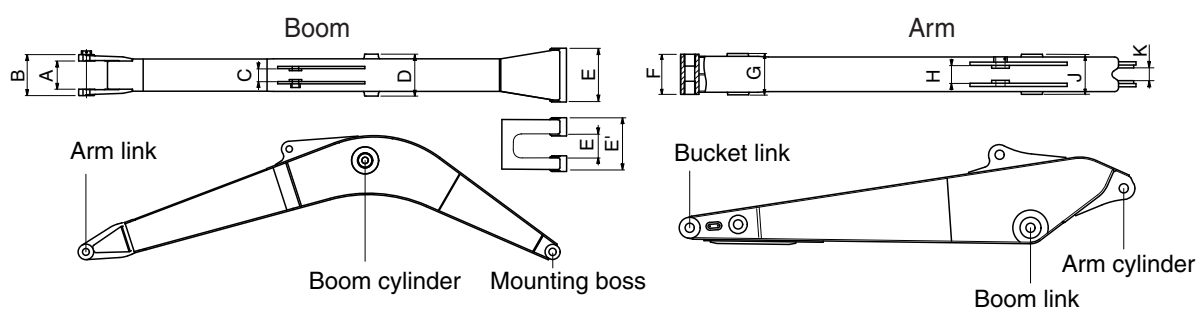


ATTACHMENT SPECIFICATION

1. Mounting Lug and Boss, Boom and Arm (1/4)

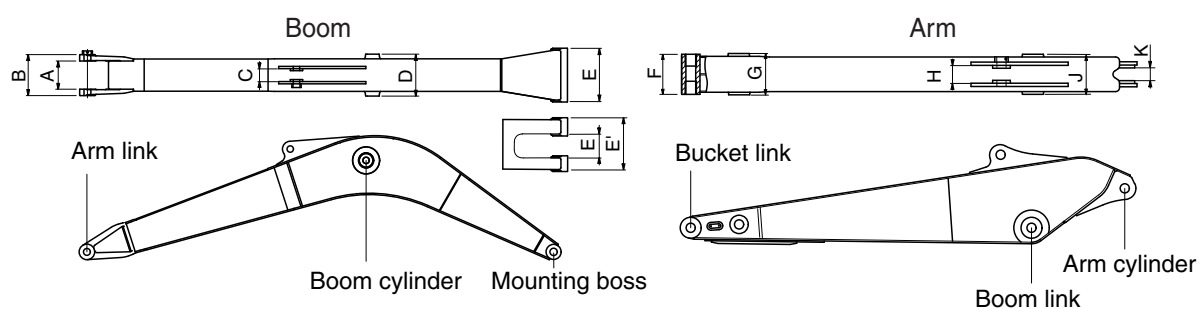


Unit : mm
inch

Model	Boom						Arm				
	A	B	C	D	E	E'	F	G	H	J	K
R16-9, R17Z-9A, R18-9, R-18-9AK	132	162	42	42	170	-	119	117	42	130	42
	5.20	6.38	1.65	1.65	6.69	-	4.69	4.61	1.65	5.12	1.65
HX17E	113	153	42	47	158	-	104	104	42	110	42
	4.45	6.02	1.65	1.85	6.22	-	4.09	4.09	1.65	4.33	1.65
HX17A Z, HX19A	132	212	42	128	170	-	119	141	42	130	42
	5.20	8.35	1.65	5.04	6.69	-	4.69	5.55	1.65	5.12	1.65
R25Z-9A, R25Z-9AK	127	146	52	52	176	-	135	133	52	125	52
	5.00	5.75	2.05	2.05	6.93	-	5.31	5.24	2.05	4.92	2.05
R27Z-9, R30Z-9AK	127	156	52	52	176	-	135	133	52	125	52
	5.00	6.14	2.05	2.05	6.93	-	5.31	5.24	2.05	4.92	2.05
HX25,30AZ	127	209	52	159	178	257	135	143	52	125	52
	5.00	8.23	2.05	6.26	7.01	10.12	5.31	5.63	2.05	4.92	2.05
R35Z-9, R35Z-9A	155	226	57	57	218	-	135	133	57	153	57
	6.10	8.90	2.24	2.24	8.58	-	5.31	5.24	2.24	6.02	2.24
HX35A Z	155	226	57	163	218	-	135	133	57	153	57
	6.10	8.90	2.24	6.42	8.58	-	5.31	5.24	2.24	6.02	2.24
HX40A	155	226	57	182	240	-	135	133	57	153	57
	6.10	8.90	2.24	7.17	9.45	-	5.31	5.24	2.24	6.02	2.24
R55-9, R60-9S, R55W-9, R60W-9S, HX60, HW60, HX65A, HW65AH	164	238	62	72	248	-	164	162	57	162	62
	6.46	9.37	2.44	2.83	9.76	-	6.46	6.38	2.24	6.38	2.44
HX48A Z, HX55A CR	161	239	62	196	240	-	155	156	62	159	62
	6.34	9.41	2.44	7.72	9.45	-	6.10	6.14	2.44	6.26	2.44
R60CR-9A	164	238	62	72	248	-	164	162	62	162	62
	6.46	9.37	2.44	2.83	9.76	-	6.46	6.38	2.44	6.38	2.44
R80CR-9	214	290	77	92	355	-	194	194	62	212	77
	8.43	11.42	3.03	3.62	13.98	-	7.64	7.64	2.44	8.35	3.03
HX85A, HX85A (#10001), HX90A (#10001-)	214	290	77	92	355	-	194	194	62	212	81
	8.43	11.42	3.03	3.62	13.98	-	7.64	7.64	2.44	8.35	3.19
HW100A	209	284	78	93	350	-	200	180	63	206	78
	8.23	11.18	3.07	3.66	13.78	-	7.87	7.09	2.48	8.11	3.07
R125LCR-9A, HX130 LCR, HX130A LCR	260	383	94	391	511	-	259	246	94	256	94
	10.24	15.08	3.70	15.39	20.12	-	10.20	9.69	3.70	10.08	3.70

ATTACHMENT SPECIFICATION

1. Mounting Lug and Boss, Boom and Arm (2/4)

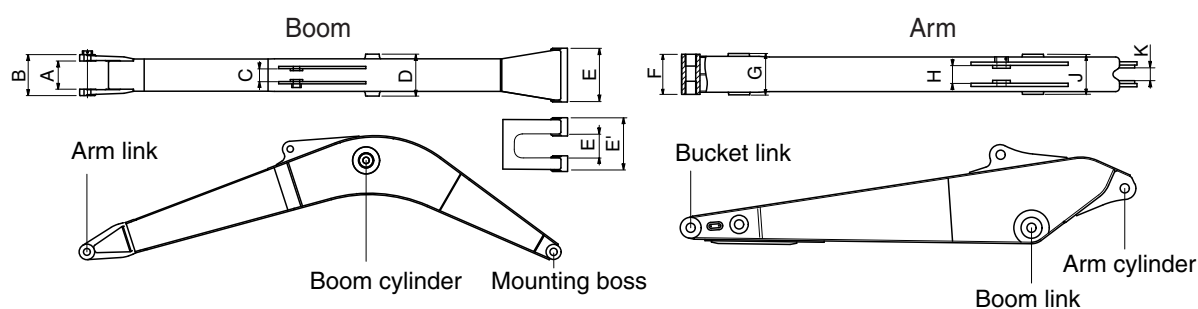


Unit : mm
inch

Model	Boom						Arm				
	A	B	C	D	E	E'	F	G	H	J	K
R140LC-9, R140LC-9S, R140W-9, R140W-9S, HX140 L, HX140 LC, HX140LT3 (-#0132), HX140A L (-#0685), HW140	260	380	99	391	511	-	259	246	94	256	99
	10.24	14.96	3.90	15.39	20.12	-	10.20	9.69	3.70	10.08	3.90
HX140A L (4.10 m Boom)	260	380	99	391	511	-	259	246	94	256	99
	10.24	14.96	3.90	15.39	20.12	-	10.20	9.69	3.70	10.08	3.90
HX140A L (2PCS, #0686-)	260	380	99	391	511		260	250	87	256	99
	10.24	14.96	3.90	15.39	20.12	-	10.24	9.84	3.43	10.08	3.90
HX140LT3 (#0133-), HX140A L (#0686-), HX145LCRT3 (#0247-), HX145A LCR (#0838-)	270	390	101	406	491		250	250	87	267	101
	10.63	15.35	3.98	15.98	19.33	-	9.84	9.84	3.43	10.51	3.98
HW140A, HW150A CR	260	380	99	467	550	-	259	246	94	256	99
	10.24	14.96	3.90	18.39	21.65	-	10.20	9.69	3.70	10.08	3.90
R145CR-9, HX145 LCR, HX145LCRT3 (-#0246), HX145A LCR (-#0837), HW155A	260	380	99	391	551	-	259	246	94	256	99
	10.24	14.96	3.90	15.39	21.69	-	10.20	9.69	3.70	10.08	3.90
HX145A LCR (4.10 m Boom)	260	380	99	391	551	-	259	246	94	256	99
	10.24	14.96	3.90	15.39	21.69	-	10.20	9.69	3.70	10.08	3.90
HX145A LCR (2PCS, #0838-)	260	380	99	391	551		260	250	87	256	99
	10.24	14.96	3.90	15.39	21.69	-	10.24	9.84	3.43	10.08	3.90
R160LC-9, R160LC-9S, R170W-9, R170W-9S, R180LC-9, R180LC-9S, R190W-9, HX160 L, HX160A L, HW160, HX180 L, HX180A L, HW180	307	448	99	454	585	-	307	303	99	303	99
	12.09	17.64	3.90	17.87	23.03	-	12.09	11.93	3.90	11.93	3.90
HW160A, HW170A CR	307	448	99	468	550	-	307	303	99	303	99
	12.09	17.64	3.90	18.43	21.65	-	12.09	11.93	3.90	11.93	3.90
R210NLC-9, R210W-9, R210W-9S, HX210A L, HX210A NL, HW210A, HW210, HX220 NL	350	520	120	479	621	-	330	330	109	346	121
	13.78	20.47	4.72	18.86	24.45	-	12.99	12.99	4.29	13.62	4.76
R210LC-9, R220LC-9, R220LC-9SH, R235LCR-9, HX210/220S (-#4560), HX210/220HD, HX220 L, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX235 LCR, HX235A LCR (-#0442), HX235LCRT3 (-#0108)	350	520	120	515	694	-	330	330	109	346	121
	13.78	20.47	4.72	20.28	27.32	-	12.99	12.99	4.29	13.62	4.76

ATTACHMENT SPECIFICATION

1. Mounting Lug and Boss, Boom and Arm (3/4)

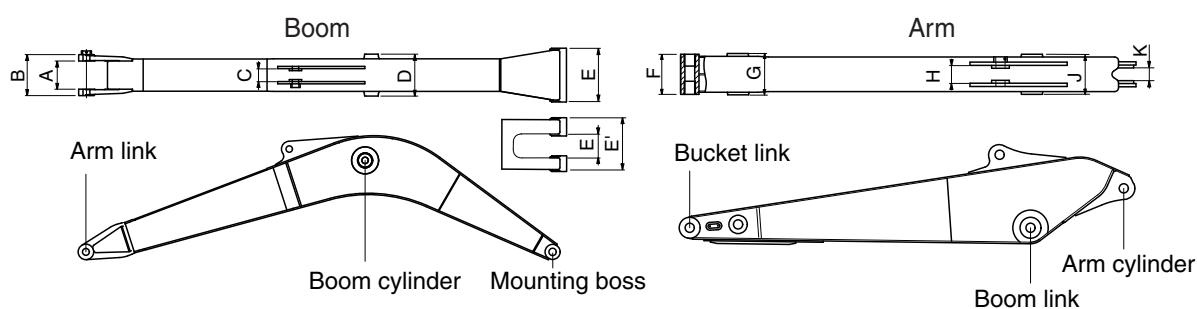


Unit : mm
inch

Model	Boom						Arm				
	A	B	C	D	E	E'	F	G	H	J	K
HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-), HX235A LCR (#0443-), HX235LCRT3 (#0109-)	347	506	109	506	628	-	330	318	99	344	109
	13.66	19.92	4.29	19.92	24.72	-	12.99	12.52	3.90	13.54	4.29
Long Reach HX210/220S (-#4560), HX210/220HD, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977)	350	489	110	515	694	-	259	250	84	346	110
	13.78	19.25	4.33	20.28	27.32	-	10.20	9.84	3.31	13.62	4.33
Long Reach HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-)	347	506	109	506	628	-	250	250	87	344	109
	13.66	19.92	4.29	19.92	24.72	-	9.84	9.84	3.43	13.54	4.29
HX220RB	347	520	120	506	-	628	330	330	109	346	121
	13.66	20.47	4.72	19.92	-	24.72	12.99	12.99	4.29	13.62	4.76
R250LC-9, R260LC-9A, R260LC-9S, HX260 L, HX260LT3, HX260A L	400	580	134	596	763	-	399	380	120	396	135
	15.75	22.83	5.28	23.46	30.04	-	15.71	14.96	4.72	15.59	5.31
R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, HX300 L, HX300LT3 (-#0180), HX300A L (-#1618), HX300S L (-#1896)	400	600	134	612	779	-	399	380	120	396	135
	15.75	23.62	5.28	24.09	30.67	-	15.71	14.96	4.72	15.59	5.31
STD, 2-Piece, HD HX300LT3 (#0181-), HX300A L (#1619-), HX300S L (#1897-)	411	594 (602)	123	600	758	-	394	364	101	408	123
	16.18	23.39 (23.70)	4.84	23.62	29.84	-	15.51	14.33	3.98	16.06	4.84
Long Reach 30 ton	360	499	134	612	779	-	259	250	84	356	134
	14.17	19.65	5.28	24.09	30.67	-	10.20	9.84	3.31	14.02	5.28
HX300RB	411	600	134	600	-	758	394	380	120	396	135
	16.18	23.62	5.28	23.62	-	29.84	15.51	14.96	4.72	15.59	5.31
R320LC-9, R330LC-9A, R330LC-9S, R330LC-9SH, R350LC-9, HX330 L, HX330A L, HX330S L, HX340S L, HX350LT3, HX350A L	434	654	130	612	779	-	430	410	110	430	131
	17.09	25.75	5.12	24.09	30.67	-	16.93	16.14	4.33	16.93	5.16
HX355ALCR	411	602	140	600	-	758	366	364	101	408	140
	16.18	23.70	5.51	23.62	-	29.84	14.41	14.33	3.98	16.06	5.51
Next Generation HX360L, HX400L	396	570	150	600	804	-	420	382	110	393	150
	15.59	22.44	5.91	23.62	31.65	-	16.54	15.04	4.33	15.47	5.91

ATTACHMENT SPECIFICATION

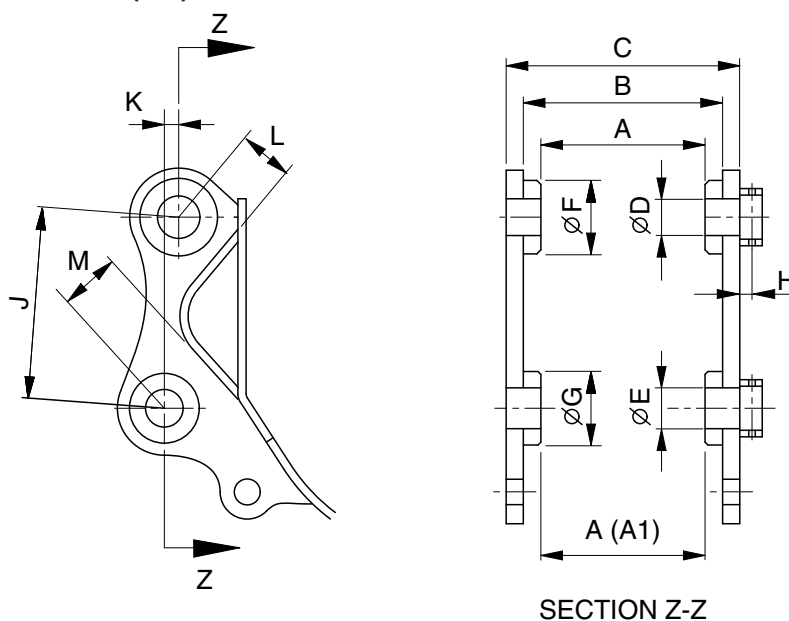
1. Mounting Lug and Boss, Boom and Arm (4/4)



Unit : mm
inch

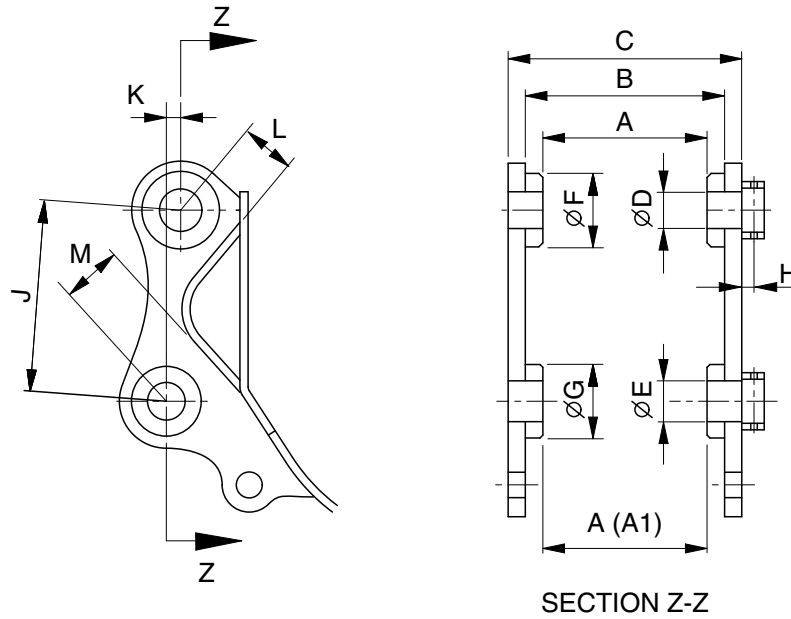
Model	Boom						Arm				
	A	B	C	D	E	E'	F	G	H	J	K
R380LC-9, R380LC-9A, R380LC-9SH, HX380 L, HX380A L (-#0162)	434	624	130	653	824	-	430	410	134	430	131
	17.09	24.57	5.12	25.71	32.44	-	16.93	16.14	5.28	16.93	5.16
HX380A L (#0163-), HX400LT3	424	586	130	653	824	-	430	410	134	420	131
	16.69	23.07	5.12	25.71	32.44	-	16.93	16.14	5.28	16.54	5.16
R430LC-9, R430LC-9SH, HX430 L	434	624	130	653	824	-	430	410	134	430	131
	17.09	24.57	5.12	25.71	32.44	-	16.93	16.14	5.28	16.93	5.16
R480LC-9, R480LC-9A, R480LC-9S (-#1075)	434	634	144	653	824	-	430	410	120	430	145
	17.09	24.96	5.67	25.71	32.44	-	16.93	16.14	4.72	16.93	5.71
R480LC-9S (#1076-), R520LC-9, R520LC-9A, R520LC-9S, HX480 L, HX480A L (-#0005), HX480S L, HX520 L, HX520A L (-#0024), HX520S L	434	634	144	653	824	-	430	410	130	430	145
	17.09	24.96	5.67	25.71	32.44	-	16.93	16.14	5.12	16.93	5.71
HX480A L (#0006-), HX500LT3, HX520LT3, HX520A L (#0025-)	424	602	144	653	824	-	470	410	130	420	145
	16.69	23.70	5.67	25.71	32.44	-	18.50	16.14	5.12	16.54	5.71
R800LC-9, R850LC-9	534	802	165	893	785	1165	532	532	146	530	166
	21.02	31.57	6.50	35.16	30.91	45.87	20.94	20.94	5.75	20.87	6.54
Long Reach R800LC-9, R850LC-9	534	802	165	893	785	1165	430	410	130	530	166
	21.02	31.57	6.50	35.16	30.91	45.87	16.93	16.14	5.12	20.87	6.54
HX800L, HX800AL	510	634	163	810	820	1184	460	485	163	506	163
	20.08	24.96	6.42	31.89	32.28	46.61	18.11	19.09	6.42	19.92	6.42
HX900 L	532	820	162	893	785	1165	562	542	162	530	163
	20.94	32.28	6.38	35.16	30.91	45.87	22.13	21.34	6.38	20.87	6.42
HX1000L, HX1000AL	556	700	204	856	818	1220	580	568	204	552	204
	21.89	27.56	8.03	33.70	32.20	48.03	22.83	22.36	8.03	21.73	8.03
R1200-9, R1250-9	690	1010	205	959	883	1307	650	652	175	686	205
	27.17	39.76	8.07	37.76	34.76	51.46	25.59	25.67	6.89	27.01	8.07

2. Mounting Lug and Bucket (1/5)

Unit : mm
inch

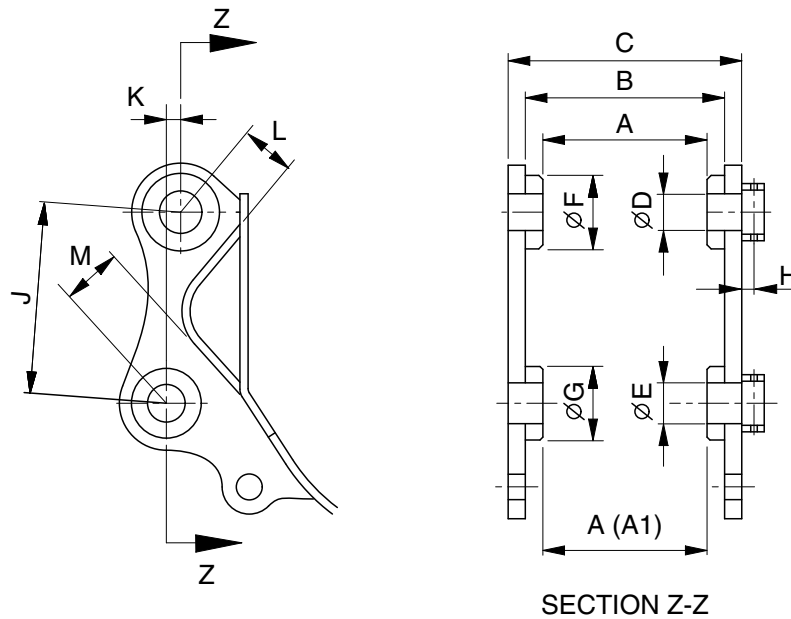
Model	A (A1)	B	C	J	K	L	M	ØD	ØE	ØF	ØG	H
R16-9 R18-9, R18-9AK	119	167	185	140	27	45	51	30	30	70	70	16
	4.69	6.57	7.28	5.51	1.06	1.77	2.01	1.18	1.18	2.76	2.76	0.63
R17Z-9A	119	167	185	140	27	44	50	30	30	70	70	16
	4.69	6.57	7.28	5.51	1.06	1.73	1.97	1.18	1.18	2.76	2.76	0.63
HX17E	105	151	171	140	27	55.8	68.2	30	30	70	70	16
	4.13	5.94	6.73	5.51	1.06	2.20	2.69	1.18	1.18	2.76	2.76	0.63
HX17A Z, HX19A	119	165	185	140	27	55.8	68.2	30	30	70	70	16
	4.69	6.50	7.28	5.51	1.06	2.20	2.69	1.18	1.18	2.76	2.76	0.63
R25Z-9A, R25Z-9AK	137	169	193	180	0	59	50	35	35	80	80	16
	5.39	6.65	7.60	7.09	0.00	2.32	1.97	1.38	1.38	3.15	3.15	0.63
R27Z-9, R30Z-9AK	135	169	193	180	0	59	51	35	35	80	80	16
	5.31	6.65	7.60	7.09	0.00	2.32	2.01	1.38	1.38	3.15	3.15	0.63
HX25,30AZ	135	169	193	180	0	67.33	48.6	35	35	80	80	19
	5.31	6.65	7.60	7.09	0.00	2.65	1.91	1.38	1.38	3.15	3.15	0.75
R35Z-9, R35Z-9A	135	183	207	200	20	75	58	40	40	80	80	18
	5.31	7.20	8.15	7.87	0.79	2.95	2.28	1.57	1.57	3.15	3.15	0.71
HX35A Z, HX40A	135	183	207	200	20	75	57.6	40	40	80	80	18
	5.31	7.20	8.15	7.87	0.79	2.95	2.27	1.57	1.57	3.15	3.15	0.71
R55-9, R55W-9, R60CR-9, R60-9S, R60W-9S, HX60, HW60, HX65A, HW65AH	164	216	246	285	57	49	80	45	45	100	100	18
	6.46	8.50	9.69	11.22	2.24	1.93	3.15	1.77	1.77	3.94	3.94	0.71
HX48A Z, HX55A CR	155	216	246	230	61.1	102.23	96.6	45	45	100	100	18
	6.10	8.50	9.69	9.06	2.41	4.02	3.80	1.77	1.77	3.94	3.94	0.71
R80CR-9	194	252	290	295	52	87	85	55	55	108	108	19
	7.64	10.00	11.50	11.60	2.05	3.23	3.35	2.17	2.17	4.25	4.25	0.75
HX85A, HX85A (#10001), HX90A (#10001-)	194	252	290	295	52	92	116	55	55	108	108	19
	7.64	9.92	11.42	11.60	2.05	3.62	4.57	2.17	2.17	4.25	4.25	0.75

2. Mounting Lug and Bucket (2/5)

Unit : mm
inch

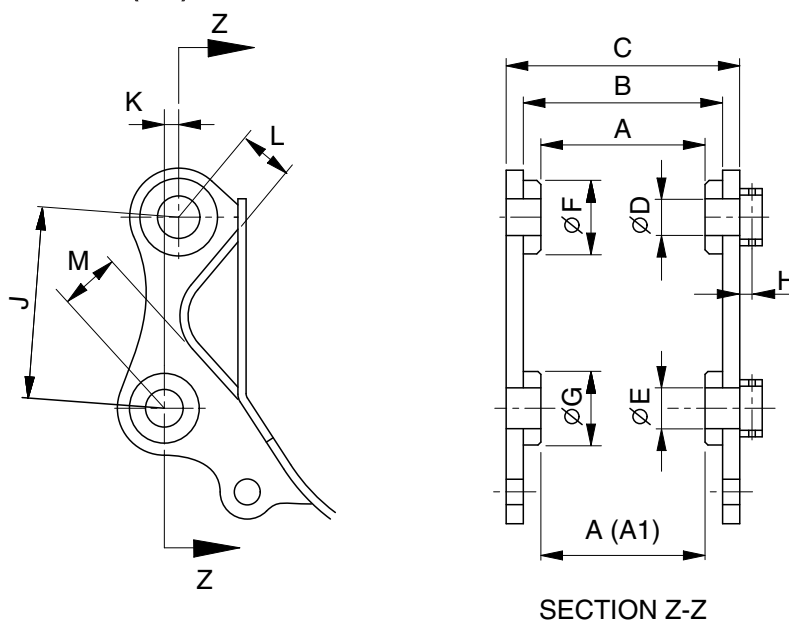
Model	A (A1)	B	C	J	K	L	M	ØD	ØE	ØF	ØG	H
HW100A	200	246	278	291	73	87	101	45	45	100	100	24
	7.87	9.69	10.94	11.47	2.87	3.43	3.96	1.77	1.77	3.94	3.94	0.94
R125LCR-9A	259	321	365	390	29	120	130	65	65	130	130	19
	10.20	12.64	14.37	15.35	1.14	4.72	5.12	2.56	2.56	5.12	5.12	0.75
HX130 LCR	259	321	365	390	29	122	132	65	65	130	130	19
	10.20	12.64	14.37	15.35	1.14	4.80	5.20	2.56	2.56	5.12	5.12	0.75
HX130A LCR	259	321	365	390	102.7	122	109	65	65	130	130	19
	10.20	12.64	14.37	15.35	4.04	4.80	4.29	2.56	2.56	5.12	5.12	0.75
R140LC-9, R140LC-9S, R140W-9, R140W-9S, R145CR-9, HX140LT3 (-#0132), HX145CRT3 (-#0246)	259	324	368	390	68	110	108	65	65	130	130	19
	10.20	12.76	14.49	15.35	2.68	4.33	4.25	2.56	2.56	5.12	5.12	0.75
HX140 L, HX140 LC, HW140, HX145 LCR, HW145	259	321	365	390	68	111	109	65	65	130	130	19
	10.20	12.64	14.37	15.35	2.68	4.37	4.29	2.56	2.56	5.12	5.12	0.75
HX140A L (-#0685), HW140A, HX145A LCR (-#0837), HW150A CR, HW155A	259	321	365	390	68	112	110	65	65	130	130	19
	10.20	12.64	14.37	15.35	2.68	4.41	4.33	2.56	2.56	5.12	5.12	0.75
HX140LT3 (#0133-), HX140A L (#0686-), HX145LCRT3 (#0247-), HX145A LCR (#0838-)	260	316	360	408	0	119	102	65	65	140	130	21
	10.24	12.44	14.17	16.06	0.00	4.69	4.02	2.56	2.56	5.51	5.12	0.83
HX140A L (4.10m Boom), HX145A LCR (4.10m Boom)	259	321	365	390	68	112	110	65	65	130	130	19
	10.20	12.64	14.37	15.35	2.68	4.41	4.33	2.56	2.56	5.12	5.12	0.75
R160LC-9, R160LC-9S, R160W- 9A, R170W-9, R170W-9S, R180LC-9, R180LC-9S, R190W-9	307	371	421	410	37	110	120	70	70	140	140	25
	12.09	14.61	16.57	16.14	1.46	4.33	4.72	2.76	2.76	5.51	5.51	0.98
HX160 L, HW160, HX180 L, HW180	307	369	419	410	37	110	120	70	70	140	140	25
	12.09	14.53	16.50	16.14	1.46	4.33	4.72	2.76	2.76	5.51	5.51	0.98
HX160A L, HW160A, HW170A CR, HX180A L	307	369	419	410	37	112	122	70	70	140	140	25
	12.09	14.53	16.50	16.14	1.46	4.41	4.80	2.76	2.76	5.51	5.51	0.98

