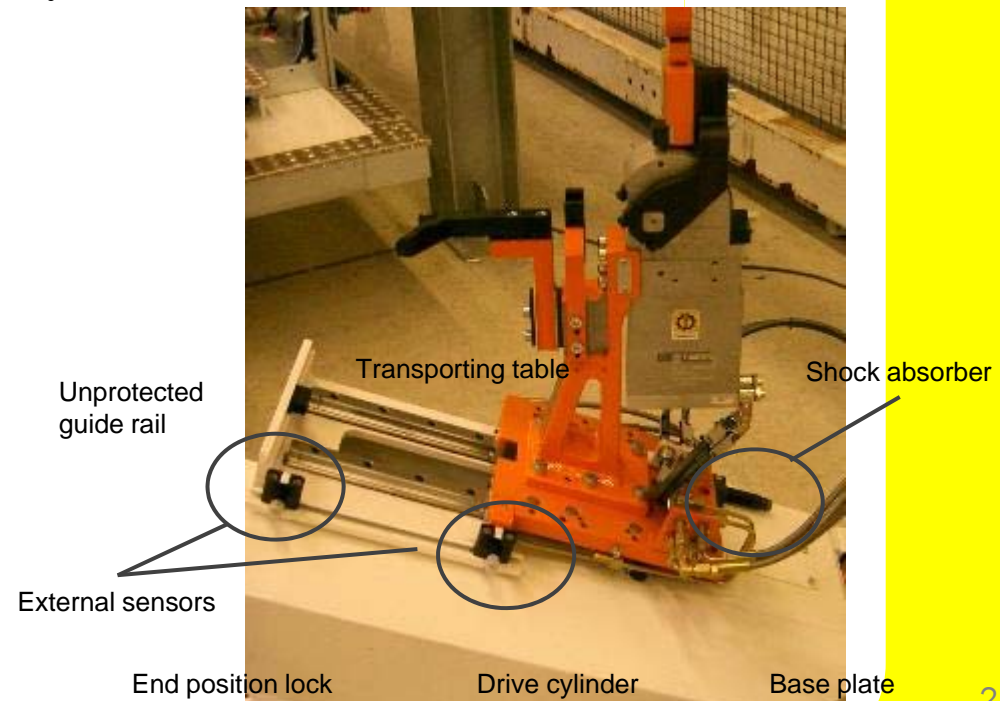


Linear unit with
toggle lock
in both end positions

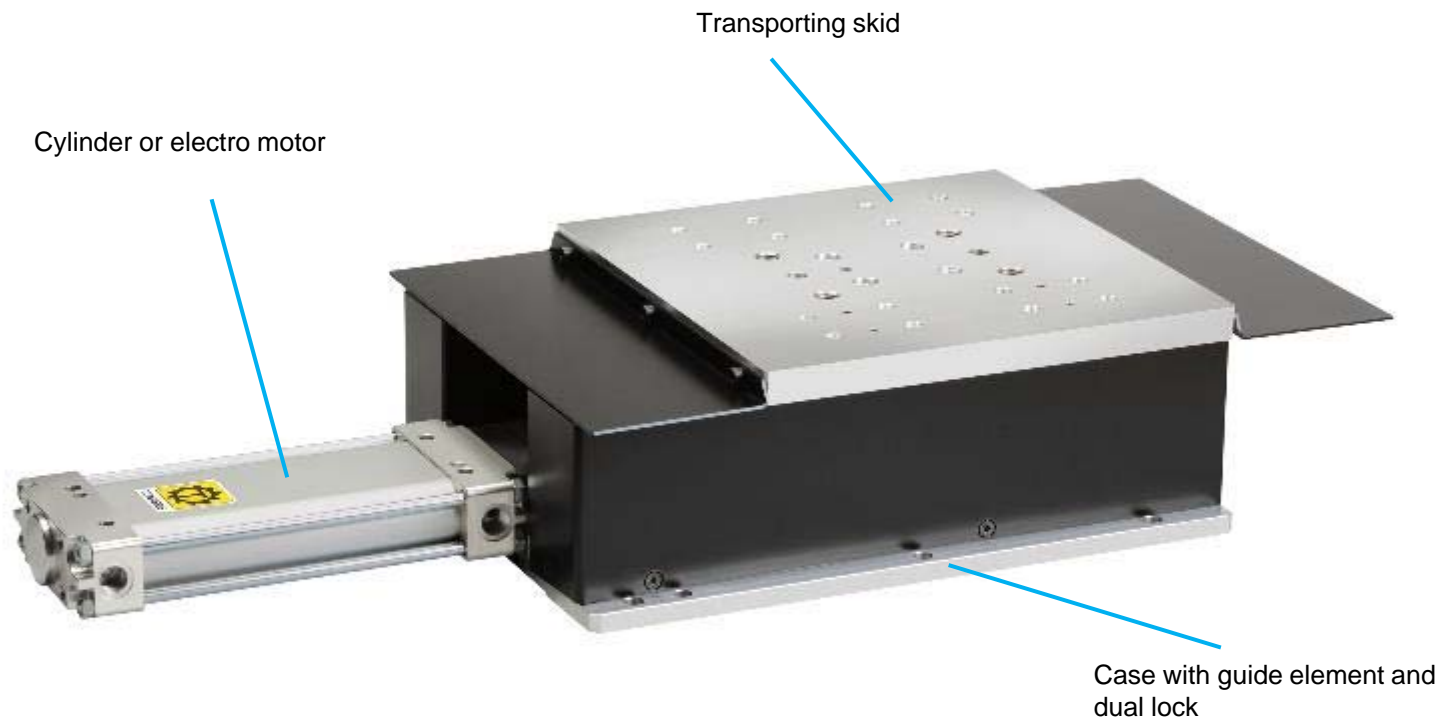
2014

- Linear units are used e.g. for transporting components, clamps or contour elements.
- Usually, the working position e.g. “position forward” is defined by means of a pin or lock for a safe position without backlash.
- In some cases, as e.g. positioning of underbody clamps for various vehicle types, both end positions are working positions which must be locked accordingly.
- For this lock, several elements (brake, clamp, pin, cylinder) are required in addition to the drive cylinder of the linear unit, which must be controlled separately.
 - Additional valve
 - Loss of cycle time
 - Additional space

