

The 3-Axes-Manipulator KM 931 features maximum manoeuvrability for your attachments at the loader crane's tip - and provides flexibility of the loader crane's use in any arc position.

- ▷ **3-axes-manipulator: maneuverability** by three hydraulic functions: gripping, rotating and tilting (3rd hydraulic circuit needed).
- ▷ **Endless rotation.**
- ▷ **High loads** up to 2,200 lbs.
- ▷ **Precise positioning** guaranteed by self-locking worm drive (KM 931-1000).
- ▷ **5-line feedthrough.**
- ▷ **Exchange system for the use with different attachments.**



3-Axes-Manipulator KM 931-1000

Type	Load capacity (lbs)	Slewing angle	Tilting angle	Rotation	Self weight (lbf)
KM 931-1000	2,200	130°	± 80°	360° endless	638

Package consists of: manipulator, hydraulic pilot controlled brake, worm drive, non-return valve

Please note: tubes or poles have to be grabbed always in the centre of gravity

Accessories

Type	Description
KM 980-2 c	Solenoid valve to upgrade to the third hydraulic control circuit, to switch when there are only two free hydraulic circuits available for three required functions (rotate, grab and tilt) - for 12/24 V, operating pressure max. 3,600 psi, oil flow 15.9 GPM. Complete including assembly parts, hose protection, hoses and assembly

Requirements of Truck Crane

Three hydraulic circuits needed

Operating pressure: 2,900 - 3,500 psi
Oil flow: 5 - max. 10.5 GPM

Technical Drawings

