

STANDARD CYLINDERS OIL RETURN IN ALUMINIUM

FEATURES

Solidly designed, the cylinder's rod end has concentric grooves to improve load grip. Models above 30 tonne have lifting eyes and all models have anti-corrosive nitride treatment which makes them suitable to be used in harsh environments.

A safety valve connected to the return chamber prevents any overpressure. The end of stroke nut has a wiper to prevent the entrance of dirt.

They can operate with off-centred loads up to 8% of their nominal capacity.

Given the sensitivity of the material to work stress we suggest a maximum use of 5000 work cycles.

OPERATIONAL AREAS

They are very solid cylinders recommended for pile testing operations and in situations in which the weight can be dangerous due to harsh conditions of adjustments or difficulties in transport.

The oil return feature makes them suitable for synchronous lifting and lowering with **SPLIT FLOW** power packs.

ACCESSORIES

ZTT tilt saddle reduces the effects of any possible off-centred load.



OPTIONS

- **T version**, cylinder with integrated tilt saddle.
- **F version**, cylinder with base mounting holes for fixing purposes.



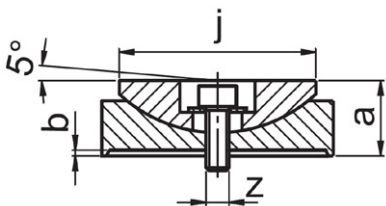
T version



It's important to drop the pressure inside the cylinder before disconnecting the quick coupler to avoid problems if re-inserting or lowering the load. In case some pressure persists it is possible to use the apposite tool **KST38**.



ACCESSORIES ZTT TILT SADDLES



MODEL	For use with	a	b	j	z	kg
ZTT50	COL50N # # #	25	1	68	M8	0.9
ZTT100	COL100N # # #	34	2	88		1.7
ZTT150	COL150N # # #	45	3	118	M10	3.4
ZTT200	COL200N # # #	54		148		7
ZTT250	COL250N # # #	58		158		9.5
ZTT300	COL300N # # #			11.3		

MODEL CODING

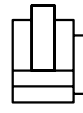
COL	50	N	###	#
Series	Pushing Force in t	N = standard	Stroke in mm	F = with base mounting holes T = with integrated tilt saddle **

** Cylinders with a force below 100 tonne can be supplied subject to a minimum production batch.

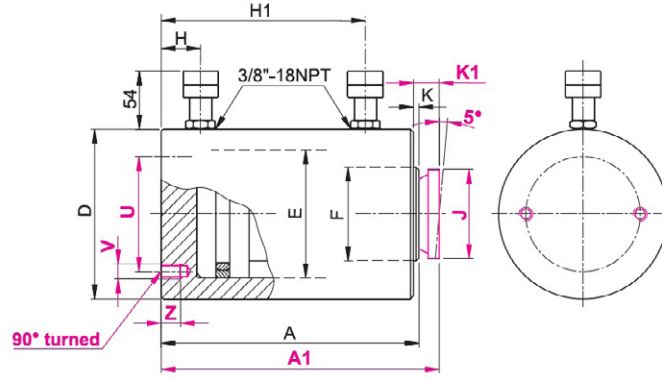
COL

STANDARD CYLINDERS

OIL RETURN IN ALUMINIUM



● FORCE	50 - 300 t
● STROKE	50 - 300 mm
● MAX WORKING PRESSURE	700 bar pushing 150 bar pulling



SELECTION CHART

Cylinders with non standard force and stroke can be supplied upon request.

PUSHING FORCE @ 700 bar t* kN	PULLING FORCE @ 150 bar t* kN	STROKE mm	PUSHING EFFECTIVE AREA cm ²	PULLING EFFECTIVE AREA cm ²	PUSHING OIL VOLUME cm ³	PULLING OIL VOLUME cm ³	MODEL	CLOSED HEIGHT		Ø EXTERNAL D mm	Ø PISTON E mm	Ø ROD F mm	COUPLERS HEIGHT		Ø INTEGRATED TILT SADDLE J mm	ROD PROJECTION K	ROD PROJECTION WITH INTEGRATED TILT SADDLE K1 mm	PCD MOUNTING HOLES U mm	BASE MOUNTING HOLES HOLES DEPTH V / Z mm	WEIGHT kg
								A mm	A1 mm				H mm	H1 mm						
50 496	15 44	50	70.1	20.6	354	103	COL50N50	149	154	135	95	80	20	104	68	1	6	95	2xM12 15	10
		100			709	206	COL50N100	199	204					154						13
		150			1063	309	COL50N150	249	254					204						16
100 929	8 81	50	132.7	54.1	664	271	COL100N50	198	205	180	130	100	32	127	88	2	9	130	2xM12 17	17
		100			1327	542	COL100N100	248	255					177						20
		150			1991	813	COL100N150	298	305					227						23
150 1407	13 131	50	201	88	1005	440	COL150N50	214	223	228	160	120	35	136	118	3	12	130	4xM12 17	26
		100			2011	880	COL150N100	264	273					186						31
		150			3016	1319	COL150N150	314	323					236						36
200 1984	16 160	50	283.4	106.9	1418	534	COL200N50	234	243	265	190	150	42	152	148	3	12	140	4xM16 20	44
		100			2835	1068	COL200N100	284	293					202						51
		150			4253	1602	COL200N150	334	343					252						58
		200			5671	2136	COL200N200	384	393					302						65
		250			7088	2670	COL200N250	434	443					352						72
250 2424	18 179	100	346.3	119.3	3464	1194	COL250N100	305	314	295	210	170	48	214	158	3	12	150	4xM16 20	66
		150			5195	1791	COL250N150	355	364					264						75
		200			6927	2388	COL250N200	405	414					314						84
300 2908	20 197	100	415.4	131.9	4155	1319	COL300N100	314	323	320	230	190	53	217	158	3	12	170	4xM16 20	80
		150			6232	1979	COL300N150	364	373					267						90
		200			8310	2639	COL300N200	414	423					317						101

* Nominal value, see kN for the exact force.

