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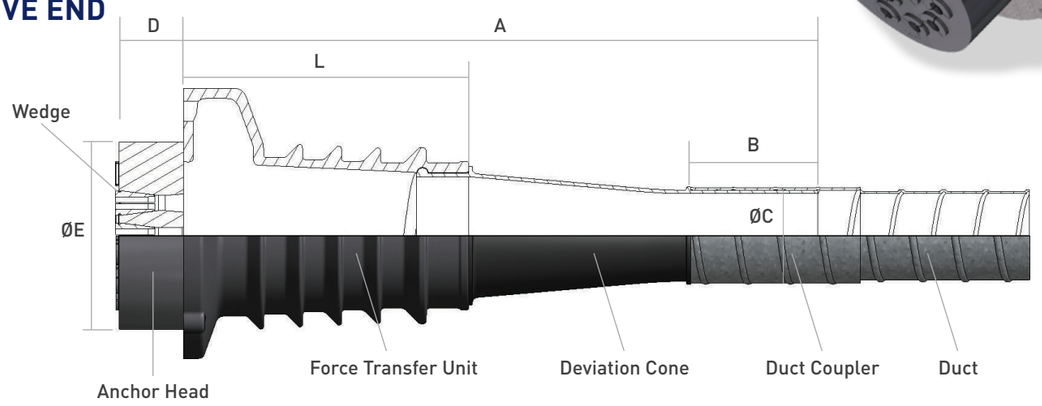
POST-TENSIONING SYSTEMS

XM SYSTEM

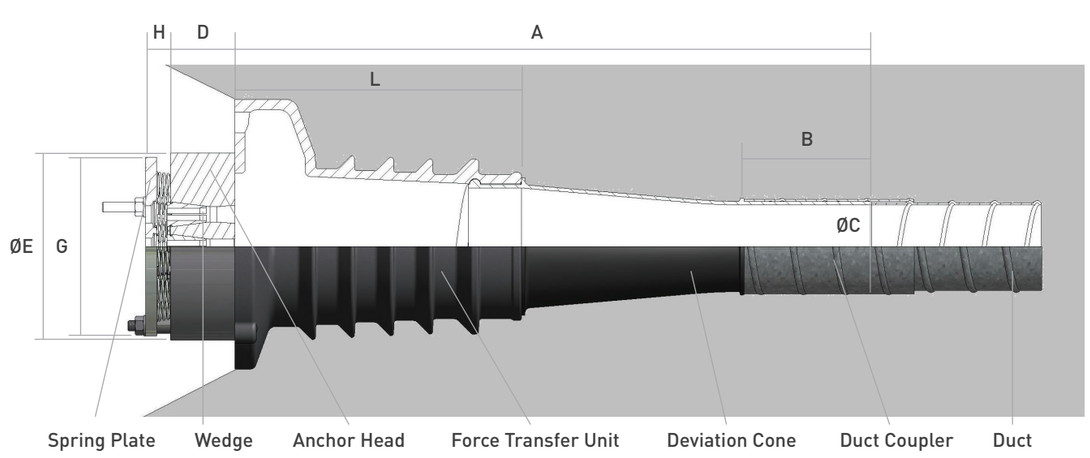
SPECIALISED ENGINEERED SOLUTIONS FOR STRUCTURES