2. Mounting Lug and Bucket (3/5)

Unit : mm
inch

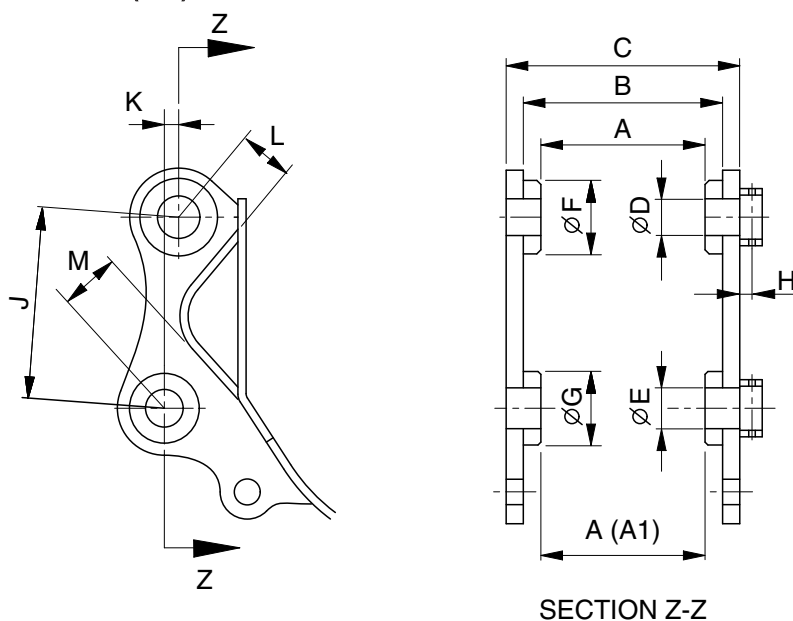
Model	A (A1)	B	C	J	K	L	M	ØD	ØE	ØF	ØG	H
R210LC-9, R210NLC-9, R210W-9, R210W-9S, R220LC-9A, R220LC-9S, R220LC-9SH, R235LCR-9, HX210A L, HX210A NL, HX210/220S (-#4560), HX210/220HD, HW210, HW210A, HX220 L, HX220 NL, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX235 LCR, HX235LCRT3 (-#0108), HX235A LCR (-#0442)	330	392	442	460	0	120	113	80	80	150	150	25
	12.99	15.43	17.40	18.11	0.00	4.72	4.45	3.15	3.15	5.91	5.91	0.98
HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-), HX235LCRT3 (#0109-), HX235A LCR (#0443-)	330	386	436	464	0	108	123	80	80	165	140	21
	12.99	15.20	17.17	18.27	0.00	4.25	4.84	3.15	3.15	6.50	5.51	0.83
Long Reach R210LC-9, R220LC-9A, R220LC-9S, R220LC-9SH, R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, HX210/220S (-#4560), HX210/220HD, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX300L, HX300LT3, HX300A L, HX300S L	259	321	365	390	68	112	108	65	65	125	125	19
	10.20	12.64	14.37	15.35	2.68	4.41	4.25	2.56	2.56	4.92	4.92	0.75
Long Reach HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-)	260	316	360	408	0	119	102	65	65	140	130	21
	10.24	12.44	14.17	16.06	0.00	4.69	4.02	2.56	2.56	5.51	5.12	0.83
HX220RB	330	392	442	464	32	103	120	80	80	150	150	25
	12.99	15.43	17.40	18.27	1.26	4.07	4.73	3.15	3.15	5.91	5.91	0.98

2. Mounting Lug and Bucket (4/5)

Unit : mm
inch

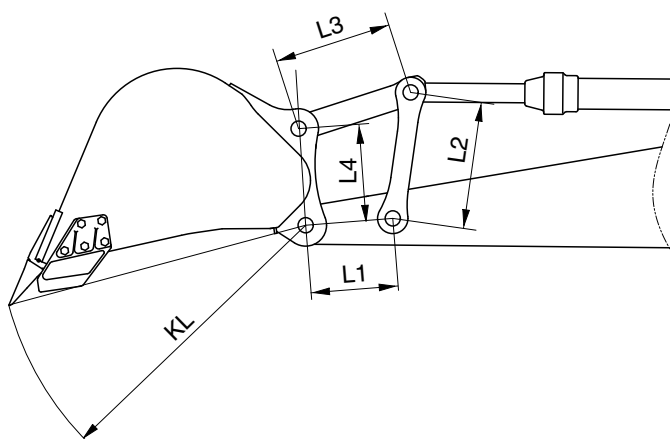
Model	A (A1)	B	C	J	K	L	M	ØD	ØE	ØF	ØG	H
R250LC-9, R260LC-9A, R260LC-9S, HX260 L, HX260LT3, HX260A L	399	461	525	510	37	129	122	90	90	170	170	25
	15.71	18.15	20.67	20.08	1.46	5.08	4.80	3.54	3.54	6.69	6.69	0.98
R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, HX300 L, HX300LT3 (-#0180), HX300A L (-#1618), HX300S L (-#1896)	399	461	525	510	37	129	122	90	90	170	170	25
	15.71	18.15	20.67	20.08	1.46	5.08	4.80	3.54	3.54	6.69	6.69	0.98
HX300LT3 (#0181-), HX300A L (#1619-), HX300S L (#1897-)	394	448	512	512	0	119	135	90	90	180	160	21
	15.51	17.64	20.16	20.16	0.00	4.69	5.31	3.54	3.54	7.09	6.30	0.83
HX300RB	394	461	525	512	37	129	122	90	90	170	170	25
	15.51	18.15	20.67	20.16	1.46	5.08	4.80	3.54	3.54	6.69	6.69	0.98
R320LC-9, R330LC-9A, R330LC-9S, R330LC-9SH, R350LC-9, HX330 L, HX330A L, HX330S L, HX340S L, HX350LT3, HX350A L	430	504	568	550	57	134	125	100	100	180	180	30
	16.93	19.84	22.36	21.65	2.24	5.28	4.92	3.94	3.94	7.09	7.09	1.18
HX355ALCR	394	456	512	512	65	115	128	90	90	183	163	21
	15.51	17.95	20.16	20.16	2.56	4.53	5.02	3.54	3.54	7.20	6.42	0.83
Next Generation HX360L, HX400L	420	480	540	557	151.6	131.2	150	100	100	200	180	21
	16.54	18.90	21.26	21.93	5.97	5.17	5.91	3.94	3.94	7.87	7.09	0.83
R380LC-9, R380LC-9SH, R380LC-9A, HX380 L, HX380A L, HX400LT3	430	492	568	550	47	163	128	100	100	180	180	30
	16.93	19.37	22.36	21.65	1.85	6.42	5.04	3.94	3.94	7.09	7.09	1.18
R430LC-9, R430LC-9SH, HX430 L	430	492	568	550	47	163	128	100	100	180	180	30
	16.93	19.37	22.36	21.65	1.85	6.42	5.04	3.94	3.94	7.09	7.09	1.18
R480LC-9, R480LC-9A, R480LC-9S (-#1075)	430	482	572	577	83	171	188	100	100	208	180	35
	16.93	18.98	22.52	22.72	3.27	6.73	7.40	3.94	3.94	8.19	7.09	1.38

2. Mounting Lug and Bucket (5/5)

Unit : mm
inch

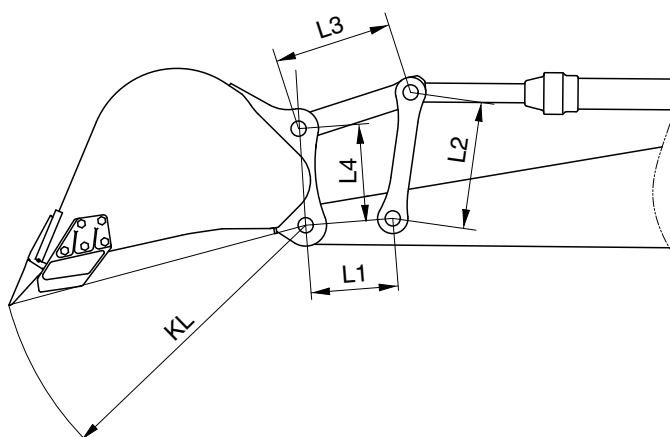
Model	A (A1)	B	C	J	K	L	M	ØD	ØE	ØF	ØG	H
R480LC-9S (#1076-), R520LC-9, R520LC-9A, R520LC-9S, HX480 L, HX480A L (-#0005), HX480S L, HX520 L, HX520A L (-#0024), HX520S L	430	496	572	577	83	171	188	120	120	208	180	35
	16.93	19.53	22.52	22.72	3.27	6.73	7.40	4.72	4.72	8.19	7.09	1.38
HX480A L (#0006-), HX500LT3, HX520LT3, HX520A L (#0025-)	470 (430)	518	594	577	83	171	188	120	120	218	180	35
	18.50 (16.93)	20.39	23.39	22.72	3.27	6.73	7.40	4.72	4.72	8.58	7.09	1.38
R800LC-9, R850LC-9	532	594	714	722	121	173	162	130	130	244	244	0
	20.94	23.39	28.11	28.43	4.76	6.81	6.38	5.12	5.12	9.61	9.61	0.00
Long Reach R800LC-9, R850LC-9	430	496	572	577	83	171	188	120	120	208	180	35
	16.93	19.53	22.52	22.72	3.27	6.73	7.40	4.72	4.72	8.19	7.09	1.38
HX800L, HX800AL	500	580	680	633	39	255	199	140.1	140.1	242	242	20
	19.69	22.83	26.77	24.91	1.54	10.04	7.83	5.52	5.52	9.53	9.53	0.79
HX900 L	562	624	744	722	121	212	162	140	140	294	254	0
	22.13	24.57	29.29	28.43	4.76	8.35	6.38	5.51	5.51	11.57	10.00	0.00
HX1000L, HX1000AL	620	700	820	750	47	282	245.9	150	150	270	270	20
	24.41	27.56	32.28	29.52	1.85	11.10	9.68	5.91	5.91	10.63	10.63	0.79
R1200-9, R1250-9	650	712	852	830	139	201	188	160	140	275	248	0
	25.59	28.03	33.54	32.68	5.47	7.91	7.40	6.30	5.51	10.83	9.76	0.00

3. Bucket Linkage (1/4)

Unit : mm
inch

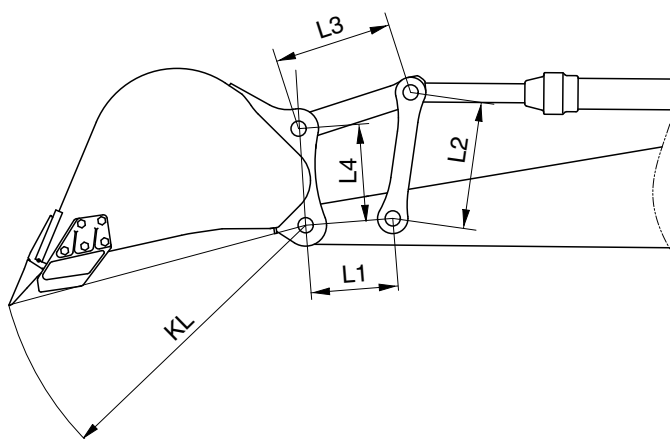
Model	KL	L1	L2	L3	L4
R16-9, R18-9, R18-9AK	570	120	200	180	140
	22.44	4.72	7.87	7.09	5.51
R17Z-9A	530	120	185	170	140
	20.87	4.72	7.28	6.69	5.51
HX17E	570	130	200	200	140
	22.44	5.12	7.87	7.87	5.51
HX17A Z, HX19A	535	120	200	180	140
	21.06	4.72	7.87	7.09	5.51
R25Z-9A, R25Z-9AK	616	170	250	245	180
	24.25	6.69	9.84	9.65	7.09
R27Z-9, R30Z-9AK	695	170	250	245	180
	27.36	6.69	9.84	9.65	7.09
HX25,30AZ	667	150	250	230	180
	26.26	5.91	9.84	9.06	7.09
R35Z-9, R35Z-9A	717	180	290	280	200
	28.23	7.09	11.42	11.02	7.87
HX35A Z, HX40A	711	200	305	300	200
	27.99	7.87	12.01	11.81	7.87
R55-9, R55W-9, R60CR-9, R60-9S, R60W-9S, HX60, HW60, HX65A, HW65AH	900	230	365	315	285
	35.43	9.06	14.37	12.40	11.22
HX48A Z, HX55A CR	865	200	340	309	230
	34.06	7.87	13.39	12.17	9.06
R80CR-9	1000	260	395	350	290
	39.37	10.24	15.55	13.78	11.42
HX85A, HX85A (#10001), HX90A (#10001-)	1030	260	395	350	290
	40.55	10.24	15.55	13.78	11.42
HW100A	1009	260	390	350	291.3
	39.72	10.24	15.35	13.78	11.47
R125LCR-9, R125LCR-9A	1095	340	475	430	390
	43.11	13.39	18.70	16.93	15.35

3. Bucket Linkage (2/4)

Unit : mm
inch

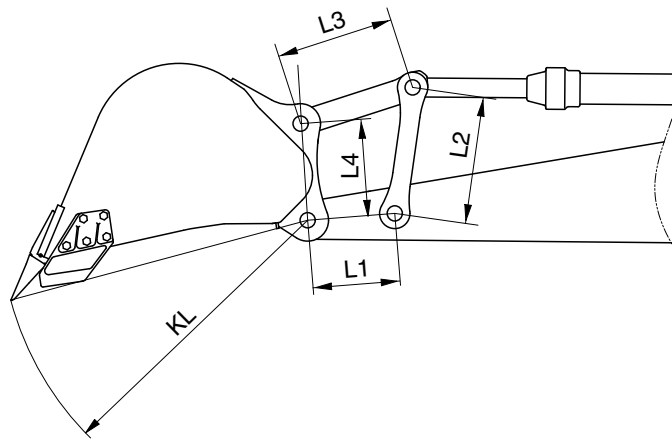
Model	KL	L1	L2	L3	L4
HX130 LCR	1190	340	475	430	390
	46.85	13.39	18.70	16.93	15.35
HX130A LCR	1167	340	475	430	390
	45.94	13.39	18.70	16.93	15.35
R140LC-9, R140LC-9S, R140W-9, R140W-9S, R145CR-9, HX140 L, HX140 LC, HX140LT3 (-#0132), HX140A L (-#0685), HW140, HW140A, HX145 LCR, HX145LCRT3 (-#0246), HX145A LCR (-#0837), HW145, HW150A CR, HW155A	1250	340	470	415	390
	49.21	13.39	18.50	16.34	15.35
HX140A L (4.10 m Boom), HX145A LCR (4.10 m Boom)	1250	340	470	415	390
	49.21	13.39	18.50	16.34	15.35
HX140LT3 (#0133-), HX140A L (#0686-), HX145LCRT3 (#0247-), HX145A LCR (#0838-)	1220	350	510	450	408
	48.03	13.78	20.08	17.72	16.06
2-Piece HX140A L (#0686-), HX145A LCR (#0838-)	1220	340	510	450	408
	48.03	13.39	20.08	17.72	16.06
R160LC-9, R160LC-9S, R160W-9A, R170W-9, R170W-9S, R180LC-9, R180LC-9S, R190W-9	1360	370	575	530	410
	53.54	14.57	22.64	20.87	16.14
HX160 L, HX160A L, HW160, HW160A, HW170A CR, HX180 L, HX180A L, HW180	1360	370	575	530	410
	53.54	14.57	22.64	20.87	16.14
R210LC-9, R210NLC-9, R210W-9, R210W-9S, R220LC-9A, R220LC-9S, R220LC-9SH, R235LCR-9, HX210A L, HX210A NL, HX210/220S (-#4560), HX210/220HD, HW210, HW210A, HX220 L, HX220 NL, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX235 LCR, HX235LCRT3 (-#0108), HX235A LCR (-#0442)	1464	420	600	570	460
	57.64	16.54	23.62	22.44	18.11
HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-), HX235LCRT3 (#0109-), HX235A LCR (#0443-)	1465	450	608	585	464
	57.68	17.72	23.94	23.03	18.27
Long Reach R210LC-9, R220LC-9A, R220LC-9S, R220LC-9SH, R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, HX210/220S (-#4560), HX210/220HD, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX300 L	1250	350	505	480	390
	49.21	13.78	19.88	18.90	15.35

3. Bucket Linkage (3/4)

Unit : mm
inch

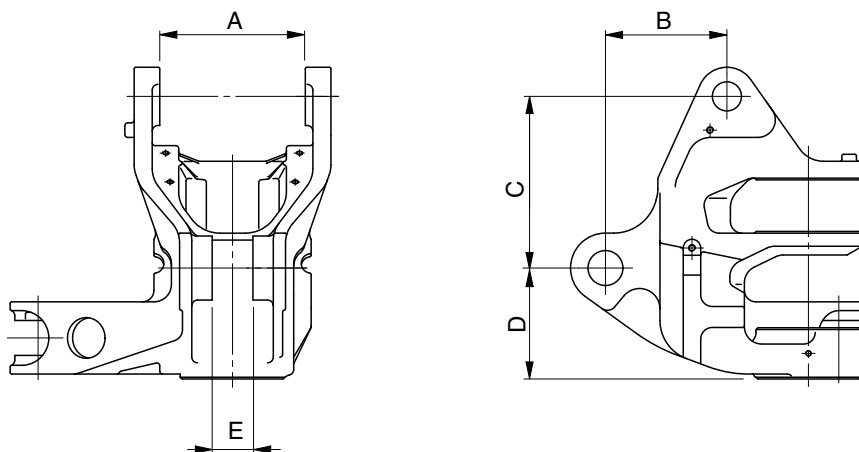
Model	KL	L1	L2	L3	L4
Long Reach HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-)	1220	350	510	450	408
	48.03	13.78	20.08	17.72	16.06
HX220RB	1464	420	600	570	464
	57.64	16.54	23.62	22.44	18.27
R250LC-9, R260LC-9A, R260LC-9S, HX260 L, HX260A L, HX260LT3	1617	460	670	620	510
	63.66	18.11	26.38	24.41	20.08
R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, HX300 L, HX300LT3 (-#0180), HX300A L (-#1618), HX300S L (-#1896)	1617	460	670	620	510
	63.66	18.11	26.38	24.41	20.08
HX300LT3 (#0181-), HX300A L (#1619-), HX300S L (#1897-)	1617	475	661	600	512
	63.66	18.70	26.02	23.62	20.16
HX300RB	1617	460	670	620	512
	63.66	18.11	26.38	24.41	20.16
R320LC-9, R330LC-9A, R330LC-9S, R330LC-9SH, R350LC-9, HX330 L, HX330A L, HX330S L, HX340S L, HX350LT3, HX350A L	1659	490	730	665	550
	65.31	19.29	28.74	26.18	21.65
HX355ALCR	1617	475	661	600	512
	63.64	18.70	26.02	23.62	20.16
Next Generation HX360L, HX400L	1652	475	730	650	557
	65.04	18.70	28.74	25.59	21.93
R380LC-9, R380LC-9A, R380LC-9SH, HX380 L, HX380A L, HX400LT3	1700	490	740	700	550
	66.93	19.29	29.13	27.56	21.65
R430LC-9, R430LC-9SH, HX430 L	1700	490	740	700	550
	66.93	19.29	29.13	27.56	21.65
Short R480LC-9, R480LC-9A, R480LC-9S (-#1075), R520LC-9, R520LC-9A, R520LC-9S (-#1071)	1850	532	770	710	577
	72.83	20.94	30.31	27.95	22.72
R480LC-9, R480LC-9A, R480LC-9S (-#1075), R520LC-9, R520LC-9A, R520LC-9S (-#1071)	1850	500	770	710	577
	72.83	19.69	30.31	27.95	22.72

3. Bucket Linkage (4/4)

Unit : mm
inch

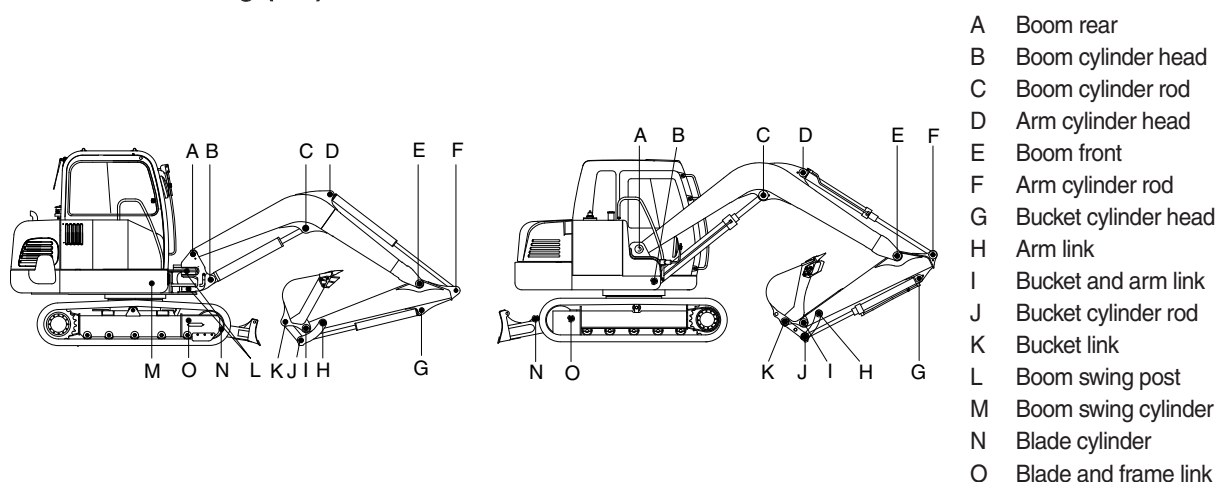
Model	KL	L1	L2	L3	L4
Long Reach R480LC-9, R480LC-9A, R480LC-9S (-#1075), R520LC-9, R520LC-9A, R520LC-9S (-#1071)	1850 72.83	489 19.25	770 30.31	710 27.95	577 22.72
Short R480LC-9S (#1076-), R520LC-9S (#1072-), HX480 L, HX480A L, HX480S L, HX520 L, HX520A L, HX520S L	1950 76.77	500 19.69	770 30.31	710 27.95	577 22.72
R480LC-9S (#1076-), R520LC-9S (#1072-), HX480 L, HX480A L, HX480S L, HX520 L, HX520A L, HX520S L	1950 76.77	510 20.08	770 30.31	710 27.95	577 22.72
Long Reach R480LC-9S (#1076-), R520LC-9S (#1072-), HX480 L, HX480A L, HX480S L, HX520 L, HX520A L, HX520S L	1950 76.77	490 19.29	770 30.31	710 27.95	577 22.72
HX500LT3, HX520LT3	1950 76.77	510 20.08	770 30.31	710 27.95	577 22.72
R800LC-9, R850LC-9	2330 91.73	609 23.98	940 37.01	810 31.89	722 28.43
Long Reach R800LC-9, R850LC-9	1850 72.83	500 19.69	770 30.31	710 27.95	577 22.72
HX800L, HX800AL	2146 84.49	590 23.23	850 33.46	800 31.50	633 24.91
HX900 L	2330 91.73	609 23.98	940 37.01	810 31.89	722 28.43
HX1000L, HX1000AL	2424 95.44	640 25.20	930 36.61	810 31.89	750 29.53
R1200-9, R1250-9	2600 102.36	680 26.77	1010 39.76	800 31.50	830 32.68

4. Boom Swing (1/1)

Unit : mm
inch

Model	A	B	C	D	E
R16-9	172	130	225	141	42
	6.77	5.12	8.86	5.55	1.65
HX17E	160	125	200	179	47
	6.30	4.92	7.87	7.05	1.85
R18-9AK, HX17A Z, HX19A	172	130	225	143	42
	6.77	5.12	8.86	5.63	1.65
HX25,30AZ, HX27AZ	176	175	268	177	52
	6.93	6.89	10.55	6.97	2.05
R27Z-9	178	175	268	177	52
	7.01	6.89	10.55	6.97	2.05
R35Z-9, HX35A Z	220	175	250	195	57
	8.66	6.89	9.84	7.68	2.24
HX40A, HX48A Z, HX55A CR	242	200	300	251	72
	9.53	7.87	11.81	9.88	2.83
R55-9, R55W-9, R60-9S, R60W-9S, HX60A, HX65A, HW65AH	250	235	335	158	72
	9.84	9.25	13.19	6.22	2.83
R60CR-9	250	230	335	158	72
	9.84	9.06	13.19	6.22	2.83
HW65A+	239	235	335	158	73
	9.41	9.25	13.19	6.22	2.87
R80CR-9	357	275	395	158	92
	14.06	10.83	15.55	6.22	3.62
HX85A, HX85A (#10001-), HX90A (#10001-)	357	275	395	223	92
	14.06	10.83	15.55	8.78	3.62
HW100A	352	267	345	273	93
	13.86	10.51	13.58	10.75	3.66

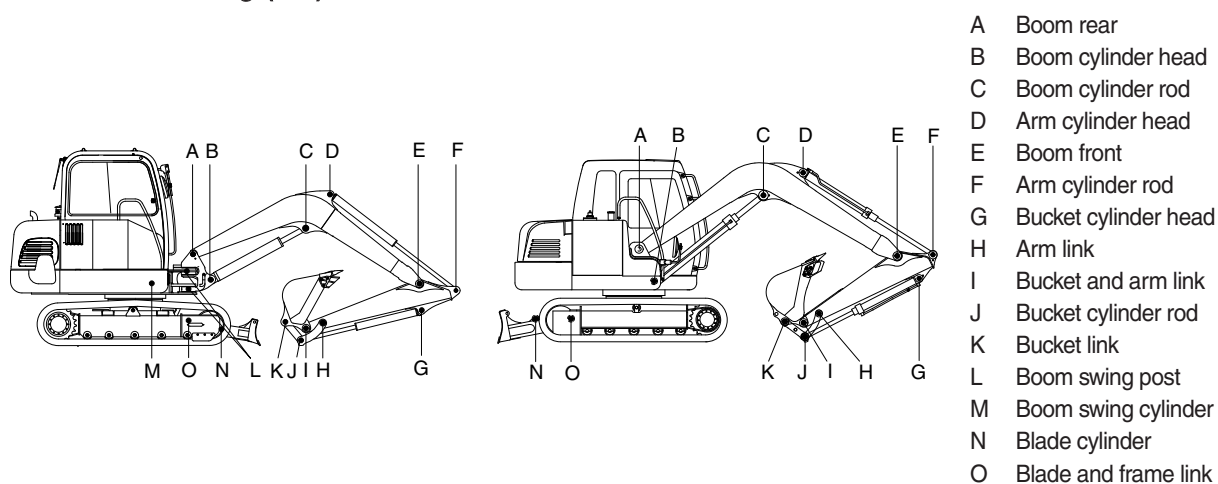
5. Pin and Bushing (1/8)



Unit : mm (inch)

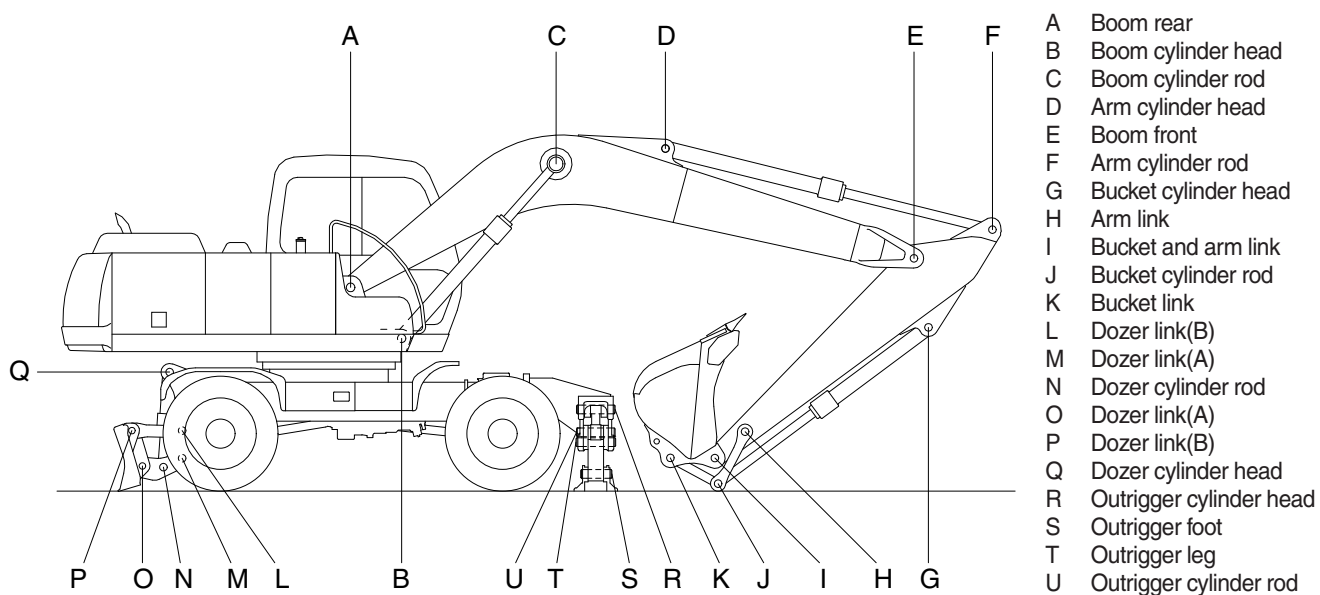
Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
R16-9, R17Z-9A, R18-9, R18-9AK	B, C, D, E, F, G, H, I, J, K, M, N, O	30 (1.18)	29 (1.14)	28.5 (1.12)	30.5 (1.20)	31 (1.22)
	A	35 (1.38)	34 (1.34)	33.5 (1.32)	35.5 (1.40)	36 (1.42)
	L	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
HX17A Z, HX19A	B, C, D, F, G, I, H, J, K	30 (1.18)	29 (1.14)	28.5 (1.12)	30.5 (1.20)	31 (1.22)
	A, E, L	35 (1.38)	34 (1.34)	33.5 (1.32)	35.5 (1.40)	36 (1.42)
R25Z-9AK, R27Z-9AK	D, E, F, G, H, I, J, K, M, N, O	35 (1.38)	34 (1.34)	33.5 (1.32)	35.5 (1.40)	36 (1.42)
	A, B, C	40 (1.57)	39 (1.54)	38.5 (1.52)	40.5 (1.59)	41 (1.61)
	L	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
HX25,30AZ	D, F, G, H, I, J, K	35 (1.38)	34 (1.34)	33.5 (1.32)	35.5 (1.40)	36 (1.42)
	A, B, C, E	40 (1.57)	39 (1.54)	38.5 (1.52)	40.5 (1.59)	41 (1.61)
R35Z-9, R35Z-9A	G, H, I, J, K, O	40 (1.57)	39 (1.54)	38.5 (1.52)	40.5 (1.59)	41 (1.61)
	B, C, D, E, F, M, N	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	A	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
	L	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
HX35A Z	G, H, I, J, K	40 (1.57)	39 (1.54)	38.5 (1.52)	40.5 (1.59)	41 (1.61)
	B, C, D, E, F	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	A	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
HX40A	G, H, I, J, K	40 (1.57)	39 (1.54)	38.5 (1.52)	40.5 (1.59)	41 (1.61)
	D, E, F	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	A, B, C	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
R55-9, R55W-9, R60CR-9, R60-9S, R60W-9S, HX60, HW60, HX65A, HW65AH	G, H, I, J, K, O	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	D, E, F, M	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
	A, N	55 (2.17)	54 (2.13)	53.5 (2.11)	55.5 (2.19)	56 (2.20)
	B, C	60 (2.36)	59 (2.32)	58.5 (2.30)	60.5 (2.38)	61 (2.40)
	L	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)

