



# NEW RANGE OF ALUMINIUM CYLINDERS 2012



**SAM**



**SAH**



**SAT**



**SATM**



**DDA**



**DAH**

## SAM SINGLE ACTING ALUMINIUM CYLINDERS



- Capacity from 23 to 200 Tn, stroke up to 300 mm.
- Lightweight general purpose cylinders. Over 40% weight reduction when compared with steel equivalent.
- Made of hard anodized high strength aluminium alloy.
- Solid piston, spring return.
- Fitted with steel base plate for wear resistance.
- Optional tilting saddles.
- Not suitable for high cycle applications.

Capacity		Stroke mm	Model LARZEP	Oil. Cap. cm <sup>3</sup>	Closed Height mm	Extended Height mm	Weight kg
Tn	kN						
23	228	50	SAM02305	166	156	206	3,6
		100	SAM02310	332	206	306	4,3
		150	SAM02315	497	256	406	5,0
		200	SAM02320	663	306	506	5,7
		250	SAM02325	830	356	606	6,4
		300	SAM02330	995	406	706	7,1
30	303	50	SAM03005	221	172	222	4,8
		100	SAM03010	442	222	322	5,4
		150	SAM03015	663	272	422	6,0
		200	SAM03020	883	322	522	6,6
		250	SAM03025	1.104	372	622	7,2
		300	SAM03030	1.325	422	722	7,8
50	487	50	SAM05005	354	180	230	8
		100	SAM05010	709	230	330	9,5
		150	SAM05015	1.063	280	430	11,0
		200	SAM05020	1.417	330	530	11,5
		250	SAM05025	1.772	380	630	13
		300	SAM05030	2.126	430	730	14,5
100	911	50	SAM10005	663	210	260	16
		100	SAM10010	1.326	260	360	19
		150	SAM10015	1.989	310	460	22,0
		200	SAM10020	2.652	360	560	25
		250	SAM10025	3.315	410	660	28
		300	SAM10030	3.982	460	760	31
140	1.380	50	SAM14005	1.005	225	275	24
		100	SAM14010	2.010	275	375	29
		150	SAM14015	3.016	325	475	34
		200	SAM14020	4.021	375	575	39
		250	SAM14025	5.026	425	675	44
200	1.947	50	SAM20005	1.417	234	284	31
		100	SAM20010	2.835	284	384	38
		150	SAM20015	4.253	334	484	45



- Capacity from 22 to 100 Tn, stroke up to 150 mm.
- Lightweight hollow spring return cylinders. Over 40% weight reduction when compared with steel equivalent.
- Made of hard anodized high strength aluminium alloy.
- Fitted with steel base plate for wear resistance.
- Hollow plain saddle as standard. Optional solid or threaded saddles available.
- Not suitable for high cycle applications.

Capacity		Stroke mm	Model LARZEP	Oil Cap. cm <sup>3</sup>	Closed Height mm	Extended Height mm	Weight kg
Tn	kN						
22	217	50	SAH02205	158	194	244	4,5
		100	SAH02210	316	249	349	5,8
		150	SAH02215	474	319	469	7,0
30	302	50	SAH03005	220	213	263	7,5
		100	SAH03010	440	278	378	10,0
		150	SAH03015	660	350	500	11,5
60	578	50	SAH06005	421	243	293	14,0
		100	SAH06010	842	298	398	18,0
		150	SAH06015	1.263	363	513	22,0
100	1.018	50	SAH10005	742	260	310	31,0
		100	SAH10010	1.484	327	427	38,0
		150	SAH10015	2.226	397	547	45,0



- Capacity from 30 to 200 Tn, stroke up to 300 mm.
- Load return. Lock nut tested under 50% overload.
- Made of hard anodized high strength aluminium alloy.
- Hydraulic end of stroke overflow port. Red band warning. Mechanical end of stroke in SATM models.
- Used for foundation supporting, bridge construction, buildings and shipbuilding.
- Light weight. Over 40% weight reduction when compared with steel equivalent.
- Fitted with steel base plate for wear resistance.
- The lock nut holds the load mechanically for long periods of time.
- Optional tilting saddles.
- Not suitable for high cycle applications.

