

TILLER ARM

The Tiller Arm serves a very important function. It converts the linear motion on a steering cylinder into the rotary motion of the rudder stock.

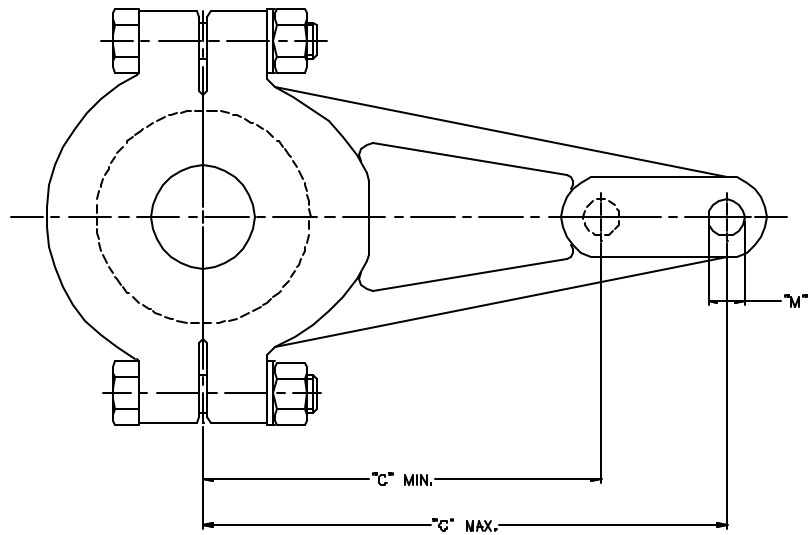
It is, therefore, very important that the Tiller Arm is of sufficient strength to withstand all the pounding, mechanical and hydraulic force imposed on it under severe conditions.

Stock Tiller Arms are available from Kobelt in many shapes and sizes. We also manufacture custom made Tiller Arms, especially for bigger applications where we are working to specific rudder stock dimensions and large cylinders.

When machining a split Tiller Arm, it is important that shims are placed between the halves. This will allow the clamping pressures to be applied to the rudder stock. The keyways must also be machined on size and parallel to the shaft. No lost motion should exist between the Tiller Arm and the rudder stock.

This is especially important when a Full Power Follow-Up hydraulic system is installed such as our Model 7148. It is recommended to periodically check all bolts pertaining to the Tiller Arm and Steering Cylinder to ensure that they are tight and that all components are in good working order.

