

ASDO CROSS BRACING

ASDO tie bars can be used for cross bracing in a variety of ways but in all cases are easy to install and allow for In-Situ length adjustment to accommodate construction tolerances. When selecting a bracing system the accessibility for installation and overall cost should be considered as well as the aesthetics. The three most common types are shown opposite:

PRODUCT DATA



ASDO bracing with centre disc

This is the most common system used as it offers the greatest flexibility and gives the best length adjustment capabilities. It should be considered that double the number of clevises are required compared to the other systems.

ASDO bracing with cross turnbuckle

The cross turnbuckle can offer a more cost effective alternative to the centre disc, dependent on size, but gives limited in-situ adjustment. Further turnbuckles can be added for greater adjustment. Two angles are offered, $40^\circ \leq \alpha_{CT} \leq 140^\circ$ degrees and $60^\circ \leq \alpha_{CT} \leq 120^\circ$ degrees

ASDO bracing with crossed bars

If the tie rods can be offset from each other (ie are not in the same plane) then bars can be crossed as above. This is the most cost effective solution requiring the least components but has limited adjustment. Turnbuckles can be added to provide greater adjustment.

CD Centre Disk $45^\circ \leq \alpha_{CD} \leq 135^\circ$

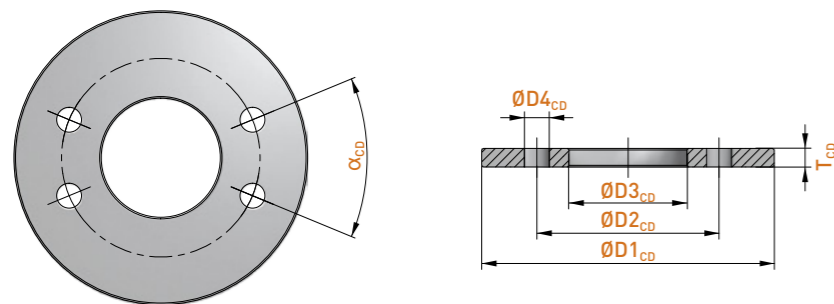
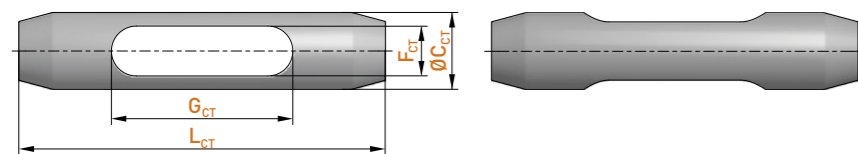


Table 6 - Dimensions for ASDO cross bracing connectors - grades ASD0350-S & ASD0540-S

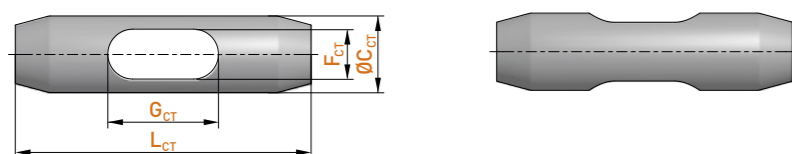
Nominal size	M12	M16	M20	M24	M27	M30	M36	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76	
CD Centere Disk $45^\circ \leq \alpha_{CD} \leq 135^\circ$	T _{CD}	10	15	15	20	20	25	30	35	35	40	40	45	50	55	55	60	65
	ØD1 _{CD}	170	215	255	300	335	370	445	520	555	595	635	680	740	785	825	870	930
	ØD2 _{CD}	110	140	170	200	225	250	300	350	375	400	430	460	500	530	560	590	630
	ØD3 _{CD}	60	80	100	120	135	150	180	210	225	240	260	280	300	320	340	360	380
	ØD4 _{CD}	13	17	21	25	28	32	38	44	47	50	54	58	62	66	70	74	78
Weight [kg]	1.5	3.6	4.9	9.0	11	17	30	47	54	71	80	103	136	168	185	224	279	

CT-40 Cross Turnbuckle $40^\circ \leq \alpha_{CT} \leq 140^\circ$



Nominal size	M12	M16	M20	M24	M27	M30	M36	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76	
CT-40 Cross Turnbuckle $40^\circ \leq \alpha_{CT} \leq 140^\circ$	ØC _{CT}	24	36	42	48	52	56	68	80	85	95	100	105	115	125	130	140	145
	L _{CT}	111	153	184	221	245	269	324	379	404	438	465	490	518	551	577	606	631
	+/-V _{CT}	12	16	20	24	27	30	36	42	46	48	50	50	50	50	50	50	50
	G _{CT}	57	81	94	111	123	133	162	189	200	220	235	250	268	289	305	326	341
	F _{CT}	16	20	24	30	33	36	44	52	55	58	64	68	72	78	82	88	92
	Weight [kg]	0.2	0.6	1.0	1.6	2.0	2.6	4.5	7.3	8.8	12	14	15	20	25	28	33	37

CT-60 Cross Turnbuckle $60^\circ \leq \alpha_{CT} \leq 120^\circ$



Nominal size	M12	M16	M20	M24	M27	M30	M36	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76
CT-60 Cross Turnbuckle $60^\circ \leq \alpha_{CT} \leq 120^\circ$	ØC _{CT}	-	-	-	-	-	-	80	85	95	100	105	115	125	130	140	145
	L _{CT}	-	-	-	-	-	-	306	326	352	374	393	414	439	458	479	499
	+/-V _{CT}	-	-	-	-	-	-	42	46	48	50	50	50	50	50	50	50
	G _{CT}	-	-	-	-	-	-	116	122	134	144	153	164	177	186	199	209
	F _{CT}	-	-	-	-	-	-	52	55	58	64	68	72	78	82	88	92
	Weight [kg]	-	-	-	-	-	-	6.6	8.0	10	12	14	14	18	22	25	30

All dimensions in mm unless noted otherwise
Stainless steel connectors available on request - please contact our sales department for more information