Typical linear unit as special design



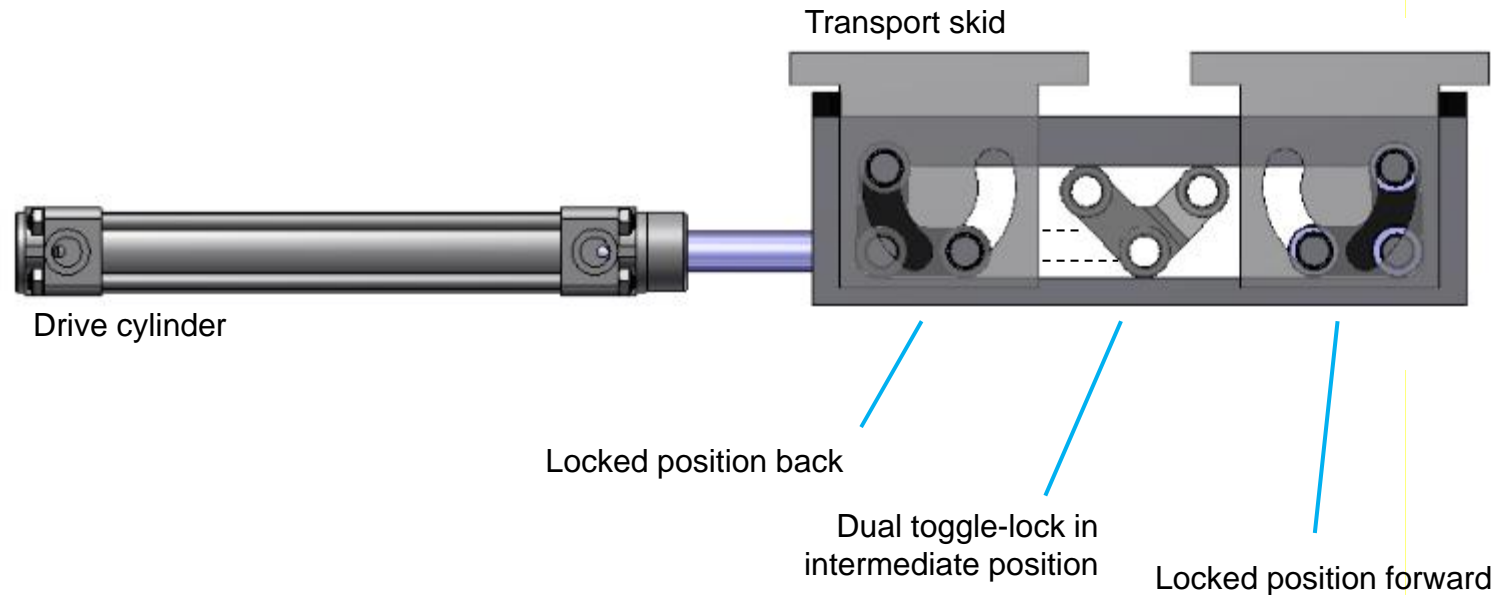
New TÜNKERS linear unit with dual lock



Linear unit in classical design

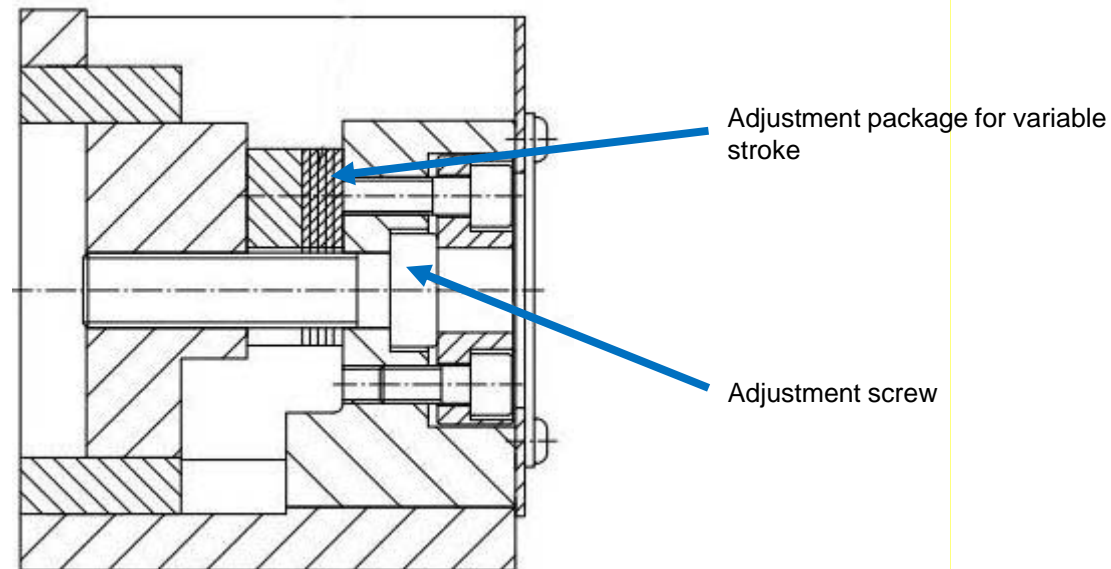
- Aluminium base plate
- Drive cylinder in flat design or alternatively with electric motor with spindle drive
- Guidance of the skid by means of four recirculating ball bearing slides

Patented: Dual toggle-lock mechanism



- Similar to the toggle-lock clamp, the piston rod of the cylinder does not actuate the skid directly, but via a toggle-lock mechanism
- In the end position, the joint moves beyond dead centre-lock – which means that the position is mechanically locked, backlash-free and safe even in case of a pressure drop.
- The joint has a double-angle design, thus locking in both positions.

