



Oleo elevator buffers are designed to protect people and equipment from forces generated from an impact resulting from equipment failure or operator error. Buffers protect people, infrastructure and equipment from damage. Larger buffers allow the protection of heavier and faster moving equipment the new Oleo HSL telescopic gas hydraulic buffer range is designed specifically for high speed elevator applications typically seen in high rise buildings where speeds over 5m/s are achieved. If approved terminal speed limiting devices are employed by applying the reduced stroke calculation the HSL115 can deal with speeds up to 20m/s.

The HSL Series offers considerably more installation possibilities than conventional single stage buffers due to telescopic technology. This allows for lower compressed unit heights and smaller buffer envelopes at higher elevator speeds.

The Oleo principle of designing self contained, maintenance free* buffer units is applied to the HSL series of buffers and offers an easy installation process, this makes Oleo buffers the best solution for the life of the installation.

The HSL series is designed and built according to strict engineering standards and will be developed to achieve universal approval and global certification.

* other than statutory inspections.

HSL 115

The HSL 115 is a four stage telescopic buffer, designed for elevator speeds up to 20m/s, buffer rated speed 11.55m/s.

HSL 101

The HSL 101 is the first of the multi-stage telescopic buffers in the new HSL range, designed for elevator speeds up to 17.5m/s, buffer rated speed 10.1m/s.

HSL 87

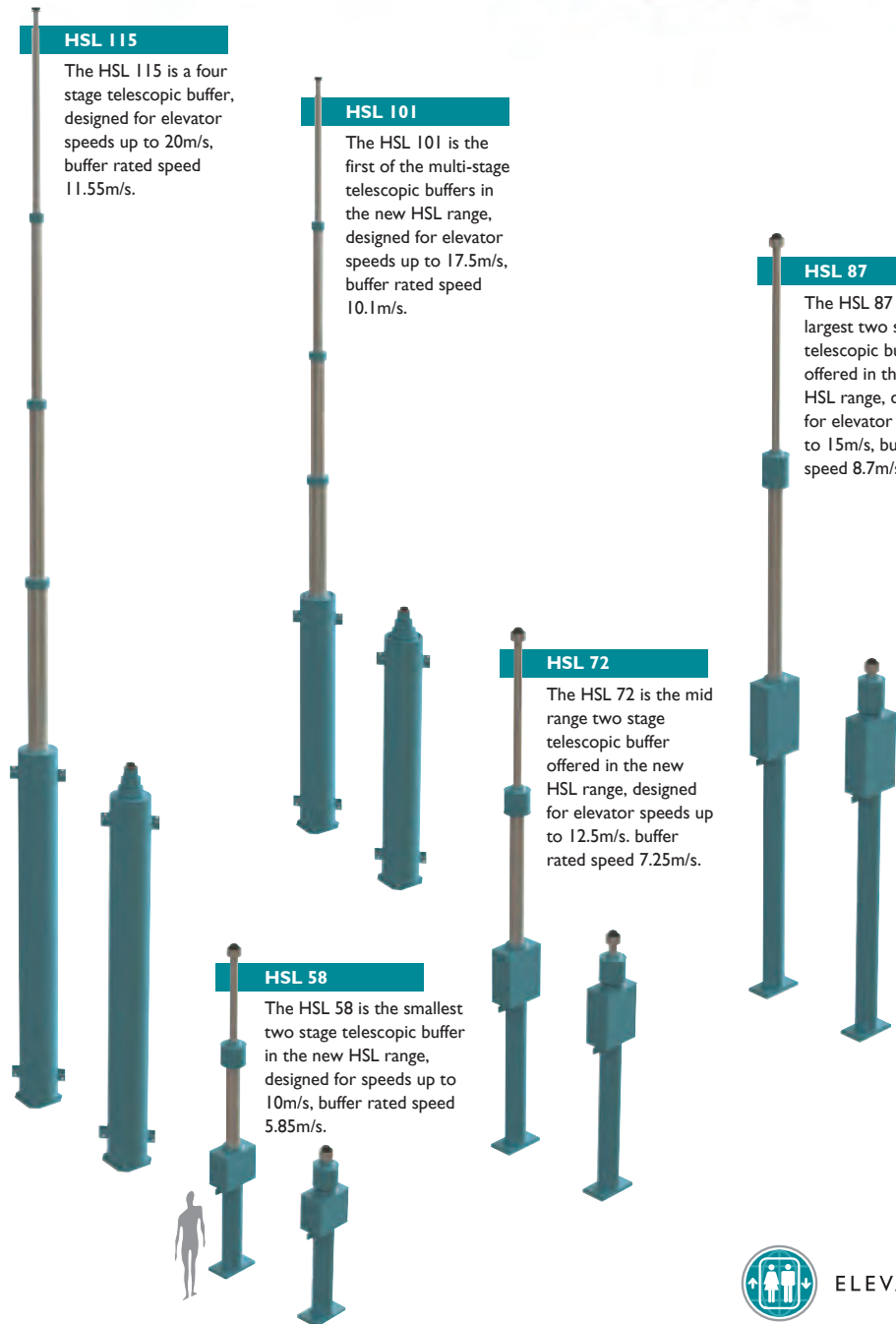
The HSL 87 is the largest two stage telescopic buffer offered in the new HSL range, designed for elevator speeds up to 15m/s, buffer rated speed 8.7m/s

