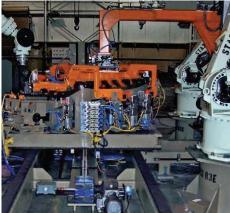
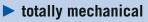
## LinearBeam am

the rigid-chain actuator with in-line return storage







▶ long stroke: 1m, 5m, 10m ...

▶ high loads: up to 160 kN and more

options for high-cycle operation and harsh environments





### Easy with heavy loads

Our LinearBeam series offers a wide range of actuators for the transfer and handling of heavy loads. Its most prominent feature is SERAPID's widely used and proven rigid-chain technology.

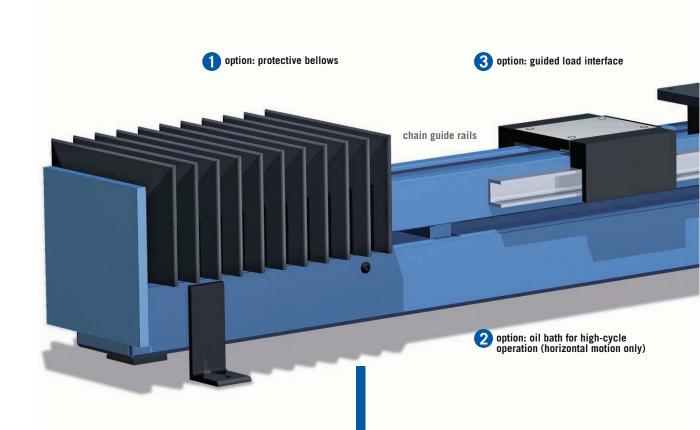
The rigid chain consists of links that interlock with each other under forward thrust and push the load like a solid bar. In the opposite direction, when retracting, the chain remains flexible. In the LinearBeam, it is redirected by 180°, so the returning portion is stored in parallel to the transfer path. This double utilization of the footprint space makes the LinearBeam easy to install even in confined and difficult environments.

The LinearBeam is completely mechanical, with high reliability, a long lifetime and with an energy efficiency of 80 to 90 percent making it a sustainable investment, ecologically as well as economically.

A comprehensive choice of options allows you to adapt the LinearBeam to your individual requirements. Special versions allow for operation in harsh environments or under heavy-duty, high-cycle conditions.

### **Application examples**

- ➤ 30 metres linear actuator system for handling nuclear waste
- motion system for a 200 tonne organ on a stage
- quick die change up to 160 kN (with single actuator), rolling-bolster systems for metal-forming presses
- opening and closing of variable roofs and canopies, e.g. in the roof of the Lisbon
  Arena over a distance of 16 m
- ► further applications in kinetic architecture
- material feeding in manufacturing
- steel mills
- furnace loading
- handling and positioning equipment on oil rigs
- load transfer within high-temperature zones
- and many more ...



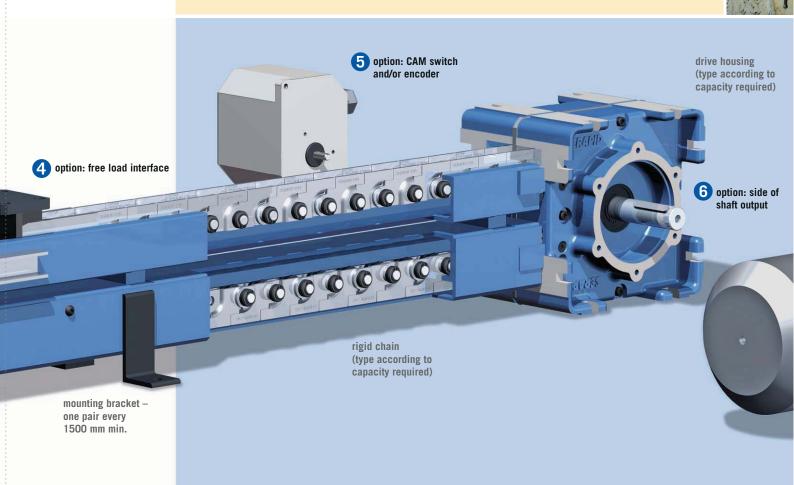


#### Features and benefits



- horizontal, vertical and inclined transfer
- rigid-chain technology, totally mechanical operation
- positive, accurate and repetitive positioning in the millimetre range
- simple and robust construction, suitable for special environments, such as clean rooms, high-temperature manufacturing, or radiation zones
- space saving, easy to integrate in machine structures
- high reliability, long lifetime, low maintenance
- wide range of options and accessories

- ► high-cyle operation using oil bath (option)
- ➤ standard speed up to 300 mm/s, higher speed on demand (up to 1 m/s)
- powered electrically, hydraulically or pneumatically
- special options: chain made of stainless steel, specific protective coatings, thermal resistance, etc
- multiple units, easy to configure
- associated services: project engineering, layout assistance, design studies, development, installation, etc.
- certified according to ATEX, Cat. II2GD c T4



