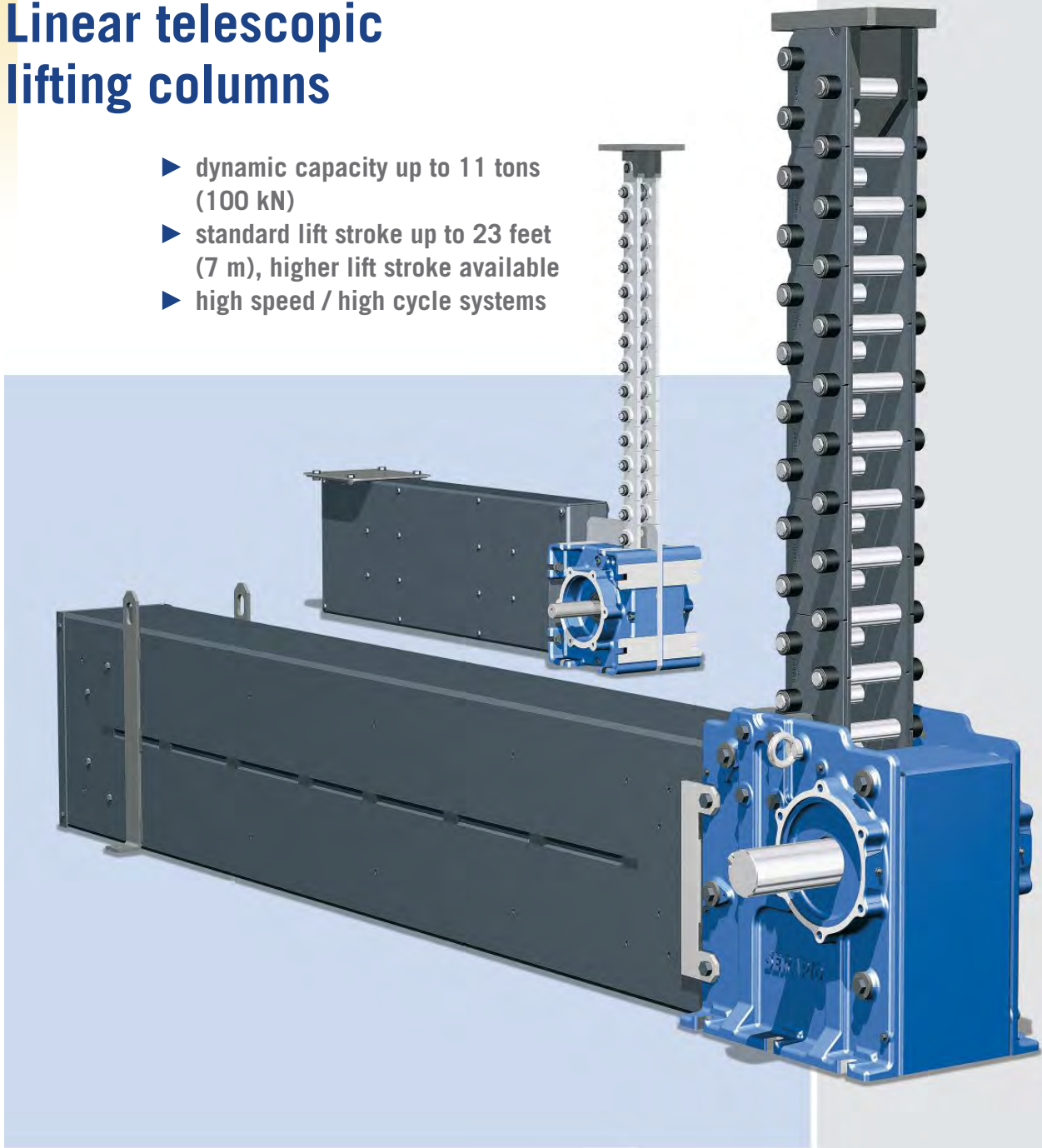


Linear telescopic lifting columns

- ▶ dynamic capacity up to 11 tons (100 kN)
- ▶ standard lift stroke up to 23 feet (7 m), higher lift stroke available
- ▶ high speed / high cycle systems

