

# KM 930E

# Manipulators

The KM 930E Manipulator is the ideal tool to lift and position tubes and poles - for excavators with up to 12t / 26400 lbs or 25t / 55000 lbs operating weight.

- **Movability** due to three hydraulic functions: grab, rotate and tilt (3rd hydraulic circuit required).
- **Endless rotation.**
- **High load capacities** from 1000 kg / 2200 lbs to 2000 kg / 4400 lbs can be mastered by the **KINSHOFER** Manipulators.
- **Precise positioning** due to the flat 15t-rotator for KM 930-1000, or the integrated rotation for KM 930-2000 with 4000 Nm / 2950 ft.lbs torque.
- **Secure retention** of loads thanks to the integrated non-return valve and gripper pads at the tine tips.



### Manipulator KM 930E

Type	Load capacity (kg/lbs)	Pole Ø (min. - max.) (mm/in)	Width E (mm/in)	Number of tines	Weight (kg/lbs)	Closing force (kN/lbf)	Operating weight excavator (t)
<b>KM 930-1000E</b>	1000 / 2200	70 - 300 / 2.76 - 11.81	1385 / 54.53	2	430 / 946	36 / 7920	7 - 12 / 15400 - 26400
<b>KM 930-2000E</b>	2000 / 4400	250 - 600 / 9.84 - 23.62	2280 / 89.76	4	980 / 2156	32 / 7040	16 - 25 / 35200 - 55000

**Package consists of:** manipulator (without upper bracket), **KINSHOFER** rotation (KM 930-1000E: KM 15 F273/273; KM 930-2000E: integrated rotation), hydraulically unlockable brake, non-return valve

**Note:** tubes and poles must be clamped in the centre of gravity.

### KINSHOFER Rotator

Unlimited rotation. Overload protection due to pressure relief valves.

Type	Upper connection (bores/Ø hole pattern) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
<b>KM 930-1000E: KM 15 F273/273</b>	10 x M16 / Ø 273 / 10.75	2000 / 1475	50000 / 36875
<b>KM 930-2000E: Integrated Rotation</b>		4000 / 2950	

### Accessories

Type	Description
<b>KM 980-2 2t-8t</b>	solenoid valve for additional oil circuit to change over to 3 circuits (for gripping, lifting, turning) when only 2 circuits are available, ready for mounting – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min (do-it-yourself assembly)
<b>KM 980-2 2t-8t c</b>	solenoid valve KM 980-2 complete attachment kit including assembly components, hose guard, hoses and mounting on the KM 930E manipulator – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min / adapter for quick exchange systems from other manufacturers available

### Requirements of Excavator

	<b>KM 930-1000E</b>	<b>KM 930-2000E</b>
<b>Operating pressure (open/close):</b>	<b>max. 32 MPa (320 bar) / 4608 psi</b>	<b>max. 32 MPa (320 bar) / 4608 psi</b>
<b>Pump capacity (open/close):</b>	25 - 75 l/min / 6.61 - 19.82 GPM	40 - 120 l/min / 10.57 - 31.70 GPM
<b>Operating pressure (rotation):</b>	<b>20 - 35 MPa (200 - 350 bar) / 2901 - 5076 psi</b>	<b>17 - 25 MPa (170 - 250 bar) / 2466 - 3626 psi</b>
<b>Pump capacity (rotation):</b>	20 - 50 l/min / 5.28 - 13.21 GPM	40 - 75 l/min / 10.57 - 19.82 GPM

### Technical Drawings