# Line rigid-chain actuator with in-line return storage



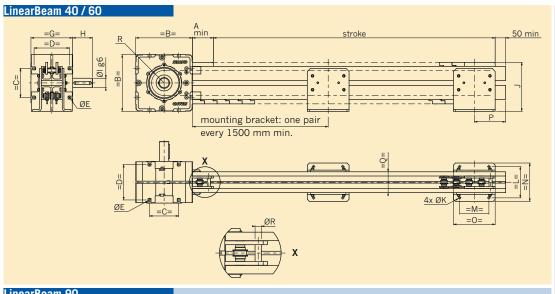
option	designation	application and function	conditions and possibili-					
1	protective bellows	keeps debris out of guides	includes end caps and mounting brackets; standard with oil bath (option 2)					
2	oil bath	permanent lubrica- tion	A sealed oil reservoir encloses the lower guide, allowing high operating cycles. (Only for horizontal applica- tion.)					
3	guided load interface	Load is attached to a guided carriage.	absorbs moments and side loads (The load itself is not guided.)					
4	free load interface	standard load attach- ment above guide	prevents transmission of moments onto chain					
5	CAM switch and/or encoder	position detection and control of accel- eration and decelera- tion	The standard CAM switch has 4 positions; additional switches can be installed on request. The encoder can be absolute or incremental.					
6	side of drive shaft output	side where motor is mounted	shaft output can be to A (left), B (right) side, or both sides					
7	gear motor or gear reducer	source of power driv- ing the chain; cus- tom-sized per appli- cation	mounted on shaft out- put; electric, pneu- matic or hydraulic; volt- age regulation or other utility as required					

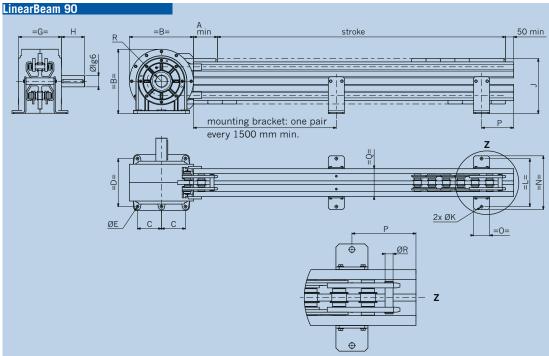




## the rigid-chain actuators with in-line return storage

### **Dimensions of each LinearBeam model**

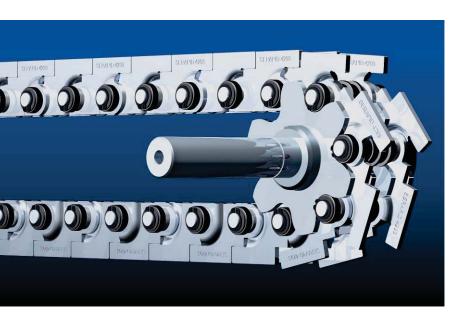




model	max kN	R	A min	В	C	D	Ε	G	Н	1	J	K	L	M	N	0	Р	Q	S
LB 40	7.5	40	66	202	120	140	10	168	59	25	168	10	130	90	160	150	100	80	10
LB \$60	25	60	100	272	140	170	14	200	95	45	235	11	150	140	184	200	150	100	15
<b>LB D60</b>	37	60	100	272	140	170	14	245	72	60	235	11	195	140	229	200	150	144	15
LB J60	50	60	100	272	140	170	14	259	72	60	235	11	209	140	243	200	150	168	15
LB S90	80	90	150	400	150	300	18	268	144	70	344	18	300	-	335	100	200	174	25
LB D90	130	90	150	400	150	300	18	356	164	100	344	18	388	-	423	100	200	264	25
LBJ90	160	90	150	400	150	300	18	375	164	100	344	18	407	-	442	100	200	283	25
special	>160	on demand																	

### LinearBeam\_

	information	remarks					
model	LB	load: <b>kg</b> ; pushing / pu	lling force: <b>N</b>				
stroke	m						
horizontal speed	mm/s	speeds > 200 mm/s require a frequency converter					
vertical speed	mm/s	speeds > 50 mm/s require a frequency converter					
cadence		cycles per day:	days per year:				
option 1: over hook	yes						
option 2: C-hook	yes						
option 3: E-guide	☐ yes						
option 4: T-rail guide	☐ yes						
option 5: CAM switch / encoder	□ A or □ B	number of positions:	☐ absolute or ☐ incremental				
option 6: shaft output side	□ A or □ B	type of gear motor / reducer:					
option 7*: gear motor / reducer	☐ yes	brand:					







北京泰瑞恩商贸有限公司 Beijing Torion Trading Co.,Ltd.

Tel:13801253818 Fax:010-84067150 www.torion.cn sales@torion.cn