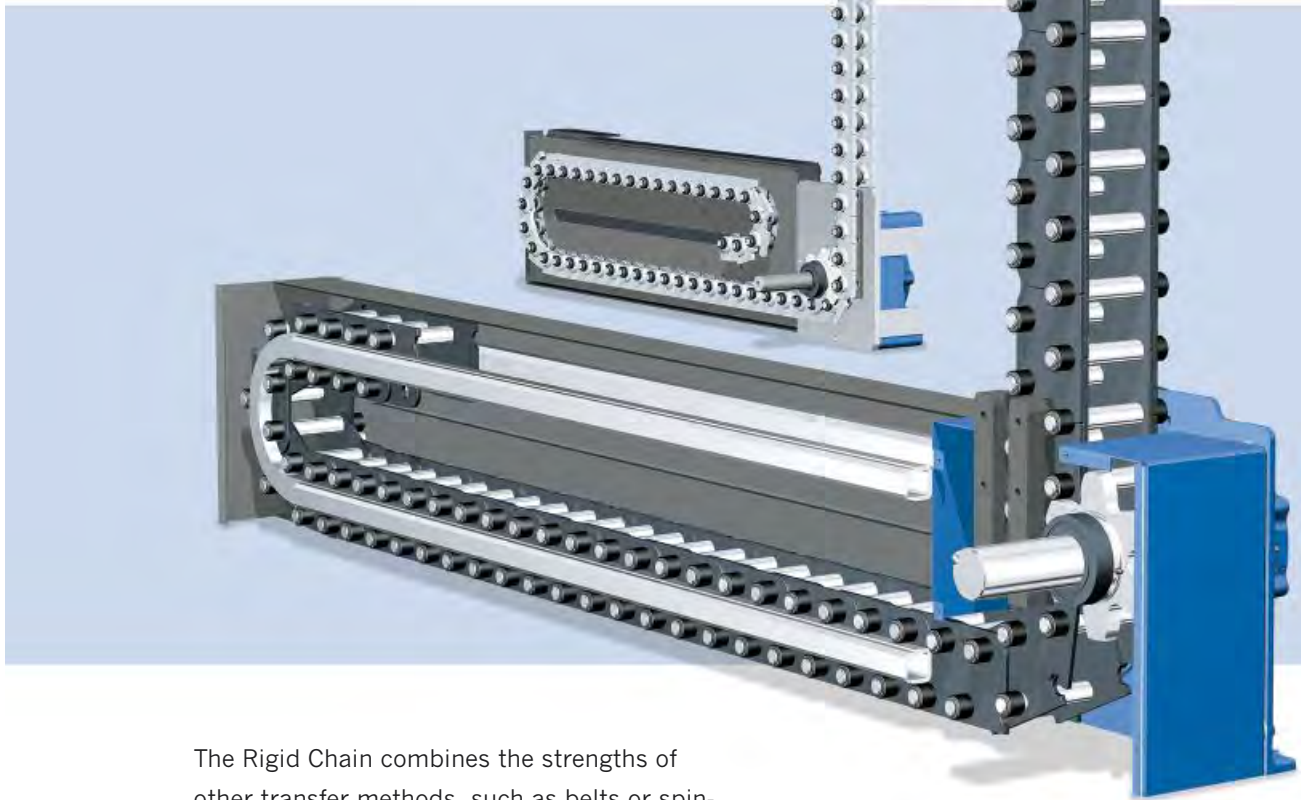


SERAPID
PUSHING AHEAD

SERAPID lift systems provide a mechanical way to elevate heavy loads. Just like the horizontal motion systems, this is based on the locking and unlocking of flexibly connected, linked elements. When lifting a load, the specially shaped chain links interlock with each other, forming a rigid bar or column.

When lowered, the links unlock, allowing it to remain flexible. The chain bends or coils into a compact package.

Linear telescopic lifting columns



The Rigid Chain combines the strengths of other transfer methods, such as belts or spindle screws, and at the same time it does away with their weaknesses. This is especially true in the case of vertical motion:

- ▶ repeatable positioning in the millimeter range, even at high speed
- ▶ standard speed up to 9 ft/s (300 mm/s), faster speeds available on request
- ▶ load capacities to 10 tons per lifting column, stroke up to 23 ft (7 m) or more
- ▶ maintains position with no drift
- ▶ space-saving chain return storage
- ▶ simple configuration, design flexibility
- ▶ 80% system efficiency
- ▶ long life and low maintenance