5. Pin and Bushing (2/8)



Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
HX48A Z, HX55A CR	D, F, G, H, I, J, K	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	A, B, C, E	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
R80CR-9, HX85A, HX85A (#10001), HX90A (#10001-)	G	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
	H, I, J, K, O	55 (2.17)	54 (2.13)	53.5 (2.11)	55.5 (2.19)	56 (2.20)
	A, B, C, D, E, F, M, N	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	L	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
R125LCR-9A, HX130 LCR, HX130A LCR	A, B, C, E, N, O	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	D, F, G, H, I, J, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)

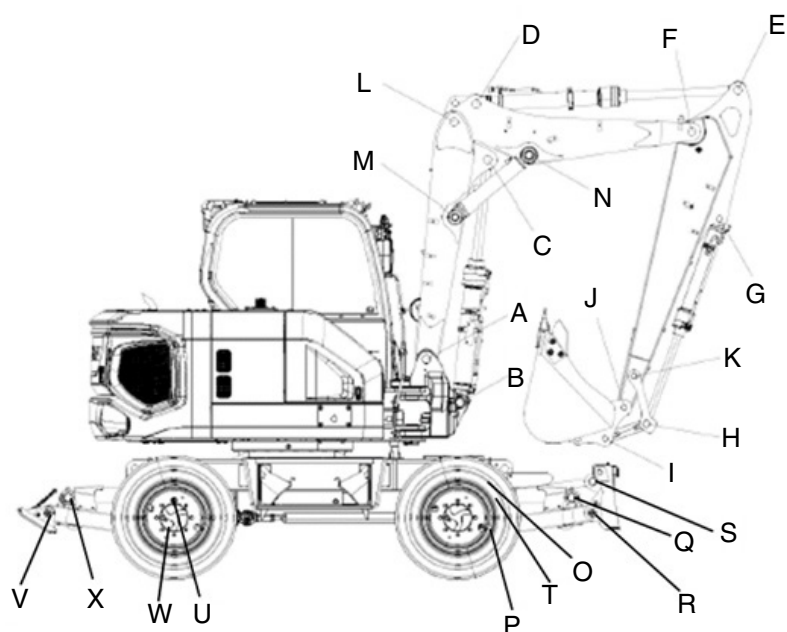
5. Pin and Bushing (3/8)



Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
R140W-9, R140W-9S, HW140, HW155A	L, M, O, P	55 (2.17)	54 (2.13)	53.5 (2.11)	55.5 (2.19)	56 (2.20)
	H, I, K, N, Q	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	A, B, C, D, E, F, G, J, R, S, T, U	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
HW140A, HW150A CR	H, I, K	65 (2.56)	54 (2.13)	53.5 (2.11)	55.5 (2.19)	56 (2.20)
	B, C, D, E, F, G, J	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
R170W-9, R170W-9S, HW160, HW180	L, M, O, P	60 (2.36)	59 (2.32)	58.5 (2.30)	60.5 (2.38)	61 (2.40)
	B, D, F, G, H, I, J, K, N, Q, S, T	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	C, E, R, U	75 (2.95)	74 (2.91)	73.5 (2.89)	75.5 (2.97)	76 (2.99)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
R190W-9	B, D, F, G, I, J, K	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	C, E	75 (2.95)	74 (2.91)	73.5 (2.89)	75.5 (2.97)	76 (2.99)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
HW160A, HW170A CR	B, C, D, F, G, I, J, K	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	E	75 (2.95)	74 (2.91)	73.5 (2.89)	75.5 (2.97)	76 (2.99)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
R200W-9, R200W-9S, HW210, HW210A	H, L, M, N, O, P, Q	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	B, C, D, F, G, I, J, K, R, S, T, U	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	A, E	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)

5. Pin and Bushing (4/8)

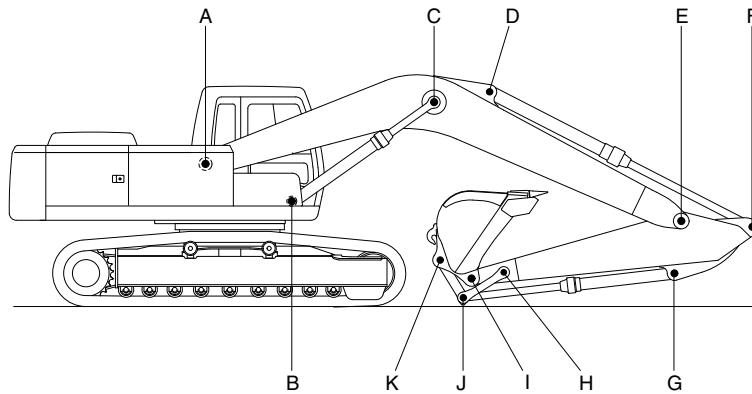


- A Boom rear
- B Boom cylinder head
- C Boom cylinder rod
- D Arm cylinder head
- E Arm cylinder rod
- F Boom front
- G Bucket cylinder head
- H Bucket cylinder rod
- I Bucket and arm link
- J Bucket link
- K Arm link
- L Arti Lower/Upper Joint
- M Arti cylinder head
- N Arti cylinder rod
- O Dozer link (B)
- P Dozer link (A)
- Q Dozer cylinder rod
- R Dozer link (A)
- S Dozer link (B)
- T Dozer cylinder head
- U Outrigger cylinder head
- V Outrigger foot
- W Outrigger link
- X Outrigger cylinder rod

Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
HW100A	I, J, K	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	G, M	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
	H	55 (2.17)	54 (2.13)	53.5 (2.11)	55.5 (2.19)	56 (2.20)
	F, N, O, P, R, S, V, W	60 (2.36)	59 (2.32)	58.5 (2.30)	60.5 (2.38)	61 (2.40)
	A, B, C, D, E, L, Q, T, U, X	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)

5. Pin and Bushing (5/8)

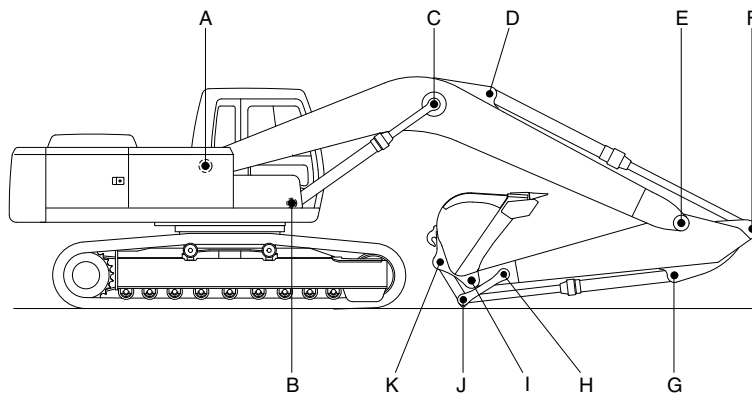


- A Boom rear
- B Boom cylinder head
- C Boom cylinder rod
- D Arm cylinder head
- E Boom front
- F Arm cylinder rod
- G Bucket cylinder head
- H Arm link
- I Bucket and arm link
- J Bucket cylinder rod
- K Bucket link

Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
R140LC-9, R140LC-9S, R145CR-9S, HX140 L, HX140 LC, HX140LT3 (-#0132), HX140A L (-#0685), HX145 LCR, HX145LCRT3 (-#0246), HX145A LCR (-#0837)	H, I, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	A, B, C, D, E, F, G, J	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
HX140A L (4.10 m Boom), HX145A LCR (4.10 m Boom)	H, I, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	A, B, C, D, E, F, G, J	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
HX140LT3 (#0133-), HX140A L (#0686-), HX145LCRT3 (#0247-), HX145A LCR (#0838-)	A, B	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	C, D, E, F	71 (2.80)	70 (2.76)	69.5 (2.74)	71.5 (2.81)	72 (2.83)
	G, H, I, J, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	A, B, C, D, E, F	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
2-Piece HX140A L (#0686-), HX145A LCR (#0838-)	G, H, I, J, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
R160LC-9, R160LC-9S, R180LC-9, R180LC-9S	B, D, F, G, H, I, J, K	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	C, E	75 (2.95)	74 (2.91)	73.5 (2.89)	75.5 (2.97)	76 (2.99)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
HX160 L, HX160A L HX180 L, HX180A L	B, D, F, G, H, I, J, K	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	C, E	75 (2.95)	74 (2.91)	73.5 (2.89)	75.5 (2.97)	76 (2.99)
	A	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
R210LC-9, R210NLC-9, R220LC-9S, R220LC-9SH, R235LCR-9, HX210A L, HX210A NL, HX210/220S (-#4560), HX210/220HD, HX220 L, HX220 NL, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977), HX235 LCR, HX235LCRT3 (-#0108), HX235A LCR (-#0442)	H	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	B, C, D, F, G, I, J, K	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	A, E	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-)	A, E	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, C, D, F, G, I, J, K	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	H	71 (2.80)	70 (2.76)	69.5 (2.74)	71.5 (2.81)	72 (2.83)

5. Pin and Bushing (6/8)

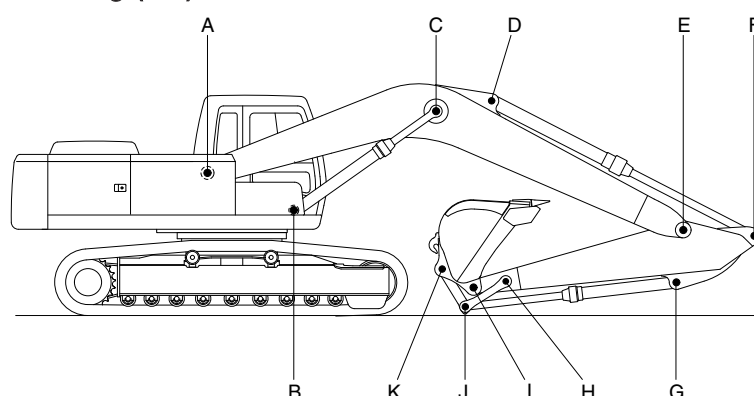


- A Boom rear
- B Boom cylinder head
- C Boom cylinder rod
- D Arm cylinder head
- E Boom front
- F Arm cylinder rod
- G Bucket cylinder head
- H Arm link
- I Bucket and arm link
- J Bucket cylinder rod
- K Bucket link

Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
HX235LCRT3 (#0109-), HX235A LCR (#0443-)	A, C, E	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, D, F, G, I, J, K,	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	H	71 (2.80)	70 (2.76)	69.5 (2.74)	71.5 (2.81)	72 (2.83)
Long Reach R210LC-9, R220LC-9S, R220LC- 9SH, HX210/220S (-#4560), HX210/220HD, HX220LT3 (-#0234), HX220A L (-#1079), HX225S L (-#1977)	H, I, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	G, J	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	B, C, D, E, F	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	A	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
Long Reach HX210/220S (#4561-), HX220LT3 (#0235-), HX220A L (#1080-), HX225S L (#1978-)	A, E	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, C, D, F	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	G, H, I, J, K	65 (2.56)	64 (2.52)	66.5 (2.62)	65.5 (2.58)	66 (2.60)
R250LC-9, R260LC-9A, R260LC-9S, HX260 L, HX260LT3, HX260A L	H, J	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	B, D, F, G, I, K	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	A, C, E	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
R290LC-9, R300LC-9S, R300LC- 9SH, R300LC-9A, HX300 L, HX300LT3 (-#0180), HX300A L (-#1618), HX300S L (-#1896)	H, J	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	B, D, F, G, I, K	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	C, E	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	A	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
HX300A L (#1619-), HX300LT3 (#0181-), HX300S L (#1897-)	A	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	E	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	B, C, D, F, G, I, J, K	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	H	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
Long Reach R290LC-9, R300LC-9S, R300LC- 9SH, HX300 L	H, I, K	65 (2.56)	64 (2.52)	63.5 (2.50)	65.5 (2.58)	66 (2.60)
	J, G	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	B, D, E, F	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	C	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	A	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)

5. Pin and Bushing (7/8)

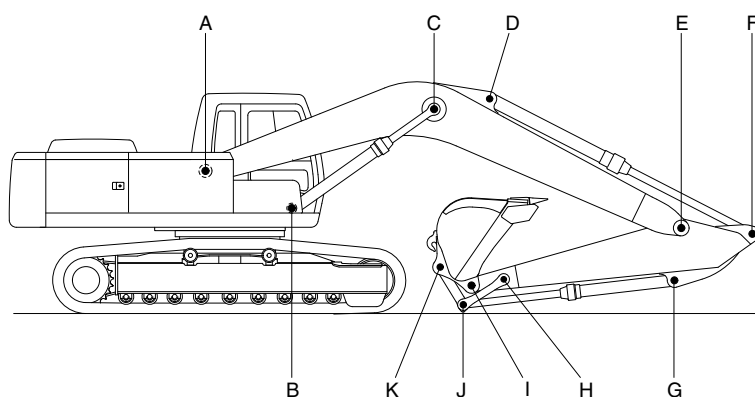


- A Boom rear
- B Boom cylinder head
- C Boom cylinder rod
- D Arm cylinder head
- E Boom front
- F Arm cylinder rod
- G Bucket cylinder head
- H Arm link
- I Bucket and arm link
- J Bucket cylinder rod
- K Bucket link

Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
R320LC-9, R330LC-9A, R330LC-9S, R330LC-9SH, R350LC-9, HX330 L, HX330A L, HX330S L, HX340S L, HX350LT3, HX350A L	G, H, J	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, C, D, E, F, I, K	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	A	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
HX355ALCR	G	80 (3.15)	79 (3.11)	78.5 (3.09)	80.5 (3.17)	81 (3.19)
	C, H, I, J, K	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, D, E, F,	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	A	105 (4.13)	105 (4.13)	104 (4.09)	103.5 (4.07)	105.5 (4.15)
Next Generation HX360L, HX400L	H	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	C, D, F, G, I, J, K	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	B	105 (4.13)	104 (4.09)	103.5 (4.07)	105.5 (4.15)	106 (4.17)
	A, E	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
R380LC-9, R380LC-9A, R380LC- 9SH, HX380 L, HX380A L, HX400LT3	G, H, J	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, I, K	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	C, D, E, F	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	A	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
R430LC-9, R430LC-9A, R430LC- 9SH, HX430 L	G, H, J	90 (3.54)	89 (3.50)	88.5 (3.48)	90.5 (3.56)	91 (3.58)
	B, I, K	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	C, D, E, F	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	A	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
R480LC-9, R480LC-9A, R480LC-9S (-#1075)	G, H, I, J, K	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	B, C, D, F	120 (4.72)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	A, E	125 (4.92)	124 (4.88)	123.5 (4.86)	125.5 (4.94)	126 (4.96)
R480LC-9S (#1076-), R520LC-9, R520LC-9A, R520LC-9S, HX480 L, HX480A L, HX480S L, HX500LT3, HX520 L, HX520A L, HX520S L, HX520LT3	H	100 (3.94)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	G, J	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	B, C, D, F, I, K	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
	A, E	125 (4.92)	124 (4.88)	123.5 (4.86)	125.5 (4.94)	126 (4.96)

5. Pin and Bushing (8/8)



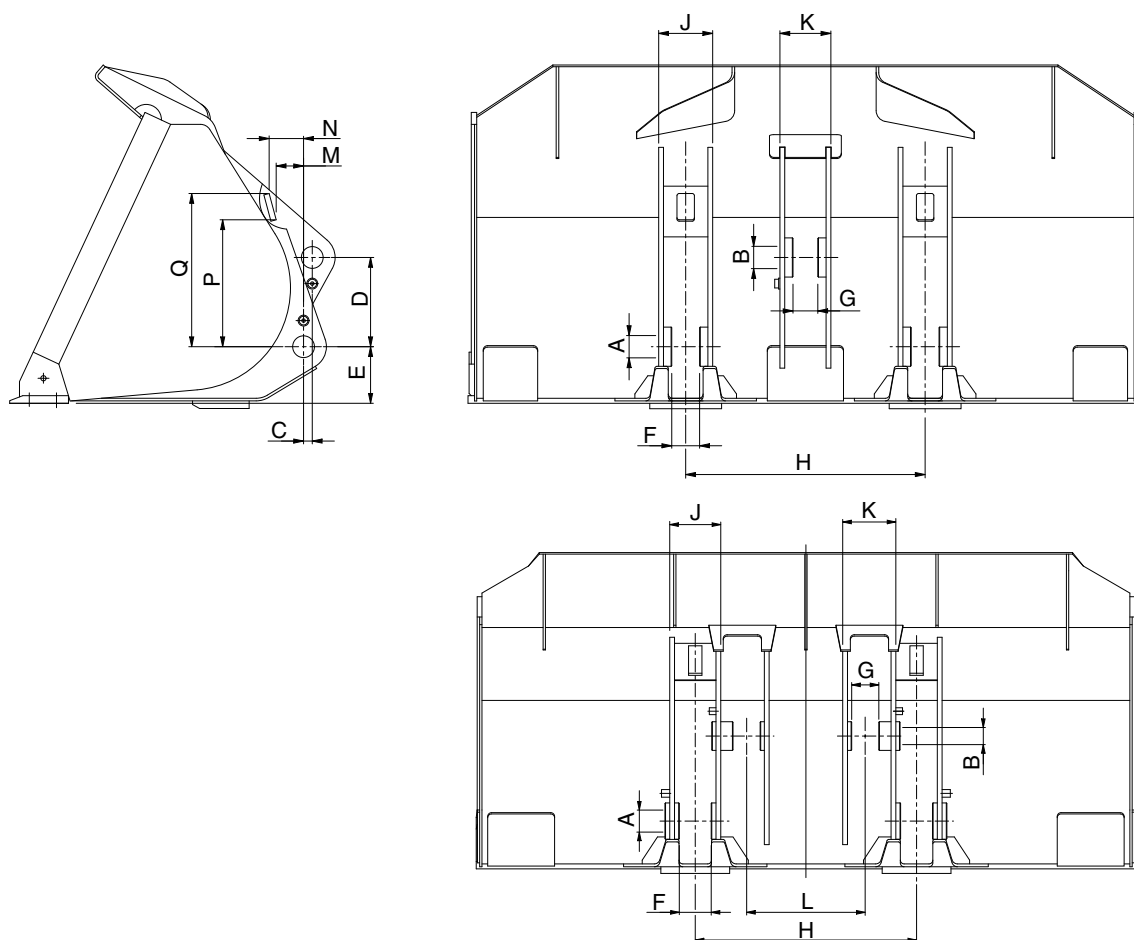
- A Boom rear
- B Boom cylinder head
- C Boom cylinder rod
- D Arm cylinder head
- E Boom front
- F Arm cylinder rod
- G Bucket cylinder head
- H Arm link
- I Bucket and arm link
- J Bucket cylinder rod
- K Bucket link

Unit : mm (inch)

Model	Measuring point (Pin and bushing)	Normal value	Pin		Bushing	
			Recomm. service limit	Limit of use	Recomm. service limit	Limit of use
R800LC-9, R850LC-9	G, H, J	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
	B, C, I, K	130 (5.12)	129 (5.08)	128.5 (5.06)	130.5 (5.14)	131 (5.16)
	D, F	140 (5.51)	139 (5.47)	138.5 (5.45)	140.5 (5.53)	141 (5.55)
	A, E	145 (5.71)	144 (5.67)	143.5 (5.65)	145.5 (5.73)	146 (5.75)
Long Reach R800LC-9, R850LC-9	H	110 (4.33)	99 (3.90)	98.5 (3.88)	100.5 (3.96)	101 (3.98)
	G, J	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	I, K	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
	B, C	130 (5.12)	129 (5.08)	128.5 (5.06)	130.5 (5.14)	131 (5.16)
	D, F	140 (5.51)	139 (5.47)	138.5 (5.45)	140.5 (5.53)	141 (5.55)
	A, E	145 (5.71)	144 (5.67)	143.5 (5.65)	145.5 (5.73)	146 (5.75)
HX800L, HX800AL	H	110 (4.33)	109 (4.29)	108.5 (4.27)	110.5 (4.35)	111 (4.37)
	B, C, D, F, G	130 (5.12)	129 (5.08)	128.5 (5.06)	130.5 (5.14)	131 (5.16)
	A, E, I, J, K	140 (5.51)	139 (5.47)	138.5 (5.45)	140.5 (5.53)	141 (5.55)
HX900 L	H	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
	B, C, G	130 (5.12)	129 (5.08)	128.5 (5.06)	130.5 (5.14)	131 (5.16)
	D, F, I, K	140 (5.51)	139 (5.47)	138.5 (5.45)	140.5 (5.53)	141 (5.55)
	E, J	150 (5.91)	149 (5.87)	148.5 (5.85)	150.5 (5.93)	151 (5.94)
	A	155 (6.10)	154 (6.06)	153.5 (6.04)	155.5 (6.12)	156 (6.14)
HX1000L, HX1000AL	H	120 (4.72)	119 (4.69)	118.5 (4.67)	120.5 (4.74)	121 (4.76)
	B, C, D, E, F, G, I, J, K	150 (5.91)	149 (5.87)	148.5 (5.85)	150.5 (5.93)	151 (5.94)
	A	160 (6.30)	159 (6.26)	158.5 (6.24)	160.5 (6.32)	161 (6.34)
R1200-9, R1250-9	H	130 (5.12)	129 (5.08)	128.5 (5.06)	130.5 (5.14)	131 (5.16)
	K	140 (5.51)	139 (5.47)	138.5 (5.45)	140.5 (5.53)	141 (5.55)
	G	150 (5.91)	149 (5.87)	148.5 (5.85)	150.5 (5.93)	151 (5.94)
	A, B, C, I, J	160 (6.30)	159 (6.26)	158.5 (6.24)	160.5 (6.32)	161 (6.34)
	D, E, F	170 (6.69)	169 (6.65)	168.5 (6.63)	170.5 (6.71)	171 (6.73)

ATTACHMENT SPECIFICATION

1. General Bucket Dimensions, Z-Bar Type (1/8)

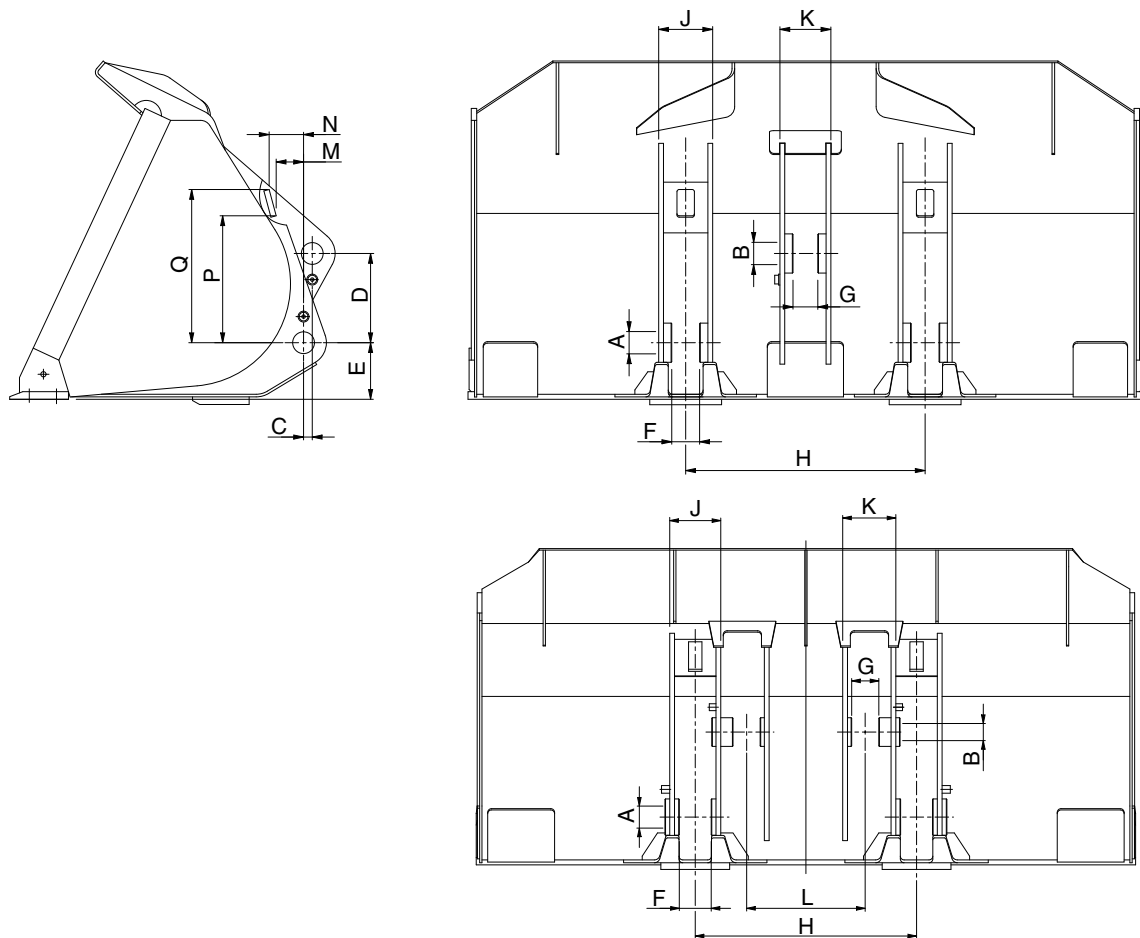


Unit : mm
inch

Model	Dimensions														
	ØA	ØB	C	D	E	F	G	H	J	K	L	Roll-back stop			
												M	N	P	Q
HL730-9	Ø65	Ø65	30	355	200	78	76	900	152	144	-	64	72	337	447
HL730-9A	Ø2.56	Ø2.56	1.18	13.98	7.87	3.07	2.99	35.43	5.98	5.67	-	2.52	2.83	13.27	17.60
HL740-9	Ø70	Ø70	40	330	210	90	78	913	174	162	-	75	93	353	477
HL740-9A	Ø2.76	Ø2.76	1.57	12.99	8.27	3.54	3.07	35.94	6.85	6.38	-	2.95	3.66	13.90	18.78
HL757-9	Ø80	Ø80	40	345	225	112	102	1024	202	192	-	97	116	451	549
HL757-9A	Ø3.15	Ø3.15	1.57	13.58	8.86	4.41	4.02	40.31	7.95	7.56	-	3.82	4.57	17.76	21.61
HL760-9	Ø90	Ø90	40	370	235	122	110	1058	230	218	-	98	112	510	609
HL760-9A	Ø3.54	Ø3.54	1.57	14.57	9.25	4.80	4.33	41.65	9.06	8.58	-	3.86	4.41	20.08	23.98
HL770-9	Ø100	Ø100	40	410	260	128	114	1100	248	234	-	128	161	593	714
HL770-9A	Ø3.94	Ø3.94	1.57	16.14	10.24	5.04	4.49	43.31	9.76	9.21	-	5.04	6.34	23.35	28.11
HL780-9	Ø110	Ø80	50	445	250	167	142	1158	267	278	621	137	180	774	918
HL780-9A	Ø4.33	Ø3.15	1.97	17.52	9.84	6.57	5.59	45.59	10.51	10.94	24.45	5.39	7.09	30.47	36.14
SL735	Ø65	Ø65	30	355	205	78	76	900	150	142	-	70	80	340	450
	Ø2.56	Ø2.56	1.18	13.98	8.07	3.07	2.99	35.43	5.91	5.59	-	2.76	3.15	13.39	17.72
SL765	Ø90	Ø90	40	405	240	122	110	1058	232	220	-	98	112	510	609
	Ø3.54	Ø3.54	1.57	15.94	9.45	4.80	4.33	41.65	9.13	8.66	-	3.86	4.41	20.08	23.98

ATTACHMENT SPECIFICATION

1. General Bucket Dimensions, Z-Bar Type (2/8)

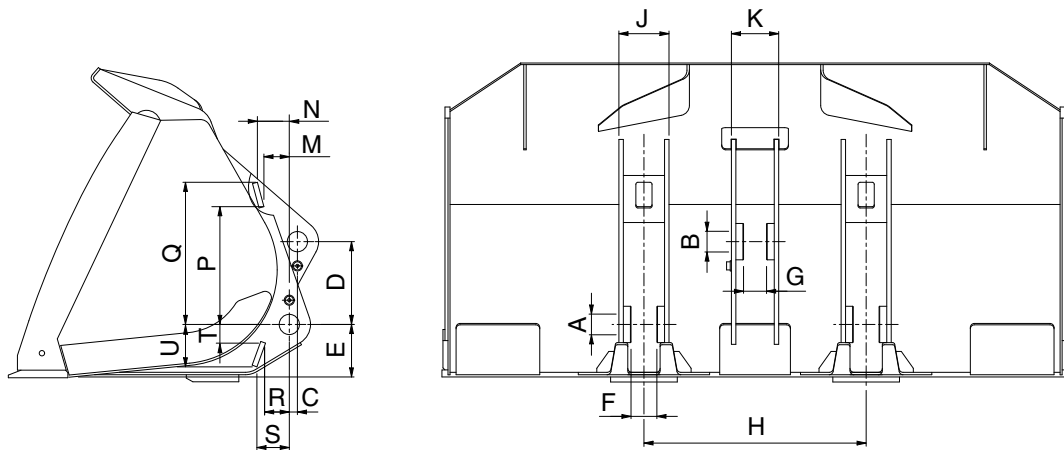


Unit : mm
inch

Model	Dimensions												Roll-back stop			
	ØA	ØB	C	D	E	F	G	H	J	K	L		M	N	P	Q
HL730-9S	Ø65	Ø65	30	355	200	78	76	900	152	144	-		64	72	337	447
	Ø2.56	Ø2.56	1.18	13.98	7.87	3.07	2.99	35.43	5.98	5.67	-		2.52	2.83	13.27	17.60
HL740-9S	Ø70	Ø70	40	330	210	90	78	913	172	160	-		75	93	353	477
	Ø2.76	Ø2.76	1.57	12.99	8.27	3.54	3.07	35.94	6.77	6.30	-		2.95	3.66	13.90	18.78
HL757-9S	Ø80	Ø80	40	345	225	112	102	1024	200	190	-		78	93	431	530
	Ø3.15	Ø3.15	1.57	13.58	8.86	4.41	4.02	40.31	7.87	7.48	-		3.07	3.66	16.97	20.87
HL760-9S	Ø90	Ø90	40	370	235	122	110	1058	230	218	-		98	112	510	609
	Ø3.54	Ø3.54	1.57	14.57	9.25	4.80	4.33	41.65	9.06	8.58	-		3.86	4.41	20.08	23.98
HL770-9S HL775-9S	Ø100	Ø100	40	410	260	128	114	1100	248	234	-		128	161	593	714
	Ø3.94	Ø3.94	1.57	16.14	10.24	5.04	4.49	43.31	9.76	9.21	-		5.04	6.34	23.35	28.11
HL780-9S	Ø110	Ø80	50	445	250	167	142	1158	267	278	621		137	180	774	918
	Ø4.33	Ø3.15	1.97	17.52	9.84	6.57	5.59	45.59	10.51	10.94	24.45		5.39	7.09	30.47	36.14

