

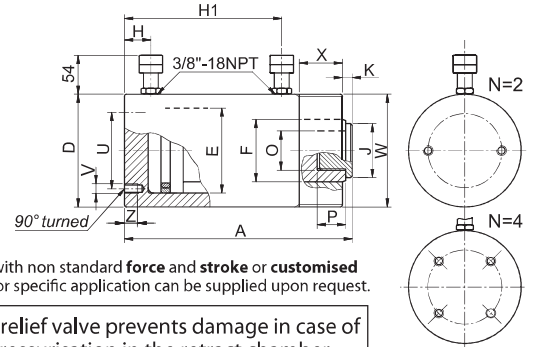
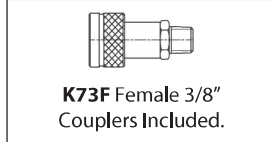
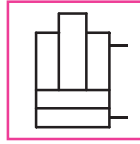
Double-Acting, Oil Return, Multi Purpose Cylinders

COI Series

Capacity:
10 - 500 tonnes

Stroke:
150 - 325 mm

Maximum Operating Pressure:
700 bar (10,000 psi)



Cylinders with non standard **force** and **stroke** or **customised versions** for specific application can be supplied upon request.

Safety relief valve prevents damage in case of over-pressurisation in the retract chamber.

- Superior Bearing Design reduces wear & prolongs life.
- Collar threads, piston rod internal threads & base mounting holes provides easy fixturing & adaptability.
- Operate in any directional position.
- Interchangeable hardened grooved saddle for load grip.
- Wiper seal prevents dirt penetration & extends cylinder working life.
- Nitride anti-corrosive treatment provides excellent corrosion & wear resistance in harsh environments.
- Double-acting operation for fast retraction.
- Lifting eyelets equipped on 30 tonnes & above models.
- Highly versatile, heavy duty cylinders designed for wide range of industrial applications with high-cycle usage.
- Ruggedly used for toughest construction jobs in underpass pushing, preloading & pile testing, heavy lifting/lowering, pipe jacking operations etc.



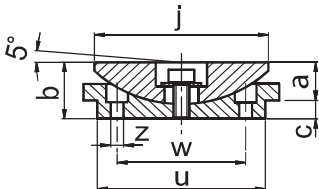
ZTT Tilt Saddle (Optional) – to reduce the effects of any off-centred loads. *Refer Details Below*

SELECTION CHART

Force (PUSH)	Force (PULL)	Stroke	Effective Area (PUSH)	Effective Area (PULL)	Oil Volume (PUSH)	Oil Volume (PULL)	MODEL	Closed Height	Outside Dia.	Bore Dia.	Piston Rod Dia.	Coupler Height		Saddle Dia.	Rod Protrusion	Rod Internal Thread	Rod Thread Depth	PCD Mounting Holes	Base Mounting Holes/ Holes Depth	Collar Thread/ Thread Length	Weight
												H	H1								
Tonnes (kN)		mm	cm ²	cm ²	cm ³	cm ³		A mm	D mm	E mm	F mm	H mm	H1 mm	J mm	K mm	O mm	P mm	U mm	V/Z mm	W / X mm	kg
10 (111)	5 (55)	150	15,86	7,86	239	118	COI10N150	258	60	45	32	19	213	34	6	M24x2	15	39	2xM8 12	M60x1,5 20	5,2
		250	15,86	7,86	398	197	COI10N250	358					313								6,8
30 (309)	10 (111)	150	44,14	15,86	663	239	COI30N150	279	100	75	60	23	221	53	9	M32x2	16	50	2xM10 15	M100x2 30	15,5
		250	44,14	15,86	1104	398	COI30N250	379					331								20,5
50 (496)	15 (144)	150	70,86	20,57	1063	309	COI50N150	288	127	95	80	25	234	65	4	M16	17	75	2xM12 18	M125x2 31	26,5
		325	70,86	20,57	2304	670	COI50N325	463					409								41,0
100 (929)	38 (379)	150	132,71	54,14	1991	813	COI100N150	323	175	130	100	33	250	85	4	M16	17	100	4xM12 23	M168x2 50	55
		300	132,71	54,14	3982	1626	COI100N300	473					400								77
150 (1407)	62 (616)	150	201	88	3016	1319	COI150N150	336	215	160	120	40	255	105	6	M16	17	130	4xM16 23	M215x4 56	85
		300	201	88	6032	2639	COI150N300	486					405								118
200 (1984)	76 (748)	150	283,43	106,86	4253	1602	COI200N150	355	255	190	150	48	268	135	7	M16	17	140	4xM16 23	M255x4 60	129
		300	283,43	106,86	8506	3204	COI200N300	505					418								177
300 (2908)	94 (923)	150	415,43	131,86	6232	1979	COI300N150	391	305	230	190	60	290	175	7	M16	17	200	4xM16 30	M305x4 74	208
		300	415,43	131,86	12464	3958	COI300N300	541					440								278
400 (4008)	112 (1099)	150	572,57	157	8588	2356	COI400N150	421	355	270	230	70	310	215	7	M16	17	250	4xM20 33	M355x4 84	307
		250	572,57	157	14314	3927	COI400N250	521					410								373
500 (4948)	154 (1512)	150	706,86	216	10603	3240	COI500N150	462	395	300	250	80	330	235	12	M16	17	280	4xM20 40	M395x4 100	416
		250	706,86	216	17671	5400	COI500N250	562					430								495

Nominal value shown in 'Tonnes', see kN for the exact force @700bar.

ACCESSORIES: ZTT TILT SADDLES



MODEL	For use with	a	b	c	j	u	z	w	kg
ZTT11	COI10N ###	9	21	12	34	M24x2	-	-	0,1
ZTT31	COI30N ###	16	30	14	53	M32x2	-	-	0,3
ZTT51	COI50N ###	18	26	8	68	65	5,5	45	0,8
ZTT101	COI100N ###	22	32	10	88	85	6,5	65	1,6
ZTT151	COI150N ###	32	42		118	105		80	3,2
ZTT201	COI200N ###	39	51	12	148	135	8,5	110	6,5
ZTT301	COI300N ###	43	55		158	175		150	11,0
ZTT401	COI400N ###	56	68		196	215		190	20,2
ZTT501	COI500N ###	56	68		235	235		210	23,2