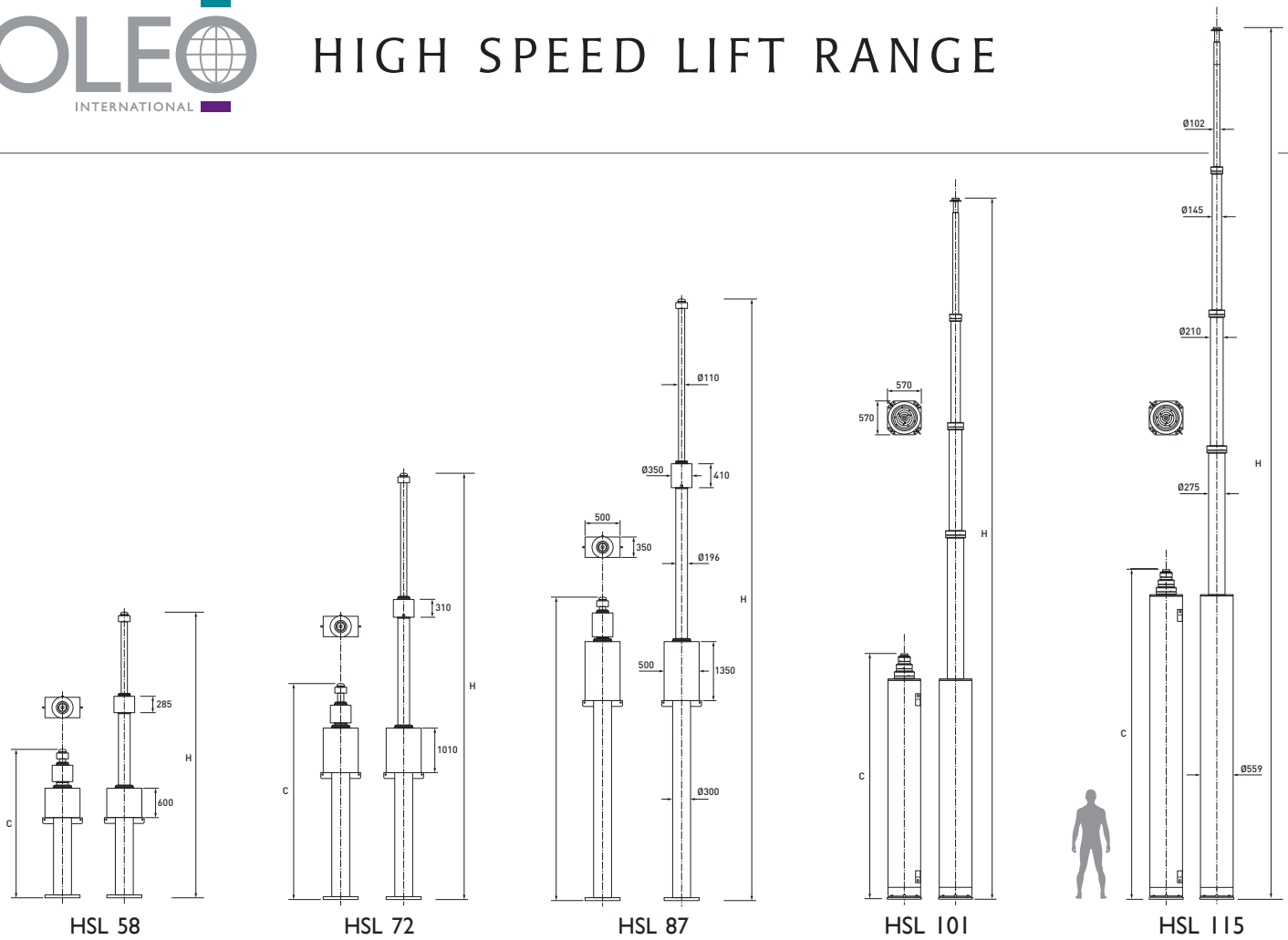
HSL 72

The HSL 72 is the mid range two stage telescopic buffer offered in the new HSL range, designed for elevator speeds up to 12.5m/s, buffer rated speed 7.25m/s.

HSL 58

The HSL 58 is the smallest two stage telescopic buffer in the new HSL range, designed for speeds up to 10m/s, buffer rated speed 5.85m/s.





METRIC TABLE

Buffer Unit	Rated Speed	Max Speed (115%)	Stroke	Impact Mass Range		Height (Extended) mm Dim H	Height (Compressed) mm Dim C	Weight No Oil (Dry)	Oil Volume	Reduced Stroke	
				kg	kg					ASME A17.1	EN81.1
	m/s	m/s	mm	Min.	Max.	Max.	Min.	Kg	Litres	m/s	m/s
HSL 58	5.85	6.73	2350	4000	10000	4890.0	2540.0	800.0	98.0	10.22	10.22
HSL 72	7.25	8.34	3600	4000	10000	7290.0	3690.0	1100.0	144.0	12.65	12.65
HSL 87	8.70	10.01	5200	4000	10000	10290.0	5190.0	1600.0	207.0	15.21	15.21
HSL 101	10.10	11.62	7000	5000	8000	12569.0	4193.0	3000.0	275.0	17.65	17.65
HSL 115	11.55	13.28	9200	5500	8000	14900.0	5717.0	3497.0	490.0	20.23	20.23

IMPERIAL TABLE