ATTACHMENT SPECIFICATION

1. General Bucket Dimensions, Z-Bar Type (3/8)

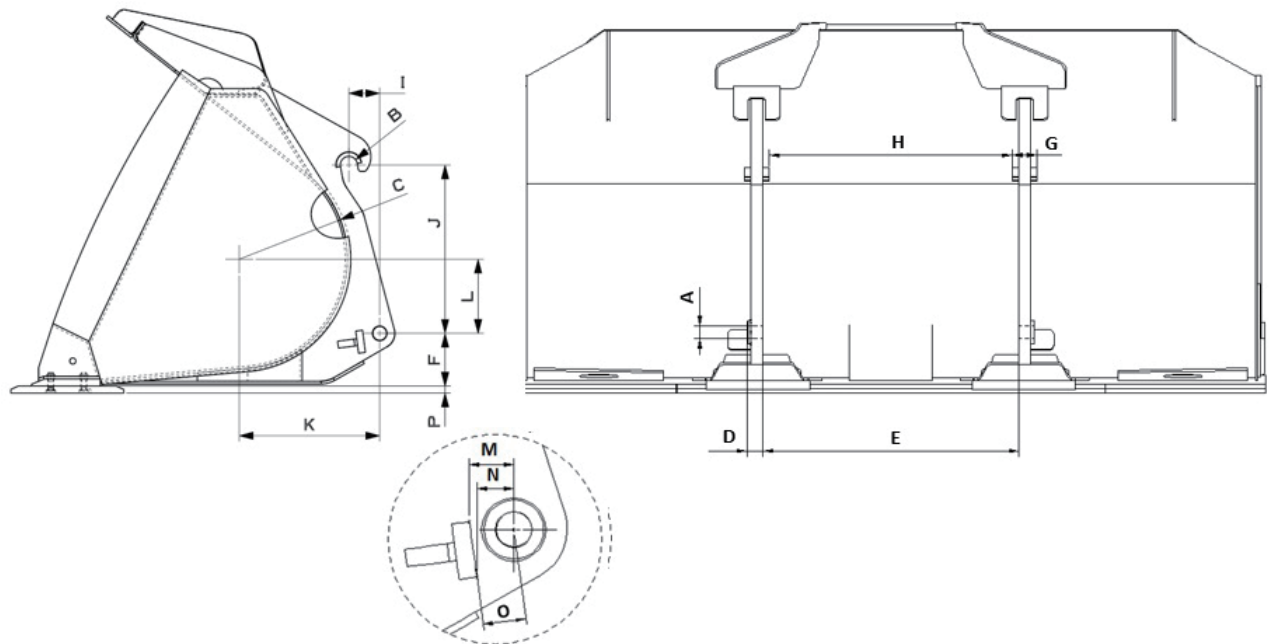


Unit : mm
inch

Model	Dimensions																	
	ØA	ØB	C	D	E	F	G	H	J	K	Roll-back stop				Dump stop			
											M	N	P	Q	R	S	T	U
HL930A	Ø65	Ø65	30	355	200	78	76	900	152	144	64	72	337	447	-	-	-	-
	Ø2.56	Ø2.56	1.18	13.98	7.87	3.07	2.99	35.43	5.98	5.67	2.52	2.83	13.27	17.60	-	-	-	-
HL935 HL940	Ø70	Ø70	40	330	210	90	78	913	174	162	75	93	353	477	118	140	68	165
HL940A HL940 T3	Ø2.76	Ø2.76	1.57	12.99	8.27	3.54	3.07	35.94	6.85	6.38	2.95	3.66	13.90	18.78	4.65	5.51	2.68	6.50
HL955	Ø80	Ø80	40	370	235	112	102	1024	202	192	97	116	451	549	142	166	91	189
HL955A HL955 T3	Ø3.15	Ø3.15	1.57	14.57	9.25	4.41	4.02	40.31	7.95	7.56	3.82	4.57	17.76	21.61	5.59	6.54	3.58	7.44
HL960	Ø90	Ø90	50	400	250	131	110	1059	239	218	118	133	506	605	158	184	82	179
HL960A HL960 T3 HL965 HL965A	Ø3.54	Ø3.54	1.97	15.75	9.84	5.16	4.33	41.69	9.41	8.58	4.65	5.24	19.92	23.82	6.22	7.24	3.23	7.05
HL970	Ø100	Ø100	50	425	275	128	114	1100	248	234	128	161	593	714	161	195	100	220
HL970A HL970 T3 HL975 HL975A	Ø3.94	Ø3.94	1.97	16.73	10.83	5.04	4.49	43.31	9.76	9.21	5.04	6.34	23.35	28.11	6.34	7.68	3.94	8.66
HL980	Ø110	Ø110	50	475	275	167	128	1158	287	254	159	199	747	865	151	175	98	220
HL980A HL980 T3	Ø4.33	Ø4.33	1.97	18.70	10.83	6.57	5.04	45.59	11.30	10.00	6.26	7.83	29.41	34.06	5.94	6.89	3.86	8.66
HL985A	Ø110	Ø110	50	475	275	167	128	1157	287	254	151	200	723	865	152	175	98	220
	Ø4.33	Ø4.33	1.97	18.70	10.83	6.57	5.04	45.55	11.30	10.00	5.94	7.87	28.46	34.06	5.97	6.89	3.86	8.66

ATTACHMENT SPECIFICATION

1. Quick Coupler Bucket Dimensions, ISO Type (4/8)

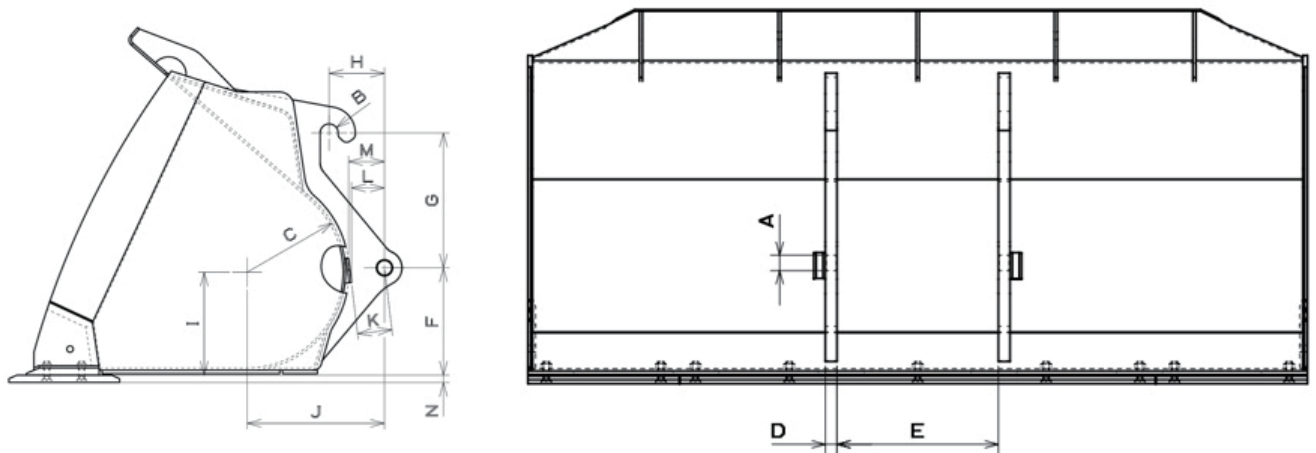


Unit : mm
inch

Model	Dimensions															
	ØA	ØB	C	D	E	F	G	H	I	J	K	L	M	N	O	P
HL930A	Ø50	Ø62	321	38	962	155	85	915	112	605	392	402	62	52	60	25
	Ø1.97	Ø2.44	12.64	1.50	37.87	6.10	3.35	36.02	4.41	23.82	15.43	15.83	2.44	2.05	2.36	0.98
HL935 HL940 HL940A	Ø50	Ø62	323	38	962	165	85	915	112	605	395	410	62	52	60	25
	Ø1.97	Ø2.44	12.72	1.50	37.87	6.50	3.35	36.02	4.41	23.82	15.55	16.14	2.44	2.05	2.36	0.98
HL955 HL955A HL955 T3	Ø50	Ø62	393	45	955	190	85	915	112	605	510	481	62	52	60	25
	Ø1.97	Ø2.44	15.47	1.77	37.60	7.48	3.35	36.02	4.41	23.82	20.08	18.94	2.44	2.05	2.36	0.98
HL960 HL960A HL960 T3 HL965 HL965A	Ø50	Ø62	420	45	955	205	85	915	112	605	530	527	62	52	60	35
	Ø1.97	Ø2.44	16.54	1.77	37.60	8.07	3.35	36.02	4.41	23.82	20.87	20.75	2.44	2.05	2.36	1.38
HL970 HL970A HL970 T3 HL975 HL975A	Ø75	Ø83	462	75	1000	225	110	950	189	756	575	570	98	77	91	35
	Ø2.95	Ø3.27	18.19	2.95	39.37	8.86	4.33	37.40	7.44	29.76	22.64	22.44	3.86	3.03	3.58	1.38

ATTACHMENT SPECIFICATION

1. Quick Coupler Bucket Dimensions, HCE Type (5/8)

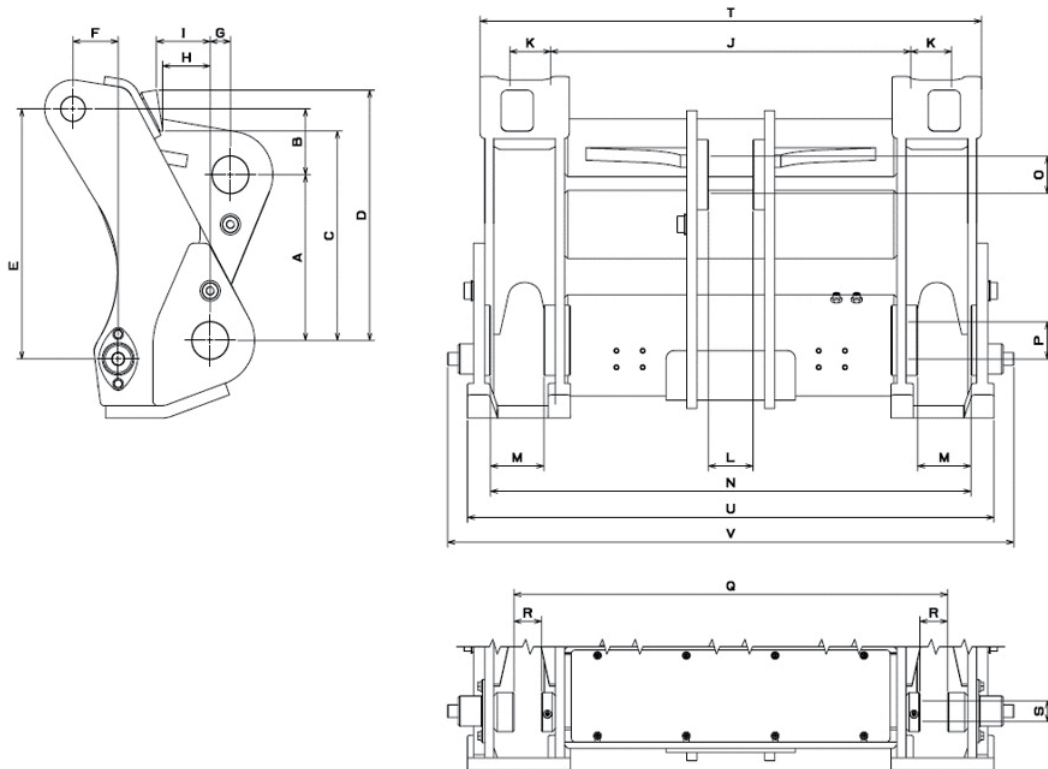


Unit : mm
inch

Model	Dimensions													
	ØA	ØB	C	D	E	F	G	H	I	J	K	L	M	M
HL730TM-9 HL730TM-9A HL930A TM	Ø50 Ø1.97	Ø62 Ø2.44	336 13.23	38 1.50	528 20.79	370 14.57	465 18.31	190 7.48	355 13.98	470 18.50	118 4.65	113 4.45	123 4.84	25 0.98
HL740TM-9 HL740TM-9A HL940TM HL940A TM	Ø50 Ø1.97	Ø62 Ø2.44	338 13.31	38 1.50	528 20.79	370 14.57	465 18.31	190 7.48	355 13.98	472 18.58	118 4.65	113 4.45	123 4.84	25 0.98
HL757TM-9 HL757TM-9A HL955TM HL955A TM	Ø50 Ø1.97	Ø62 Ø2.44	343 13.50	38 1.50	692 27.24	400 15.75	440 17.32	180 7.09	360 14.17	482 18.98	122 4.78	122 4.78	122 4.78	25 0.98

ATTACHMENT SPECIFICATION

1. Quick Coupler Dimensions, Z-Bar ISO Type (6/8)

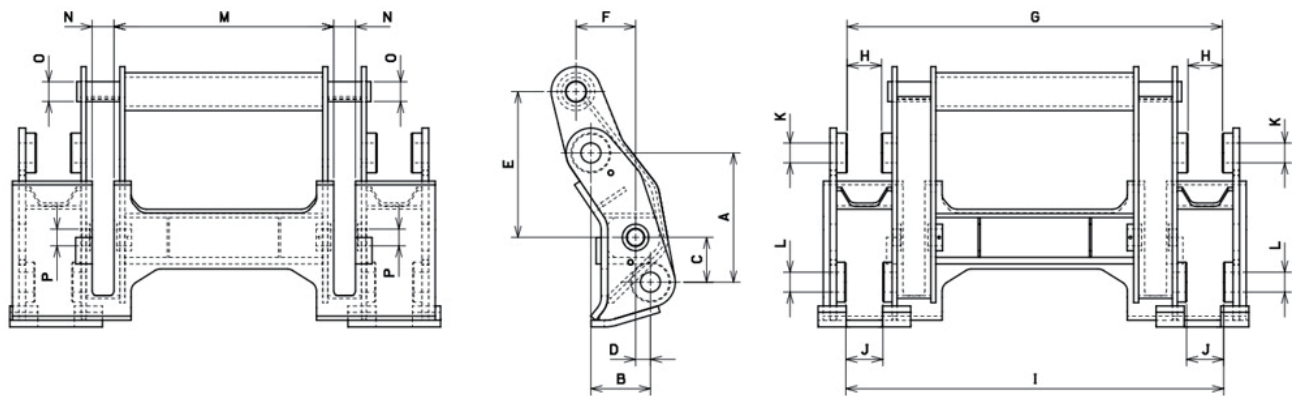


Unit : mm
inch

Model	Dimensions																					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	ØO	ØP	Q	R	ØS	T	U	V
HL930A	355	205	347	447	605	112	30	65	72	894	105	76	78	978	Ø65	Ø65	1068	67	Ø50	1186	1186	1344
	13.98	8.07	13.66	17.60	23.82	4.41	1.18	2.56	2.83	35.20	4.13	2.99	3.07	38.50	Ø2.56	Ø2.56	42.05	2.64	Ø1.97	46.69	46.69	52.91
HL940 HL940A	330	230	378	477	605	112	40	79	93	902	98	78	90	1003	Ø70	Ø70	1061	60	Ø50	1187	1192	1345
	12.99	9.06	14.88	18.78	23.82	4.41	1.57	3.11	3.66	35.51	3.86	3.07	3.54	39.49	Ø2.76	Ø2.76	41.77	2.36	Ø1.97	46.73	46.93	52.95
HL955 HL955A HL955 T3	370	190	451	549	605	112	40	97	116	888	110	102	112	1136	Ø80	Ø80	1072	69	Ø50	1198	1248	1356
	14.57	7.48	17.76	21.61	23.82	4.41	1.57	3.82	4.57	34.96	4.33	4.02	4.41	44.72	Ø3.15	Ø3.15	42.20	2.72	Ø1.97	47.17	49.13	53.39
HL960 HL960A HL960 T3 HL965 HL965A	401	159	507	605	605	112	50	118	133	892	101	110	132	1190	Ø90	Ø90	1074	68	Ø50	1242	1304	1402
	15.79	6.26	19.96	23.82	23.82	4.41	1.97	4.65	5.24	35.12	3.98	4.33	5.20	46.85	Ø3.54	Ø3.54	42.28	2.68	Ø1.97	48.90	51.34	55.20
HL970 HL970A HL970 T3 HL975 HL975A	425	281	593	714	756	189	50	128	161	941	119	114	129	1229	Ø100	Ø100	1175	101	Ø75	1281	1329	1433
	16.73	11.06	23.35	28.11	29.76	7.44	1.97	5.04	6.34	37.05	4.69	4.49	5.08	48.39	Ø3.94	Ø3.94	46.26	3.98	Ø2.95	50.43	52.32	56.42

ATTACHMENT SPECIFICATION

1. Quick Coupler Dimensions, Tool Master HCE Type (7/8)

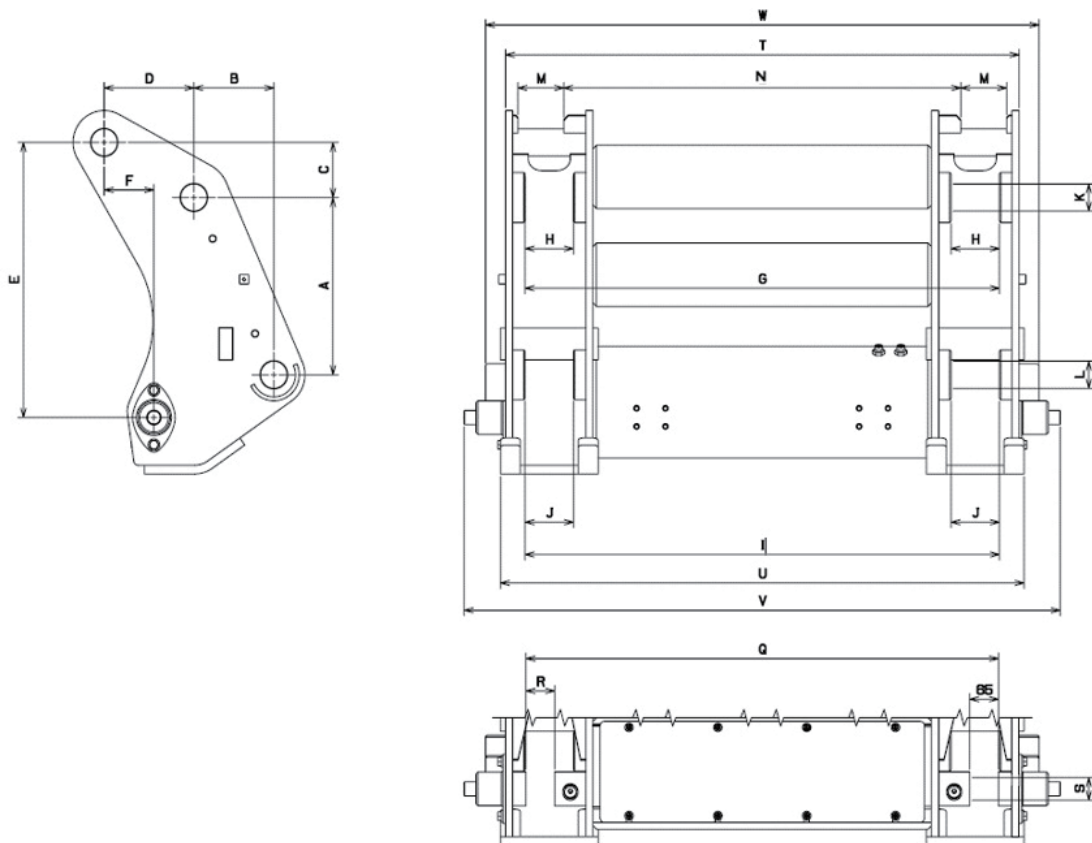


Unit : mm
inch

Model	Dimensions															
	A	B	C	D	E	F	G	H	I	J	ØK	ØL	M	N	ØO	ØP
HL730TM-9 HL730TM-9A HL930A TM	430	0	116	15	502	22	987	87	987	87	Ø50	Ø50	514	51	Ø60	Ø50
	16.93	0.00	4.57	0.59	19.76	0.87	38.86	3.43	38.86	3.43	Ø1.97	Ø1.97	20.24	2.01	Ø2.36	Ø1.97
HL740TM-9 HL740TM-9A HL940TM HL940A TM	430	0	116	15	502	22	1068	109	1068	109	Ø60	Ø60	514	51	Ø60	Ø50
	16.93	0.00	4.57	0.59	19.76	0.87	42.05	4.29	42.05	4.29	Ø2.36	Ø2.36	20.24	2.01	Ø2.36	Ø1.97
HL757TM-9 HL757TM-9A HL955TM HL955A TM	390	180	135	45	440	180	1134	104	1142	112	Ø60	Ø60	664	66	Ø60	Ø50
	15.35	7.09	5.31	1.77	17.32	7.09	44.65	4.09	44.96	4.41	Ø2.36	Ø2.36	26.14	2.60	Ø2.36	Ø1.97

ATTACHMENT SPECIFICATION

1. Quick Coupler Dimensions, Tool Master ISO Type (8/8)



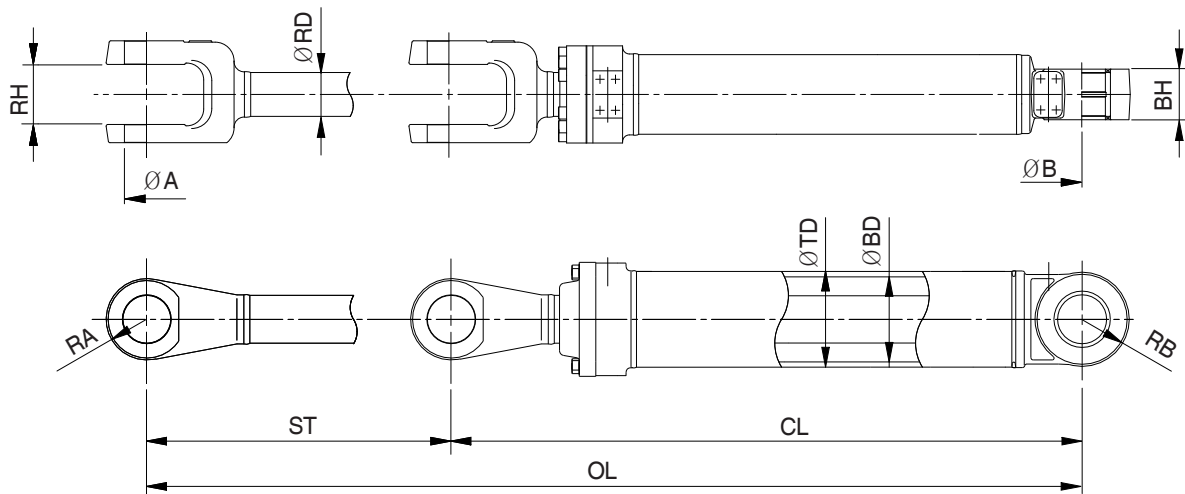
Unit : mm
inch

Model	Dimensions																				
	A	B	C	D	E	F	G	H	I	J	ØK	ØL	M	N	Q	R	ØS	T	U	V	W
HL930A TM	390	180	112	202	605	112	984	84	984	84	Ø50	Ø50	100	900	1064	76	Ø50	1156	1173	1340	1246
	15.35	7.09	4.41	7.95	23.82	4.41	38.74	3.31	38.74	3.31	Ø1.97	Ø1.97	3.94	35.43	41.89	2.99	Ø1.97	45.51	46.18	52.76	49.06
HL940TM HL940A TM	390	180	121	202	605	112	1068	109	1068	109	Ø60	Ø60	103	894	1064	65	Ø50	1156	1179	1340	1246
	15.35	7.09	4.76	7.95	23.82	4.41	42.05	4.29	42.05	4.29	Ø2.36	Ø2.36	4.06	35.20	41.89	2.56	Ø1.97	45.51	46.42	52.76	49.06
HL955TM HL955A TM	390	180	140	202	605	112	1134	104	1142	112	Ø60	Ø60	96	906	1098	83	Ø50	1236	1260	1420	1326
	15.35	7.09	5.51	7.95	23.82	4.41	44.65	4.09	44.96	4.41	Ø2.36	Ø2.36	3.78	35.67	43.23	3.27	Ø1.97	48.66	49.61	55.91	52.20

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.1 Boom Cylinder (1/3)



CYLINDER ST

Unit : mm

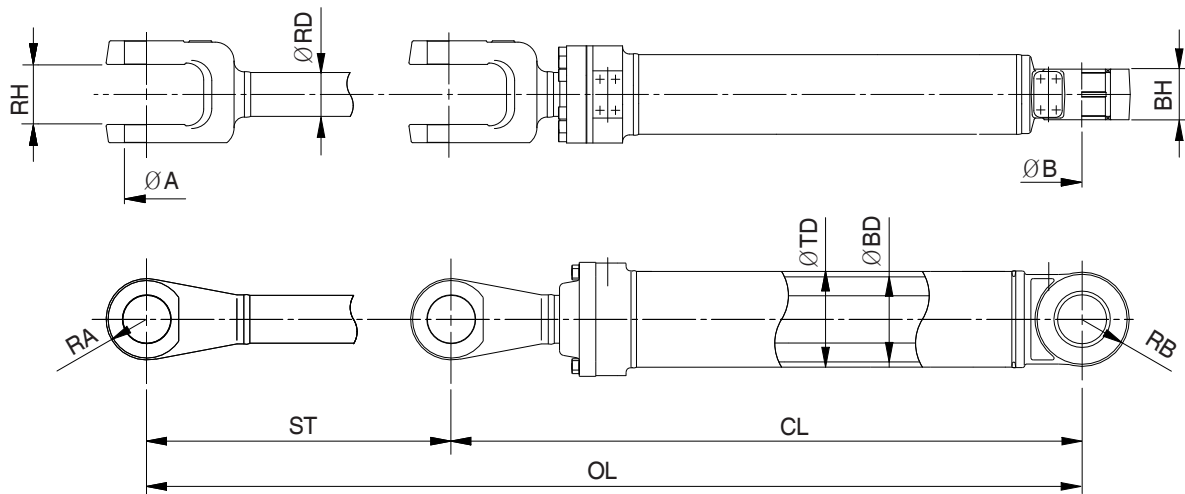
inch

Model	Weight	$\varnothing BD$	$\varnothing TD$	$\varnothing RD$	ST	CL	OL	$\varnothing A$	RA	RH	$\varnothing B$	RB	BH
HL730-9	74 kg	$\varnothing 100$	$\varnothing 116$	$\varnothing 65$	750	1190	1940	$\varnothing 65$	60	89	$\varnothing 70$	60	75
HL730-9A													
HL730TM-9	163 lb	$\varnothing 3.9$	$\varnothing 4.6$	$\varnothing 2.6$	29.5	46.9	76.4	$\varnothing 2.6$	2.4	3.5	$\varnothing 2.8$	2.4	3.0
HL730TM-9A													
HL740-9	84 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	738	1177	1915	$\varnothing 65$	60	89	$\varnothing 70$	62.5	75
HL740-9A													
HL740TM-9	185 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	29.1	46.3	75.4	$\varnothing 2.6$	2.4	3.5	$\varnothing 2.8$	2.5	3.0
HL740TM-9A													
HL757-9	99 kg	$\varnothing 120$	$\varnothing 140$	$\varnothing 70$	785	1240	2025	$\varnothing 75$	70	96	$\varnothing 75$	67.5	85
HL757-9A													
HL757TM-9	218 lb	$\varnothing 4.7$	$\varnothing 5.5$	$\varnothing 2.8$	30.9	48.8	79.7	$\varnothing 3.0$	2.8	3.8	$\varnothing 3.0$	2.7	3.3
HL757TM-9A													
HL760-9	147 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 80$	757	1300	2057	$\varnothing 95$	80	102	$\varnothing 95$	81	90
HL760-9A													
HL760TM-9	324 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.1$	29.8	51.2	81.0	$\varnothing 3.7$	3.1	4.0	$\varnothing 3.7$	3.2	3.5
HL760TM-9A													
HL770-9	217 kg	$\varnothing 160$	$\varnothing 189$	$\varnothing 95$	765	1325	2090	$\varnothing 100$	85	103	$\varnothing 100$	90	100
HL770-9A													
HL770TM-9	478 lb	$\varnothing 6.3$	$\varnothing 7.4$	$\varnothing 3.7$	30.1	52.2	82.3	$\varnothing 3.9$	3.3	4.1	$\varnothing 3.9$	3.5	3.9
HL770TM-9A													
HL780-9	285 kg	$\varnothing 180$	$\varnothing 213$	$\varnothing 105$	863	1484	2347	$\varnothing 120$	110	122	$\varnothing 120$	100	125
HL780-9A													
HL780TM-9	628 lb	$\varnothing 7.1$	$\varnothing 8.4$	$\varnothing 4.1$	34.0	58.4	92.4	$\varnothing 4.7$	4.3	4.8	$\varnothing 4.7$	3.9	4.9
HL780TM-9A													

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.1 Boom Cylinder (2/3)



