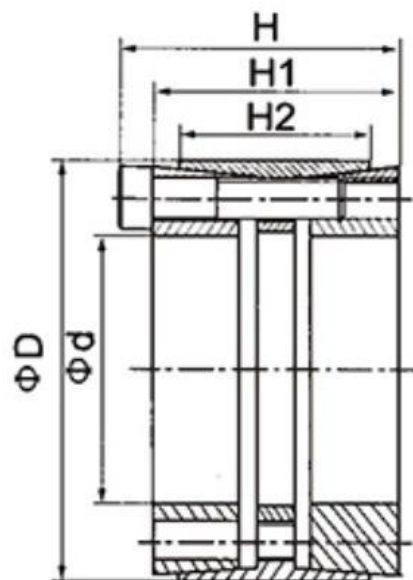


Z12(A/B/C) Type Locking Assembly Dimension Technical Data Table



Dimensions						Hexagon Socket Screw		Rated Load		Pf N/m ²	Pf' N/mm ²	MA N·m	kg
Model = d*D	d	D	H2	H1	H	d1	n	Ft KN	Mt KN·m				
	mm												
Z12A-25X55	25	55	32	40	46	M6	6	67	0.84	297	101	17	0.47
Z12A-28X55	28								0.94	265	101		0.44
Z12A-30X55	30								1.0	248	101		0.42
Z12A-35X60	35	60	44	54	60	M8	7	74	1.3	165	87	41	1.0
Z12A-40X75	40	75	44	54	62			145	2.9	282	116		1.1
Z12A-45X75	45	75	44	54	62		145	3.26	251	116	1.2		
Z12A-50X80	50	80	56	64	72		8	165	4.15	200	98		1.4
Z12A-55X85	55	85					9	186	5.15	205	104		1.6
Z12A-60X90	60	90					10	207	6.2	202	106		1.7
Z12A-65X95	65	95					10	207	6.75	187	100		1.9
Z12A-70X110	70	110	70	78	88	M10	10	329	11.5	223	114	83	3.1
Z12A-80X120	80	120					11	362	14.5	215	115		3.5
Z12A-90X130	90	130					12	390	17.8	208	115		3.8
Z12A-100X145	100	145	90	100	112	M12	14	527	26.3	200	107	145	6.1
Z12A-110X155	110	155					17	575	31.8	198	110		6.6
Z12A-120X165	120	165					18	670	40.4	212	120		7.2
Z12A-130X180	130	180	104	116	130	M14	16	759	49	180	112	230	11.1

Z12A-140X190	140	190					18	842.8	59	186	124		11.8
Z12A-150X200	150	200					19	896.6	67	185	127		12.6
Z12A-160X210	160	210					20	950	76	183	128		13.4
Z12A-170X225	170	225	134	146	162	M16	19	1223.5	104	172	113	355	19.6
Z12A-180X235	180	235					20	1288.8	116	172	115		20.6
Z12A-190X250	190	250					21	1363	129.5	172	116		23.8
Z12A-200X260	200	260					22	1437.5	143.7	172	112		24.9
Z12A-220X285	220	285					24	1581.8	174	172	115		29.6
Z12A-240X305	240	305	165	177	197	M20	26	1725	207	172	119	690	31.9
Z12A-260X325	260	325					28	1846	240	170	117		34.3
Z12A-280X355	280	355					24	2428.5	340	168	117		52
Z12A-300X375	300	375					25	2540	381	161	123		55.3
Z12A-320X405	320	405					28	2881	461	175	119		67.3
Z12A-340X425	340	425	190	202	224	M22	29	2994	509	171	119	930	71
Z12A-360X455	360	455					28	3588.8	646	169	115		96.5
Z12A-380X475	380	475					30	3821	726	170	115		101.2
Z12A-400X495	400	495					31	3960	792	168	120		106
Z12A-420X515	420	515					32	4100	861	165	116		110.7
Z12A-440X535	440	535					24	4260	937	165	112		110
Z12A-460X555	460	555					24	4260	980	158	107		113
Z12A-480X575	480	575					28	5000	1200	176	121		118
Z12A-500X595	500	595					28	5000	1240	169	117		122
Z12A-520X615	520	615					30	5330	1390	174	121		126
Z12A-540X635	540	635					30	5330	1440	168	117		131
Z12A-560X655	560	655					32	5680	1590	172	121		135
Z12A-580X675	580	675					33	5860	1705	172	121		140
Z12A-600X695	600	695					33	5860	1760	166	118		144

Note: The mechanical property grade of screws
for Z12A type locking assembly is 12.9