Buffer Unit	Rated Speed	Max Speed (115%)	Stroke	Impact Mass Range		Height (Extended) in Dim H	Height (Compressed) in Dim C	Weight No Oil (Dry)	Oil Volume	Reduced Stroke	
				lbs	lbs					ASME A17.1	EN81.1
	ft/min	ft/min	in	Min.	Max.	Max.	Min.	lbs	Gallons	ft/min	ft/min
HSL 58	1152	1324	92.52	8818	22046	192.5	100.0	1763.7	25.9	2011	2011
HSL 72	1427	1641	141.73	8818	22046	287.0	145.3	2425.1	38.0	2490	2490
HSL 87	1713	1969	204.72	8818	22046	405.1	204.3	3527.4	54.7	2994	2994
HSL 101	1988	2286	275.59	11023	17637	494.8	165.1	6613.9	72.6	3474	3474
HSL 115	2274	2615	362.20	12125	17637	586.6	225.1	7709.6	129.4	3982	3982

For more information on our high speed buffer range please contact us at:
 Oleo International, Grovelands, Longford Road,
 Exhall, Coventry, United Kingdom CV7 9NE
 E: sales@oleo.co.uk
 T: +44 (0)24 7664 5555
 F: +44 (0)24 7664 5900

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Dimensions given on the drawings above are for guidance only – please contact Oleo for more information.