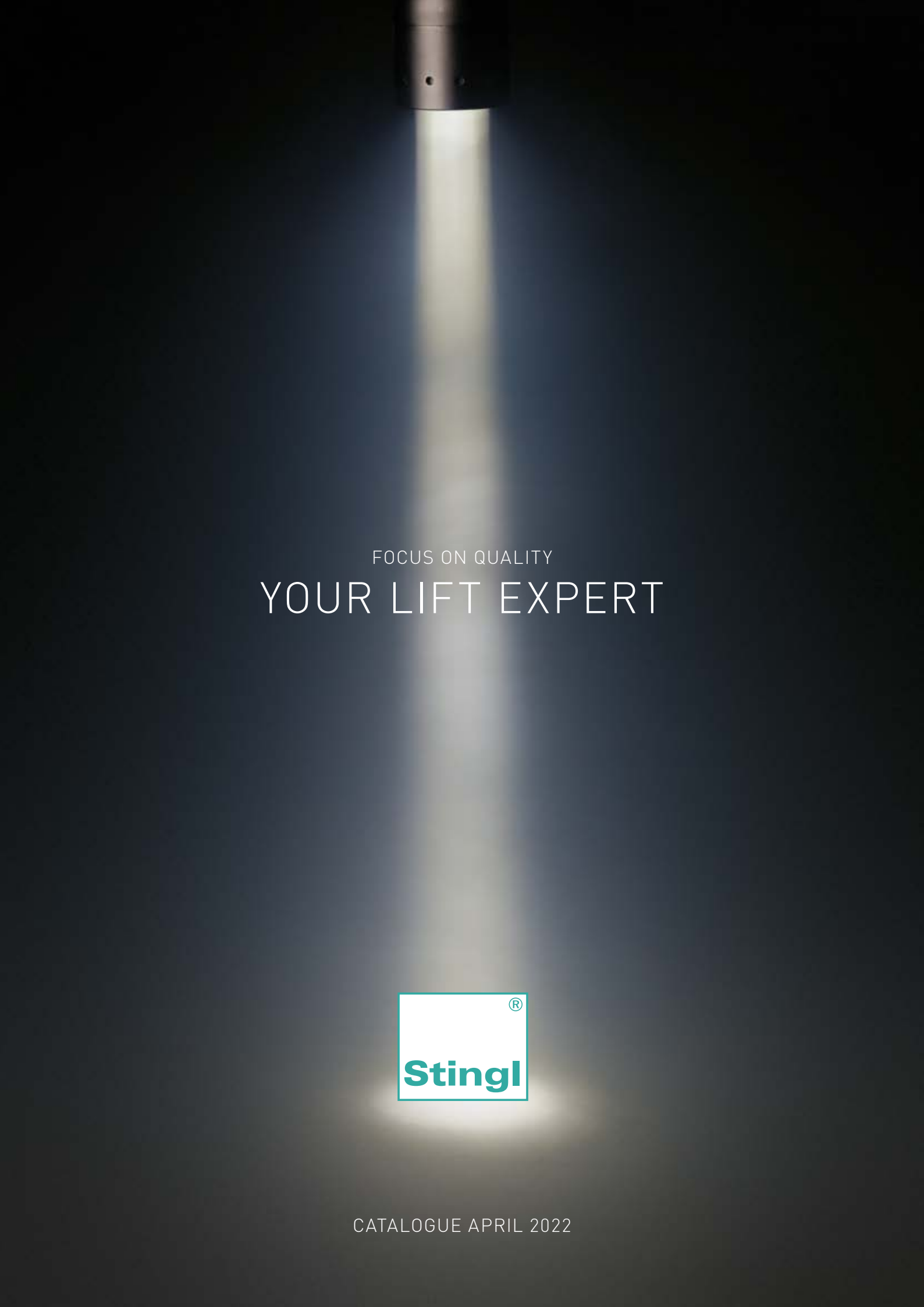

FOCUS ON QUALITY
YOUR LIFT EXPERT
Stingl
CATALOGUE APRIL 2022

LIFT BUFFERS

LIFT BUFFERS DIN EN 81-1/-2 COMPLIANT

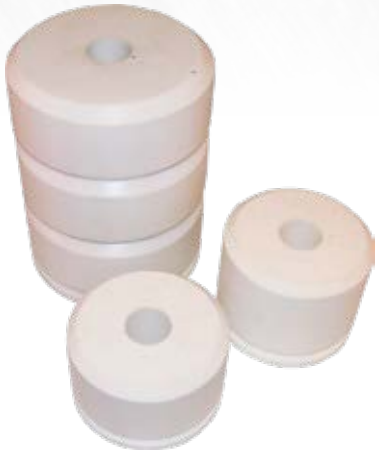
MATERIAL PROPERTIES: • Polycell® elastic cellular polyurethane elastomer • Density: 500 ±20 kg/m³ • Solid material • High dynamic load bearing capacity • Deformability up to 90 % compared to the original buffer height • Resistance against oil, grease, petrol and ozone • Temperature range between -40 °C – +80 °C (-40 °F – +176 °F) • Avoid permanent contact with water • All buffers contain a 2 mm thick, foamed-in steel plate • The contact surface should be even and approx. 15 % larger and 1,5xD smaller than the diameter of the buffer, respectively

BUFFER MAINTENANCE: The buffers are generally maintenance free. During maintenance or inspection of safety relevant parts, the buffers should be checked visually, too. The buffers should be replaced if a visible deformation occurs due to a car drop over limit or at the end of the recommended period of use. Discoloration from white to brown has no influence on the technical characteristics of the buffer.

BUFFER SELECTION: The specification of the required buffer size goes by the energy absorption capacity depending on the dynamic load. Basis of calculation listed below:

IMPORTANT NOTE (NO CE-MARKING)!

E- and T-series elevator buffers are certified according to EN81-1 /-2. Buffers of the old series cannot be supplied with a CE-mark, as the buffers are not certified according to the current state of technology (EN81-20 /-50). Since in Europe (EEC) safety components must have a CE-marking, we explicitly state that the buffers (without a CE-marking) cannot be used in a certified elevator system in Europe (EEC). Before purchasing the buffers, we ask you to check the exact situation and suitability for use, as the buffers supplied cannot be returned.