CYLINDER ST

Unit : mm

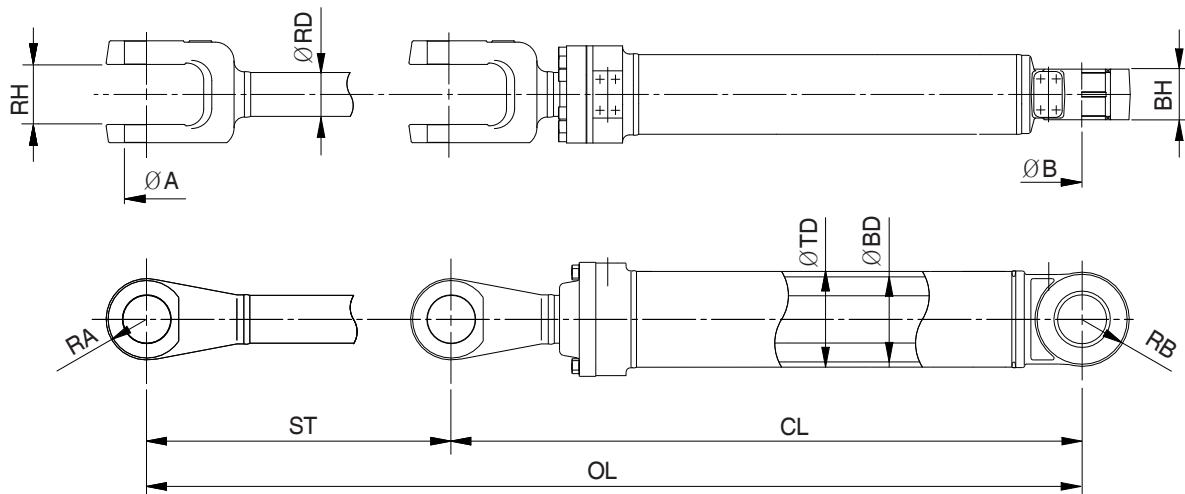
inch

Model	Weight	ØBD	ØTD	ØRD	ST	CL	OL	ØA	RA	RH	ØB	RB	BH
HL730-9S	73 kg	Ø105	Ø118	Ø65	772	1203	1975	Ø65	60	89	Ø70	60	75
	161 lb	Ø4.1	Ø4.6	Ø2.6	30.4	47.4	77.8	Ø2.6	2.4	3.5	Ø2.8	2.4	3.0
HL740-9S	93 kg	Ø120	Ø139	Ø70	738	1177	1915	Ø65	60	89	Ø70	62.5	75
	205 lb	Ø4.7	Ø5.5	Ø2.8	29.1	46.3	75.4	Ø2.6	2.4	3.5	Ø2.8	2.5	3.0
HL757-9S	113 kg	Ø140	Ø158	Ø75	750	1205	1955	Ø75	70	96	Ø75	67.5	85
	249 lb	Ø5.5	Ø6.2	Ø3.0	29.5	47.4	77.0	Ø3.0	2.8	3.8	Ø3.0	2.7	3.3
HL760-9S	160 kg	Ø160	Ø180	Ø90	757	1300	2057	Ø95	80	102	Ø95	81	90
	353 lb	Ø6.3	Ø7.1	Ø3.5	29.8	51.2	81.0	Ø3.7	3.1	4.0	Ø3.7	3.2	3.5
HL770-9S	198 kg	Ø180	Ø203	Ø100	765	1325	2090	Ø100	85	103	Ø100	100	100
	436 lb	Ø7.1	Ø8.0	Ø3.9	30.1	52.2	82.3	Ø3.9	3.3	4.1	Ø3.9	3.9	3.9
HL780-9S	277 kg	Ø200	Ø225	Ø110	863	1484	2347	Ø120	110	122	Ø120	112.5	125
	611 lb	Ø7.9	Ø8.9	Ø4.3	34.0	58.4	92.4	Ø4.7	4.3	4.8	Ø4.7	4.4	4.9

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.1 Boom Cylinder (3/3)



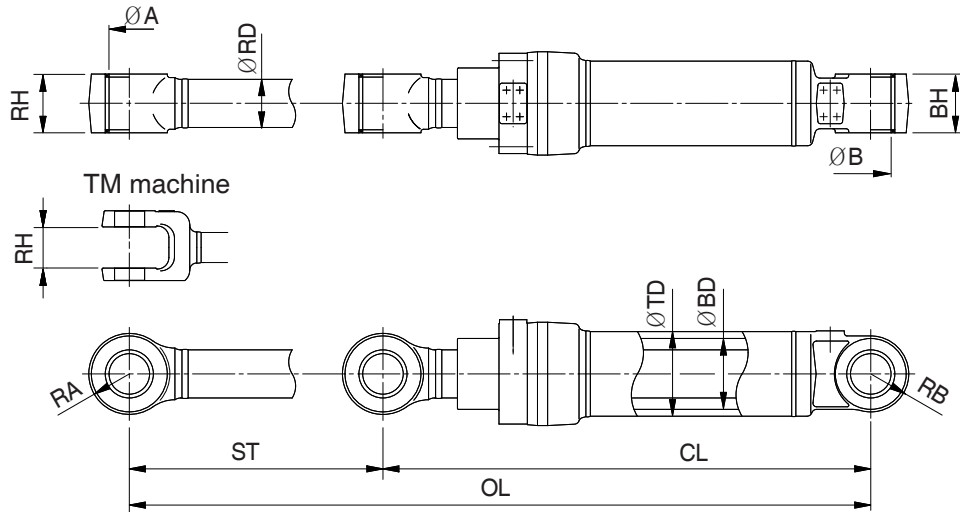
CYLINDER ST
Unit : mm
inch

Model	Weight	$\varnothing BD$	$\varnothing TD$	$\varnothing RD$	ST	CL	OL	$\varnothing A$	RA	RH	$\varnothing B$	RB	BH
HL930A	74 kg	$\varnothing 100$	$\varnothing 116$	$\varnothing 65$	750	1190	1940	$\varnothing 65$	60	89	$\varnothing 70$	60	75
HL930A TM	163 lb	$\varnothing 3.9$	$\varnothing 4.6$	$\varnothing 2.6$	29.5	46.9	76.4	$\varnothing 2.6$	2.4	3.5	$\varnothing 2.8$	2.4	3.0
HL940	84 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	738	1177	1915	$\varnothing 65$	60	89	$\varnothing 70$	62.5	75
HL940A HL940TM HL940A TM	185 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	29.1	46.3	75.4	$\varnothing 2.6$	2.4	3.5	$\varnothing 2.8$	2.5	3.0
HL955	110 kg	$\varnothing 125$	$\varnothing 146$	$\varnothing 70$	745	1200	1945	$\varnothing 75$	70	96	$\varnothing 75$	67.5	85
HL955A HL955 T3 HL955TM HL955A TM	243 lb	$\varnothing 4.9$	$\varnothing 5.7$	$\varnothing 2.8$	29.3	47.2	76.6	$\varnothing 3.0$	2.8	3.8	$\varnothing 3.0$	2.7	3.3
HL960	150 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 80$	765	1305	2070	$\varnothing 95$	80	102	$\varnothing 95$	81	90
HL960A HL960 T3	331 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.1$	30.1	51.4	81.5	$\varnothing 3.7$	3.1	4.0	$\varnothing 3.7$	3.2	3.5
HL965	155 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 80$	785	1310	2095	$\varnothing 95$	80	102	$\varnothing 95$	81	90
	342 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.1$	30.9	51.6	82.5	$\varnothing 3.7$	3.1	4.0	$\varnothing 3.7$	3.2	3.5
HL970	206 kg	$\varnothing 160$	$\varnothing 192$	$\varnothing 95$	780	1340	2120	$\varnothing 100$	85	103	$\varnothing 100$	90	100
	454 lb	$\varnothing 6.3$	$\varnothing 7.6$	$\varnothing 3.7$	30.7	52.8	83.5	$\varnothing 3.9$	3.3	4.1	$\varnothing 3.9$	3.5	3.9
HL970A	200 kg	$\varnothing 165$	$\varnothing 193$	$\varnothing 95$	780	1340	2120	$\varnothing 100$	85	103	$\varnothing 100$	90	100
HL970 T3	441 lb	$\varnothing 6.5$	$\varnothing 7.6$	$\varnothing 3.7$	30.7	52.8	83.5	$\varnothing 3.9$	3.3	4.1	$\varnothing 3.9$	3.5	3.9
HL975	231 kg	$\varnothing 170$	$\varnothing 196$	$\varnothing 100$	795	1395	2190	$\varnothing 100$	85	103	$\varnothing 100$	90	100
HL975A	509 lb	$\varnothing 6.7$	$\varnothing 7.7$	$\varnothing 3.9$	31.3	54.9	86.2	$\varnothing 3.9$	3.3	4.1	$\varnothing 3.9$	3.5	3.9
HL980	299 kg	$\varnothing 180$	$\varnothing 212$	$\varnothing 105$	885	1515	2400	$\varnothing 120$	110	122	$\varnothing 120$	100	125
HL980A HL980 T3	659 lb	$\varnothing 7.1$	$\varnothing 8.3$	$\varnothing 4.1$	34.8	59.6	94.5	$\varnothing 4.7$	4.3	4.8	$\varnothing 4.7$	3.9	4.9
HL985A	327 kg	$\varnothing 190$	$\varnothing 226$	$\varnothing 107$	890	1510	2400	$\varnothing 120$	110	122	$\varnothing 120$	100	125
	721 lb	$\varnothing 7.5$	$\varnothing 8.9$	$\varnothing 4.2$	35.0	59.4	94.5	$\varnothing 4.7$	4.3	4.8	$\varnothing 4.7$	3.9	4.9

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.2 Bucket Cylinder (1/3)



CYLINDER ST

Unit : mm

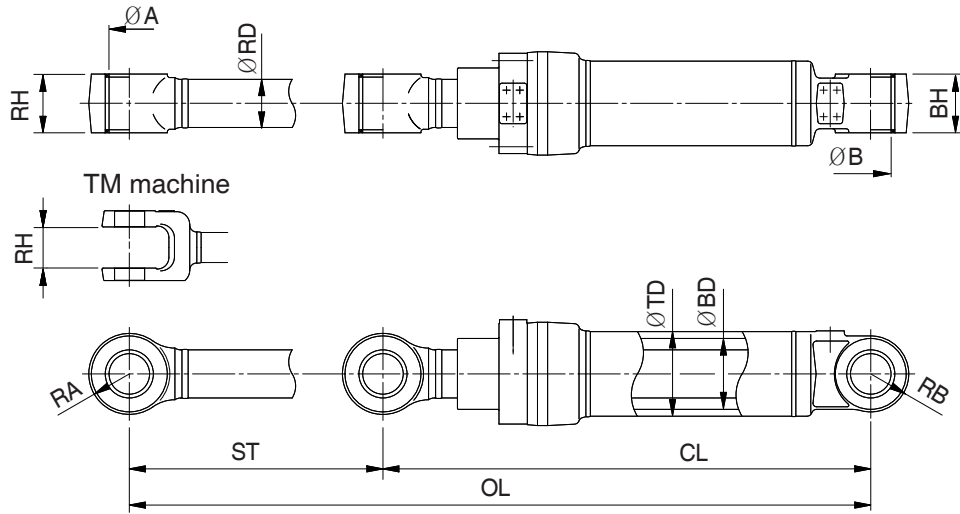
inch

Model	Weight	$\varnothing BD$	$\varnothing TD$	$\varnothing RD$	ST	CL	OL	$\varnothing A$	RA	RH	$\varnothing B$	RB	BH
HL730-9	69 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	510	960	1470	$\varnothing 70$	62.5	75	$\varnothing 70$	62.5	75
HL730-9A	152 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	20.1	37.8	57.9	$\varnothing 2.8$	2.5	3.0	$\varnothing 2.8$	2.5	3.0
HL730XTD-9	75 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	515	1215	1730	$\varnothing 70$	62.5	75	$\varnothing 70$	62.5	75
HL730XTD-9A	165 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	20.3	47.8	68.1	$\varnothing 2.8$	2.5	3.0	$\varnothing 2.8$	2.5	3.0
HL730TM-9	57 kg	$\varnothing 90$	$\varnothing 106$	$\varnothing 50$	775	1260	2035	$\varnothing 50$	50	81	$\varnothing 50$	50	72
HL730TM-9A	126 lb	$\varnothing 3.5$	$\varnothing 4.2$	$\varnothing 2.0$	30.5	49.6	80.1	$\varnothing 2.0$	2.0	3.2	$\varnothing 2.0$	2.0	2.8
HL740-9	90 kg	$\varnothing 125$	$\varnothing 146$	$\varnothing 70$	505	1010	1515	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
HL740-9A	198 lb	$\varnothing 4.9$	$\varnothing 5.7$	$\varnothing 2.8$	19.9	39.8	59.6	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL740XTD-9	99 kg	$\varnothing 125$	$\varnothing 146$	$\varnothing 70$	505	1315	1820	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
HL740XTD-9A	218 lb	$\varnothing 4.9$	$\varnothing 5.7$	$\varnothing 2.8$	19.9	51.8	71.7	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL740TM-9	58 kg	$\varnothing 95$	$\varnothing 112$	$\varnothing 50$	745	1235	1980	$\varnothing 50$	50	70	$\varnothing 50$	50	60
HL740TM-9A	128 lb	$\varnothing 3.7$	$\varnothing 4.4$	$\varnothing 2.0$	29.3	48.6	78.0	$\varnothing 2.0$	2.0	2.8	$\varnothing 2.0$	2.0	2.4
HL757-9	112 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 75$	485	975	1460	$\varnothing 90$	80	90	$\varnothing 95$	81	90
HL757-9A	247 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.0$	19.1	38.4	57.5	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL757XTD-9	124 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 75$	485	1330	1815	$\varnothing 90$	80	90	$\varnothing 95$	81	90
HL757XTD-9A	273 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.0$	19.1	52.4	71.5	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL757TM-9	95 kg	$\varnothing 110$	$\varnothing 130$	$\varnothing 65$	755	1248	2003	$\varnothing 65$	60	85	$\varnothing 70$	62.5	75
HL757TM-9A	209 lb	$\varnothing 4.3$	$\varnothing 5.1$	$\varnothing 2.6$	29.7	49.1	78.9	$\varnothing 2.6$	2.4	3.3	$\varnothing 2.8$	2.5	3.0
HL760-9	168 kg	$\varnothing 160$	$\varnothing 189$	$\varnothing 85$	530	1110	1630	$\varnothing 110$	100	110	$\varnothing 110$	100	110
HL760-9A	370 lb	$\varnothing 6.3$	$\varnothing 7.4$	$\varnothing 3.3$	20.9	43.7	64.2	$\varnothing 4.3$	3.9	4.3	$\varnothing 4.3$	3.9	4.3
HL760XTD-9	185 kg	$\varnothing 160$	$\varnothing 189$	$\varnothing 85$	515	1475	1990	$\varnothing 110$	100	110	$\varnothing 110$	100	110
HL760XTD-9A	408 lb	$\varnothing 6.3$	$\varnothing 7.4$	$\varnothing 3.3$	20.3	58.1	78.3	$\varnothing 4.3$	3.9	4.3	$\varnothing 4.3$	3.9	4.3
HL770-9	206 kg	$\varnothing 180$	$\varnothing 213$	$\varnothing 95$	570	1135	1705	$\varnothing 120$	100	115	$\varnothing 120$	100	125
HL770-9A	454 lb	$\varnothing 7.1$	$\varnothing 8.4$	$\varnothing 3.7$	22.4	44.7	67.1	$\varnothing 4.7$	3.9	4.5	$\varnothing 4.7$	3.9	4.9
HL770XTD-9	235 kg	$\varnothing 180$	$\varnothing 213$	$\varnothing 95$	570	1480	2050	$\varnothing 120$	100	115	$\varnothing 120$	100	125
HL770XTD-9A	518 lb	$\varnothing 7.1$	$\varnothing 8.4$	$\varnothing 3.7$	22.4	58.3	80.7	$\varnothing 4.7$	3.9	4.5	$\varnothing 4.7$	3.9	4.9

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.2 Bucket Cylinder (1/3)



CYLINDER ST

Unit : mm

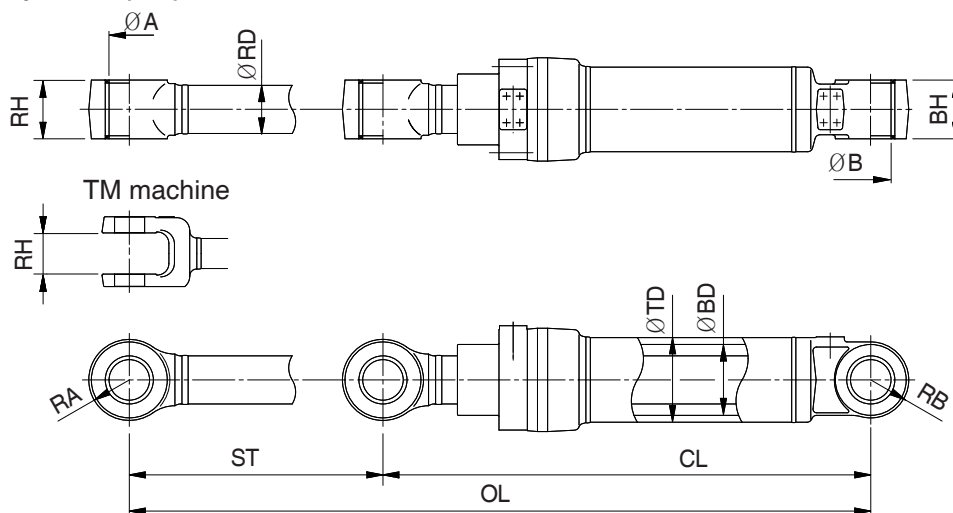
inch

Model	Weight	ØBD	ØTD	ØRD	ST	CL	OL	ØA	RA	RH	ØB	RB	BH
HL780-9	123 kg	Ø140	Ø165	Ø75	575	1190	1765	Ø90	80	90	Ø95	81	90
HL780-9A	271 lb	Ø5.5	Ø6.5	Ø3.0	22.6	46.9	69.5	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5
HL780XTD-9	134 kg	Ø140	Ø165	Ø75	570	1495	2065	Ø90	80	90	Ø95	81	90
HL780XTD-9A	295 lb	Ø5.5	Ø6.5	Ø3.0	22.4	58.9	81.3	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5
HL780-9	123 kg	Ø140	Ø165	Ø75	575	1085	1660	Ø90	80	90	Ø95	81	90
HL780-9A (for marble)	271 lb	Ø5.5	Ø6.5	Ø3.0	22.6	42.7	65.4	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.2 Bucket Cylinder (2/3)



CYLINDER ST

Unit : mm

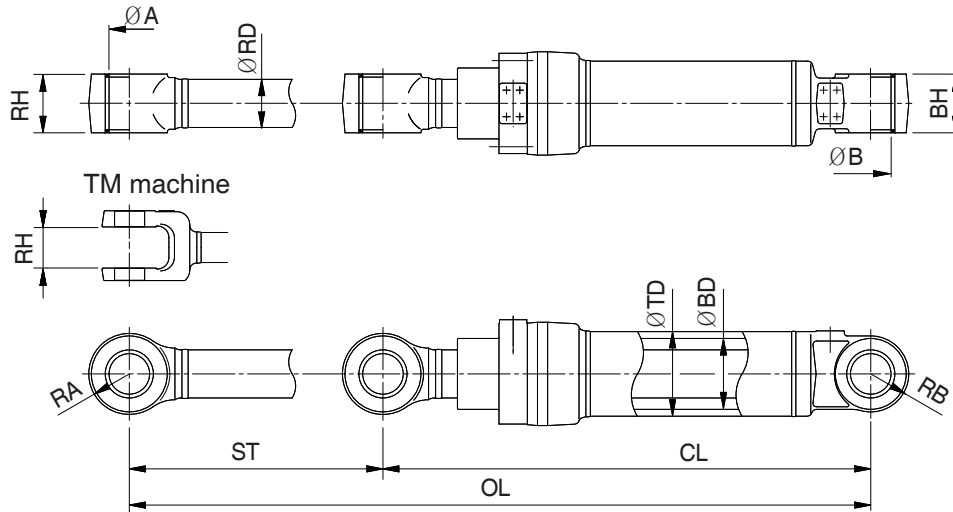
inch

Model	Weight	ØBD	ØTD	ØRD	ST	CL	OL	ØA	RA	RH	ØB	RB	BH
HL730-9S	78 kg	Ø120	Ø139	Ø70	510	955	1465	Ø70	62.5	75	Ø70	62.5	75
	172 lb	Ø4.7	Ø5.5	Ø2.8	20.1	37.6	57.7	Ø2.8	2.5	3.0	Ø2.8	2.5	3.0
HL730XTD-9S	87 kg	Ø120	Ø139	Ø70	510	1240	1750	Ø70	62.5	75	Ø70	62.5	75
	192 lb	Ø4.7	Ø5.5	Ø2.8	20.1	48.8	68.9	Ø2.8	2.5	3.0	Ø2.8	2.5	3.0
HL740-9S	97 kg	Ø140	Ø158	Ø75	505	1010	1515	Ø75	70	85	Ø75	67.5	85
	214 lb	Ø5.5	Ø6.2	Ø3.0	19.9	39.8	59.6	Ø3.0	2.8	3.3	Ø3.0	2.7	3.3
HL740XTD-9S	108 kg	Ø140	Ø158	Ø75	505	1315	1820	Ø75	70	85	Ø75	67.5	85
	238 lb	Ø5.5	Ø6.2	Ø3.0	19.9	51.8	71.7	Ø3.0	2.8	3.3	Ø3.0	2.7	3.3
HL757-9S	123 kg	Ø160	Ø180	Ø80	475	1005	1480	Ø90	80	90	Ø95	81	90
	271 lb	Ø6.3	Ø7.1	Ø3.1	18.7	39.6	58.3	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5
HL757XTD-9S	137 kg	Ø160	Ø180	Ø80	475	1337	1812	Ø90	80	90	Ø95	81	90
	302 lb	Ø6.3	Ø7.1	Ø3.1	18.7	52.6	71.3	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5
HL760-9S	175 kg	Ø180	Ø203	Ø90	530	1100	1630	Ø110	100	110	Ø110	100	110
	386 lb	Ø7.1	Ø8.0	Ø3.5	20.9	43.3	64.2	Ø4.3	3.9	4.3	Ø4.3	3.9	4.3
HL760XTD-9S	194 kg	Ø180	Ø203	Ø90	515	1475	1990	Ø110	100	110	Ø110	100	110
	428 lb	Ø7.1	Ø8.0	Ø3.5	20.3	58.1	78.3	Ø4.3	3.9	4.3	Ø4.3	3.9	4.3
HL770-9S	215 kg	Ø200	Ø225	Ø100	570	1135	1705	Ø120	112.5	115	Ø120	112.5	125
	474 lb	Ø7.9	Ø8.9	Ø3.9	22.4	44.7	67.1	Ø4.7	4.4	4.5	Ø4.7	4.4	4.9
HL770XTD-9S	237 kg	Ø200	Ø225	Ø100	570	1480	2050	Ø120	112.5	115	Ø120	112.5	125
	522 lb	Ø7.9	Ø8.9	Ø3.9	22.4	58.3	80.7	Ø4.7	4.4	4.5	Ø4.7	4.4	4.9
HL780-9S	132 kg	Ø160	Ø180	Ø80	580	1140	1720	Ø90	80	90	Ø95	81	90
	291 lb	Ø6.3	Ø7.1	Ø3.1	22.8	44.9	67.7	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5
HL780XTD-9S	146 kg	Ø160	Ø180	Ø80	570	1495	2065	Ø90	80	90	Ø95	81	90
	322 lb	Ø6.3	Ø7.1	Ø3.1	22.4	58.9	81.3	Ø3.5	3.1	3.5	Ø3.7	3.2	3.5

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.2 Bucket Cylinder (3/3)



CYLINDER ST

Unit : mm

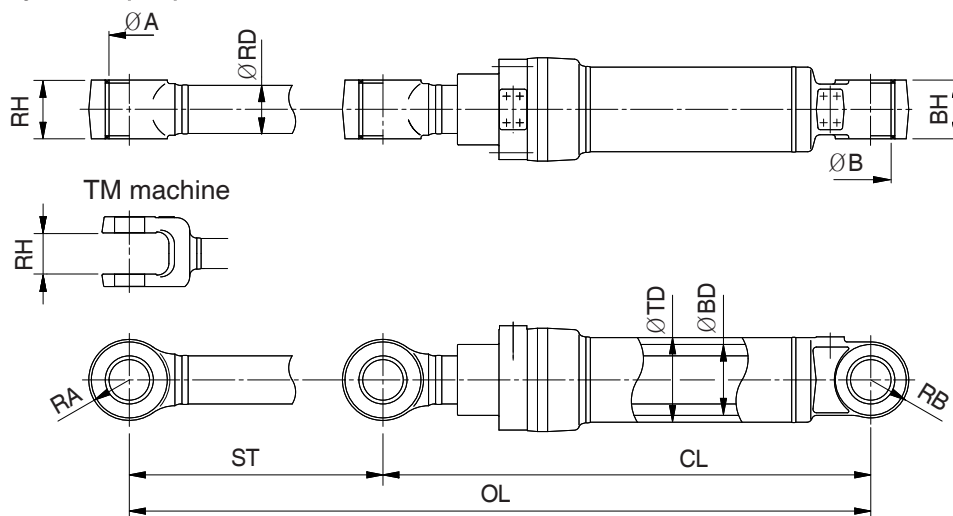
inch

Model	Weight	$\varnothing BD$	$\varnothing TD$	$\varnothing RD$	ST	CL	OL	$\varnothing A$	RA	RH	$\varnothing B$	RB	BH
HL930A	69 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	510	960	1470	$\varnothing 70$	62.5	75	$\varnothing 70$	62.5	75
	152 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	20.1	37.8	57.9	$\varnothing 2.8$	2.5	3.0	$\varnothing 2.8$	2.5	3.0
HL930AXT	75 kg	$\varnothing 110$	$\varnothing 128$	$\varnothing 65$	515	1215	1730	$\varnothing 70$	62.5	75	$\varnothing 70$	62.5	75
	165 lb	$\varnothing 4.3$	$\varnothing 5.0$	$\varnothing 2.6$	20.3	47.8	68.1	$\varnothing 2.8$	2.5	3.0	$\varnothing 2.8$	2.5	3.0
HL930A TM	57 kg	$\varnothing 90$	$\varnothing 106$	$\varnothing 50$	775	1260	2035	$\varnothing 50$	50	81	$\varnothing 50$	50	72
	126 lb	$\varnothing 3.5$	$\varnothing 4.2$	$\varnothing 2.0$	30.5	49.6	80.1	$\varnothing 2.0$	2.0	3.2	$\varnothing 2.0$	2.0	2.8
HL940	90 kg	$\varnothing 125$	$\varnothing 146$	$\varnothing 70$	505	1010	1515	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
	198 lb	$\varnothing 4.9$	$\varnothing 5.7$	$\varnothing 2.8$	19.9	39.8	59.6	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL940A	97 kg	$\varnothing 125$	$\varnothing 149$	$\varnothing 70$	560	1215	1775	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
	214 lb	$\varnothing 4.9$	$\varnothing 5.9$	$\varnothing 2.8$	22.0	47.8	69.9	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL940XT	100 kg	$\varnothing 125$	$\varnothing 146$	$\varnothing 70$	505	1315	1820	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
	220 lb	$\varnothing 4.9$	$\varnothing 5.7$	$\varnothing 2.8$	19.9	51.8	71.7	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL940AXT	121 kg	$\varnothing 125$	$\varnothing 149$	$\varnothing 75$	580	1775	2355	$\varnothing 75$	70	85	$\varnothing 75$	67.5	85
	267 lb	$\varnothing 4.9$	$\varnothing 5.9$	$\varnothing 3.0$	22.8	69.9	92.7	$\varnothing 3.0$	2.8	3.3	$\varnothing 3.0$	2.7	3.3
HL940TM HL940A TM	58 kg	$\varnothing 95$	$\varnothing 112$	$\varnothing 50$	745	1235	1980	$\varnothing 50$	50	70	$\varnothing 50$	50	60
	128 lb	$\varnothing 3.7$	$\varnothing 4.4$	$\varnothing 2.0$	29.3	48.6	78.0	$\varnothing 2.0$	2.0	2.8	$\varnothing 2.0$	2.0	2.4
HL955	111 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 75$	485	975	1460	$\varnothing 90$	80	90	$\varnothing 95$	81	90
	245 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.0$	19.1	38.4	57.5	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL955A HL955 T3	121 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 75$	560	1275	1835	$\varnothing 90$	80	90	$\varnothing 95$	81	90
	267 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.0$	22.0	50.2	72.2	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL955XT	129 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 75$	490	1485	1975	$\varnothing 90$	80	90	$\varnothing 95$	81	90
	284 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.0$	19.3	58.5	77.8	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL955AXT HL955XT T3	149 kg	$\varnothing 140$	$\varnothing 165$	$\varnothing 80$	585	1850	2435	$\varnothing 90$	80	90	$\varnothing 95$	81	90
	328 lb	$\varnothing 5.5$	$\varnothing 6.5$	$\varnothing 3.1$	23.0	72.8	95.9	$\varnothing 3.5$	3.1	3.5	$\varnothing 3.7$	3.2	3.5
HL955TM HL955A TM	95 kg	$\varnothing 110$	$\varnothing 130$	$\varnothing 65$	755	1248	2003	$\varnothing 65$	60	85	$\varnothing 70$	62.5	75
	209 lb	$\varnothing 4.3$	$\varnothing 5.1$	$\varnothing 2.6$	29.7	49.1	78.9	$\varnothing 2.6$	2.4	3.3	$\varnothing 2.8$	2.5	3.0