Capacity		Stroke	Model	Oil Cap.	Closed Height	Extended Height	Weight
Tn	kN	mm	LARZEP	cm <sup>3</sup>	mm	mm	kg
30	303	50	<b>SAT03005</b>	221	173	223	4,4
		100	<b>SAT03010</b>	442	223	323	5,6
		150	<b>SAT03015</b>	663	273	423	6,8
		200	<b>SAT03020</b>	884	333	533	8,0
		250	<b>SAT03025</b>	1.104	383	633	9,2
		300	<b>SAT03030</b>	1.325	433	733	10,5
50	487	50	<b>SAT05005</b>	354	193	243	7,9
		100	<b>SAT05010</b>	709	243	343	9,9
		150	<b>SAT05015</b>	1.063	293	443	11,9
		200	<b>SAT05020</b>	1.418	353	553	13,9
		250	<b>SAT05025</b>	1.772	403	653	15,9
		300	<b>SAT05030</b>	2.126	453	753	17,9
100	911	50	<b>SAT10005</b>	664	216	266	15,6
		100	<b>SAT10010</b>	1.327	266	366	19,2
		150	<b>SAT10015</b>	1.991	326	476	22,8
		200	<b>SAT10020</b>	2.655	376	576	26,4
		250	<b>SAT10025</b>	3.318	446	696	29,9
		300	<b>SAT10030</b>	3.982	496	796	33,5
140	1380	50	<b>SAT14005</b>	1.005	234	284	26
		100	<b>SAT14010</b>	2.011	284	384	31,6
		150	<b>SAT14015</b>	3.016	345	495	37,2
		200	<b>SAT14020</b>	4.021	395	595	43,1
		250	<b>SAT14025</b>	5.027	465	715	48,3
		300	<b>SAT14030</b>	6.032	515	815	53,9
200	1946	50	<b>SAT20005</b>	1.418	249	299	42,9
		100	<b>SAT20010</b>	2.835	299	399	50,6
		150	<b>SAT20015</b>	4.253	364	514	58,4
		200	<b>SAT20020</b>	5.671	414	614	66,1
		250	<b>SAT20025</b>	7.088	479	729	73,9
		300	<b>SAT20030</b>	8.506	529	829	81,6

## SATM SINGLE ACTING ALUMINIUM CYLINDERS LOCK NUT, STOP RING AND SPRING RETURN



- Capacity from 30 to 200 Tn, stroke up to 300 mm.
- Spring return. Lock nut tested under 50% overload.
- Mechanical end of stroke glands avoids over travel at full pressure.
- Made of hard anodized high strength aluminium alloy.
- Light weight. Over 40% weight reduction when compared with steel equivalent.
- Fitted with steel base plate for wear resistance.
- The lock nut holds the load mechanically for long periods of time.
- Optional tilting saddles.
- Not suitable for high cycle applications.

Capacity		Stroke mm	Model LARZEP	Oil Cap. cm <sup>3</sup>	Closed Height mm	Extended Height mm	Weight kg
Tn	kN						
30	303	50	SATM03005	221	199	249	4,9
		100	SATM03010	442	249	349	5,9
		150	SATM03015	663	299	449	6,9
		200	SATM03020	884	349	549	7,9
		250	SATM03025	1.104	399	649	8,9
		300	SATM03030	1.325	449	749	9,8
50	487	50	SATM05005	355	230	280	9,4
		100	SATM05010	709	280	380	11,1
		150	SATM05015	1.063	330	480	12,8
		200	SATM05020	1.418	380	580	14,6
		250	SATM05025	1.772	430	680	16,3
		300	SATM05030	2.127	480	780	18
100	911	50	SATM10005	663	248	298	18
		100	SATM10010	1.326	298	398	21
		150	SATM10015	1.989	348	498	24,1
		200	SATM10020	2.652	398	598	27,1
		250	SATM10025	3.315	448	698	30,1
		300	SATM10030	3.978	498	798	33,2
140	1.380	50	SATM14005	1.005	287	337	32,6
		100	SATM14010	2.011	337	437	37,5
		150	SATM14015	3.016	387	537	42,4
		200	SATM14020	4.021	437	637	47,4
		250	SATM14025	5.027	487	737	52,3
		300	SATM14030	6.032	537	837	57,2
200	1.946	50	SATM20005	1.418	341	391	52,7
		100	SATM20010	2.835	391	491	58,6
		150	SATM20015	4.253	441	591	64,5
		200	SATM20020	5.670	491	691	70,5
		250	SATM20025	7.088	541	791	76,4
		300	SATM20030	8.506	591	891	82,3

## DDA DOUBLE ACTING ALUMINIUM CYLINDERS



- Capacity from 50 to 200 Tn stroke up to 300 mm.
- Made of hard anodized high strength aluminium alloy.
- Light weight. Over 40% weight reduction when compared with steel equivalent.
- Fitted with steel base plate for wear resistance.
- Internal safety valve to prevent accidental over-pressure.
- Optional tilting saddles.
- Not suitable for high cycle applications.

