

MK4
Innovative Solutions

structural bar system

MKT460

 **FORTEC**

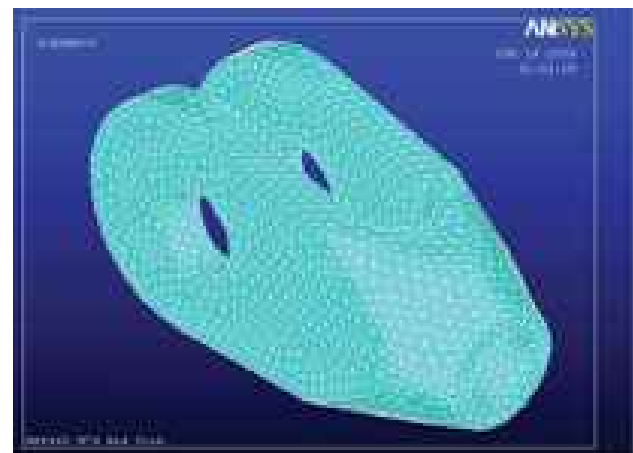
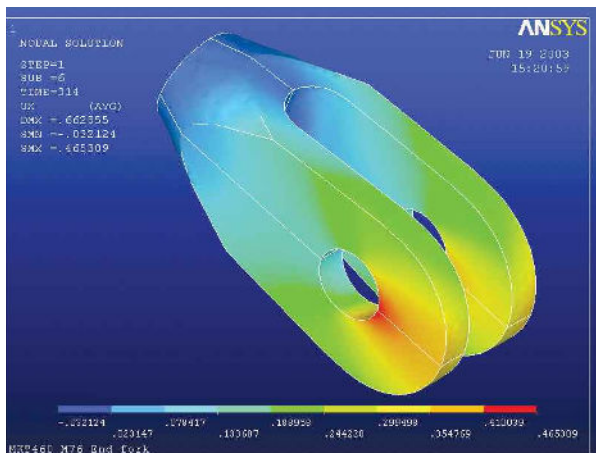


MeKano4 designs and manufactures the aesthetic MKT460 System, which is composed by structural tie rods for load transmission. Thanks to the combination of elegance and strength, the MKT460 System satisfies both architects and engineers requirements.

The MKT460 System has a wide range of products, which can be in both, carbon-steel and stainless steel. The material of the bars has a 460 N/mm^2 minimum yield stress that means it is 30% superior to that of S355 steel.

Thanks to the many available diameters (from M12 to M100), and to the different types of finishes, the MKT460 System offers a wide range of application possibilities in both outside and inside environments.

The MKT460 System is the system for the future. Its application area is constantly being expanded in conventional structures and also in more modern structures.





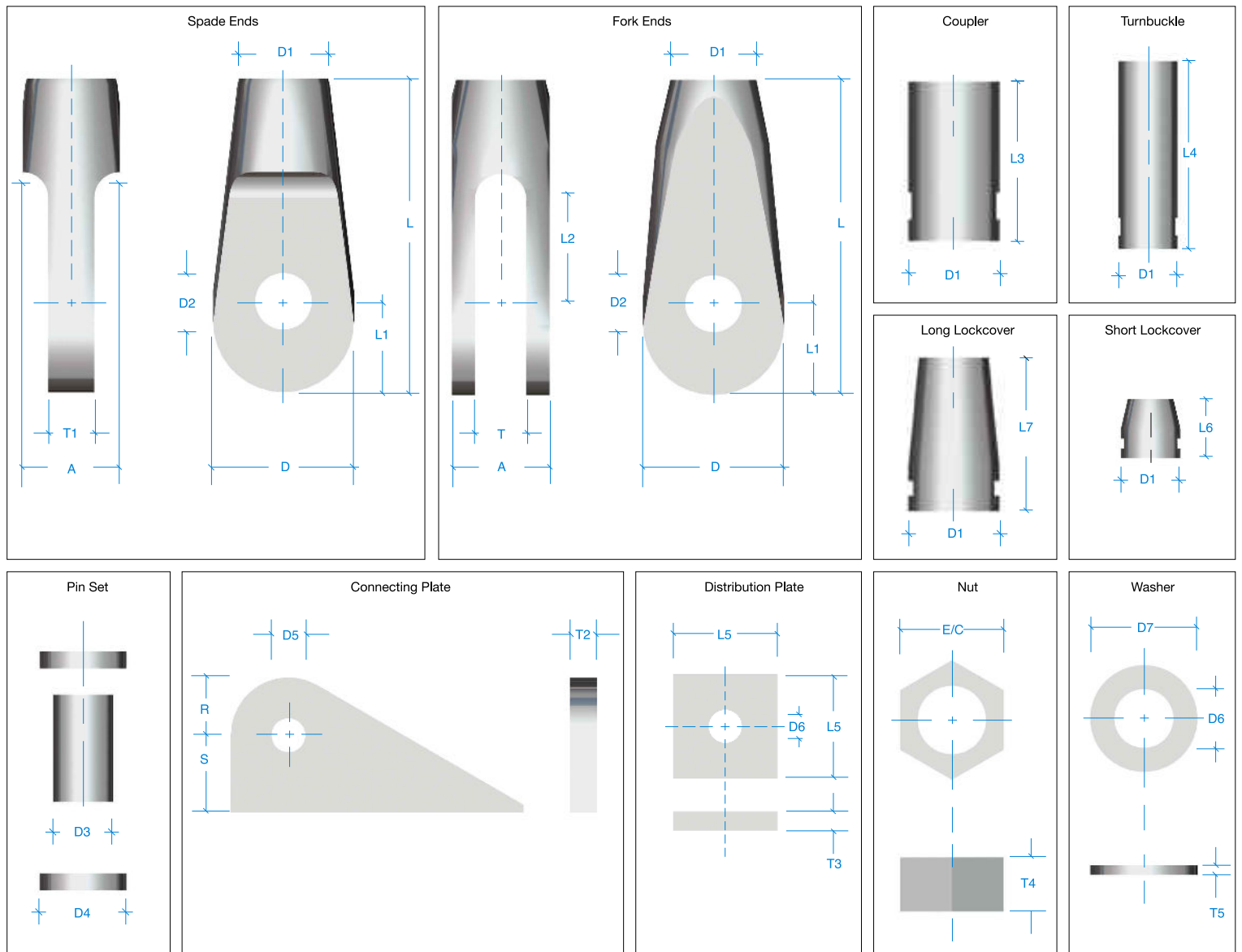
Technical Specifications MKT460 SYSTEM Stainless Steel