Accredited by LIFTINSTITUUT

LIFTINSTITUUT

LIFT BUFFERS EN 81-1/-2 COMPLIANT (NOMINAL VELOCITY V=0,70 M/S)

Item No.	Description	Diagonal D [mm]	Height H [mm]	Load range m min. [kg]	m max [kg]	90 % Compression [mm]
0991001600	**Lift buffer E1**	**100**	**160**	**235**	**1,030**	**144**
0991251600	**Lift buffer E3**	**125**	**160**	**260**	**1,505**	**144**
0991401000	**Lift buffer E5**	**140**	**100**	**373**	**1,815**	**90**
0990800800	**Lift buffer T1**	**80**	**80**			**72**
0991000800	**Lift buffer T2**	**100**	**80**	**235**	**1,140**	**72**
0991250800	**Lift buffer T3**	**125**	**80**	**235**	**1,505**	**72**
0991650800	**Lift buffer T4**	**165**	**80**	**235**	**1,140**	**72**
0992200800	**Lift buffer T5**	**220**	**80**	**235**	**1,505**	**72**

LIFT BUFFERS EN 81-1/-2 COMPLIANT (NOMINAL VELOCITY V=1,0 M/S)

Item No.	Description	Diagonal D [mm]	Height H [mm]	Load range m min. [kg]	m max [kg]	90 % Compression [mm]
0991001600	**Lift buffer E1**	**100**	**160**	**235**	**1,030**	**144**
0991251600	**Lift buffer E3**	**125**	**160**	**435**	**1,505**	**144**
0991401000	**Lift buffer E5**	**140**	**100**	**542**	**1,580**	**90**
0990800800	**Lift buffer T1**	**80**	**80**			**72**
0991000800	**Lift buffer T2**	**100**	**80**	**235**	**800**	**72**
0991250800	**Lift buffer T3**	**125**	**80**	**235**	**1,026**	**72**
0991650800	**Lift buffer T4**	**165**	**80**	**235**	**800**	**72**
0992200800	**Lift buffer T5**	**220**	**80**	**235**	**1,026**	**72**

