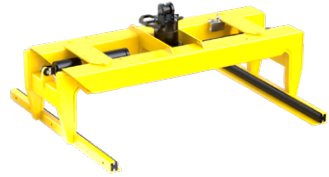


The sleeper loading grapple KM 333 SleeperE can grip and load five concrete sleepers at the same time. It is ideal for road rail excavators from 14t - 24t / 30800 - 52800 lbs operating weight.

- ▷ **Low weight.**
- ▷ **Efficiency:** Five concrete sleepers are clamped together at the same time by two hydraulic compression rails and then layed into the ballast bed. The loading / unloading of five sleepers simultaneously saves time compared to individual handling.
- ▷ **Precise synchronisation of the arms** as a result of two in series double acting hydraulic cylinders.
- ▷ **Safety** through internal pressure relief valve and non-return valve (safe clamping force at pressure drop).
- ▷ **Flexibility:** All railway sleepers B70W / B58W / BS66 can be taken thanks to an extremely wide and variable gripping area (1795 - 2865 mm / 70.7 - 112.8 in).
- ▷ **Long life** due to generously dimensioned bearings, integrated grease reservoir, automatic wear compensation of main bearing, spherical central bearing for the cylinders.



Package Sleeper Grapple KM 333 SleeperE

Type	Plunge depth (mm/in)	Load capacity (kg/lbs)	Gripping range min. - max. (mm/in)	Height (incl. rotator) (mm/in)	Weight (kg/lbs)
KM 333 SleeperE	400	2500	1795 - 2865	890	530

Package consists of: sleeper loading grapple, KINSHOFER rotator KM 10 F180-50, short hoses KM 203 01, compression rails (length 1840 mm), pressure relief valve, non-return valve

Note: the stated load capacity does not take into account the constitution of the charge (surface, mode of packing etc.). The load capacity is not valid in the case of low, unbound curbstones or concrete blocks.

Package "Atlas" Sleeper Grapple KM 333 SleeperE Atlas

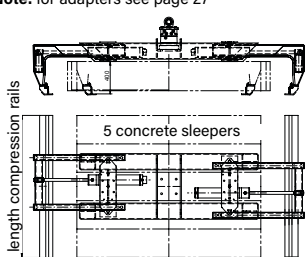
Type	Plunge depth (mm/in)	Load capacity (kg/lbs)	Gripping range min. - max. (mm/in)	Height (incl. rotator) (mm/in)	Weight (kg/lbs)
KM 333 SleeperE Atlas	400	2500	1795 - 2865	890	530

Package consists of: sleeper loading grapple, KINSHOFER rotator KM 10 F180-50 with head plate for Atlas T630, short hoses KM 203 01, compression rails (length 1840 mm), pressure relief valve, non-return valve

Accessories

Type	Description
KM 501 13t-25t	upper suspension without pendulum damper
T630 cardanic	upper suspension with pendulum damper for "Atlas"

Note: for adapters see page 27



Atlas head plate for T630



KINSHOFER Rotator

Continuous rotation and four oil passages. Overload protection is ensured by pressure relief valves.

Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Moment of deflection max. (Nm/ft.lbs)
KM 10 F180-50	110 x 50 / 4.3 x 2	2000 / 1475	15000 / 11063

Requirements of Excavator

Operating pressure
max. 20 - 32 MPa (200 - 320 bar) / max. 2880 - 4608 psi

Recommended oil flow
50 - max. 75 l/min / 13.2 - max. 19.8 GPM