



Crane stop buffers of ACLACELL®/AUTAN®

Buffers of polyurethane

Crane Stop Buffers of the high-grade polyurethane elastomers ACLACELL/AUTAN have a mixed cellular structure and are distinguished by the following outstanding properties in practical life:

- easy assembly
- high energy absorption with small volume (low weight)
- important compressibility
- high specific surface pressure
- no risk of breakage (no limit stop compared with steel springs)
- excellent noise damping also with hardest shocks
- gentle impact
- the profiled upper surface enables a clean fixation of the counterpressure surface
- good oil resistance
- temperature range from -20°C to +80°C (from -4°F to +176°F)

On account of the excellent properties the ACLA-buffers are mainly used in crane construction and as safety buffers for extremely high shock loads.

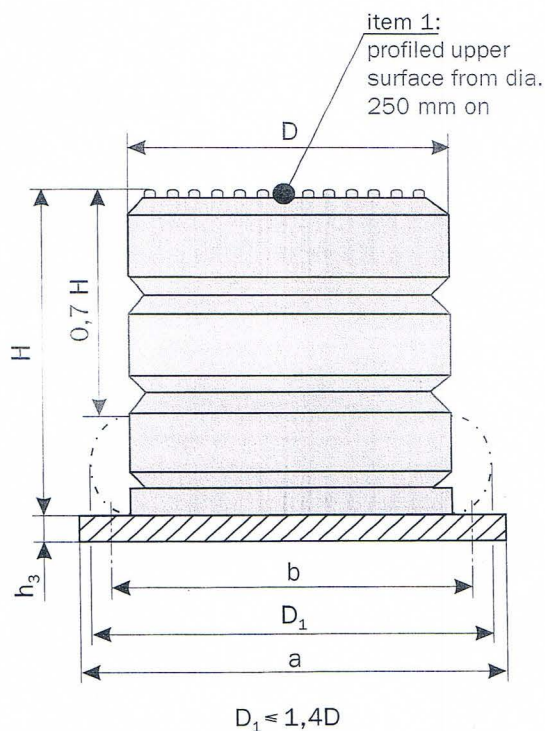
Standard program and special types

The article range printed overleaf shows the standard program of ACLA-WERKE for crane stop buffers. Special types, f.i. buffer batteries are deliverable on request.

In case of extreme applications (f.i. outside with changing weather conditions) a surface protection is recommended consisting of a sprayed skin of ACLATHAN S in order to protect the cellular material structure.

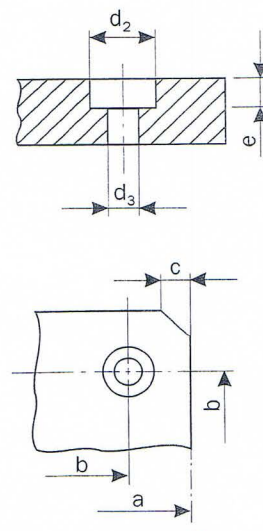
For special applications buffers with central safety rope can be supplied (from dia. 250 mm on). As to sizes up to dia. 250 mm we refer to our Technical Sheets 66 E featuring safety buffers as supplementary program with central thread bolt or nut.

Buffer type C with rectangular steel plate



Rectangular steel plate

4 fixing holes preferably for cheese-head screws DIN 6912 or DIN 6984





Buffer dimensions									Art. no. for type C	Buffer weight (ca.) for type C [kg]	Energy absorption in Nm Reaction in kN				
D	H	h ₃	a	b	c	d ₂	d ₃	e			with v in m/s				
											nearly static	1	2	3	4
100	80	6	130	100			14		300 421	1,3	250 46	350 40	500 40	750 55	1250 76
125	80	6	155	125			14		300 422	2,0	400 70	600 60	800 60	1200 81	2000 115
165	80	6	205	165			18		300 423	4,1	800 140	1200 120	1600 120	2400 163	4000 230
220	80	6	260	220			18		300 424	6,8	1250 230	1850 200	2500 200	3750 270	6250 385
100	160	6	130	100			14		300 425	1,6	500 46	680 40	950 40	1450 55	2350 76
125	160	6	155	125			14		300 426	2,4	800 70	1100 60	1500 60	2300 81	3700 115
165	160	6	205	165			18		300 427	4,9	1400 140	2000 120	2700 120	4100 163	6700 230
220	160	6	260	220			18		300 428	8,3	2400 230	3300 200	4500 200	6900 270	1100 385
140	250	6	180	140			18		300 429	4,4	1850 100	2500 85	3500 85	5300 120	8800 170
180	280	6	220	180			18		300 379	7,4	3100 150	4300 130	6000 130	9100 175	15000 250
250	130	12	320	250	15	34	22	6	300 136	15,2	3800 270	5500 240	7500 240	12000 335	20000 470
250	250	12	320	250	15	34	22	6	300 056	20,0	7900 270	11000 240	15000 240	24000 335	39000 470
250	380	12	320	250	15	34	22	6	300 064	23,5	11500 270	16500 240	23000 240	35500 335	58000 470
315	160	15	400	315	40	34	22	6	300 099	30,0	7500 410	11000 380	15000 380	24000 500	40000 700
315	320	15	400	315	40	34	22	6	300 062	36,5	15000 410	22000 380	31000 380	47000 500	77000 700
315	480	15	400	315	40	34	22	6	300 065	43,5	23000 410	33000 380	46000 380	71000 500	117000 700
400	200	20	506	400	50	39	26	8	300 110	57,0	15000 670	22000 620	30000 620	47000 840	78000 1170
400	400	20	506	400	50	39	26	8	300 061	71,0	30000 670	43000 620	59000 620	94000 840	155000 1170
400	600	20	506	400	50	39	26	8	300 057	85,0	45000 670	65000 620	93000 620	142000 840	230000 1170
500	250	20	638	500	60	39	26	8	300 133	95,0	33000 900	47000 850	65000 850	107000 1120	173000 1570
500	500	20	638	500	60	39	26	8	300 058	121,0	67000 900	97000 850	137000 850	214000 1120	350000 1570
500	750	20	638	500	60	39	26	8	300 059	147,0	93000 900	133000 850	180000 850	280000 1120	460000 1570
600	300	25	738	600	60	39	26	8	300 134	134,0	45000 1500	68000 1400	95000 1400	152000 1870	250000 2640
600	620	25	738	600	60	39	26	8	300 067	182,0	100000 1500	145000 1400	200000 1400	320000 1870	520000 2640
600	900	25	738	600	60	39	26	8	300 135	224,0	150000 1500	220000 1400	300000 1400	480000 1870	720000 2640

Dimensions in mm.
We reserve the right to
change sizes.
Further dimensions
and special
types on request.

Our verbal or written recommenda-
tions for any application as well as
tests are carried out to the best
of our knowledge. They are without
engagement also as far as patent
rights of third parties are con-
cerned, and do not exempt you
from checking the products sup-

plied by us to their suitability for
the intended procedure and purpose.

Application, use and processing of
the products are outside our con-
trol, and are exclusively the respon-
sibility of the customer. Moreover
our general sales conditions apply.

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