

## IBC Linear Motion Bearings with run carriages

IBC linear motion bearing-run carriage systems allow a reliable and economic linear movement of machine parts. Their specific characteristics are long-term and maintenance &ndash;free operation, long service life, dynamic running behavior as well as noiseless running behavior, resulting in a low noise level at the workplace. These qualities make IBC linear guides an essential component for highly efficient, maintenance-free and safe machines with low power demand. IBC produces compact linear guides, which are easy to assemble on roller basis in an expanded construction kit system in three different overall sizes and in several designs.

Two different ways of attaching the rail systems are available. Cylindrical countersinks enable precise positioning of the track system. Conical countersinks are used where there are low precision requirements and where a quick assembly is of greater importance. Guides with fixed bearings and with floating bearings need no preparation and are able to compensate available parallelism faults within connection constructions.

The profile rails of linear guides are made of high-quality quenched and tempered steel and are protected against corrosion. The track rollers are manufactured out of bearing steel 100Cr6. The tracks of the series 18, 28H and 43 are hardened inductively, which leads to a high fatigue life, even with heavy loads. The inductive hardening process preserves the toughness of the material core. The profile 28H shows advancement towards the previous profile 28; the stiffness has been improved and an increase of load ratings has been achieved by reinforcement of the bars. On customer request, the tracks can also be delivered with a ground finish.

All these issues are indicators for an economic, reliable and productive product.

### Technical data:

#### Profile size 18

Dimension: 18 x 17,4 mm  
stat. Load ratings: up to 978 N

#### Profile size 28

Dimension: 28 x 24,1 mm  
stat. Load ratings: up to 2630 N

#### Profile size 43

Dimension: 43 x 37,5 mm  
stat. Load ratings: up to 6560 N

Shifting speed: up to 7 m/s

Guidance lengths: Guidance lengths are available from 240 mm to 3600 mm.

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### Fixed bearing system

LCX28H-1120.V/1/CN-21.2RS.AX

Floating bearing system

LCU28H-1120.V/1/CN-21.2RS.AU

Linear guides of the size H28.

Rail length 1120 mm.

Sealed version CN has 1 slider type CN with seals.

Rollers have service life lubrication with 2RS sealing.

A wiper system protects the track from dirt.