ATTACHMENT SPECIFICATION

2. Hydraulic Cylinder

2.2 Bucket Cylinder (3/3)



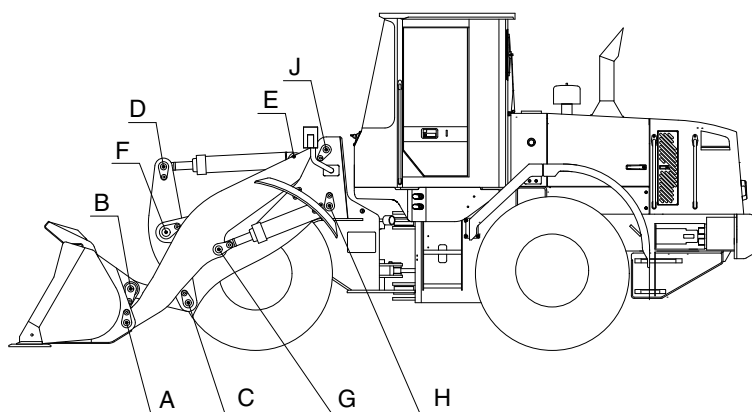
CYLINDER ST

Unit : mm

inch

Model	Weight	$\varnothing BD$	$\varnothing TD$	$\varnothing RD$	ST	CL	OL	$\varnothing A$	RA	RH	$\varnothing B$	RB	BH
HL960	171 kg	$\varnothing 160$	$\varnothing 192$	$\varnothing 85$	530	1110	1640	$\varnothing 110$	97	110	$\varnothing 110$	95	110
HL960A													
HL960 T3	377 lb	$\varnothing 6.3$	$\varnothing 7.6$	$\varnothing 3.3$	20.9	43.7	64.6	$\varnothing 4.3$	3.8	4.3	$\varnothing 4.3$	3.7	4.3
HL960XT	188 kg	$\varnothing 160$	$\varnothing 192$	$\varnothing 85$	530	1500	2030	$\varnothing 110$	97	110	$\varnothing 110$	95	110
HL960AXT													
HL960XT T3	414 lb	$\varnothing 6.3$	$\varnothing 7.6$	$\varnothing 3.3$	20.9	59.1	79.9	$\varnothing 4.3$	3.8	4.3	$\varnothing 4.3$	3.7	4.3
HL965	170 kg	$\varnothing 160$	$\varnothing 192$	$\varnothing 85$	560	1085	1645	$\varnothing 110$	97	110	$\varnothing 110$	95	110
	375 lb	$\varnothing 6.3$	$\varnothing 7.6$	$\varnothing 3.3$	22.0	42.7	64.8	$\varnothing 4.3$	3.8	4.3	$\varnothing 4.3$	3.7	4.3
HL965XT	189 kg	$\varnothing 160$	$\varnothing 192$	$\varnothing 85$	560	1510	2070	$\varnothing 110$	97	110	$\varnothing 110$	95	110
	417 lb	$\varnothing 6.3$	$\varnothing 7.6$	$\varnothing 3.3$	22.0	59.4	81.5	$\varnothing 4.3$	3.8	4.3	$\varnothing 4.3$	3.7	4.3
HL970	209 kg	$\varnothing 180$	$\varnothing 213$	$\varnothing 95$	565	1190	1755	$\varnothing 120$	100	115	$\varnothing 120$	100	125
HL970A													
HL970 T3	461 lb	$\varnothing 7.1$	$\varnothing 8.4$	$\varnothing 3.7$	22.2	46.9	69.1	$\varnothing 4.7$	3.9	4.5	$\varnothing 4.7$	3.9	4.9
HL970XT	233 kg	$\varnothing 180$	$\varnothing 213$	$\varnothing 95$	570	1615	2185	$\varnothing 120$	100	115	$\varnothing 120$	100	125
HL970AXT													
HL970XT T3	514 lb	$\varnothing 7.1$	$\varnothing 8.4$	$\varnothing 3.7$	22.4	63.6	86.0	$\varnothing 4.7$	3.9	4.5	$\varnothing 4.7$	3.9	4.9
HL975	289 kg	$\varnothing 190$	$\varnothing 223$	$\varnothing 100$	595	1220	1815	$\varnothing 120$	110	115	$\varnothing 120$	110	125
HL975A													
	637 lb	$\varnothing 7.5$	$\varnothing 8.8$	$\varnothing 3.9$	23.4	48.0	71.5	$\varnothing 4.7$	4.3	4.5	$\varnothing 4.7$	4.3	4.9
HL975XT	310 kg	$\varnothing 190$	$\varnothing 223$	$\varnothing 100$	595	1550	2145	$\varnothing 120$	110	115	$\varnothing 120$	110	125
HL975AXT													
	683 lb	$\varnothing 7.5$	$\varnothing 8.8$	$\varnothing 3.9$	23.4	61.0	84.4	$\varnothing 4.7$	4.3	4.5	$\varnothing 4.7$	4.3	4.9
HL980	305 kg	$\varnothing 200$	$\varnothing 232$	$\varnothing 110$	550	1240	1790	$\varnothing 130$	120	130	$\varnothing 130$	120	140
HL980A													
HL980 T3	672 lb	$\varnothing 7.9$	$\varnothing 9.1$	$\varnothing 4.3$	21.7	48.8	70.5	$\varnothing 5.1$	4.7	5.1	$\varnothing 5.1$	4.7	5.5
HL980XT	323 kg	$\varnothing 200$	$\varnothing 232$	$\varnothing 110$	545	1520	2065	$\varnothing 130$	120	130	$\varnothing 130$	120	140
HL980AXT													
HL980XT T3	712 lb	$\varnothing 7.9$	$\varnothing 9.1$	$\varnothing 4.3$	21.5	59.8	81.3	$\varnothing 5.1$	4.7	5.1	$\varnothing 5.1$	4.7	5.5
HL985A	328 kg	$\varnothing 210$	$\varnothing 245$	$\varnothing 115$	550	1250	1800	$\varnothing 130$	120	130	$\varnothing 130$	120	140
	723 lb	$\varnothing 8.3$	$\varnothing 9.6$	$\varnothing 4.5$	21.7	49.2	70.9	$\varnothing 5.1$	4.7	5.1	$\varnothing 5.1$	4.7	5.5

3. Pin and Bushing (1/5)

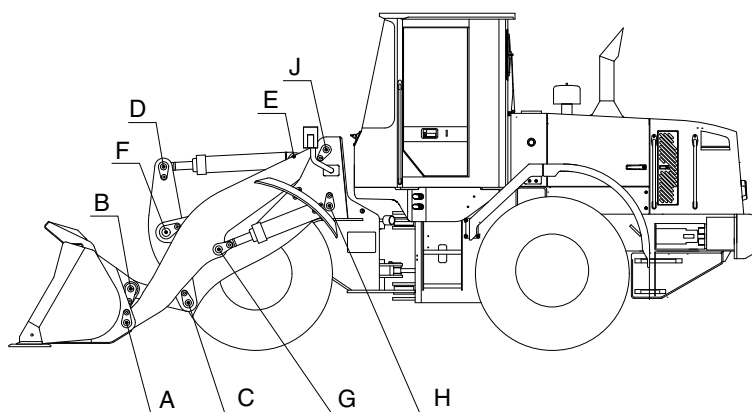


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL730-9 HL730-9A	A, B, C, G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D, E, H, J	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	F	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	A,B,C,H,J	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D, E	75	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
HL740-9 HL740-9A	F	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G, H	75	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	A, B, C, J	80	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	E	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	

3. Pin and Bushing (1/5)

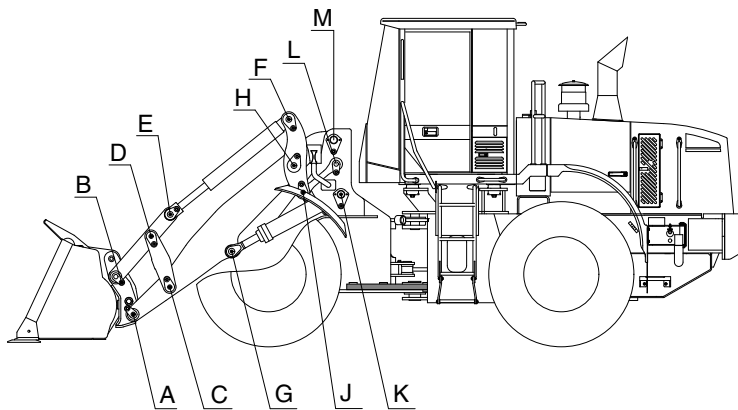


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL760-9 HL760-9A	A, B, C	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G, H	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	J	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	D, E	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
HL770-9 HL770-9A	A, B, C, G, H	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	D, E	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	130	-0.043 -0.106	+0.245 +0.145	0.188 ~0.351	1.0	
HL780-9 HL780-9A	B, C	80	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	E	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	A, F	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G, H, J	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	

3. Pin and Bushing (2/5)

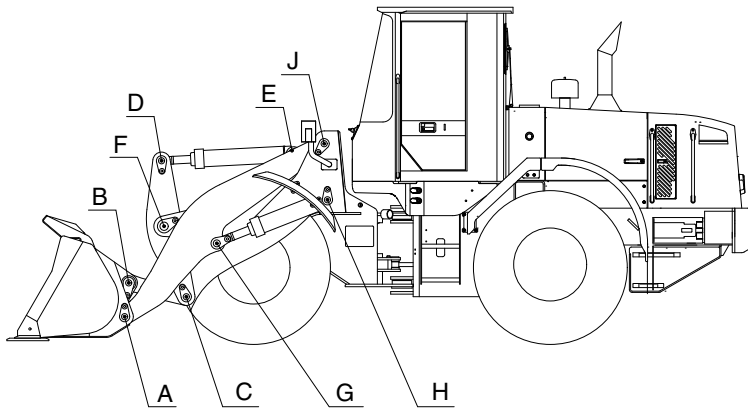


- A Coupler and boom
- B Coupler and tilt link
- C Boom and tilt lever
- D Tilt link and tilt lever
- E Tilt link and bucket cylinder
- F Lever and bucket cylinder
- G Boom and boom cylinder
- H Boom and lever
- J Lever and link
- K Boom cylinder and front frame
- L Link and front frame
- M Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL730TM-9 HL730TM-9A	A, B, C, D, E, F, J	50	-0.025 -0.064	+0.142 +0.080	0.105 ~0.206	1.0	
	G, H	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	K, L, M	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
HL740TM-9 HL740TM-9A	C, D, E, F, J, L	50	-0.025 +0.064	+0.142 +0.080	0.105 ~0.206	1.0	
	A, B	60	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	H, K, M	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
HL757TM-9 HL757TM-9A	A, B, C, D, J, L	60	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	E	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	F	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	G, K	75	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	H, M	80	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	

3. Pin and Bushing (3/5)

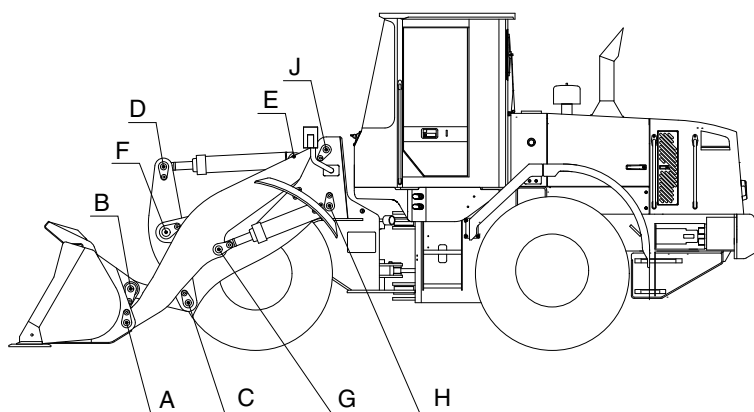


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL730-9S	A, B, C, G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D, E, H, J	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	F	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
HL740-9S	G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	A, B, C, H, J	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D, E	75	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	F	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
HL757-9S	G, H	75	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	A, B, C, J	80	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	E	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	

3. Pin and Bushing (3/5)

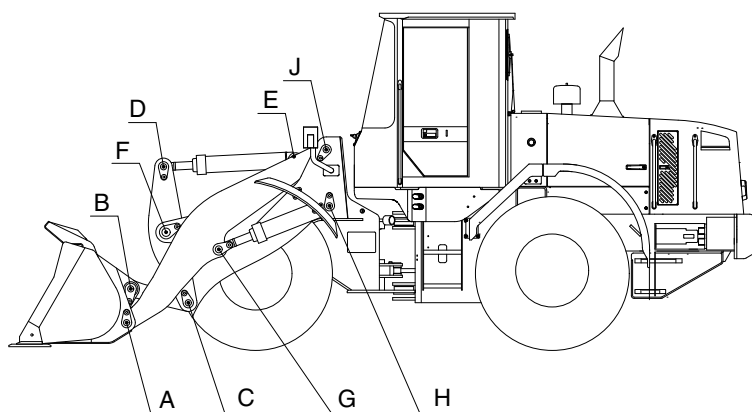


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL760-9S	A, B, C	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G, H	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	J	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	D, E	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
HL770-9S HL775-9S	A, B, C, G, H	100	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	J	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	D, E	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	F	130	-0.043 -0.106	+0.245 +0.145	0.188 ~0.351	1.0	
HL780-9S	B, C	80	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	E	95	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	A, F	110	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
	G, H, J	120	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	

3. Pin and Bushing (4/5)

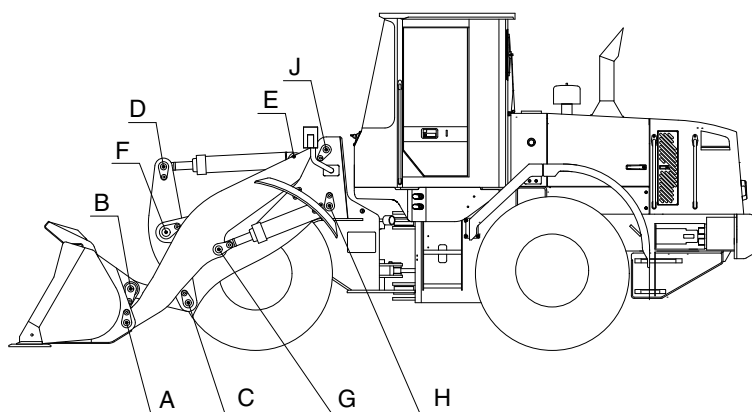


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL930A	A, B, C, G	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	D, E, H, J	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	F	90	-0.036 -0.090	+0.207 +0.120	0.156 ~0.297	1.0	
HL935	G	65	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	A, B, C, H, J	70	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	D, E	75	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	F	100	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
HL940 HL940A	G	65	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	A, B, C, H, J	70	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	D, E	75	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	F	100	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	

3. Pin and Bushing (4/5)

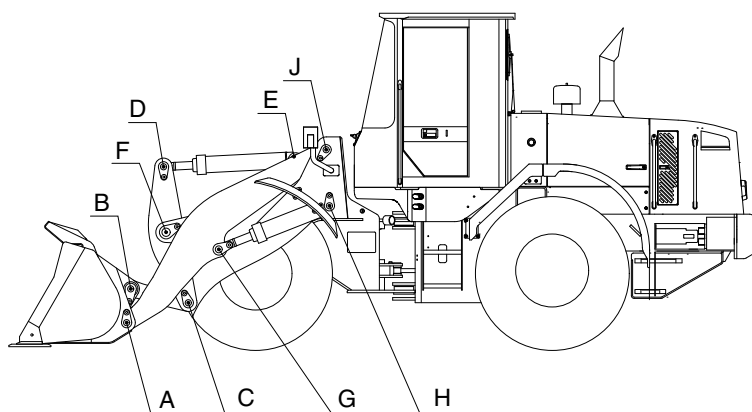


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL955 HL955A HL955 T3	G, H	75	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	A, B, C, J	80	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	D, E	90	-0.036 -0.071	+0.207 +0.12	0.156 ~0.278	1.0	
	E	95	-0.036 -0.071	+0.207 +0.12	0.156 ~0.278	1.0	
	F	110	-0.036 -0.071	+0.207 +0.12	0.156 ~0.278	1.0	
HL960 HL960A HL960 T3 HL965	A, B, C	90	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	G, H	95	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	J	100	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	D, E	110	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	F	120	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
HL970 HL970A HL970 T3 HL975	A, B, C, G, H	100	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	J	110	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	D, E	120	-0.036 -0.071	+0.207 +0.120	0.156 ~0.278	1.0	
	F	130	-0.043 -0.083	+0.245 +0.145	0.188 ~0.328	1.0	

3. Pin and Bushing (4/5)

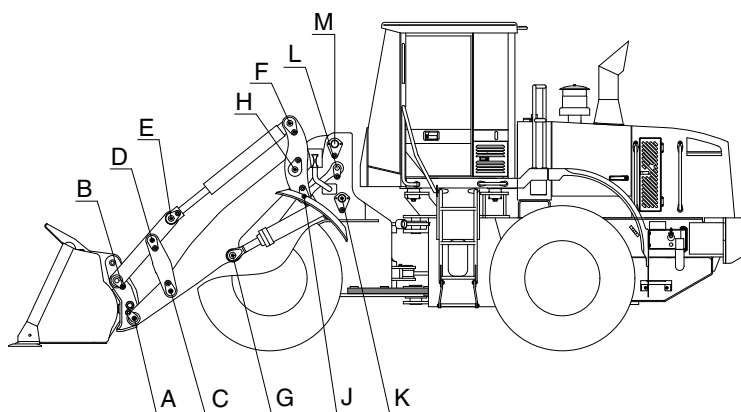


- A Bucket and boom
- B Bucket and tilt link
- C Bell crank and tilt link
- D Bell crank and tilt link
- E Bucket cylinder and front frame
- F Boom and bell crank
- G Boom and boom cylinder
- H Boom cylinder and front frame
- J Boom and front frame

Unit : mm

Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL980 HL980A HL980 T3 HL985A	A, B, C	110	-0.036	+0.207	0.156	1.0	
			-0.071	+0.120	~0.278		
	G, H, J	120	-0.036	+0.207	0.156	1.0	
			-0.071	+0.120	~0.278		
	D, E	130	-0.043	+0.245	0.188	1.0	
			-0.083	+0.145	~0.328		
	F	140	-0.043	+0.245	0.188	1.0	
			-0.083	+0.145	~0.328		

3. Pin and Bushing (5/5)

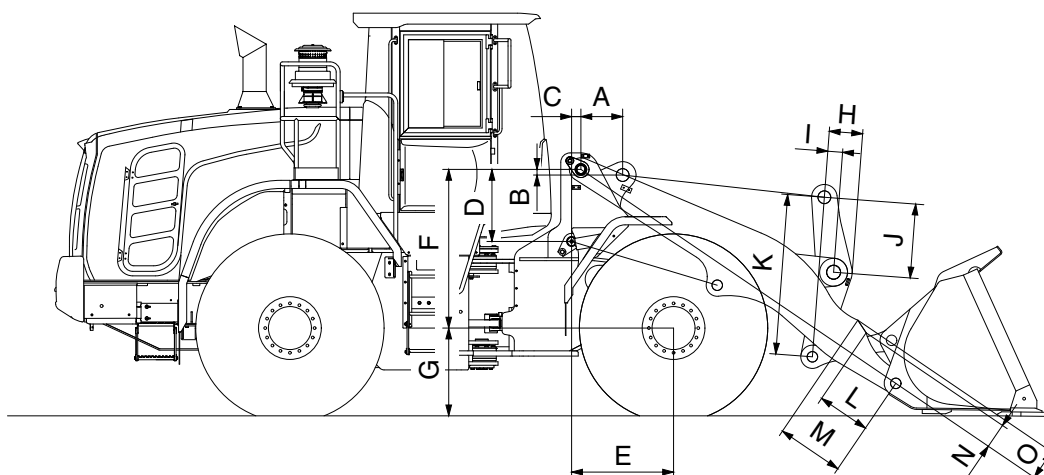


- A Coupler and boom
- B Coupler and tilt link
- C Boom and tilt lever
- D Tilt link and tilt lever
- E Tilt link and bucket cylinder
- F Lever and bucket cylinder
- G Boom and boom cylinder
- H Boom and lever
- J Lever and link
- K Boom cylinder and front frame
- L Link and front frame
- M Boom and front frame

Unit : mm

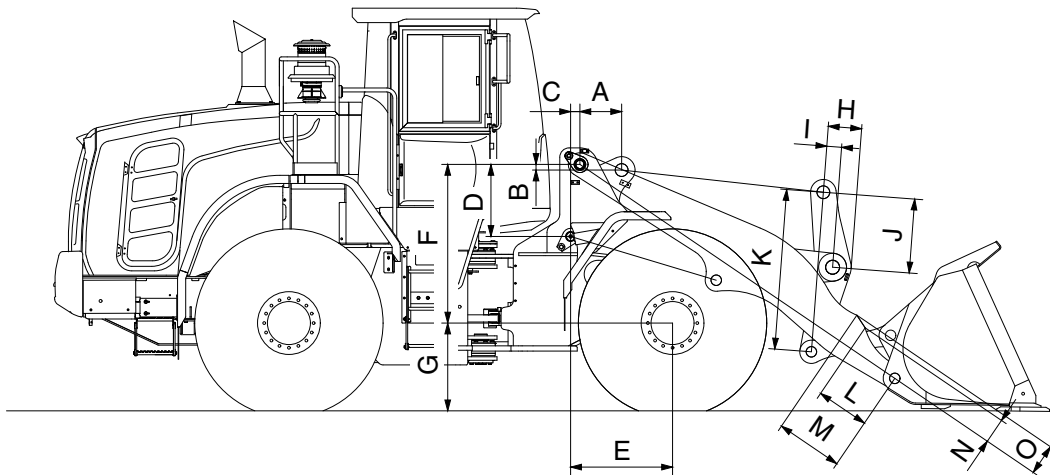
Model	Measuring point (Pin and bushing)	Criteria					Remarks
		Standard size	Tolerance		Standard clearance	Clearance limit	
			Pin	Bushing			
HL930A TM	A, B, C, D, E, F, J	50	-0.025 -0.064	+0.142 +0.080	0.105 ~0.206	1.0	
	G, H	65	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
	K, L, M	70	-0.030 -0.076	+0.174 +0.100	0.130 ~0.250	1.0	
HL935TM HL940TM HL940AM	C, D, E, F, J, L	50	-0.025 -0.050	+0.142 +0.080	0.105 ~0.192	1.0	
	A, B	60	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	G	65	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	H, K, M	70	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
HL955TM HL955A TM	A, B, C, D, J, L	60	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	E	65	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	F	70	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	G, K	75	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	
	H, M	80	-0.030 -0.060	+0.174 +0.100	0.130 ~0.234	1.0	

4. Bucket Kinematic (1/5)

Unit : mm
inch

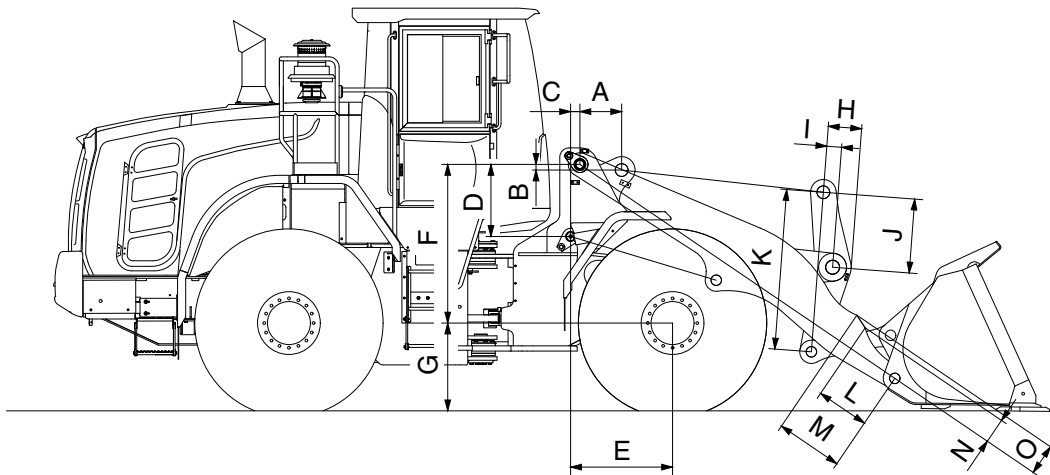
Model	Dimensions															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Diameter of Bucket Boss
HL730-9 HL730-9A	350	80	65	580	685	1200	640	252	115	598	1229	297	483	105	145	120
	13.78	3.15	2.56	22.83	26.97	47.24	25.20	9.92	4.53	23.54	48.39	11.69	19.02	4.13	5.71	4.72
HL730XTD-9 HL730XTD-9A	350	80	65	580	685	1200	640	252	115	596	1229	289	472	125	178	120
	13.78	3.15	2.56	22.83	26.97	47.24	25.20	9.92	4.53	23.46	48.39	11.38	18.58	4.92	7.01	4.72
HL740-9 HL740-9A	300	100	32	548	690	1210	715	311	125	628	1273	313	487	114	162	140
	11.81	3.94	1.26	21.57	27.17	47.64	28.15	12.24	4.92	24.72	50.12	12.32	19.17	4.49	6.38	5.51
HL740XTD-9 HL740XTD-9A	300	100	32	548	690	1210	715	311	125	628	1273	303	472	139	202	140
	11.81	3.94	1.26	21.57	27.17	47.64	28.15	12.24	4.92	24.72	50.12	11.93	18.58	5.47	7.95	5.51
HL757-9 HL757-9A	310	70	35	580	695	1275	705	284	134	600	1287	367	576	130	185	150
	12.20	2.76	1.38	22.83	27.36	50.20	27.76	11.18	5.28	23.62	50.67	14.45	22.68	5.12	7.28	5.91
HL757XTD-9 HL757XTD-9A	310	70	35	580	695	1275	705	284	134	600	1287	384	557	166	236	150
	12.20	2.76	1.38	22.83	27.36	50.20	27.76	11.18	5.28	23.62	50.67	15.12	21.93	6.54	9.29	5.91
HL760-9 HL760-9A	360	45	82	610	817	1322	760	288	128	637	1376	463	606	172	217	170
	14.17	1.77	3.23	24.02	32.17	52.05	29.92	11.34	5.04	25.08	54.17	18.23	23.86	6.77	8.54	6.69
HL760XTD-9 HL760XTD-9A	360	45	82	610	817	1322	760	288	128	637	1376	446	585	213	270	170
	14.17	1.77	3.23	24.02	32.17	52.05	29.92	11.34	5.04	25.08	54.17	17.56	23.03	8.39	10.63	6.69
HL770-9 HL770-9A	340	100	80	610	830	1360	825	320	151	709	1515	552	709	201	268	180
	13.39	3.94	3.15	24.02	32.68	53.54	32.48	12.60	5.94	27.91	59.65	21.73	27.91	7.91	10.55	7.09
HL770XTD-9 HL770XTD-9A	340	100	80	610	830	1360	825	320	151	714	1515	533	684	238	315	180
	13.39	3.94	3.15	24.02	32.68	53.54	32.48	12.60	5.94	28.11	59.65	20.98	26.93	9.37	12.40	7.09
HL780-9 HL780-9A	410	30	520	1600	844	1424	855	286	133	687	1577	737	881	257	327	190
	16.14	1.18	20.47	62.99	33.23	56.06	33.66	11.26	5.24	27.05	62.09	29.02	34.68	10.12	12.87	7.48
HL780XTD-9 HL780XTD-9A	410	30	520	1600	844	1424	855	286	133	687	1577	446	585	213	270	190
	16.14	1.18	20.47	62.99	33.23	56.06	33.66	11.26	5.24	27.05	62.09	17.56	23.03	8.39	10.63	7.48

4. Bucket Kinematic (2/5)

Unit : mm
inch

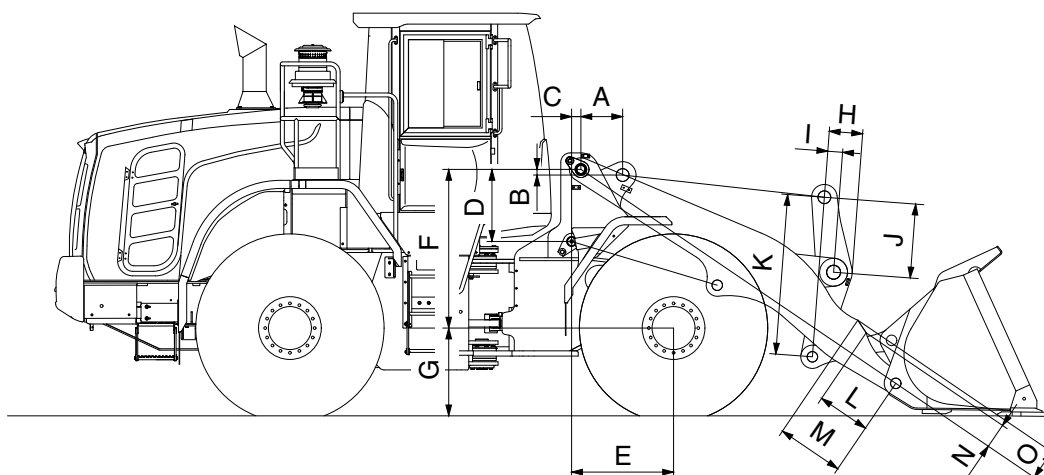
Model	Dimensions															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Diameter of Bucket Boss
HL730-9S	350	80	70	605	685	1200	640	251	114	579	1219	297	483	105	145	120
	13.78	3.15	2.76	23.82	26.97	47.24	25.20	9.88	4.49	22.80	47.99	11.69	19.02	4.13	5.71	4.72
HL730XTD-9S	350	80	70	605	685	1200	640	251	114	579	1219	289	127	471	180	120
	13.78	3.15	2.76	23.82	26.97	47.24	25.20	9.88	4.49	22.80	47.99	11.38	5.00	18.54	7.09	4.72
HL740-9S	300	100	32	548	690	1210	715	295	125	628	1273	312	116	485	166	140
	11.81	3.94	1.26	21.57	27.17	47.64	28.15	11.61	4.92	24.72	50.12	12.28	4.57	19.09	6.54	5.51
HL740XTD-9S	300	100	32	548	690	1210	715	295	125	628	1273	303	139	472	202	140
	11.81	3.94	1.26	21.57	27.17	47.64	28.15	11.61	4.92	24.72	50.12	11.93	5.47	18.58	7.95	5.51
HL757-9S	310	68	40	555	695	1275	705	276	136	585	1261	397	531	130	171	150
	12.20	2.68	1.57	21.85	27.36	50.20	27.76	10.87	5.35	23.03	49.65	15.63	20.91	5.12	6.73	5.91
HL757XTD-9S	310	68	40	555	695	1275	705	276	136	585	1261	384	513	166	219	150
	12.20	2.68	1.57	21.85	27.36	50.20	27.76	10.87	5.35	23.03	49.65	15.12	20.20	6.54	8.62	5.91
HL760-9S	360	45	82	610	817	1322	760	288	128	637	1376	463	606	172	217	170
	14.17	1.77	3.23	24.02	32.17	52.05	29.92	11.34	5.04	25.08	54.17	18.23	23.86	6.77	8.54	6.69
HL760XTD-9S	360	45	82	610	817	1322	760	288	128	637	1376	446	585	213	270	170
	14.17	1.77	3.23	24.02	32.17	52.05	29.92	11.34	5.04	25.08	54.17	17.56	23.03	8.39	10.63	6.69
HL770-9S HL775-9S	340	100	80	610	830	1360	825	311	151	709	1515	549	704	211	280	180
	13.39	3.94	3.15	24.02	32.68	53.54	32.48	12.24	5.94	27.91	59.65	21.61	27.72	8.31	11.02	7.09
HL770XTD-9S	340	100	80	610	830	1360	825	311	151	709	1515	533	685	239	316	180
	13.39	3.94	3.15	24.02	32.68	53.54	32.48	12.24	5.94	27.91	59.65	20.98	26.97	9.41	12.44	7.09
HL780-9S	410	20	520	1600	844	1424	865	286	133	687	1577	737	881	258	329	190
	16.14	0.79	20.47	62.99	33.23	56.06	34.06	11.26	5.24	27.05	62.09	29.02	34.68	10.16	12.95	7.48
HL780XTD-9S	410	20	520	1600	844	1424	865	286	133	687	1577	717	854	310	394	190
	16.14	0.79	20.47	62.99	33.23	56.06	34.06	11.26	5.24	27.05	62.09	28.23	33.62	12.20	15.51	7.48