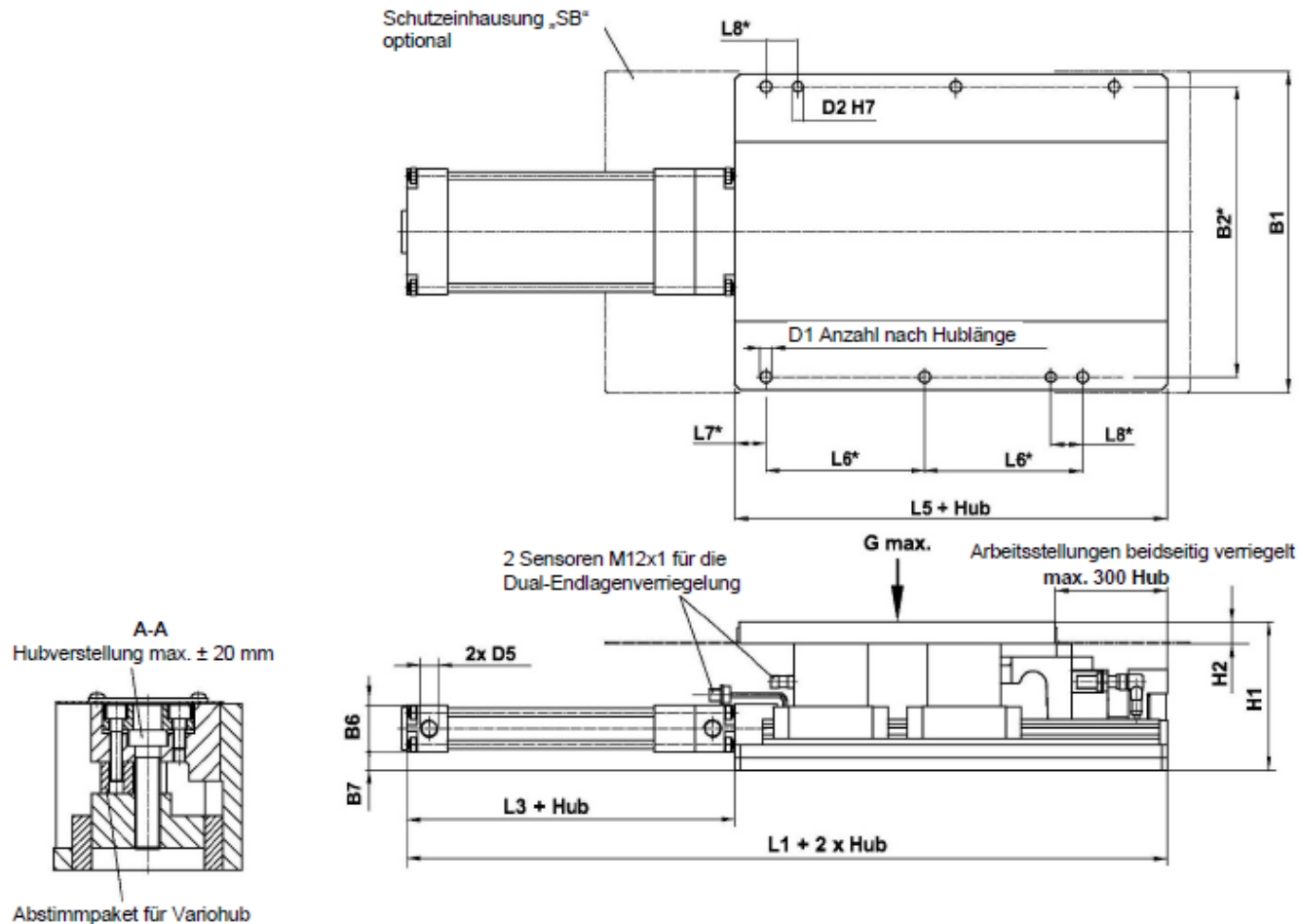
- For those cases in which the total stroke must be adjusted or corrected on site,
we offer the LEV unit also with a variable stroke.
 - Adjustment area ± 25 mm
 - Locking function remains unchanged
 - Stepless adjustment by screw with shims package/adjustment plates



