

A hydraulically operated attachment used for positioning tubes or poles, the KM 930 is for use on loader cranes with three functions. Flange mounting on the mechanical extension of the crane.

- ▷ **Manoeuvrability** through three hydraulic functions gripping, lifting and turning (rotation and tilting) of straight round poles (three hydraulic circuits are necessary). Unlimited angle of rotation.
- ▷ **Heavy loads** of 1,100 lbs up to 6,600 lbs can be handled by the KINSHOFER manipulators.
- ▷ **Precision operation** assured through continuous rotation, equipped with mechanically operating, hydraulic pilot controlled brake to prevent unintentional rotation.



### Manipulator KM 930

| Type        | Load capacity<br>(lbs) | Pipe - Ø<br>(min./max.)<br>(in) | Width<br>(in) | Number of<br>tines | Self weight<br>(lbs) | Closing force<br>(lbf) |
|-------------|------------------------|---------------------------------|---------------|--------------------|----------------------|------------------------|
| KM 930-500  | 1,100                  | 3.9 / 11.8                      | 31            | 1                  | 517                  | 2,420                  |
| KM 930-1000 | 2,200                  | 3.9 / 11.8                      | 50            | 2                  | 682                  | 5,060                  |
| KM 930-2000 | 4,400                  | 9.8 / 23.6                      | 54            | 4                  | 1,903                | 5,500                  |
| KM 930-3000 | 6,600                  | 9.8 / 23.6                      | 64            | 6                  | 2,387                | 8,580                  |

**Package consists of:** manipulator, KINSHOFER rotator (KM 930-500 / KM 930-1000) / KINSHOFER rotary drive (KM 930-2000 / KM 930-3000), hydraulic pilot controlled brake, 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

| Type                     | Operating pressure at oil flow:      |                           |
|--------------------------|--------------------------------------|---------------------------|
| KM 930-500 / KM 930-1000 | max. 2,880 psi at 20 - max. 10.6 GPM | <b>Mind the pressure!</b> |
| KM 930-2000              | max. 3,600 psi at 20 - max. 10.6 GPM |                           |
| KM 930-3000              | max. 3,600 psi at 20 - max. 19.6 GPM |                           |

### Technical drawings