Material: Cast Steel

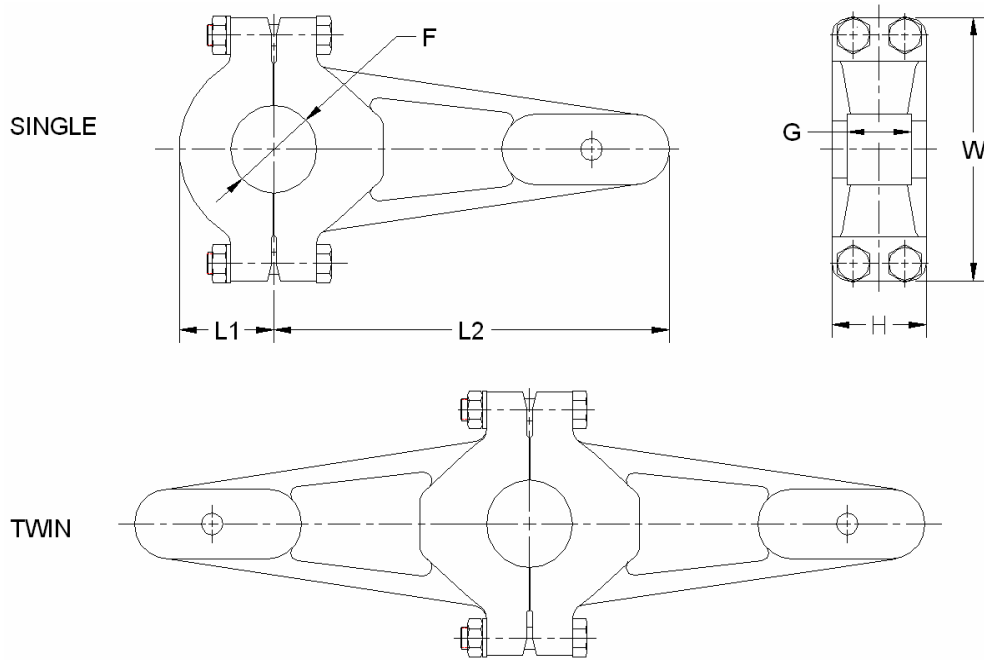


TILLER ARM TYPE	"C" MIN.		"C" MAX.		"M"		REMARK
	in	mm	in	mm	in	mm	
7041	6.375	162	8.540	166	5/8	15.9	
7042	8.375	213	8.720	221	5/8	15.9	
7051	4.790	122	8.625	168	3/4	19.1	
7052	7.850	199	10.460	266	3/4	19.1	
7054	6.813	173	8.720	222	3/4	19.1	
7085	9.590	244	14.14	359	7/8	22.2	
7081	6.00	152	7.070	180	1	25.4	
7082	7.750	197	10.610	269	1	25.4	
7083	6.00	203	12.50	318	1	25.4	
7084	10.50	267	13.95	354	1	25.4	
7086	13.50	343	17.750	451	1 1/4	31.8	
7093-S	10.472	266	13.95	354	1 3/4	44.5	12" & 16" X 35"
7093-L	17.43	443	20.92	531	1 3/4	44.5	20" & 24" X 35"

STROKE		"C"(RA 35°)		"C"(RA 45°)	
in	mm	in	mm	in	mm
5.5	140	4.79	122	3.89	99
6.0	152	5.23	133	4.24	108
7.0	178	6.10	155	4.95	126
7.5	191	6.54	166	5.30	135
8.0	203	6.97	177	5.66	144
9.0	229	7.85	199	6.36	162
10.0	254	8.72	221	7.07	180
11.0	279	9.59	244	7.78	198
12.0	305	10.46	266	8.49	216
13.0	330	11.33	288	9.19	233
14.0	356	12.20	310	9.90	251
15.0	381	13.08	332	10.61	269
16.0	406	13.95	354	11.31	287
18.0	457	15.69	399	12.73	323
20.0	508	17.43	443	14.14	359
24.0	610	20.92	531	16.97	431

Contact Kobelt Manufacturing for more details

TILLER ARMS



Material: AISI 8630 Steel Casting

MODEL	L1		L2		W		H		G		F(MIN)		F(MAX)	
	in.	mm.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
7041	2	51	7 1/4	184	6 3/4	171	2 1/2	64	1 5/8	41	1	25	2 1/4	57
7042	2	51	9 3/8	238	6 3/4	171	2 1/2	64	1 5/8	41	1	25	2 1/4	57
7051	2 3/16	56	7 1/2	191	6 1/2	165	2 15/16	75	1 5/8	41	1	25	2 7/8	73
7052	2 7/8	73	11 3/8	289	8	203	3 5/16	85	2 3/16	56	1	25	3 1/2	89
7054	2 13/16	71	9 15/16	252	8	203	3 7/16	88	2 3/16	56	1 3/4	44	3 3/4	95
7065	3 1/2	89	15 1/2	394	9 3/4	248	4 1/2	114	2 3/8	60	2 1/2	64	5	127
7081	3	76	8 1/16	205	9 3/8	238	3 7/8	98	2 1/8	54	2 1/8	54	4 1/4	108
7082	3 7/16	87	11 13/16	300	9 3/4	248	4 1/2	114	2 9/16	65	2 1/4	57	4 3/4	121
7083	3 7/16	87	13 5/8	346	9 3/4	248	4 1/2	114	2 9/16	65	2 1/4	57	4 3/4	121
7084	4 3/16	106	15 5/16	389	11	279	4 1/2	114	2 11/16	67	3 1/4	83	5 1/2	140
7086	5 1/4	133	19 1/8	486	14	356	5 1/2	140	3 3/4	95	3 1/2	89	7 1/4	184
7093-S	4 7/8	124	16 15/16	431	12 3/4	324	4	102	4	102	3 1/2	89	7 1/2	191
7093-L	5 3/4	146	23	584	15	381	5 1/2	140	3 3/4	95	4	102	8	203

NOTE: The dimensions shown are for single tiller arms
For twin tiller arms the dimension "L2" must be doubled.