Dimensions						Hexagon Socket Screw		Rated Load		Pf N/mm ²	Pf' N/mm ²	MA N·m	kg		
Model = d*D	d	D	H2	H1	H	d1	n	Ft kN	Mt kN·m						
Z12B-70X110	70	110	50	60	70	M10	8	204	7.15	194	107	83	2.3		
Z12B-80X120	80	120					10	250	10.25	212	123		2.5		
Z12B-90X130	90	130					11	280	12.6	207	125		2.7		
Z12B-100X145	100	145	60	70	82	M12	10	372	18.6	205	126	145	4.1		
Z12B-110X155	110	155					10	372	20.5	187	118		4.4		
Z12B-120X165	120	165					11	408	24.5	188	122		4.8		
Z12B-130X180	130	180	65	79	91		14	520	33.8	197	128		6.3		
Z12B-140X190	140	190					15	557	39.0	196	130		6.6		
Z12B-150X200	150	200					15	557	41.8	183	123		7.8		
Z12B-160X210	160	210					16	593	47.5	183	125		9.4		
Z12B-170X225	170	225	78	92	106		M14	15	764	65.0	193		133	230	10.7
Z12B-180X235	180	235						15	765	69.0	182		127		11.3
Z12B-190X250	190	250	88	102	116	16		815	77.5	163	103	14.6			
Z12B-200X260	200	260				20		1020	102	194	124	15.3			
Z12B-220X285	220	285	96	108	124	M16	15	1060	117	174	113	355	20.2		
Z12B-240X305	240	305					20	1410	170	212	140		21.8		
Z12B-260X325	260	325					21	1480	193	205	138		23.4		
Z12B-280X355	280	355	124	110	130	M20	15	1650	232	213	141	690	30.0		
Z12B-300X375	300	375					15	1650	249	198	134		31.2		
Z12B-320X405	320	405					20	2210	354	191	125		48.0		
Z12B-340X425	340	425					20	2210	376	180	119		51.0		
Z12B-360X455	360	455	140	155	177	M22	20	2750	496	185	118	930	69.0		
Z12B-380X475	380	475					20	2750	524	175	113		73.0		
Z12B-400X495	400	495					22	3010	602	183	122		76.0		
Z12B-420X515	420	515					24	3300	694	190	127		80.0		
Z12B-440X535	440	535					24	3300	728	166	123		81		
Z12B-460X555	460	555					24	3300	760	159	118		85		
Z12B-480X575	480	575					25	3440	830	159	119		88		
Z12B-500X595	500	595					25	3440	861	153	115		91		
Z12B-520X615	520	615					28	3850	1003	164	124		95		
Z12B-540X635	540	635					28	3850	1042	158	120		98		
Z12B-560X655	560	655					30	4130	1157	163	125		101		
Z12B-580X675	580	675					30	4130	1190	158	121		104		
Z12B-600X695	600	695					30	4130	1240	153	118		108		

Note: The mechanical property grade of screws
for Z12B type locking assembly is 12.9

Dimensions							Hexagon Socket Screw		Rated Load		MA N·m	kg			
Model = d*D	d	D	H	H2	H1	e	d1	n	Ft KN	Mt KN·m					
	mm														
Z12C-140X230	140	230	95	60	74	7	M12×55	12	436	20.7	100	13			
			100						480	24.0					
			105						518	27.2					
Z12C-155X163	155	263	105	66	80	M12×60	15	545	28.6	20					
			110					591	32.5						
			115					633	36.4						
Z12C-165X290	165	290	115	72	88	8	M16×65	10	701	40.3	240	26			
			120						758	45.5					
			125						811	50.7					
Z12C-175X300	175	300	125						8	M16×80		15	832	52	29
			130										880	57.2	
			135										924	62.4	
Z12C-185X330	185	330	135	92	112	10	M16×80	15	1037	70		47			
			140						1100	77					
			145						1159	84					
Z12C-200X350	200	350	145						10	M16×90		20	1291	93	50
			150										1353	101.5	
			155										1409	109.2	
Z12C-220X370	220	370	160	114	134	M16×90	20	1625	130	240	65				
			165					1703	140.5						
			170					1776	151						
Z12C-240X405	240	405	170	12	144	M20×100	15	1835	156	470	87				
			180					1994	179.5						
			190					2137	203						
Z12C-260X430	260	430	190		136	160	M20×110	16	2242		213	100			
			200						2390		239				
			210						2542		265				
Z12C-280X460	280	460	210		148	172	M20×110	20	2686		282	132			
			220						2900		319				
			230						3087		355				
Z12C-300X485	300	485	230		152	176	M20×120		2965		341	140			
			240						3175		381				
			245						3273		401				
Z12C-320X520	320	520	240		160	184	M20×130	24	3317		398	165			
			250						3536		442				
			260						3738		486				
Z12C-340X570	340	570	250	17	200		M24×130	20	4080	510	820	240			

			260	6					4307	560		
			270						4519	610		
Z12C-360X590	360	590	280	18	204		M24×140		4707	659		250
			290	0					4931	715		
			295						5044	744		
Z12C-390X660	390	660	300	18	212		M24×140	24	5733	860		350
			310	8					5903	915		
			320						6063	970		
Z12C-420X690	420	690	330	21	238		M24×150	28	6182	1020		410
			340	4					6470	1100		
			350						6743	1180		
Z12C-460X770	460	770	360	22	252		M27×170	24	7222	1300		540
			370	4					7514	1390		
			380						7789	1480		
Z12C-500X850	500	850	400	24	274	14	M27×180	30	9400	1880	1210	750
			410	6					9659	1980		
			420						9905	2080		

Note: The mechanical property grade of screws
for Z12C type locking assembly is 12.9