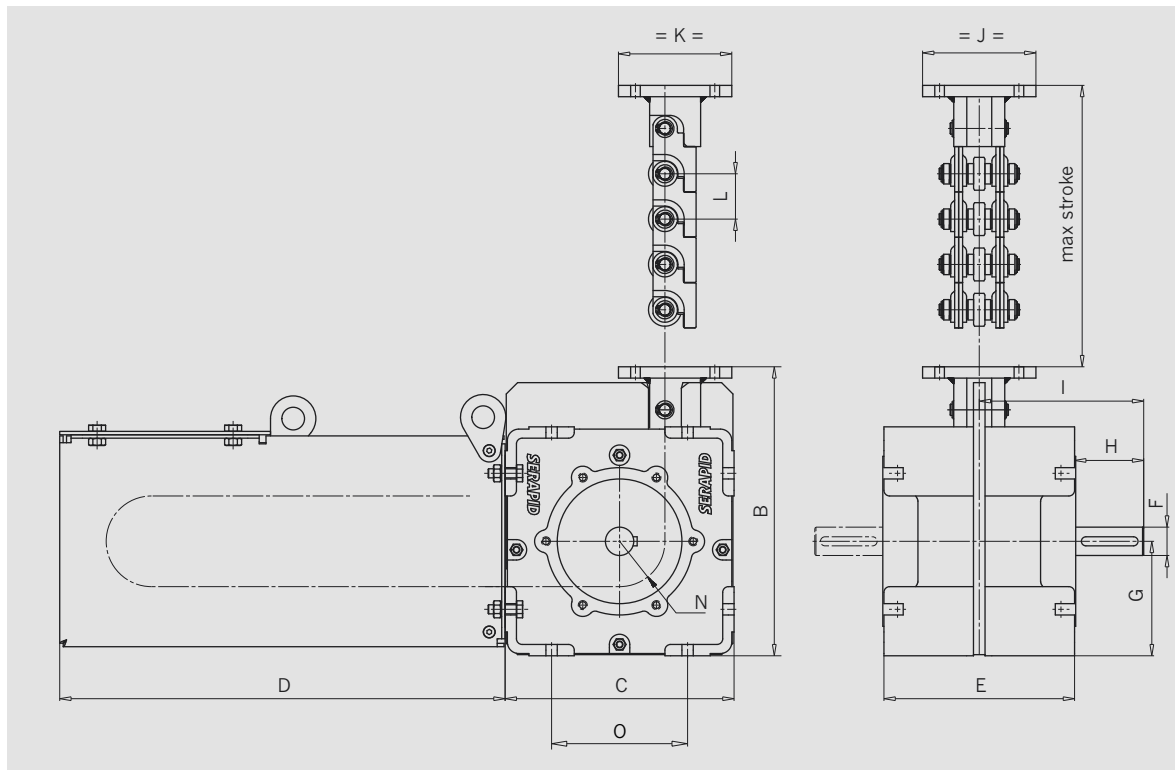
The ChainLift standard model range

	ChainLift 40	ChainLift 60
dyn / stat capacity [kN (lbf)]	7.5 (1700)	20 (4500)
max stroke [m (in)]	1 (40)	2 (80)
max speed [mm/s (ft/mn)]	200 (40)	200 (40)
pitch of link [mm]	40	60
segment radius of drive pinions [mm]	40	60
weight of chain [kg/m]	7.8	10.5
weight of drive housing [kg]	15	45
standard magazines: length [mm]		
max stroke [mm] 500	396	
1000	646	688.5
2000		1188.5

The ChainLift was developed from our horizontal push-pull chain. The links were reinforced with double plates, four driving rollers, plus larger guide rollers, making the chain capable of lifting. Additional stability is achieved in the drive housing through a thicker and longer reaction plate. The lifting force is applied through four driving pinions.

For requirements outside of our specifications, please contact us.