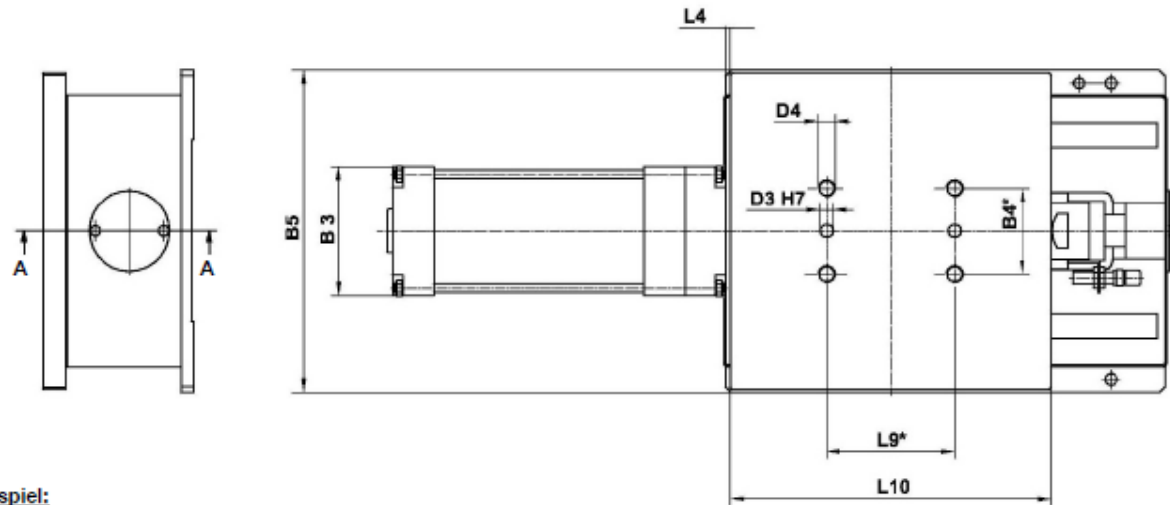
Lineareinheit

max. 300 mm Hub, mit Kniehebelverriegelung in beiden Endlagen, für horizontalen Einbau, optional mit Schutzeinhausung

LEV 100



Technical data LEV 100



Bestellbeispiel:

LEV 100 200 SB T02

LE 100: Typ
200: Hub
SB: Option: Schutzeinhausung
T02: Abfragesystem

G max.:
LEV 100 = 100 kg

Sonderhübe auf Anfrage.

Bestellschlüssel Tünkers Abfragesysteme:

...T00 Ohne Abfrage
...T02 Induktivabfrage 24 V, 2 Abgänge
ohne LED Anzeige

Für Belastungsangaben siehe separates Datenblatt.

*Toleranz für Stiftbohrungen $\pm 0,02$ für
Gewindebohrungen $\pm 0,1$.

Typ	Anstellkraft bei 6 bar	Drehmoment M max.	Standard Variöhübe	Gewicht bei 100 Hub ~ (kg)	L1	L3	L4	L5	L6	L7	L8	L9	L10
LEV 100	1,75 kN	100 Nm	100, 200, 300 ± 20 mm	40	525	215	4	310	150	30	30	120	300

Typ	B1	B2	B3	B4	B5	B6	B7	D1 Ø	D2 Ø	D3 Ø	D4	D5	H1	H2
LEV 100	305	276	120	80	300	45	17	11	10	12	M16	3/8	140	20,5

- Toggle-lock, backlash-free end position
- The transporting motion is stopped by the toggle-lock.
- Locked by the drive cylinder, no additional actuator required
- Standard strokes 100 mm, 200 mm, 300 mm
- Optional variable stroke ± 25 mm
- Max. load 100 kg

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