complete A110-2-HD
71908330K	Seal kit complete A110-3
71908331K	Seal kit complete A110-3-HD
71908335K	Seal kit complete A110-3-FSE
71907410K	Seal kit complete A118-1
71907420K	Seal kit complete A118-2
71907430K	Seal kit complete A118-3
71907431K	Seal kit complete A118-3-HD
71907435K	Seal kit complete A118-3-FSE
71908425K	Seal kit complete A129-2-FSE
71908430K	Seal kit complete A129-3
71908431K	Seal kit complete A129-3-HD
71908435K	Seal kit complete A129-3-FSE
71908440K	Seal kit complete A129-4
71908445K	Seal kit complete A129-4-FSE
71907530K	Seal kit complete A137-3
71907531K	Seal kit complete A137-3-HD
71907540K	Seal kit complete A137-4
71907541K	Seal kit complete A137-4-HD
71907545K	Seal kit complete A137-4-FSE
71907546K	Seal kit complete A137-4-HD-FSE
71908520K	Seal kit complete A149-2
71908530K	Seal kit complete A149-3
71908531K	Seal kit complete A149-3-HD
71908535K	Seal kit complete A149-3-FSE
71908540K	Seal kit complete A149-4
71908541K	Seal kit complete A149-4-HD
71908545K	Seal kit complete A149-4-FSE
71908546K	Seal kit complete A149-4-HD-FSE
71908550K	Seal kit complete A149-5
71907630K	Seal kit complete A157-3
71907631K	Seal kit complete A157-3-HD
71907640K	Seal kit complete A157-4
71907641K	Seal kit complete A157-4-HD
71907645K	Seal kit complete A157-4-FSE
71907650K	Seal kit complete A157-5
71907651K	Seal kit complete A157-5-HD
71908640K	Seal kit complete A169-4
71908641K	Seal kit complete A169-4-HD
71908645K	Seal kit complete A169-4-FSE
71908650K	Seal kit complete A169-5
71908651K	Seal kit complete A169-5-HD
71908660K	Seal kit complete A169-6
71907731K	Seal kit complete A179-3-HD
71907740K	Seal kit complete A179-4
71907741K	Seal kit complete A179-4-HD

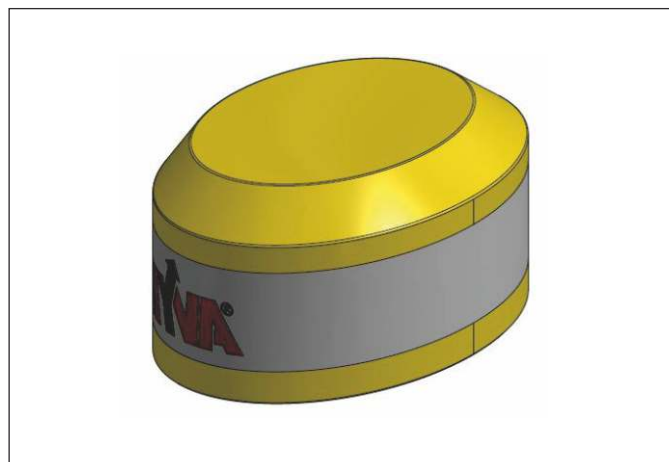


Part no.	Description
71907750K	Seal kit complete A179-5
71907751K	Seal kit complete A179-5-HD
71907760K	Seal kit complete A179-6
71908740K	Seal kit complete A191-4
71908741K	Seal kit complete A191-4-HD
71908750K	Seal kit complete A191-5
71908751K	Seal kit complete A191-5-HD
71908760K	Seal kit complete A191-6
71908761K	Seal kit complete A191-6-HD
71907841K	Seal kit complete A202-4-HD
71907851K	Seal kit complete A202-5-HD
71908841K	Seal kit complete A214-4-HD
71908850K	Seal kit complete A214-5
71908851K	Seal kit complete A214-5-HD
71908860K	Seal kit complete A214-6
71908861K	Seal kit complete A214-6-HD
71907951K	Seal kit complete A226-5-HD