LIFT BUFFERS DIN EN 81-20/-50 COMPLIANT

Our new generation of maintenance-free safety buffers made of Diepocell BM® has been optimally adjusted accordding to the new EU standard EN 81-20/-50. The strong damping, as well as high working recordings with large load ranges will win you over. Due to their minimal rebound, the certification standard DIN EN 81-20/-50 could already be carried out in July 2015. In addition to the new standard, the buffers are also certified according to the old standard EN 81-1/2. The P+S buffer elements have always been preferred in elevator and crane construction. The new D-series fits seamlessly into our reliable product range of buffer elements. Usage in areas with high humidity and tropical areas is no problem for the buffers of our D-series. Even under extreme conditions, damping-optimized P + S bumpers from iepocell BM® impress with their extraordinary material properties.

PRODUCT PROPERTIES: • exceptional damping properties • maximum deformability with low transverse strain • coverage of wide load ranges • good resistance to mineral oils and greases • good resistance to ozone, UV and high-energy radiation • temperature range from -30 ° C to +80 ° C • climate control tested • all standard versions available

LIFT BUFFERS EN 81-20/50 COMPLIANT (NOMINAL VELOCITY V=0,63 M/S)

Item No.	Description + DIN EN 81/20 + DIN EN 81/50 ✓	Diagonal D [mm]	Height H [mm]	Load range m min. [kg]	m max [kg]	Residual height m min [mm] m max[mm]	Transverse strain Ø [mm]
0990800802	Lift buffer D0	80	80	150		56.5	90
					1,200	16.2	114
0991000802	Lift buffer D1	100	80	200		59.7	110
					1,500	20.6	132
0991000803	Lift buffer D2	100	80	250		65.5	110
					3,200	19.3	139
0991250802	Lift buffer D3	125	80	500		65.5	136
					5,200	19.3	169
0991400802	Lift buffer D4	140	80	320		65.7	149
					4,000	19.4	179
0991650802	Lift buffer D5	165	80	600		66.5	178
					7,500	19.8	214
0992200802	Lift buffer D6	220	80	950		68.4	233
					9,400	26.5	266

LIFT BUFFERS EN 81-20/50 COMPLIANT (NOMINAL VELOCITY V=1,0 M/S)

Item No.	Description + DIN EN 81/20 + DIN EN 81/50 ✓	Diagonal D [mm]	Height H [mm]	Load range m min. [kg]	m max [kg]	Residual height m min [mm] m max[mm]	Transverse strain Ø [mm]
0990800802	Lift buffer D0	80	80	180		42.9	19.3
					600	91	104
0991000802	Lift buffer D1	100	80	220		39.2	115
					700	22.2	135
0991000803	Lift buffer D2	100	80	330		43.7	115
					1,250	23.3	143
0991250802	Lift buffer D3	125	80	600		49.4	143
					1,850	27.8	163
0991400802	Lift buffer D4	140	80	450		45	161
					1,500	26.1	192
0991650802	Lift buffer D5	165	80	650		49.7	183
					2,700	27.2	205
0992200802	Lift buffer D6	220	80	1,500		46.3	244
					5,500	26	275

LIFT BUFFERS DIN EN 81-20/-50 COMPLIANT

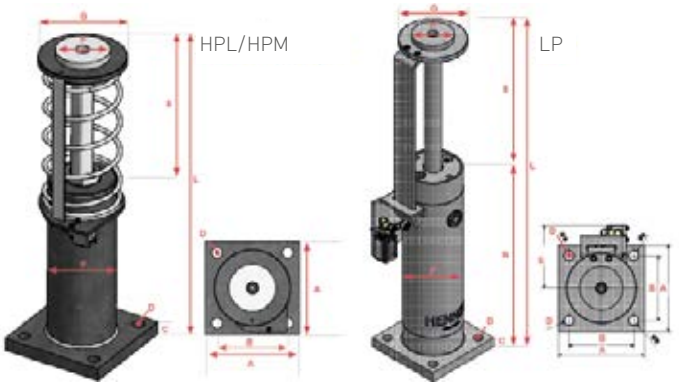
The lift buffers "Henning Performance" are energy-absorbing hydraulic buffers according to EN-81-20: 2014, EN-81-50: 2014 5.5 and universally applicable for all applications in elevator construction. The prototype testing allows the use in passenger and goods lifts both below the car and below the counterweight.