	M12	M16	M20	M24	M30	M36	M42
Yield Load (Design load)	kN 39	72	112	162	258	375	515
Ultimate Load (Break load)	kN 51	95	149	215	342	498	683
Nominal Area	mm ² 84,3	157	245	353	561	817	1.121
Weight	kg/m 0,65	1,23	2,23	2,99	4,84	6,72	9,38
Yield Stress (R _e)	N/mm ² 460	460	460	460	460	460	460
Ultimate Stress (R _m)	N/mm ² 610	610	610	610	610	610	610
Elongation	% 20	20	20	20	20	20	20
Maximum Single Bar Length	m 6	6	7,5	7,5	7,5	7,5	7,5

Bar Specifications	Grade 316 Stainless Steel (1.4404) Cold Drawn, according to BS970/3: 1991 Resilience: 27 J at -20°C
Thread Specifications	Rolled metric according to BS 3643:1981
Surface Finishes	Satin Bright polished

Bar Length Adjustment (Pin-Pin)	M12	M16	M20	M24	M30	M36	M42
Fork-Fork	+/- mm 15	15	15	20	20	20	25
Per Turnbuckle	+/- mm 25	25	50	50	50	50	50



General Dimensions Chart

Mod.	Spade and Fork Ends									Pin Set		Coupler and Lockcover					Connecting Plate					Distribution Plate				Nut		Washer				
	A	D	D1	D2	L	L1	L2	T	T1	D3	D4	D1	L3	L4	L6	L7	R	S	T2	D5	D6	L5	T3	E/C	T4	D7	D6	T5				
M12	24	32	18	13	90	21	25	14	10	12	20	18	37	70	25	30	25	40	10	14	13	40	10	20	10	25	13	3				
M16	28	43	22	17	112,5	27,5	30	16	12	16	25	22	45	85	26	33	30	45	12	18	17	50	10	24	13	30	17	3				
M20	35	51	29	21	132	33	42,5	19	16	20	32	29	53	144	40	78	40	50	15	22	21	70	15	30	16	37	21	3				
M24	42	62	35	25	155	41	50	24	20	24	35	35	64	155	45	84	50	60	20	26	25	80	15	36	19	44	25	4				
M30	52	79	43	31	189	52	59	30	25	30	50	43	75	170	50	87	60	75	25	32	31	100	20	46	24	56	31	4				
M36	64	93	52	37	217	61	69	36	30	36	55	52	89	180	55	93	70	85	30	38	37	120	20	55	29	66	37	5				
M42	74	107	60	43	238	69	78,5	39	35	42	60	60	100	195	60	102	75	100	35	44	43	135	25	65	34	78	43	7				
M48	84	121	68	49	266	78	87	44	40	48	60	68	115	210	60	105	85	110	40	50	49	150	30	75	38	92	49	8				
M56	95	145	80	57	313	96	105,5	49	45	56	70	80	135	230	75	106	105	135	45	58	57	175	35	85	45	105	57	9				
M64	120	167	91	65	348	110	120,5	59	55	64	86	91	145	240	85	112	120	150	55	66	65	200	40	100	50	118	65	9				
M76	148	199	108	78	420	131	141	76	70	76	100	108	165	268	91	118	140	180	70	78	77	240	45	115	55	140	77	10				
M90	170	246	129	96	498	161	171	86	80	94	120	129	195	290	126	153	170	220	80	96	92	280	55	135	70	160	92	10				
M100	181	287	143	111	575	188	198	91	90	109	140	143	215	315	134	160	195	250	85	111	102	320	60	150	75	180	102	10				

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