









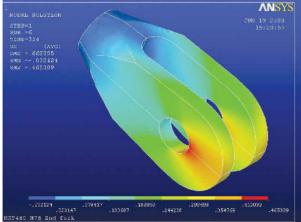
MeKano4 designs and manufactures the aesthetic MKT460 System, which is composed by structural tie rods for load transmission. Thanks to the combination of elegance and strength, the MKT460 System satisfies both architects and engineers requirements.

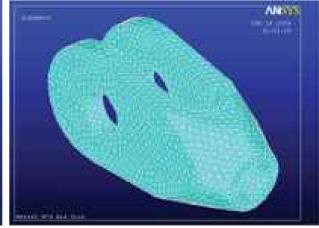
The MKT460 System has a wide range of products, which can be in both, carbon-steel and stainless steel. The material of the bars has a 460 N/mm² minimum yield stress that means it is 30% superior to that of S355 steel.

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** Carbon Steel

		M12	M16	M20	M24	M30	M36	M42	M48	M56	M64	M76	M90	M100
Yield Load (Design load) Ultimate Load (Break load) Nominal Area Weight Yield Stress (Re) Ultimate Stress (Rm) Elongation Maximum Single Bar Length	kN kN mm ² kg/m N/mm ² N/mm ² %	30 51 84,3 0,65 355 610 20	56 95 157 1,23 355 610 20	112 149 245 2,23 460 610 19	162 215 353 2,99 460 610 19	258 342 561 4,84 460 610 19	375 498 817 6,72 460 610 19	515 683 1.121 9,38 460 610 19	677 898 1.473 12,21 460 610 19	933 1.238 2.030 16,68 460 610 19	1.231 1.632 2.676 21,47 460 610 19	1.768 2.345 3.844 31,08 460 610 19	2.547 3.377 5.537 45,60 460 610 19	3.188 4.228 6.932 56,83 460 610 19
Bar Specifications Thread Specifications Surface Finishes	Grade 460 according to BS EN 1025-1, steel S355J2G3 modified M12 & M16 according to BS EN 10025-1, steel S355J2G3 Resilience 27 J at -20°C Rolled metric threads to BS 3643:1981 Self-colour Shot Blast and Primed Painted Galvanised													
Bar Length Adjustment (Pin-Pin) Fork-Fork Per Turnbuckle	+/- mm +/- mm	M12 15 25	M16 15 25	M20 15 50	M24 20 50	M30 20 50	M36 20 50	M42 25 50	M48 25 50	M56 - 50	M64 - 50	M76 - 50	M90 - 50	M100 - 50







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 (Re)	N/mm ²	460	460	460	460	460	460	460	
Ultimate Stress (Rm)	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	



Resilience: 27 J at –20°C
Rolled metric according to BS 3643:1981

Surface Finishes

Bar Specifications

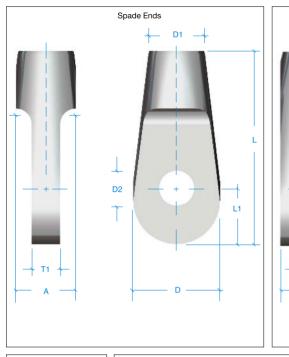
Thread Specifications

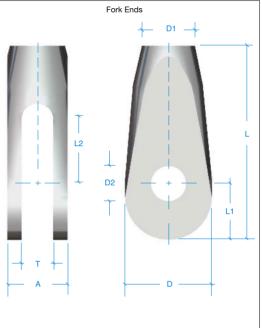
Satin Bright polished

	M12	M16	M20	M24	M30	M36	M42	
+/- mm	15	15	15	20	20	20	25	
+/- mm	25	25	50	50	50	50	50	
			+/- mm 15 15	+/- mm 15 15 15	+/- mm 15 15 15 20	+/- mm 15 15 15 20 20	+/- mm 15 15 15 20 20 20	+/- mm 15 15 15 20 20 20 25

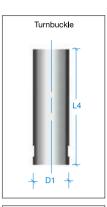
MKT460 FITTINGS





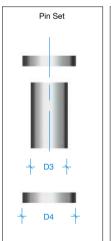


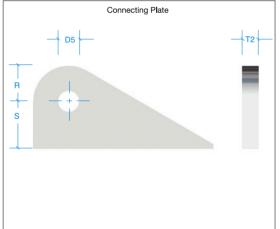


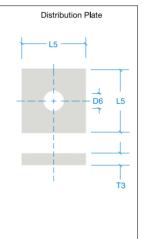




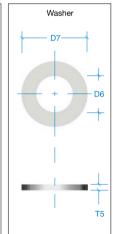












General Dimensions Chart

Mod.	Mod. Spade and Fork Ends							Pin Set Coupler and Lockover					Connecting Plate				Distribution Plate			Nut		Washer		: r				
	Α	D	D1	D2	L	L1	L2	Т	T1	D3	D4	D1	L3	L4	L6	L7	R	S	T2	D5	D6	L5	Т3	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



MKT460
STRUCTURAL BAR SYSTEM