XM SYSTEM

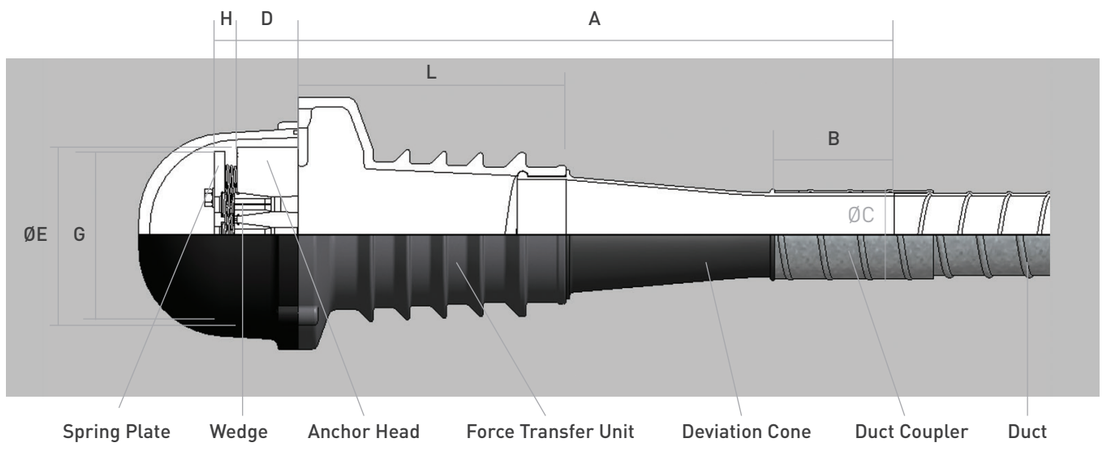
LIVE END



NON-ACCESSIBLE DEAD END



BURIED DEAD END

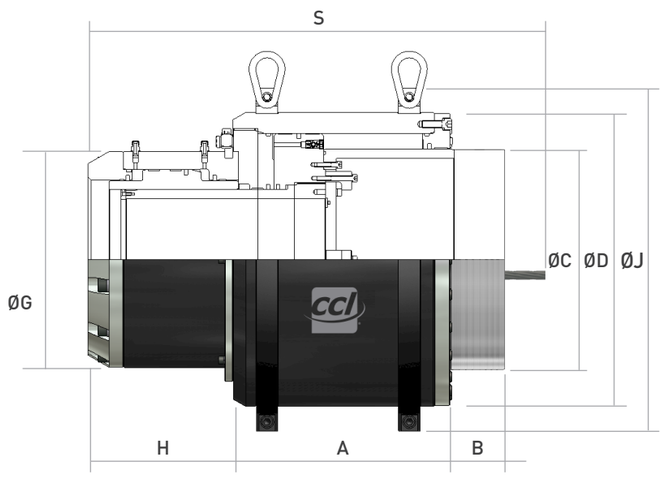


XM SYSTEM - 13 MM AND 15 MM TENDONS

Anchorage	No. of Strands 13/15 mm	A	B*	ØC	ØDuct**	D 13/15 mm	ØE	L	G	H	ØM
XM-10	4/3	234	70	48	55/60	40/45	95	160	95	29	130
XM-20	6/4	300	70	50	55/60	40/45	105	170	105	29	140
XM-30	9/7	362	100	64	70/75	43/48	130	228	130	29	168
XM-35	12/9	493	113	74	80/85	48/47	155	270	155	29	210
XM-40	18/12	629	113	74	80/85	62/54	180	275	180	29	236
XM-45	19/13	629	113	74	80/85	67/63	180	275	180	29	236
XM-50	22/15	693	130	84	90/95	69/60	195	310	195	29	253
XM-55	25/17	742	150	98	100/105	67/62	215	330	215	29	270
XM-60	27/19	749	150	98	100/105	76/76	220	337	220	29	280
XM-70	31/22	913	150	98	100/105	74/70	245	370	245	29	325
XM-75	37/25	1001	175	113	115/120	80/80	265	418	265	29	335
XM-80	40/27	1001	175	113	115/120	84/83	270	418	270	29	350
XM-90	46/31	1118	190	123	125/130	87/94	295	440	295	29	378
XM-95	51/35	1079	210	138	140/145	97/94	305	480	305	29	396
XM-100	55/37	1089	210	138	140/145	98/102	310	490	310	29	396

All dimensions in mm.
*B is the dimension for the straight part of the deviation cone that links to the duct through a duct coupler.
**Duct dimensions shown are for inside/outside diameter of metal ducts.
Plastic duct dimensions are shown in the Post-Tensioning Systems Civil Engineering brochure.