PRODUCT PROPERTIES: Certified acc. to EN81-20/50 • Made in Germany • Meets all the requirements of the modern elevator industry • Robust, durable and lightweight design • Wide range of impact masses and nominal speeds • Easy installation •Initial filling with oil • Mechanical piston return with spring • Mechanical safety switch triggered by shift ruler • All documents / certificates are available at www.henning-gmbh.de

Absorption graphic

LIFT BUFFERS DIN EN 81-20/-50 COMPLIANT

Item No.	Description +DIN EN 81/20 +DIN EN 81/50+ ✓	HUB [mm]	Nominal speed [m/s]	Max. impact-speed [m/s]	Impact mass m max. [kg]	Weight incl. oil [kg]
0990400800	**Lift buffer Performance Hub 80, EN 81-20**	**80**	**1.0**	**1.15**	**450 – 3,200**	**12**
0990401200	**Lift buffer Performance Hub 120. EN 81-20**	**120**	**1.3**	**1.495**	**450 – 3,500**	**13**
0990401750	**Lift buffer Performance Hub 175. EN 81-20**	**175**	**1.6**	**1.84**	**450 – 3,500**	**14**
0990402750	**Lift buffer Performance Hub 275. EN 81-20**	**275**	**2.0**	**2.3**	**450 – 3,500**	**17**
0990404300	**Lift buffer Performance Hub 430. EN 81-20**	**430**	**2.5**	**2.875**	**450 – 3,500**	**22**
0990504250	**Lift buffer Performance Hub 425. EN 81-20**	**425**	**2.5**	**2.875**	**500 – 4,500**	**47**
0990506950	**Lift buffer Performance Hub 695. EN 81-20**	**695**	**3.2**	**3.68**	**500 – 4,500**	**68**
0990509500	**Lift buffer Performance Hub 950. EN 81-20**	**950**	**3.7**	**4.255**	**500 – 4,500**	**86**



DIMENSIONING OVERVIEW

Item No.	Description	S	L	N	A	B	C	D	E	F	G	P
0990400800	**Lift buffer Performance Hub 80, EN 81-20 HPL**	**80**	**305**		**160**	**120**	**20**	**18**		**100**	**130**	**80**
0990401200	**Lift buffer Performance Hub 120, EN 81-20 HPL**	**120**	**385**		**160**	**120**	**20**	**18**		**100**	**130**	**80**
0990401750	**Lift buffer Performance Hub 175, EN 81-20 HPL**	**175**	**495**		**160**	**120**	**20**	**18**		**100**	**130**	**80**
0990402750	**Lift buffer Performance Hub 275, EN 81-20 HPL**	**275**	**715**		**160**	**120**	**20**	**18**		**100**	**130**	**80**
0990404300	**Lift buffer Performance Hub 430, EN 81-20 HPL**	**430**	**1,065**		**160**	**120**	**20**	**18**		**100**	**130**	**80**
0990504250	**Lift buffer Performance Hub 425, EN 81-20 LP**	**425**	**1,065**	**640**	**200**	**160**	**20**	**18**	**135**	**155**	**150**	**100**
0990506950	**Lift buffer Performance Hub 695, EN 81-20 LP**	**695**	**1,665**	**970**	**200**	**160**	**20**	**18**	**135**	**155**	**150**	**100**
0990509500	**Lift buffer Performance Hub 950, EN 81-20 LP**	**950**	**2,235**	**1,285**	**200**	**160**	**20**	**18**	**135**	**155**	**150**	**100**

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