

KM 930-1000 Special/KM 931-1000

Manipulator /
3-Axes-Manipulator

The pole grapple KM 930-1000 Special is a perfectly matched attachment for drilling sites. Poles can be gripped easily and positioned precisely.

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 cycle needed).
- ▶ **Endless rotation.**
- ▶ **High loads** up to 1000 kg.
- ▶ **Precise positioning** guaranteed by self-locking worm drive (KM 931-1000).
- ▶ **5-line feedthrough.**
- ▶ **KM 930-1000 Special** provides an **exchangeable jaw system.**

KM 930-1000 Special



Pole grapple KM 930-1000 Special

Type	Load capacity (kg)	Gripping range (min./max.) (mm)	Width E (mm)	Number of tines	Self weight (kg)	Closing force (kN)
KM 930-1000 Special	1000	(75/168)	1600	2	385	2 x 16
KM 930-1000 Special-S	---	(127/220)	---	---	---	---

Package consists of: manipulator, hydraulically released / self locking brake, KINSHOFER rotator, non-return valve

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

3-Axes-manipulator KM 931-1000

Type	Load capacity (kg)	Slewing angle	Tilting angle	Rotation	Self weight (kg)
KM 931-1000	1000	130°	± 40°	360° endless	290

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. 25 MPa, oil flow 60 l/min. Complete including assembly parts, hose protection, hoses and assembly

Requirements of truck crane

Type	Operating pressure at oil flow:
KM 930-1000 Special	max. 20 MPa (200 bar) at 20 - max. 40 l/min
KM 931-1000	20 - 24 MPa (200 - 240 bar) at 20 - max. 30 l/min

Three hydraulic circuits needed

⚠ **Mind the pressure!**

Technical drawings