ChainLift



	max stroke	B	C	E	F	G	H	I	J	K	L	N	O
ChainLift 40	1000	255	202	168.2	25	101	59	146	100	100	40	40	120
ChainLift 60	2000	350	272	201.4	45	136	95	197.7	130	130	60	60	140

standard magazines, length (D)

max stroke	500	1000	2000
ChainLift 40, D =	396	646	
ChainLift 60, D =		688.5	1188.5

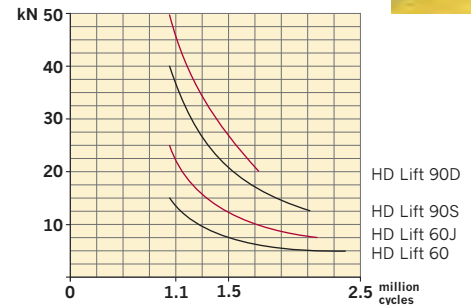


HD Lift: strength and endurance

The systems in our heavy-duty line are designed for high operating cycles (> 10 cycles / h). The guaranteed minimum lifetime is one million cycles under maximum load. All types include a permanent lubrication system, with oil-proof drive housing and chain magazine. The product range includes five standard systems, covering dynamic loads up to 11240 lbf and strokes up to 8 feet.

The diagram below shows the lifetime curves of our heavy-duty lifts in relation to load. These curves are based on actual test data.

For requirements outside of our specifications, please contact us.

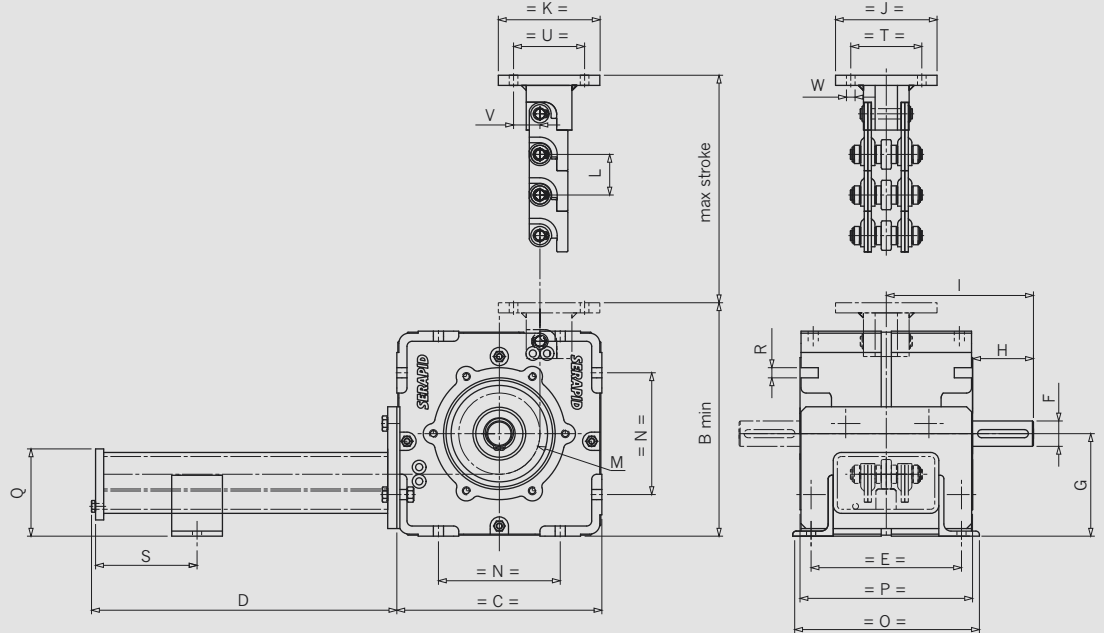


The HD Lift standard model range

	HD Lift 40	HD Lift 60	HD Lift 60J	HD Lift 90S	HD Lift 90D
dyn / stat capacity [kN (lbf)]	6.5 (1450)	12.5 (2800)	25 (5600)	40 (9000)	50 (11200)
max stroke [m (in)]	1 (40)	1.5 (60)	1.5 (60)	2 (80)	2.5 (100)
max speed [mm/s (ft/mn)]	300 (60)	300 (60)	300 (60)	300 (60)	300 (60)
pitch of link [mm]	40	60	60	90	90
segment radius of drive pinions [mm]	40	60	60	90	90
weight of chain [kg/m]	7.8	10.5	2 x 10.5	31	49