DUST COVERS

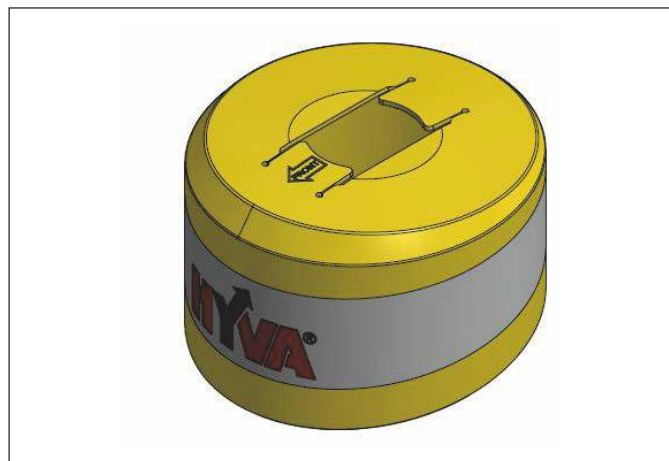
CAPS FOR FC CYLINDERS

Part no.	Description
71839000	Cylinder Cap for FC cover 168
71839010	Cylinder Cap for FC cover 195
71839020	Cylinder Cap for FC cover 219
71839030	Cylinder Cap for FC cover 241
71839040	Cylinder Cap for FC cover 244
71839050	Cylinder Cap for FC cover 273



CAPS FOR FE/FEE/FSE CYLINDERS

Part no.	Description
71839100	Cylinder Cap for FE/FEE/FSE 110-3/118-3
71839110	Cylinder Cap for FE/FEE/FSE 129-3/137-3
71839111	Cylinder Cap for FE/FEE/FSE 129-4/137-4
71839120	Cylinder Cap for FE/FEE/FSE 149-3
71839121	Cylinder Cap for FE/FEE/FSE 149-4/157-4
71839123	Cylinder Cap for FE/FEE/FSE 157-3
71839122	Cylinder Cap for FE/FEE/FSE 157-5
71839130	Cylinder Cap for FE/FEE/FSE 169-4/191-5
71839131	Cylinder Cap for FE/FEE/FSE 169-5/179-5/191-6
71839132	Cylinder Cap for FE/FEE/FSE 169-6
71839134	Cylinder Cap for FE/FEE/FSE 179-3
71839133	Cylinder Cap for FE/FEE/FSE 179-4/191-4
71839149	Cylinder Cap for FE/FEE/FSE 202-4/214-4
71839150	Cylinder Cap for FE/FEE/FSE 202-5/215-5
71839151	Cylinder Cap for FE/FEE/FSE 214-6
71839160	Cylinder Cap for FE/FEE/FSE 226-5



CYLINDER RING FOR FE/FEE/FSE CYLINDERS

Part no.	Description
71839200	Cylinder ring for FE/FEE/FSE 091
70233010	Cylinder ring for FE/FEE/FSE 099
71839210	Cylinder ring for FE/FEE/FSE 110
70233020	Cylinder ring for FE/FEE/FSE 118
71839220	Cylinder ring for FE/FEE/FSE 129
70233030	Cylinder ring for FE/FEE/FSE 137
71839230	Cylinder ring for FE/FEE/FSE 149
70233040	Cylinder ring for FE/FEE/FSE 157
71839240	Cylinder ring for FE/FEE/FSE 169
70233050	Cylinder ring for FE/FEE/FSE 179
71839250	Cylinder ring for FE/FEE/FSE 191
70233060	Cylinder ring for FE/FEE/FSE 202
71839260	Cylinder ring for FE/FEE/FSE 214
70233070	Cylinder ring for FE/FEE/FSE 226
71839270	Cylinder ring for FE/FEE/FSE 238





ON- & OFF-HIGHWAY



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- Tipping Cylinders & Wetkits
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- Hydraulic Components
- Towing Devices
- Horizontal Loading and Unloading Systems
- Electric Solutions
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