Capacity	Stroke	Model	Capacity		Oil Cap.	Closed Height	Extended Height	Weight
			Push	Pull				
Tn	mm	LARZEP	kN	kN	cm <sup>3</sup>	mm	mm	kg
50	50	DDA05005	487	92	354	198	248	8,0
	100	DDA05010	487	92	709	248	348	9,7
	150	DDA05015	487	92	1.063	298	448	11,3
	200	DDA05020	487	92	1.418	348	548	12,9
	250	DDA05025	487	92	1.772	398	648	14,6
	300	DDA05030	487	92	2.126	448	748	16,2
75	50	DDA07505	713	137	520	208	258	11,8
	100	DDA07510	713	137	1.039	258	358	14,0
	150	DDA07515	713	137	1.558	308	458	16,3
	200	DDA07520	713	137	2.077	358	558	18,6
	250	DDA07525	713	137	2.597	408	658	20,8
	300	DDA07530	713	137	3.116	458	758	23,1
100	50	DDA10005	911	130	664	222	272	16,1
	100	DDA10010	911	130	1.327	272	372	19,2
	150	DDA10015	911	130	1.991	322	472	22,2
	200	DDA10020	911	130	2.655	372	572	25,3
	250	DDA10025	911	130	3.318	422	672	28,3
	300	DDA10030	911	130	3.982	472	772	31,3
140	50	DDA14005	1.380	364	1.135	255	305	28,2
	100	DDA14010	1.380	364	2.270	305	405	32,3
	150	DDA14015	1.380	364	3.405	355	505	36,4
	200	DDA14020	1.380	364	4.539	405	605	40,5
	250	DDA14025	1.380	364	5.675	455	705	44,6
	300	DDA14030	1.380	364	6.809	505	805	48,7
200	50	DDA20005	1.946	483	1.418	259	309	40,0
	100	DDA20010	1.946	483	2.835	309	409	45,9
	150	DDA20015	1.946	483	4.253	359	509	51,8
	200	DDA20020	1.946	483	5.670	409	609	57,8
	250	DDA20025	1.946	483	7.088	459	709	63,7
	300	DDA20030	1.946	483	8.506	509	809	69,6



## DAH DOUBLE ACTING ALUMINIUM CYLINDERS HOLLOW PISTON



- Capacity from 30 to 150 Tn, stroke up to 250 mm.
- For push and pull operations: Tensioning cables and bolts, pulling sleeves and bearings.
- Made of hard anodized high strength aluminium alloy.
- Light weight. Over 40% weight reduction when compared with steel equivalent.
- Fitted with steel base plate for wear resistance.
- External safety valve to prevent accidental over-pressure.
- Hollow plain saddle as standard. Optional solid or threaded saddles available.
- Not suitable for high cycle applications.

Capacity	Stroke	Model	Capacity		Oil Cap.	Closed Height	Extended Height	Weight
			Push	Pull				
Tn	mm	LARZEP	kN	kN	cm <sup>3</sup>	mm	mm	kg
30	50	DAH03005	302	173	220	217	267	7
	100	DAH03010	302	173	440	267	367	9
	150	DAH03015	302	173	660	317	467	12
	200	DAH03020	302	173	880	367	567	13
	250	DAH03025	302	173	1.100	417	667	15
60	50	DAH06005	578	356	421	225	275	13
	100	DAH06010	578	356	842	275	375	16
	150	DAH06015	578	356	1.263	325	475	19
	200	DAH06020	578	356	1.684	375	575	22
	250	DAH06025	578	356	2.105	425	675	25
100	50	DAH10005	1.019	647	742	256	306	27
	100	DAH10010	1.019	647	1.484	306	406	33
	150	DAH10015	1.019	647	2.226	356	506	38
	200	DAH10020	1.019	647	2.968	406	606	43
	250	DAH10025	1.019	647	3.710	456	706	49
150	50	DAH15005	1.408	567	1.025	261	311	36
	100	DAH15010	1.408	567	2.050	311	411	43
	150	DAH15015	1.408	567	3.075	361	511	51
	175	DAH15017	1.408	567	3.587	386	561	54
	200	DAH15020	1.408	567	4.100	411	611	57
	250	DAH15025	1.408	567	5.125	461	711	64



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