HD Lift

HD Lift 40 / HD Lift 60

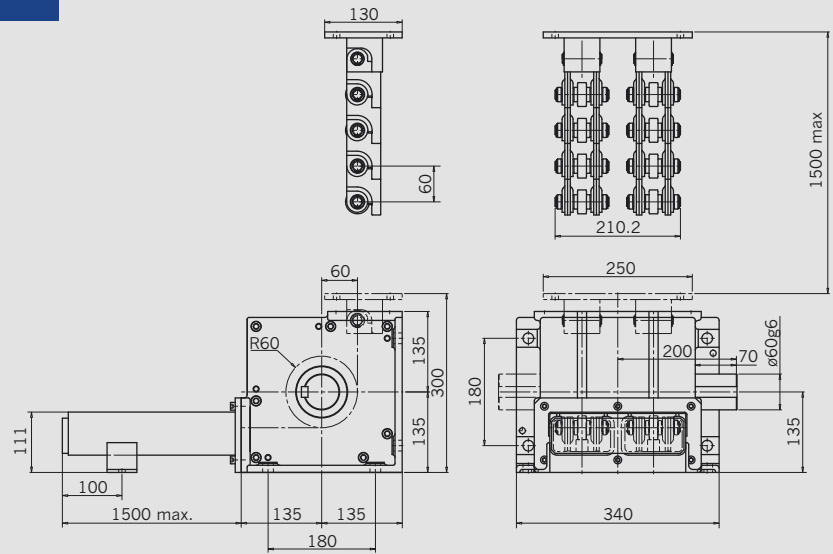


	max stroke	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
HD Lift 40	1000	230	202	1000	148.2	Ø25g6	101	60	145	100	100	40	40	120	184	170	86	10	100	70	70	26	8.5
HD Lift 60	1500	300	272	1500	180	Ø45g6	136	70	140	130	130	60	60	180	220	220	101	18	100	90	90	35	11

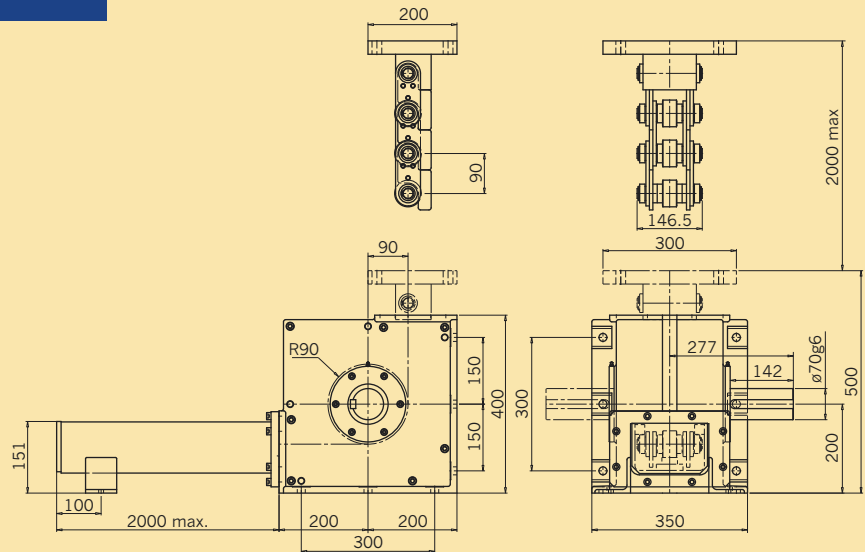
All dimensions in mm.



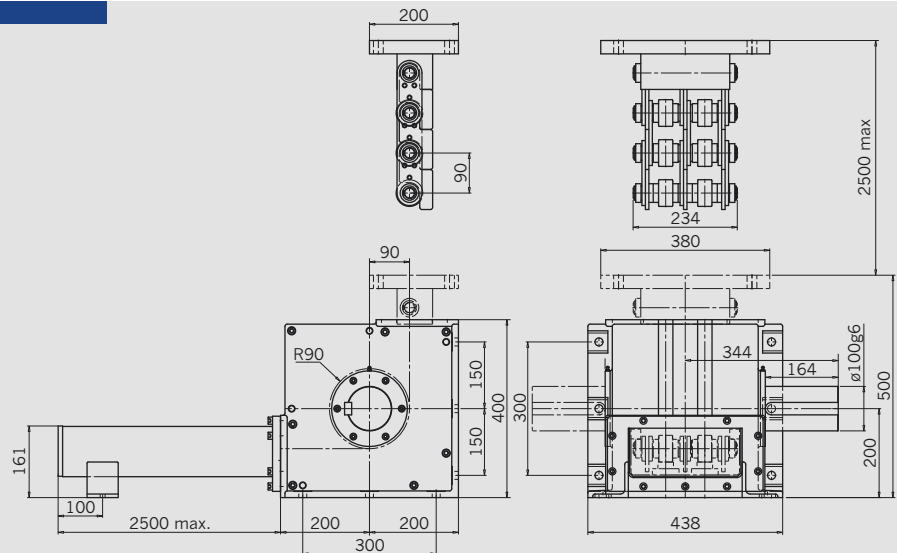
HD Lift 60J



HD Lift 90S



HD Lift 90D



LinkLift: the lifting chain

The LinkLift was specifically designed for heavy loads and significant heights. The block-shaped links, with square cross-sections, ensure the center of gravity is right in the geometric center. The links are aligned inside the