4. Bucket Kinematic (3/5)

Unit : mm
inch

Model	Dimensions															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Diameter of Bucket Boss
HL630	302	18	43	580	705	1220	630	241	105	562	1264	366	461	148	187	-
HL635L	11.89	0.71	1.69	22.83	27.76	48.03	24.80	9.49	4.13	22.13	49.76	14.41	18.15	5.83	7.36	-
HL660	438	92	80	562	745	1410	750	308	124	550	1189	556	667	213	249	-
HL665L	17.24	3.62	3.15	22.13	29.33	55.51	29.53	12.13	4.88	21.65	46.81	21.89	26.26	8.39	9.80	-
HL930A	350	80	65	580	645	1200	640	252	115	598	1229	297	483	105	145	120
	13.78	3.15	2.56	22.83	25.39	47.24	25.20	9.92	4.53	23.54	48.39	11.69	19.02	4.13	5.71	4.72
HL930AXT	350	80	65	580	645	1200	640	252	115	596	1229	289	472	125	178	120
	13.78	3.15	2.56	22.83	25.39	47.24	25.20	9.92	4.53	23.46	48.39	11.38	18.58	4.92	7.01	4.72
HL935	300	100	32	548	690	1210	715	311	125	628	1273	313	487	114	162	140
HL940	11.81	3.94	1.26	21.57	27.17	47.64	28.15	12.24	4.92	24.72	50.12	12.32	19.17	4.49	6.38	5.51
HL940A	220	210	32	548	630	1210	715	201	24	785	1479	313	487	114	162	140
	8.66	8.27	1.26	21.57	24.80	47.64	28.15	7.91	0.94	30.91	58.23	12.32	19.17	4.49	6.38	5.51
HL935XT	300	100	32	548	690	1210	715	311	125	628	1273	303	472	139	202	140
HL940XT	11.81	3.94	1.26	21.57	27.17	47.64	28.15	12.24	4.92	24.72	50.12	11.93	18.58	5.47	7.95	5.51
HL940AXT	220	210	32	548	630	1210	715	201	24	785	1479	297	462	152	222	140
	8.66	8.27	1.26	21.57	24.80	47.64	28.15	7.91	0.94	30.91	58.23	11.69	18.19	5.98	8.74	5.51
HL955	310	91	30	545	645	1295	705	276	126	622	1362	391	585	126	184	150
	12.20	3.58	1.18	21.46	25.39	50.98	27.76	10.87	4.96	24.49	53.62	15.39	23.03	4.96	7.24	5.91
HL955A	215	235	30	545	645	1295	705	173	23	770	1489	386	575	143	208	150
HL955 T3	8.46	9.25	1.18	21.46	25.39	50.98	27.76	6.81	0.91	30.31	58.62	15.20	22.64	5.63	8.19	5.91
HL955XT	310	91	30	545	645	1295	705	276	126	622	1362	377	527	154	212	150
	12.20	3.58	1.18	21.46	25.39	50.98	27.76	10.87	4.96	24.49	53.62	14.84	20.75	6.06	8.35	5.91
HL955AXT	215	235	30	545	645	1295	705	173	23	770	1489	365	544	191	279	150
HL955XT T3	8.46	9.25	1.18	21.46	25.39	50.98	27.76	6.81	0.91	30.31	58.62	14.37	21.42	7.52	10.98	5.91
HL960	365	60	80	620	797	1365	760	274	114	640	1432	459	602	185	230	170
HL960A	14.37	2.36	3.15	24.41	31.38	53.74	29.92	10.79	4.49	25.20	56.38	18.07	23.70	7.28	9.06	6.69
HL960 T3																

4. Bucket Kinematic (3/5)

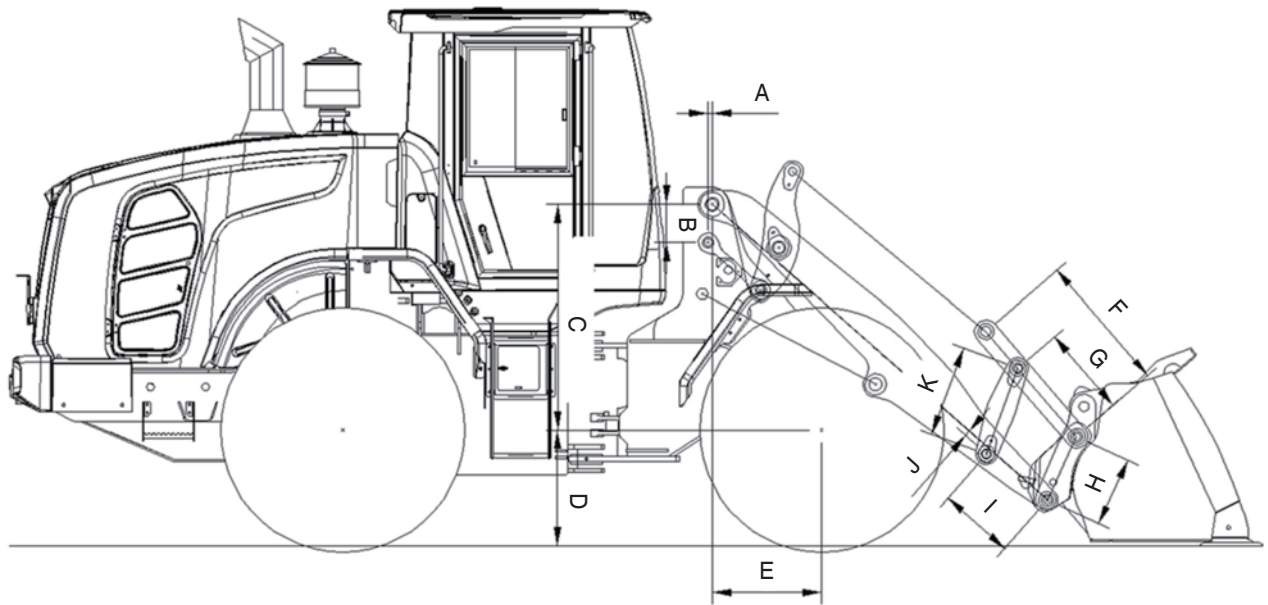


Unit : mm
inch

Model	Dimensions															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Diameter of Bucket Boss
HL960XT HL960AXT HL960XT T3	365	60	80	620	797	1365	760	274	114	640	1432	435	580	224	284	170
	14.37	2.36	3.15	24.41	31.38	53.74	29.92	10.79	4.49	25.20	56.38	17.13	22.83	8.82	11.18	6.69
HL965	385	60	80	640	797	1405	760	303	143	685	1473	460	593	185	228	170
	15.16	2.36	3.15	25.20	31.38	55.31	29.92	11.93	5.63	26.97	57.99	18.11	23.35	7.28	8.98	6.69
HL965XT	385	60	80	640	797	1405	760	303	143	685	1473	426	602	220	294	170
	15.16	2.36	3.15	25.20	31.38	55.31	29.92	11.93	5.63	26.97	57.99	16.77	23.70	8.66	11.57	6.69
HL970 HL970A HL970 T3	340	100	75	625	830	1360	825	317	147	674	1481	545	681	211	272	180
	13.39	3.94	2.95	24.61	32.68	53.54	32.48	12.48	5.79	26.54	58.31	21.46	26.81	8.31	10.71	7.09
HL970XT HL970AXT HL970XT T3	340	100	75	625	830	1360	825	317	147	674	1481	530	694	255	345	180
	13.39	3.94	2.95	24.61	32.68	53.54	32.48	12.48	5.79	26.54	58.31	20.87	27.32	10.04	13.58	7.09
HL975 HL975A	373	124	70	640	830	1360	825	320	150	699	1505	504	730	199	310	180
	14.69	4.88	2.76	25.20	32.68	53.54	32.48	12.60	5.91	27.52	59.25	19.84	28.74	7.83	12.20	7.09
HL975XT HL975AXT	373	124	70	640	830	1360	825	320	150	699	1505	490	670	234	338	180
	14.69	4.88	2.76	25.20	32.68	53.54	32.48	12.60	5.91	27.52	59.25	19.29	26.38	9.21	13.31	7.09
HL980 HL980A HL980 T3	328	110	525	1660	830	1515	885	322	142	721	1686	702	844	254	327	190
	12.91	4.33	20.67	65.35	32.68	59.65	34.84	12.68	5.59	28.39	66.38	27.64	33.23	10.00	12.87	7.48
HL980XT HL980AXT HL980XT T3	328	110	525	1660	830	1515	885	322	142	721	1686	685	823	294	375	190
	12.91	4.33	20.67	65.35	32.68	59.65	34.84	12.68	5.59	28.39	66.38	26.97	32.40	11.57	14.76	7.48
HL985A	345	110	525	1685	830	1575	875	334	144	736	1721	697	853	246	324	190
	13.58	4.33	20.67	66.34	32.68	62.01	34.45	13.15	5.67	28.98	67.76	27.44	33.58	9.69	12.76	7.48

ATTACHMENT SPECIFICATION

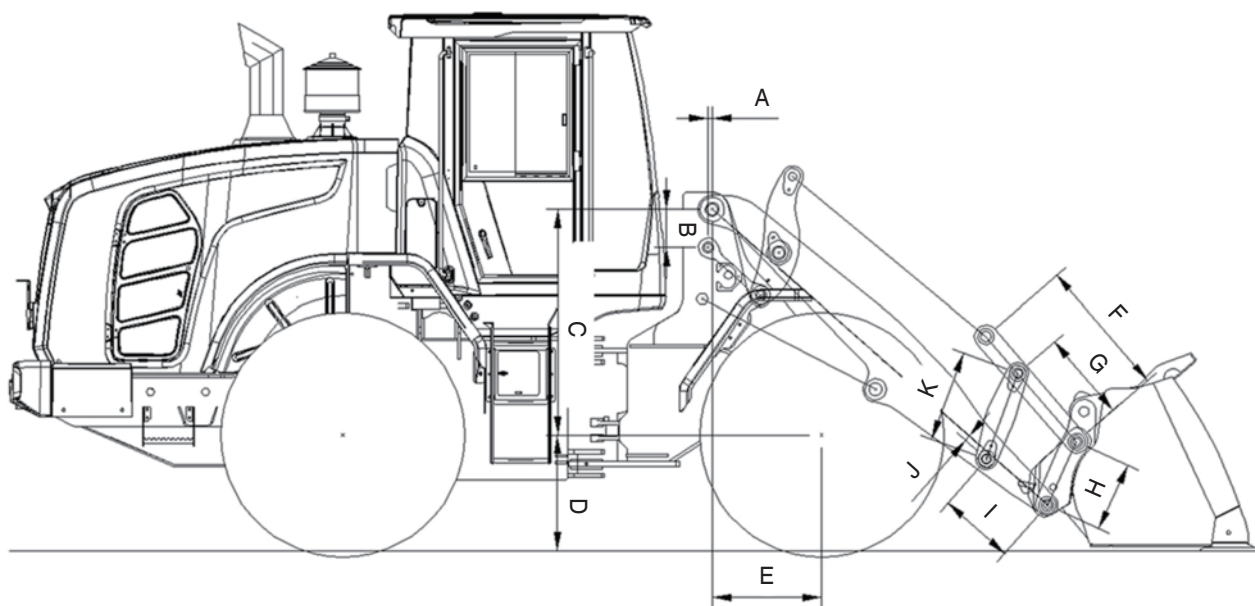
4. Bucket Kinematic (4/5)



Unit : mm
inch

Model	Dimensions										
	A	B	C	D	E	F	G	H	I	J	K
HL730TM-9	25	235	1326	640	670	765	540	430	440	25	565
HL730TM-9A	0.98	9.25	52.20	25.20	26.38	30.12	21.26	16.93	17.32	0.98	22.24
HL740TM-9	25	235	1385	715	675	555	855	430	470	35	560
HL740TM-9A	0.98	9.25	54.53	28.15	26.57	21.85	33.66	16.93	18.50	1.38	22.05
HL757TM-9	25	250	1390	705	675	855	555	430	470	35	560
HL757TM-9A	0.98	9.84	54.72	27.76	26.57	33.66	21.85	16.93	18.50	1.38	22.05

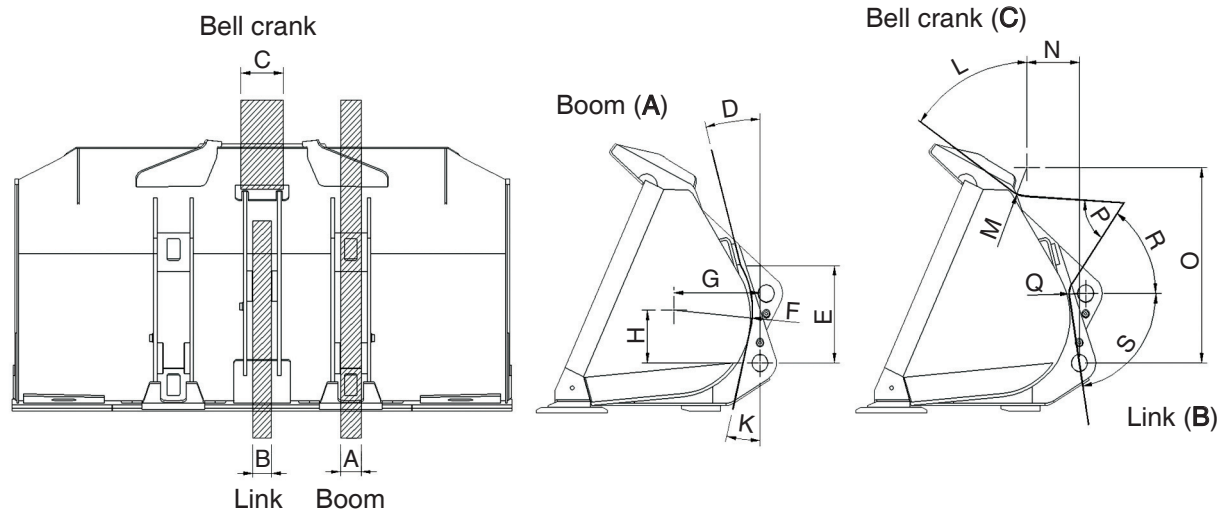
4. Bucket Kinematic (5/5)



Unit : mm
inch

Model	Dimensions										
	A	B	C	D	E	F	G	H	I	J	K
HL930A TM	25	235	1326	640	670	765	540	430	440	25	565
	0.98	9.25	52.20	25.20	26.38	30.12	21.26	16.93	17.32	0.98	22.24
HL935TM HL940TM HL940A TM	25	235	1385	715	675	855	555	430	471	35	560
	0.98	9.25	54.53	28.15	26.57	33.66	21.85	16.93	18.54	1.38	22.05
HL955TM HL955A TM	25	250	1390	705	625	855	555	430	471	35	560
	0.98	9.84	54.72	27.76	24.61	33.66	21.85	16.93	18.54	1.38	22.05

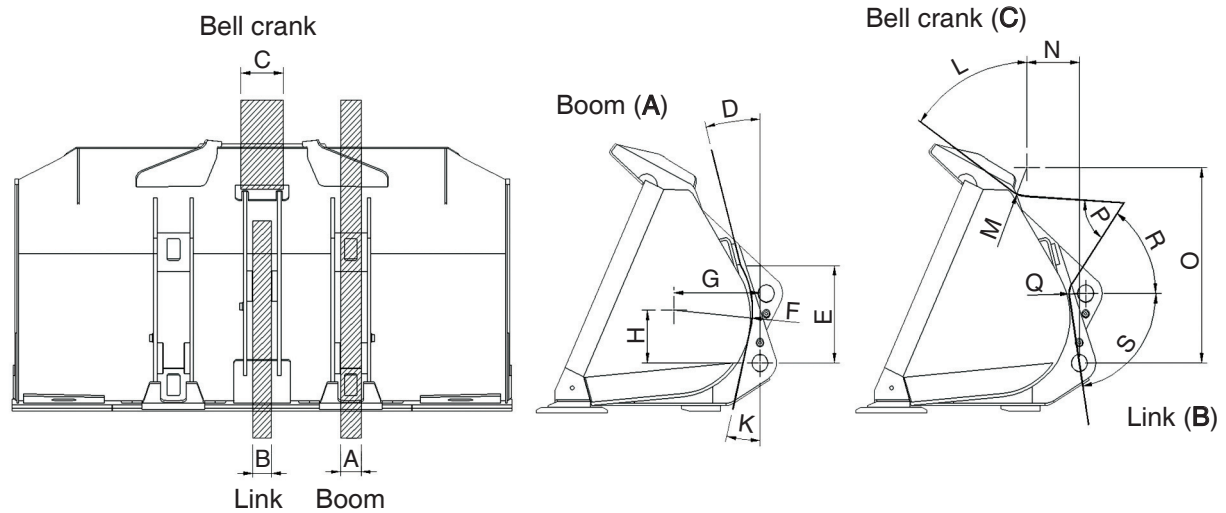
5. Bucket Shading Zone (1/3)



Unit : mm
inch

Model	Dimensions																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
HL730-9	78	76	158	4°	309	R400	452	219	-	-	11°	59°	R500	207	1221	50°	R75	55°	82°
HL730-9A	3.07	2.99	6.22	-	12.17	R15.75	17.80	8.62	-	-	-	-	R19.69	8.15	48.07	-	R2.95	-	-
HL740-9	90	78	188	8°	325	R400	455	215	-	-	13°	54°	R500	156	1205	51°	R85	59°	83°
HL740-9A	3.54	3.07	7.40	-	12.80	R15.75	17.91	8.46	-	-	-	-	R19.69	6.14	47.44	-	R3.35	-	-
HL757-9	112	102	196	11°	408	R500	558	234	-	-	11°	55°	R150	327	971	60°	R85	60°	82°
HL757-9A	4.41	4.02	7.72	-	16.06	R19.69	21.97	9.21	-	-	-	-	R5.91	12.87	38.23	-	R3.35	-	-
HL760-9	122	110	230	8°	485	R750	807	250	-	-	13°	55°	R160	299	1063	60°	R100	55°	80°
HL760-9A	4.80	4.33	9.06	-	19.09	R29.53	31.77	9.84	-	-	-	-	R6.30	11.77	41.85	-	R3.94	-	-
HL770-9	128	114	265	15°	575	R500	548	312	-	-	13°	55°	R170	334	1153	59°	R105	55°	81°
HL770-9A	5.04	4.49	10.43	-	22.64	R19.69	21.57	12.28	-	-	-	-	R6.69	13.15	45.39	-	R4.13	-	-
HL780-9	167	128	300	17°	769	R800	858	426	-	-	9°	54°	R153	325	1238	58°	R85	50°	82°
HL780-9A	6.57	5.04	11.81	-	30.28	R31.50	33.78	16.77	-	-	-	-	R6.02	12.80	48.74	-	R3.35	-	-

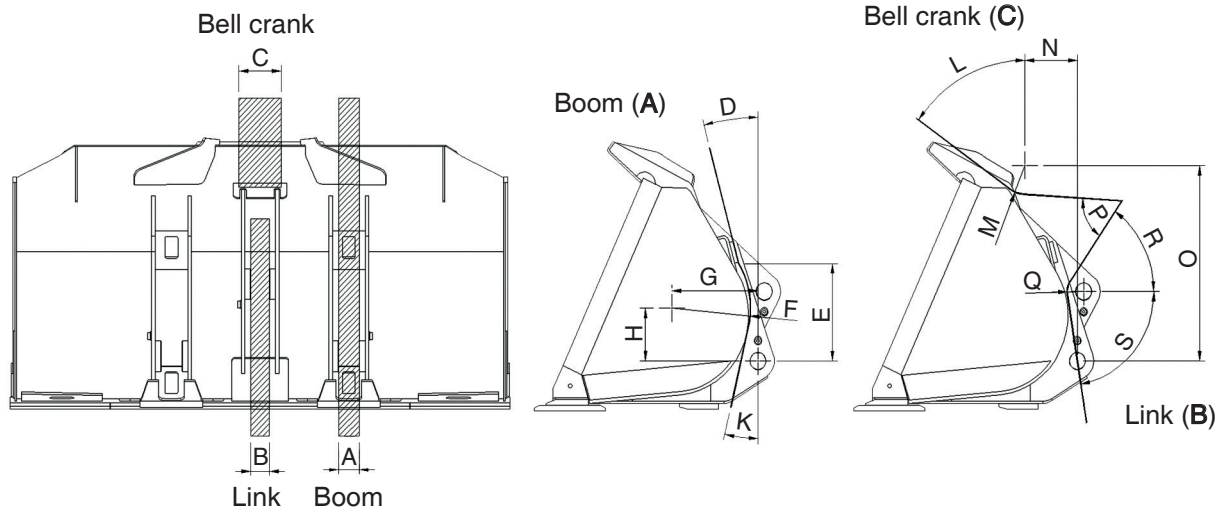
5. Bucket Shading Zone (2/3)



Unit : mm
inch

Model	Dimensions																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
HL730-9S	78	76	158	5°	217	R400	451	217	-	-	15°	59°	R500	169	1220	59°	R75	54°	82°
	3.07	2.99	6.22	-	8.54	R15.75	17.76	8.54	-	-	-	-	R19.69	6.65	48.03	-	R2.95	-	-
HL740-9S	90	78	188	8°	326	R400	456	215	-	-	13°	54°	R700	107	1415	51°	R80	59°	83°
	3.54	3.07	7.40	-	12.83	R15.75	17.95	8.46	-	-	-	-	R27.56	4.21	55.71	-	R3.15	-	-
HL757-9S	112	102	196	9°	411	R500	549	254	-	-	12	55°	R135	298	950	59°	R90	57°	82°
	4.41	4.02	7.72	-	16.18	R19.69	21.61	10.00	-	-	-	-	R5.31	11.73	37.40	-	R3.54	-	-
HL760-9S	122	110	230	8°	485	R750	807	250	-	-	13°	55°	R155	299	692	60°	R100	55°	80°
	4.80	4.33	9.06	-	19.09	R29.53	31.77	9.84	-	-	-	-	R6.10	11.77	27.24	-	R3.94	-	-
HL770-9S HL775-9S	128	114	275	16°	572	R500	553	297	-	-	14°	56°	R160	379	1152	59°	R105	55°	81°
	5.04	4.49	10.83	-	22.52	R19.69	21.77	11.69	-	-	-	-	R6.30	14.92	45.35	-	R4.13	-	-
HL780-9S	167	142	196	17°	770	R800	855	417	-	-	9°	54°	R153	324	1238	70°	R90	50°	82°
	6.57	5.59	7.72	-	30.31	R31.50	33.66	16.42	-	-	-	-	R6.02	12.76	48.74	-	R3.54	-	-

5. Bucket Shading Zone (3/3)



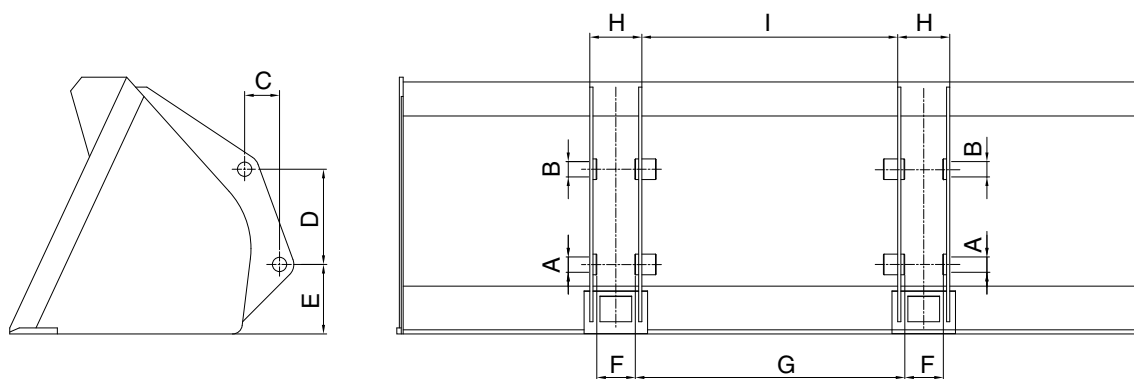
Unit : mm
inch

Model	Dimensions																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
HL930A	78	76	158	4°	309	R400	452	219	-	-	11°	59°	R500	207	1221	50°	R75	55°	82°
	3.07	2.99	6.22	-	12.17	R15.75	17.80	8.62	-	-	-	-	R19.69	8.15	48.07	-	R2.95	-	-
HL935 HL940	90	78	188	8°	325	R400	455	215	118	68	13°	54°	R500	156	1205	51°	R85	59°	83°
	3.54	3.07	7.40	-	12.80	R15.75	17.91	8.46	4.65	2.68	-	-	R19.69	6.14	47.44	-	R3.35	-	-
HL940A	90	78	188	12°	321	R400	455	215	118	68	13°	67°	R500	231	1271	57°	R85	52°	83°
	3.54	3.07	7.40	-	12.64	R15.75	17.91	8.46	4.65	2.68	-	-	R19.69	9.09	50.04	-	R3.35	-	-
HL955	112	102	196	11°	451	R500	559	233	142	91	14°	57°	R150	342	992	57°	R85	56°	83°
	4.41	4.02	7.72	-	17.76	R19.69	22.01	9.17	5.59	3.58	-	-	R5.91	13.46	39.06	-	R3.35	-	-
HL955A HL955 T3	112	102	196	11	402	R500	555	225	142	91	14°	75°	R150	280	984	55°	R85	53°	83°
	4.41	4.02	7.72	-	15.83	R19.69	21.85	8.86	5.59	3.58	-	-	R5.91	11.02	38.74	-	R3.35	-	-
HL960 HL960A HL960 T3	132	110	230	9°	482	R605	671	244	155	72	15°	59°	R160	320	1090	58°	R100	54°	82°
	5.20	4.33	9.06	-	18.98	R23.82	26.42	9.61	6.10	2.83	-	-	R6.30	12.60	42.91	-	R3.94	-	-
HL965 HL965A	132	110	230	9°	483	R567	627	243	155	72	15°	55°	R160	321	1093	60	R100	54°	86°
	5.20	4.33	9.06	-	19.02	R22.32	24.68	9.57	6.10	2.83	-	-	R6.30	12.64	43.03	-	R3.94	-	-
HL970 HL970A HL970 T3	129	114	265	16°	571	R600	652	294	161	100	16°	57°	R170	321	1141	57°	R105	55°	82°
	5.08	4.49	10.43	-	22.48	R23.62	25.67	11.57	6.34	3.94	-	-	R6.69	12.64	44.92	-	R4.13	-	-
HL975 HL975A	129	114	265	16°	447	R790	855	277	161	100	16°	53°	R170	302	1146	58°	R105	53°	84°
	5.08	4.49	10.43	-	17.60	R31.10	33.66	10.91	6.34	3.94	-	-	R6.69	11.89	45.12	-	R4.13	-	-
HL980 HL980A HL980 T3	167	128	300	19°	733	R800	871	377	151	98	11°	54°	R180	363	1284	56°	R110	48°	82°
	6.57	5.04	11.81	-	28.86	R31.50	34.29	14.84	5.94	3.86	-	-	R7.09	14.29	50.55	-	R4.33	-	-
HL985A	167	128	300	19°	723	1000	1078	349	152	98	12°	52.5°	190	375	1301	57°	110	48°	82°
	6.57	5.04	11.81	-	28.46	R39.37	42.44	13.74	5.98	3.86	-	-	R7.48	14.76	51.22	-	R4.33	-	-

ATTACHMENT SPECIFICATION

1. Bucket Dimensions

1.1 Loader



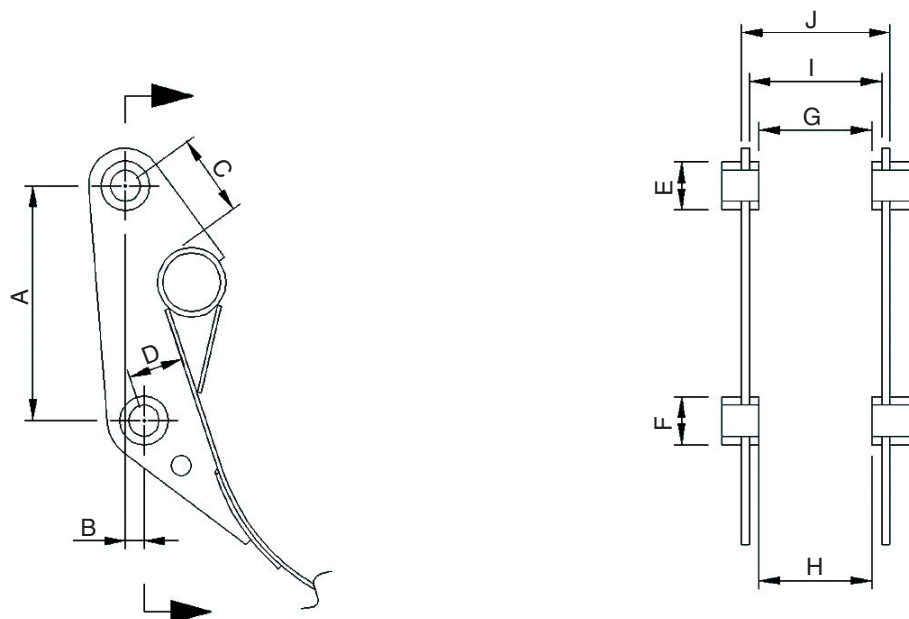
Unit : mm
inch

Model	Dimensions								
	A	B	C	D	E	F	G	H	I
H930S	Ø45	Ø45	110	300	219	120	850	164	806
	Ø1.77	Ø1.77	4.33	11.81	8.62	4.72	33.46	6.46	31.73
H940S	Ø45	Ø45	110	300	219	120	850	164	806
	Ø1.77	Ø1.77	4.33	11.81	8.62	4.72	33.46	6.46	31.73
H930C	Ø45	Ø45	110	300	219	120	850	164	806
	Ø1.77	Ø1.77	4.33	11.81	8.62	4.72	33.46	6.46	31.73
H940C	Ø45	Ø45	110	300	219	120	850	164	806
	Ø1.77	Ø1.77	4.33	11.81	8.62	4.72	33.46	6.46	31.73