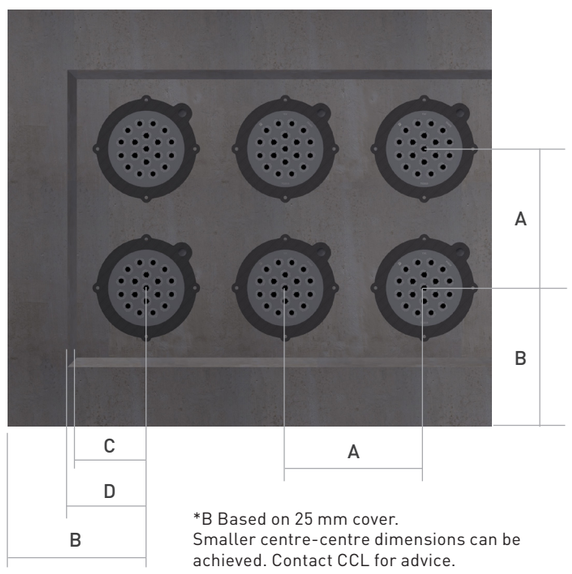
MG JACK DIMENSIONS



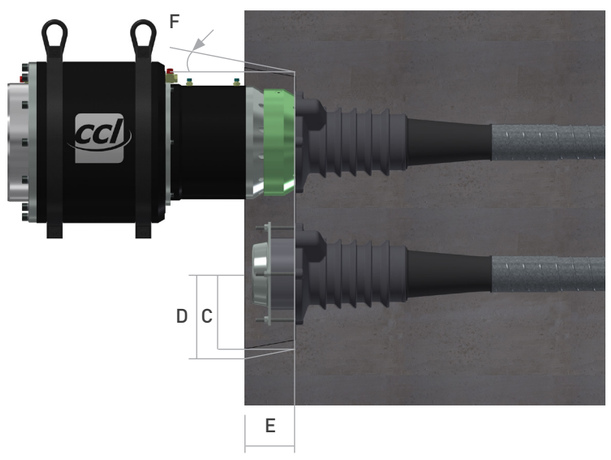
Jack Size	A	B*	ØC	ØD	ØJ	ØG	H ARI	H Non-ARI	S** min	Weight
1800MG	388	210	232	342	426	260	342	322	760	275 kg
3000MG	388	200	270	405	500	280	305	290	700	350 kg
4000MG	415	210	360	490	585	344	327	307	730	575 kg
6000MG	462	209	410	576	680	400	334	304	766	700 kg
7500MG	480	220	490	652	760	478	343	321	850	1150 kg

All dimensions in mm.
* Elongation stroke of jack.
** Minimum length of strand.

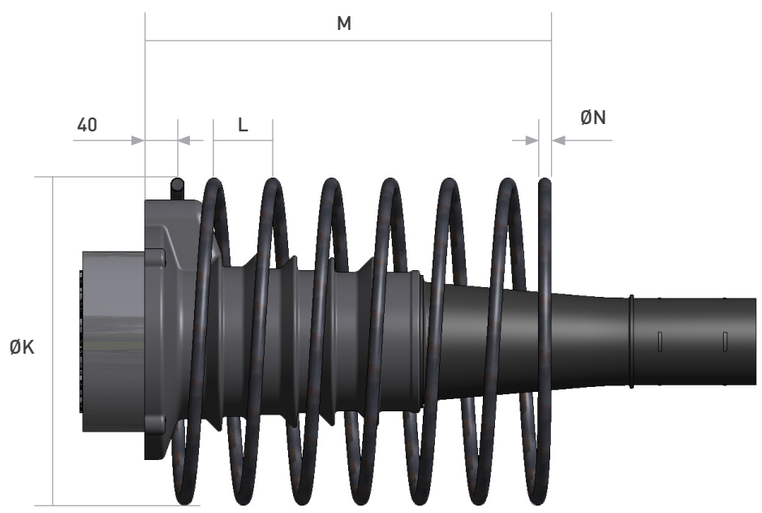
CRITICAL DIMENSIONS



*B Based on 25 mm cover.
Smaller centre-centre dimensions can be achieved. Contact CCL for advice.



**Pocket dimensions accommodate grout caps (steel non-encapsulating/ plastic encapsulating) and jack clearance for stressing. In some edge conditions for C36/46 concrete, where edge distance B is smaller than pocket dimensions C and D, the pocket cannot be accommodated.