drive housing and interlock to form a rigid structural column. This creates a telescopic lifting column with high strength and rigidity. This is why the LinkLift has been patented internationally and won several awards.

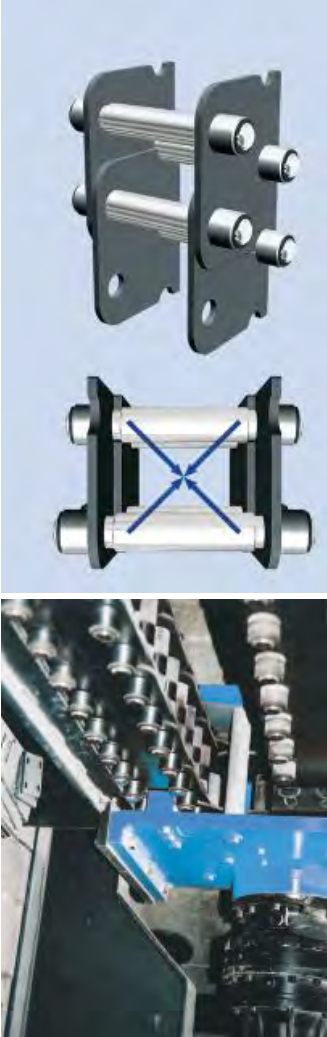
The LinkLift standard model range

	LinkLift 30	LinkLift 50 / 50 R	LinkLift 80	LinkLift 100 / 100R
dynamic load capacity [kN] [lbf]	10 2250	15 / 30 3350 / 6700	35 7850	50 / 100 11200 / 22400
static load capacity [kN] [lbf]	20 4500	30 6700	70 15700	100 22400
max stroke [m (ft)]	1.9 (6.2)	3.0 (9.8)	5.0 (16.4)	7.0 (23)
nominal speed up to [mm/s (ft/mn)]	200 (40)	200 (40)	200 (40)	200 (40)
system efficiency rate [%]	80	80	80	80
chain pitch [mm]	30	50	80	100
segment radius of pinions [mm]	30	50	80	100
minimum height [mm]	190	291	460	572
weight of chain [kg/m]	15	21 / 22	35	71 / 74
weight of drive housing [kg]	8	29 / 33	80	192 / 213
standard magazines:				
max stroke [m]: weight [kg]	1.9: 8	1.4: 19	2.2: 58	2.56: 83
		2.2: 29	3.54: 82	4.56: 132
		3.0: 39	5.0: 97	5.58: 159
				7.0: 196

