

OTPA-31-1

**Tilt Rotator**



**Manufacturer** Engcon **Models** EC10B / 15B / 20B / 30B

**Description**

Engcon’s range of tilt rotators are equipped with double-acting tilt cylinders for optimized tilting force and even operation. The Tiltrotator is equipped with a standard control system that permits the simultaneous control of the rotation, slewing, hydraulic auxiliary function and hydraulic quick hitch.

This control makes the tilt rotator extremely useful in placing attachments in the optimal operating position or for quickly reversing position, saving time and delivering improved productivity.

The make and model of the excavator to which a tilt rotator will be fitted must be established so that the correct size can be selected. Engcon’s tilt rotators can be matched with most existing excavators, with machine weights of 10 to 32 tons.

Typical attachments that can be used with tilt rotator are excavator buckets, flails/brush cutters, pole grabs, grapples, pilling hammers, rail / tree croppers, ballast excavators and drilling rigs etc.

**Scope of Use** Connecting OTP attachments to excavator boom

**Competencies** Machine Controller & Crane Controller

**Product Approval No.** -

**Risk Control Sheet No(s).** NR/L3/MTC/RCS0216/MP01, MP07and MP21

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## Tilt Rotator

### Control Measures Required

Equipment Operator(s) to have Safe Systems of Work in place for all operational circumstances on the Network Rail Managed Infrastructure.

### Limitations in Use

1. Where the tilt rotator or anything attached to it is intended to be used for lifting any load, they must be approved for lifting by the manufacturer. The coupler shall be clearly marked with its safe working load and have undergone a thorough examination.
2. Where an adaptor plate is used to enable a lifting accessory to be attached to a tilt rotator the adaptor plate will become part of the lifting accessory and included in the six monthly thorough examinations.
3. A tilt rotator that is used for lifting shall have a valid LOLER certificate.
4. The tilt rotator shall be subject to all applicable limitations on the Engineering Acceptance certificate of the RRV to which it is attached.
5. The quick hitch shall only be used with an RRV who's RC! indicator is active, and the lifting duty is in excess of the beam / load in the most adverse condition.

### Minimum documentation requirement for the host machine are:

Operating Instructions, LOLER certificate (if appropriate) and Logbook

### Additional documents may include:

Test Records, Statutory Inspection & Test Records and Load Radius Charts (duty charts).

### Technical Specification

Model Type	EC 10B	EC 15B	EC 20B	EC 30B
Width (mm)	490	570	600	780
Length (mm)	536	698	800	970
Height (mm)	420	440	450	740
Weight: (kg)	270	360	470	850
Rotation	unlimited	unlimited	unlimited	unlimited
Tilt Range	+/-40°	+/-40°	+/-40°	+/-40°
Flow requirement (l/min)	20 - 40	40 - 60	40 - 80	40 - 80
Hydraulic pressure (bar)	180 - 210	180 - 210	180 - 210	180 - 210
Machine weight (t)	6 - 14	12 - 18	16 - 24	22 - 32