ATTACHMENT SPECIFICATION

1. Bucket Dimensions

1.2 Backhoe

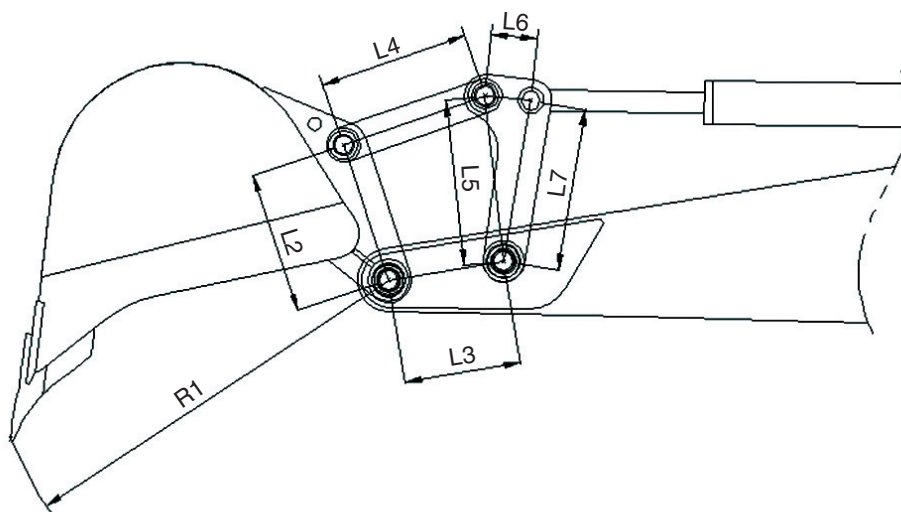


Unit : mm
inch

Model	Dimensions									
	A	B	C	D	E	F	G	H	I	J
H930S	341	28	120	86	Ø70	Ø70	168	168	197	221
	13.43	1.10	4.72	3.39	Ø2.76	Ø2.76	6.61	6.61	7.76	8.70
H940S	341	28	120	81	Ø70	Ø70	168	168	197	221
	13.43	1.10	4.72	3.19	Ø2.76	Ø2.76	6.61	6.61	7.76	8.70
H930C	341	28	120	86	Ø70	Ø70	168	168	197	221
	13.43	1.10	4.72	3.39	Ø2.76	Ø2.76	6.61	6.61	7.76	8.70
H940C	341	28	120	81	Ø70	Ø70	168	168	197	221
	13.43	1.10	4.72	3.19	Ø2.76	Ø2.76	6.61	6.61	7.76	8.70

ATTACHMENT SPECIFICATION

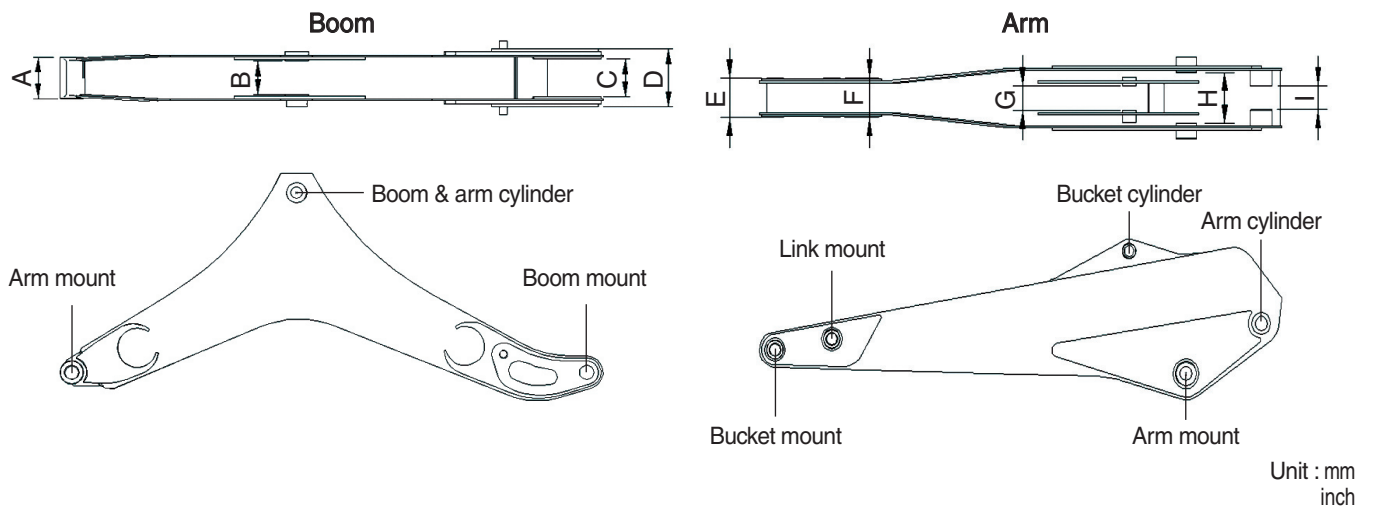
2. Bucket Linkage - Backhoe



Unit : mm
inch

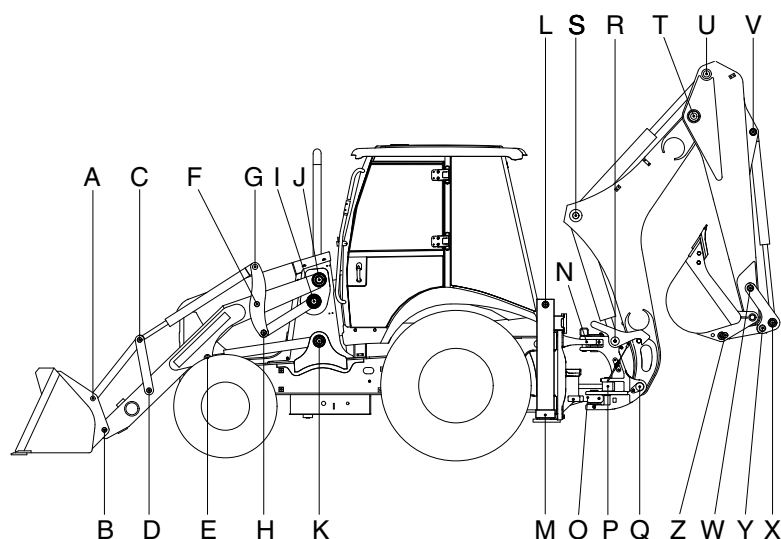
Model	Dimensions								
	R1	L2	L3	L4	L5	L6		L7	
						STD	OPT	STD	OPT
H930S	935	342	280	360	400	110	114	392	415
	36.81	13.46	11.02	14.17	15.75	4.33	4.49	15.43	16.34
H940S	985	342	280	360	400	110	114	392	415
	38.78	13.46	11.02	14.17	15.75	4.33	4.49	15.43	16.34
H930C	935	342	280	360	400	110	114	392	415
	36.81	13.46	11.02	14.17	15.75	4.33	4.49	15.43	16.34
H940C	985	342	280	360	400	110	114	392	415
	38.78	13.46	11.02	14.17	15.75	4.33	4.49	15.43	16.34

3. Boom and Arm Dimensions



Model	Dimensions								
	A	B	C	D	E	F	G	H	I
H930S	212	172	194	296	166	166	102	214	100
	8.35	6.77	7.64	11.65	6.54	6.54	4.02	8.43	3.94
H940S	212	172	194	296	166	166	102	214	100
	8.35	6.77	7.64	11.65	6.54	6.54	4.02	8.43	3.94
H930C	212	172	194	296	166	166	102	214	100
	8.35	6.77	7.64	11.65	6.54	6.54	4.02	8.43	3.94
H940C	212	172	194	296	166	166	102	214	100
	8.35	6.77	7.64	11.65	6.54	6.54	4.02	8.43	3.94

4. Pin and Bushing



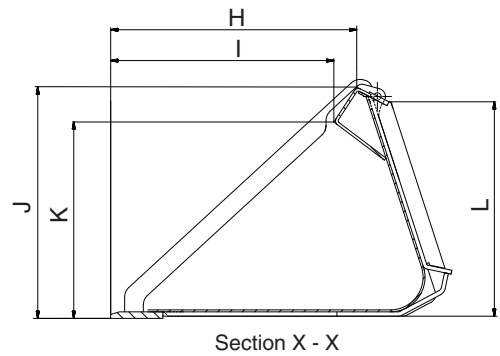
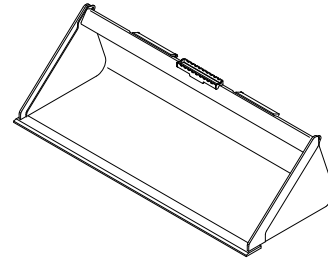
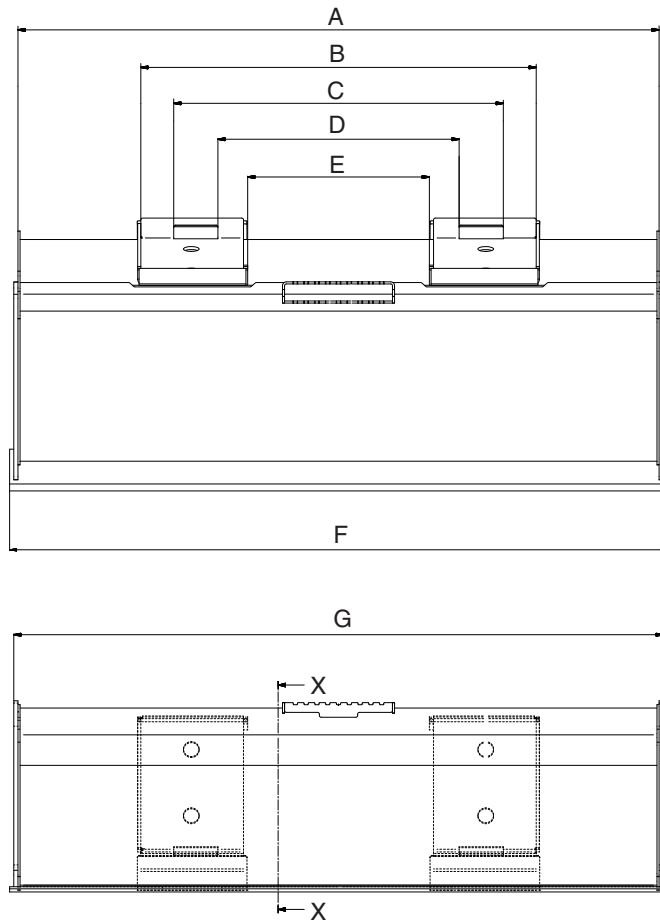
- A Bucket and tilt link
- B Bucket and boom
- C Tilt lever and tilt link
- D Tilt lever and boom
- E Boom and lift cylinder
- F Lift lever and boom
- G Lift lever and tilt cylinder
- H Lift lever and lift link
- I Frame and tilt link
- J Frame and boom
- K Frame and lift cylinder
- L Stabilizer and frame
- M Stabilizer and foot
- N Upper swing post
- O Lower swing post
- P Swing post and swing cylinder
- Q Swing post and boom
- R Swing post and boom cylinder
- S Boom and arm cylinder
- T Boom and arm
- U Arm and arm cylinder
- V Arm and bucket cylinder
- W Arm and control link
- X Control link and bucket cylinder
- Y Control link and bucket link
- Z Bucket and bucket link

Unit : mm (inch)

Model	Measuring point	Normal value	Pin		Bushing	
			Recommended service limit	Limit of use	Recommended service limit	Limit of use
H930S H940S H930C H940C	A, B, C, D, E, F, G, H	45 (1.77)	44 (1.73)	43.5 (1.71)	45.5 (1.79)	46 (1.81)
	I, J	60 (2.36)	59 (2.32)	58.5 (2.30)	60.5 (2.38)	61 (2.40)
	K	50 (1.97)	49 (1.93)	48.5 (1.91)	50.5 (1.99)	51 (2.01)
	L	44 (1.73)	43 (1.69)	42.5 (1.67)	44.5 (1.75)	45 (1.77)
	M	46 (1.81)	45 (1.77)	44.5 (1.75)	46.5 (1.83)	47 (1.85)
	N, O	70 (2.76)	69 (2.72)	68.5 (2.70)	70.5 (2.78)	71 (2.80)
	P	55 (2.17)	54 (2.13)	53.5 (2.11)	60.5 (2.38)	61 (2.40)
	Q, R, S, T, U	60 (2.36)	59 (2.32)	58.5 (2.30)	60.5 (2.38)	61 (2.40)
	V, W, X, Y, Z	45 (1.77)	44 (1.73)	43.5 (1.71)	5.5 (0.22)	46 (1.81)

ATTACHMENT SPECIFICATION

1. Standard Bucket Dimensions (0.44 m³ / 0.58 yd³)

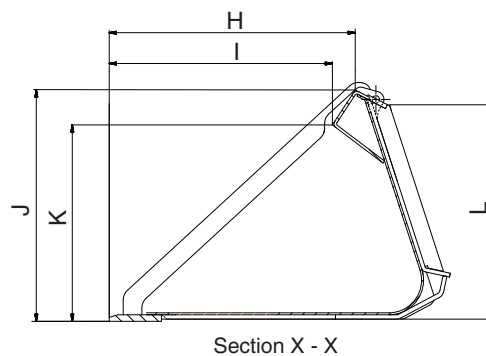
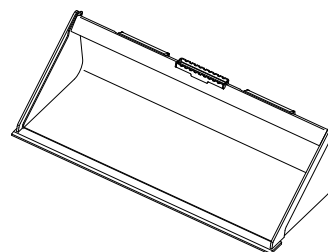
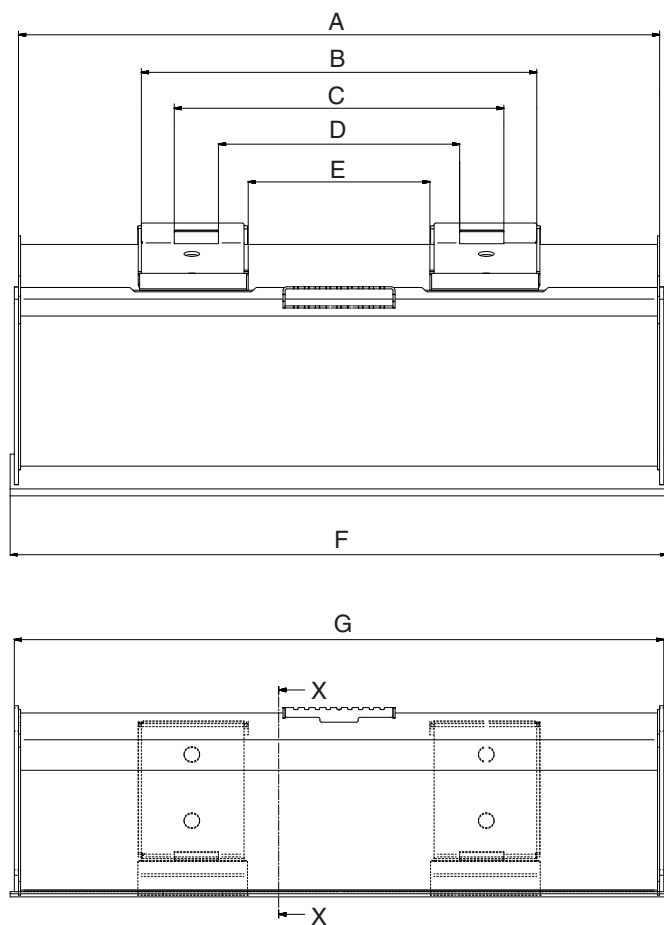


Unit : mm
inch

Model	Dimensions											
	A	B	C	D	E	F	G	H	I	J	K	L
HT100V	1842	1136	947	693	522	1890	1866	565.5	512.9	531.8	451.5	490.3
HS120V	72.5	44.7	37.3	27.3	20.6	74.4	73.5	22.3	20.2	20.9	17.8	19.3

ATTACHMENT SPECIFICATION

2. Standard Bucket Dimensions (0.40 m³ / 0.52 yd³)

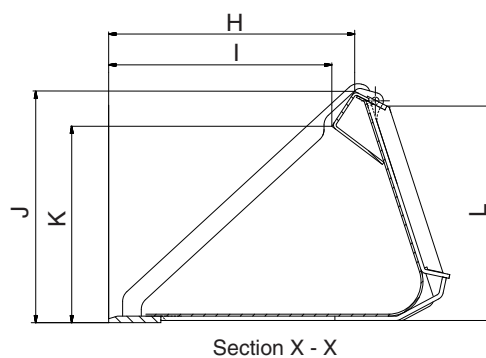
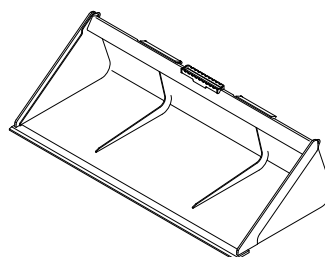
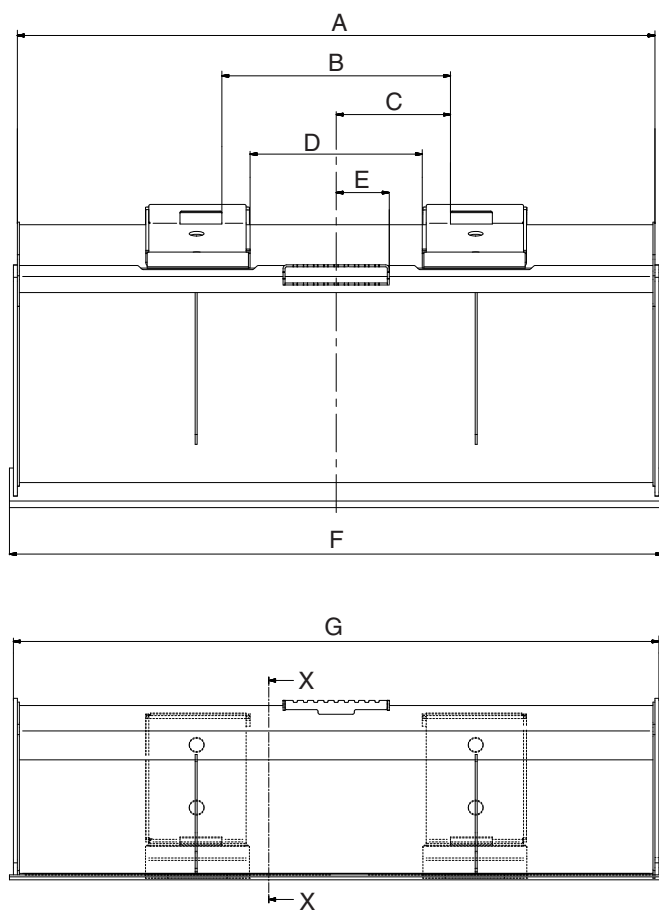


Unit : mm
inch

Model	Dimensions											
	A	B	C	D	E	F	G	H	I	J	K	L
HS80V	1682	1136	947	693	522	1730	1706	565.5	512.9	531.8	451.5	490.3
	66.2	44.7	37.3	27.3	20.6	68.1	67.2	22.3	20.2	20.9	17.8	19.3

ATTACHMENT SPECIFICATION

3. Wide Bucket Dimensions (0.56 m³ / 0.73 yd³)

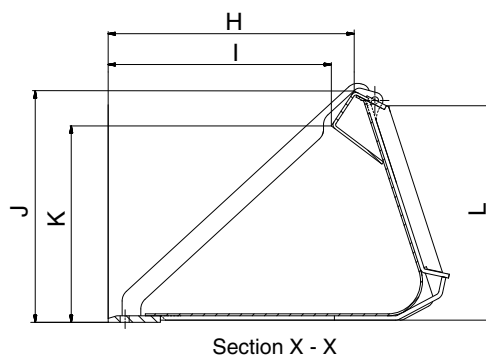
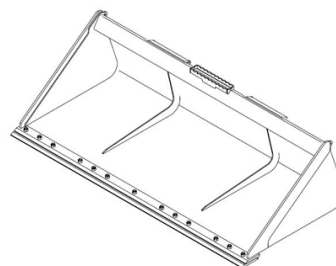
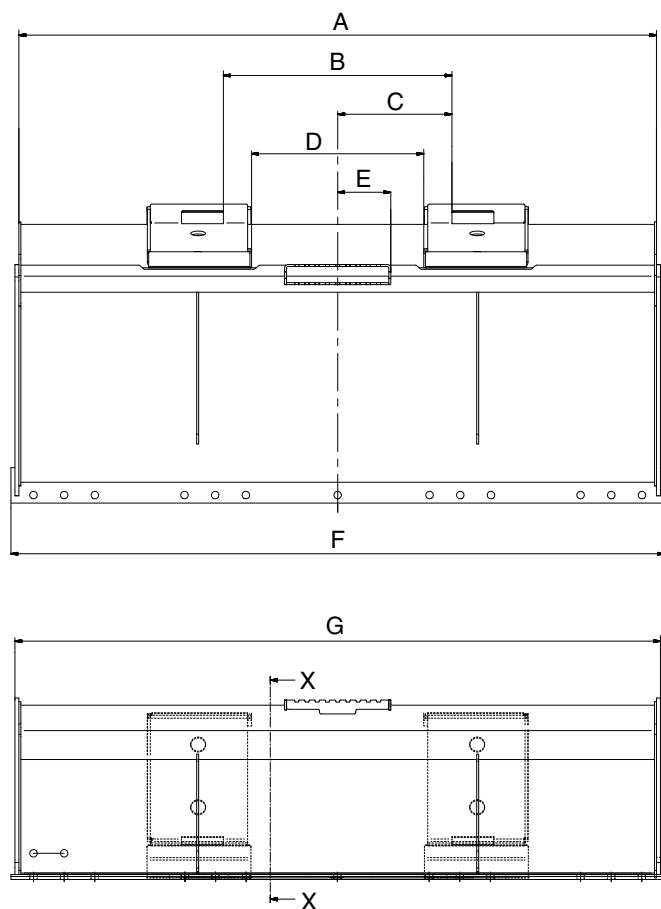


Unit : mm
inch

Model	Dimensions											
	A	B	C	D	E	F	G	H	I	J	K	L
HT100V	1933	693	346.5	522	161	1981	1957	700.8	648.2	531.8	451.5	490.3
HS120V	76.1	27.3	13.6	20.6	6.33	78.0	77.0	27.6	25.5	20.9	17.8	19.3

ATTACHMENT SPECIFICATION

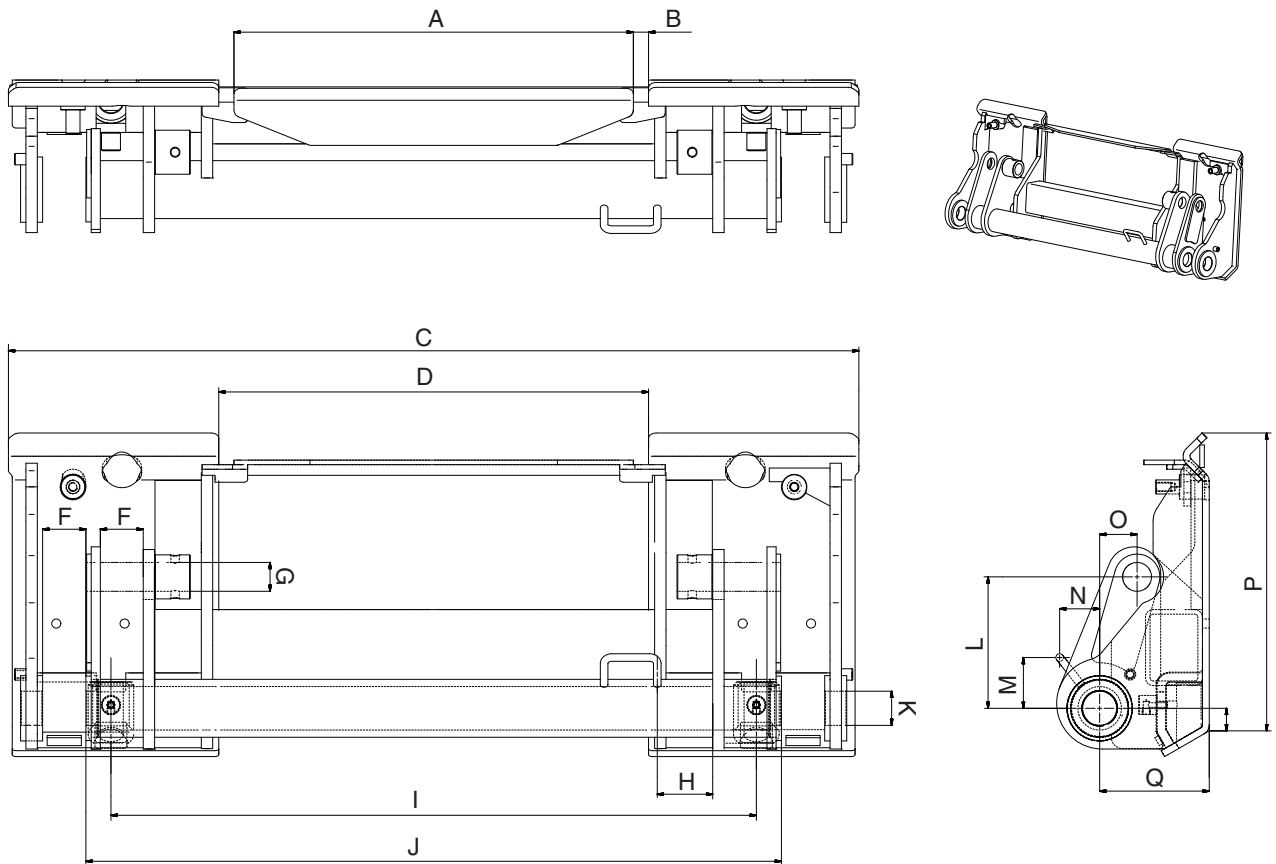
4. Wide Bucket + Bolt-on Cutting Edge Dimensions (0.56 m³ /0.73 yd³)



Unit : mm
inch

Model	Dimensions											
	A	B	C	D	E	F	G	H	I	J	K	L
HT100V	1933	693	346.5	522	161	1981	1957	700.8	648.2	531.8	451.5	490.3
HS120V	76.1	27.3	13.6	20.6	6.33	78.0	77.0	27.6	25.5	20.9	17.8	19.3

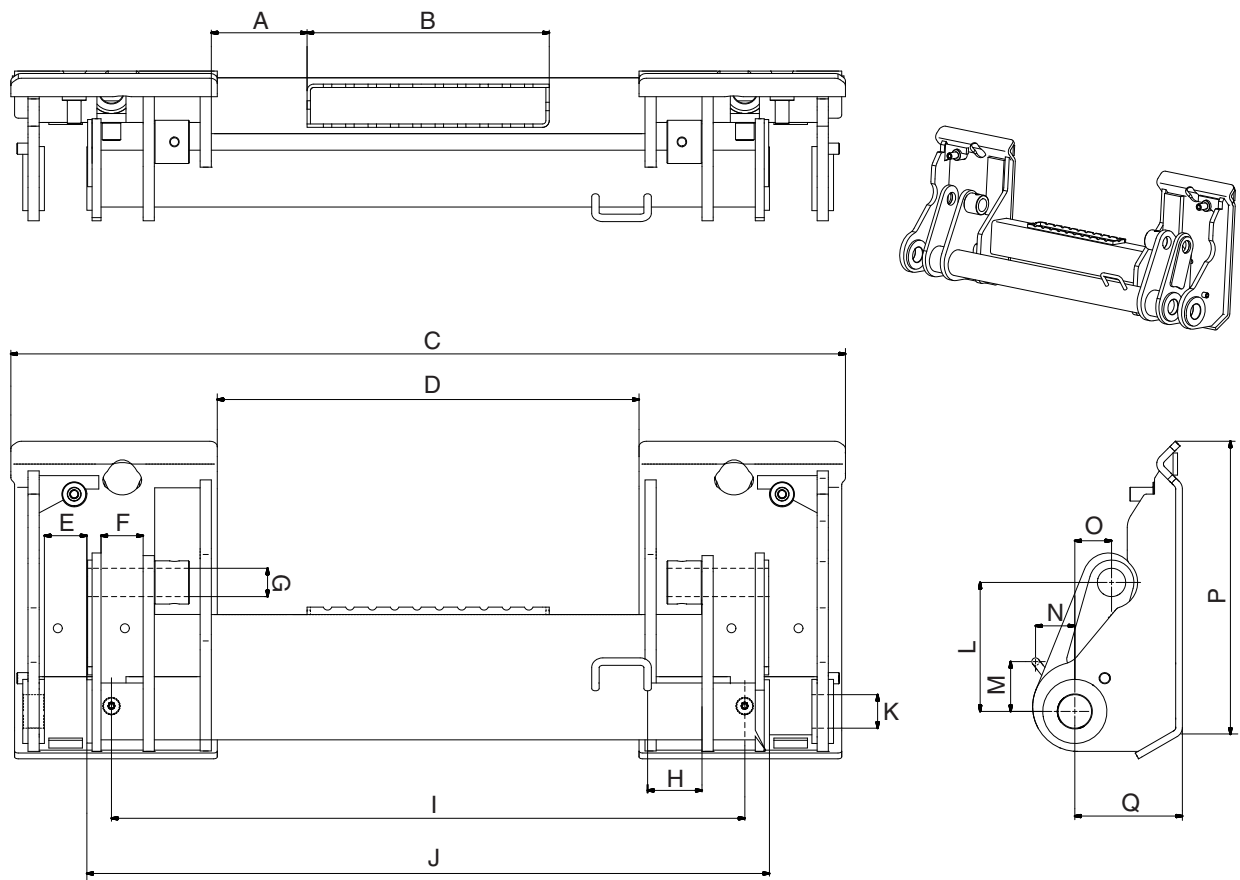
5. Quick Coupler Dimensions (Hydraulic Type)



Unit : mm
inch

Model	Dimensions																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
HS80V	526	20	1120	566	57	56.5	Ø38	73	850	916	Ø45	173.1	66.9	52.7	49.3	392.3	144.3
HS120V																	
HT100V	20.7	0.79	44.1	22.3	2.24	2.22	Ø1.5	2.87	33.5	36.1	Ø1.8	6.81	2.63	2.07	1.94	15.4	5.68

6. Quick Coupler Dimensions (Mechanical Type)



Unit : mm
inch

Model	Dimensions																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
HS80V HS120V HT100V	128.5	325	1120	566	57	56.5	Ø38	73	850	916	Ø45	173.1	66.9	52.7	49.3	392.3	144.3
	5.06	12.8	44.1	22.3	2.24	2.22	Ø1.5	2.87	33.5	36.1	Ø1.8	6.81	2.63	2.07	1.94	15.4	5.68