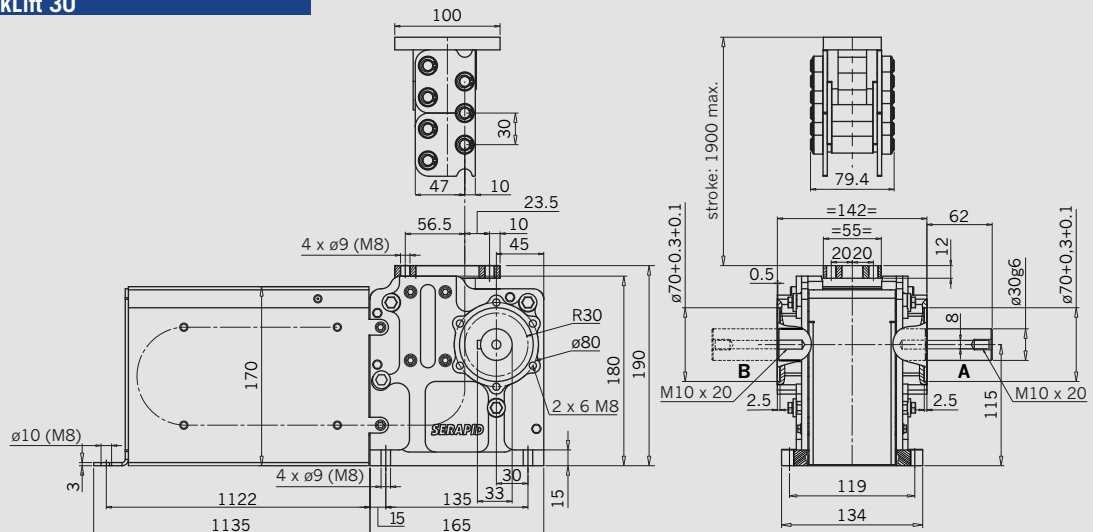
LinkLift

With the reinforced version **LinkLift R**, the maximum load and maximum stroke cannot be used together. If this is a requirement, please contact us. Please also call for shaft dimensions of R-versions.

Longer strokes, higher speeds and special magazines on request.



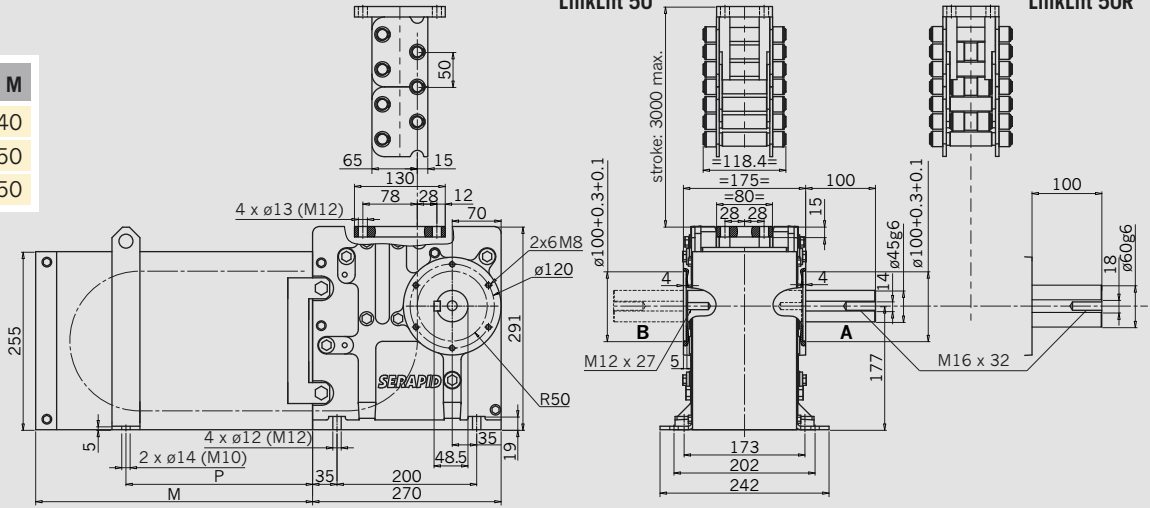
LinkLift 30



LinkLift 50 / 50R

magazine sizes

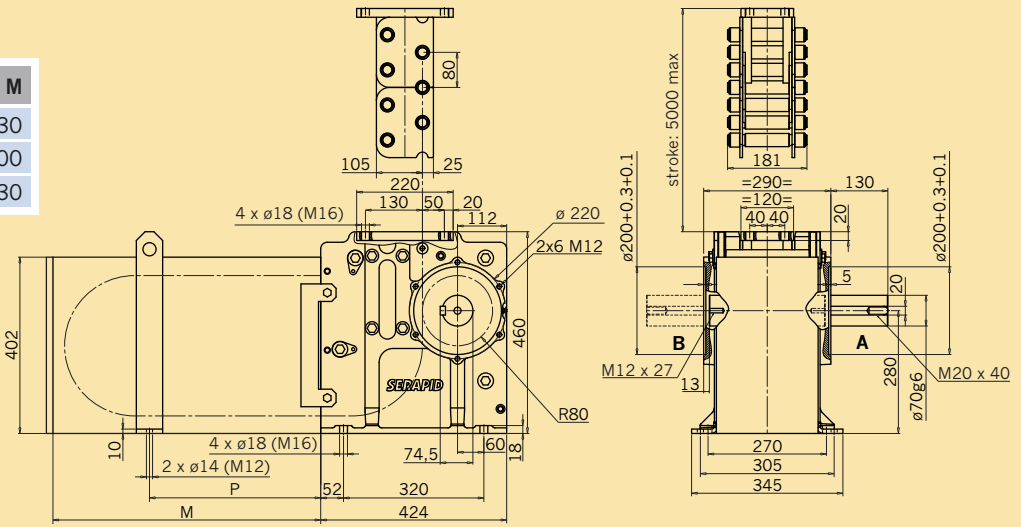
stroke	P	M
< 1400	420	840
< 2200	625	1250
< 3000	825	1650