Jack Size	Anchorage	No. of Strands 13 /15 mm	Anchor Centre-Centre and Edge Distances: Concrete Strength at Transfer (MPa) C25/30 A	C25/30 B*	C36/46 A	C36/46 B*	Pocket Dimensions**: C	Grout Cap: Non-encapsulating / Plastic Encapsulating D	Grout Cap: Non-encapsulating / Plastic Encapsulating E	F°	Jack Dimensions: ØG	H: Auto-release Innards	H: Non-Auto-release Innards	ØJ	Helical Reinforcement Dimensions, fyk = 500 MPa: Concrete Strength at Transfer (MPa) C25/30 ØK	C25/30 L	C25/30 M	C25/30 ØN	C36/46 ØK	C36/46 L	C36/46 M	C36/46 ØN
1800MG	XM-10	4/3	245	140	200	115	120	130	120	5	260	342	322	426	195	40	245	10	160	55	200	8
	XM-20	6/4	285	160	220	125	120	130	120	5	260	342	322	426	235	45	285	10	170	50	220	10
	XM-30	9/7	340	185	260	145	120	135	125	5	260	342	322	426	290	40	340	12	230	40	260	10
3000MG	XM-30	9/7	340	185	260	145	135	150	125	5	280	305	290	500	290	40	340	12	230	40	260	10
	XM-35	12/9	385	210	300	165	135	150/170	125/180	5	280	305	290	500	335	40	385	12	250	45	300	12
	XM-40	18/12	440	235	320	175	135	150/175	140/210	5	280	305	290	500	390	40	440	12	290	45	320	12
	XM-45	19/13	465	250	340	185	135	150/175	145/210	5	280	305	290	500	415	40	465	12	300	50	340	16
4000MG	XM-40	18/12	440	235	320	175	170	185/210	140/210	5	344	327	307	585	390	40	440	12	290	45	320	12
	XM-45	19/13	465	250	340	185	170	185/210	145/210	5	344	327	307	585	415	40	465	12	300	50	340	16
	XM-50	22/15	500	265	360	195	170	185/210	145/210	5	344	327	307	585	450	60	500	16	315	50	360	16
	XM-55	25/17	525	280	380	205	170	185/210	145/215	5	344	327	307	585	475	55	525	16	340	50	380	16
	XM-60	27/19	550	290	400	215	170	185/210	155/230	5	344	327	307	585	500	55	550	16	365	60	400	16
6000MG	XM-50	22/15	500	265	360	195	205	220/245	145/210	5	400	334	304	680	450	60	500	16	315	50	360	16
	XM-55	25/17	525	280	380	205	205	220/245	145/215	5	400	334	304	680	475	55	525	16	340	50	380	16
	XM-60	27/19	550	290	400	215	205	220/245	155/230	5	400	334	304	680	500	55	550	16	365	60	400	16
	XM-70	31/22	600	315	430	230	205	220/245	150/230	5	400	334	304	680	540	55	600	16	385	60	430	16
	XM-75	37/25	640	335	460	245	205	220/245	155/230	5	400	334	304	680	580	50	640	16	415	60	460	16
	XM-80	40/27	665	350	480	255	205	220/250	160/240	5	400	334	304	680	605	70	665	20	445	65	480	16
7500MG	XM-60	27/19	550	290	400	215	235	250/275	155/230	5	480	343	321	760	500	55	550	16	365	60	400	16
	XM-70	31/22	600	315	430	230	235	250/275	150/230	5	480	343	321	760	540	55	600	16	385	60	430	16
	XM-75	37/25	640	335	460	245	235	250/275	155/230	5	480	343	321	760	580	50	640	16	415	60	460	16
	XM-80	40/27	665	350	480	255	235	250/280	160/240	5	480	343	321	760	605	70	665	20	445	65	480	16
	XM-90	46/31	730	380	650	340	235	250/275	170/230	5	480	343	321	760	670	70	730	20	590	50	650	16
	XM-95	51/35	760	395	680	355	235	250/280	175/255	5	480	343	321	760	690	65	760	20	610	45	680	16
	XM-100	55/37	770	400	695	365	235	255/280	180/255	5	480	343	321	760	700	60	770	20	625	45	695	16

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