LinkLift 80

magazine sizes

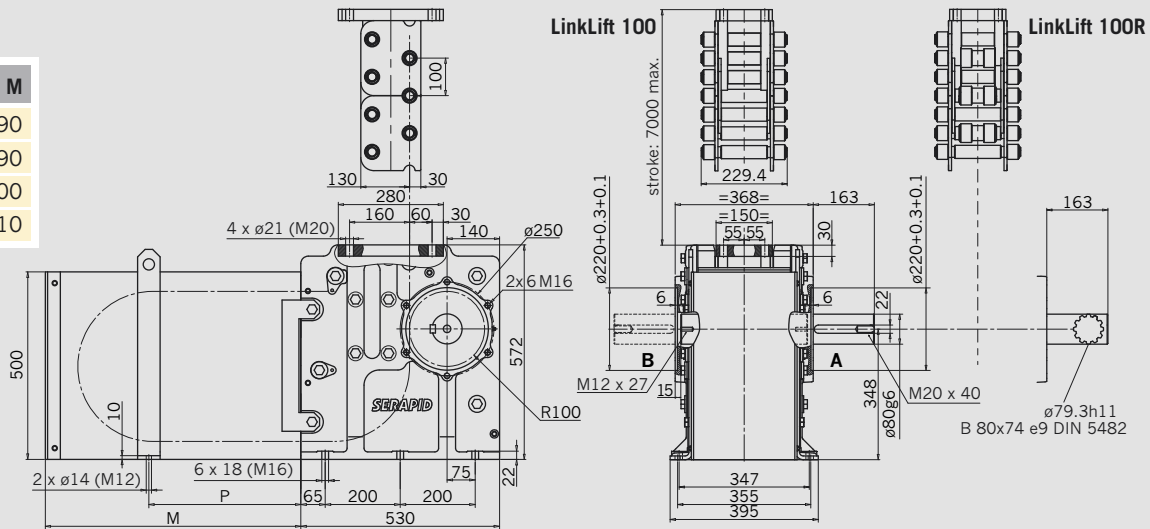
stroke	P	M
< 2200	665	1330
< 3540	1000	2000
< 5000	1365	2730



LinkLift 100 / 100R

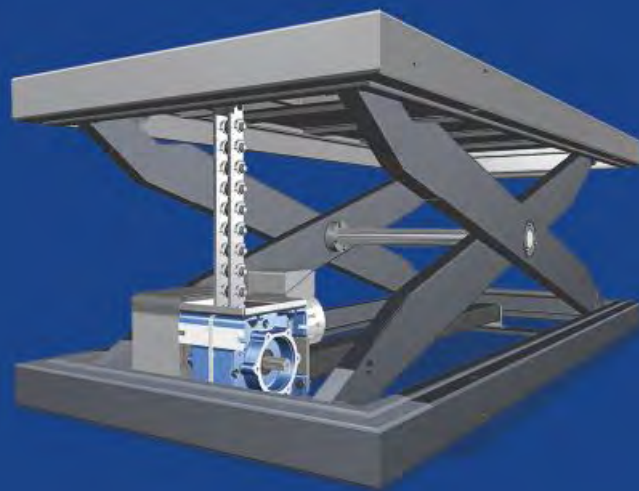
magazine sizes

stroke	P	M
< 2560	745	1490
< 4560	1245	2490
< 5580	1500	3000
< 7000	1855	3710





Linear telescopic lifting columns



www.serapid.com

SERAPID USA INC.

5400 18 Mile Road
Sterling Heights MI 48314, USA

Phone +1 586 274 0774

Fax +1 586 274 0775

info-us@serapid.com

Distributed in Australia & New Zealand By



Distributors for Australia & New Zealand

MOTION TECHNOLOGIES PTY LTD

24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782
Fax: (02) 9525 3878

sales@motiontech.com.au
www.motiontech.com.au

© 21/03/19

