

Tiltrotator EC02B

engcon®

Suitable for all excavators in the 1.5-2.5 tonne weight class

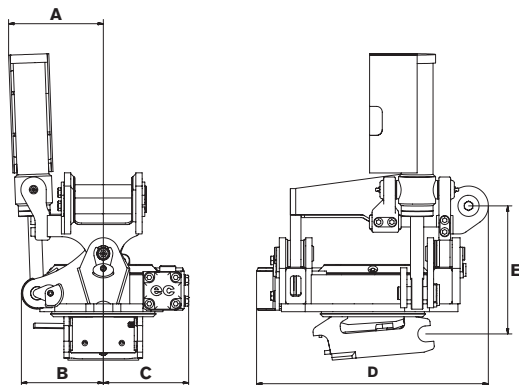
The tiltrotator: One of the market's smallest tiltrotator's for really small machines weighing up to 2.5 tonnes. With a basic weight of 65 kg, the EC02B has a minimal impact on stability while delivering access and flexibility that only a tiltrotator can provide.

- » Rotation ∞
- » $\pm 40^\circ$ tilt
- » Complies with European safety standards
- » A load-holding valve as standard equipment provides maximum safety

Quick hitch: We offer most types of hitches available on the market.

Control system: Choose between several different control systems based on your machine's characteristics. The EC02B can usefully be fitted with Engcon's DC2 proportional control system for infinitely variable high precision control and remote support via the cell phone network.

Electrical system: Standard 12 volt.



Specifications

Type	EC02B
Width A: (mm)*	180
Width B: (mm)*	155
Width C: (mm)*	160
Length overall D: (mm)*	435
Construction height E: (mm)*	from 245
Weight: (kg)*	77
Tilt:	2x40°
Rec. hydraulic flow DC2/SS10 (l/min):	25
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	7/20
Max hydraulic pressure: (MPa)	22
Standard attachments:	S30
Max bucket width rec. by Engcon: (mm)	900
Max breakout torque: (kNm)	20
Base machine weight: (t)	1,5-2,5

*Standard attachment

TOOL SYSTEMS FOR INCREASED PROFITABILITY

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Tiltrotator EC204

engcon®

Suitable for all excavators in the 2-4 tonne weight class

EC204, optimized for 2–4 ton excavators and can be fitted with integrated grab or extra hydraulic functionality.

The EC204 has a tilt angle of 45 degrees and can be fitted with engcon's proportional control system DC2, for stepless control with the highest precision and remote support via the mobile network.

The tiltrotator: Are supplied with hose, quick couplings and electrical installation for one machine. Top attachment point can be adapted to most machines.

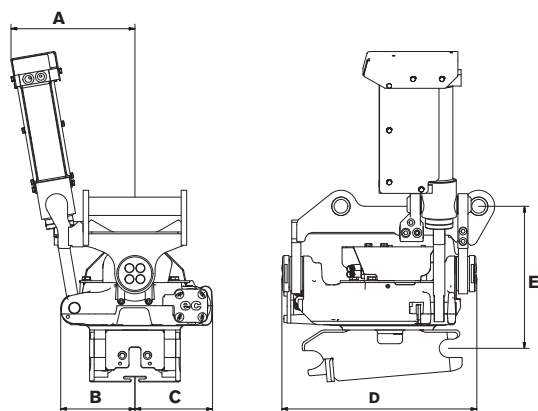
- » Rotation ∞
- » $\pm 45^\circ$ tilt
- » Complies with European safety standards
- » Extra outlet as standard equipment, or double extra outlets (does not apply to models with grabs)

Quick hitch: We offer most types of hitches available on the market.

Control system: Choose between several different control systems based on your machine's characteristics. The EC204 can usefully be fitted with Engcon's DC2 proportional control system for infinitely variable high precision control and remote support via the cell phone network.

Electrical system: Standard 12-volt.

Accessory: Integrated gripper.



Specifications

Type	EC204
Width A: (mm)*	267
Width B: (mm)*	161
Width C: (mm)*	169
Length overall D: (mm)*	463
Construction height E: (mm)*	from 310
Weight: (kg)*	116
Tilt:	2 x 45°
Rec. hydraulic flow DC2/SS10 (l/min):	30
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	10/25
Max hydraulic pressure: (MPa)	22
Standard attachments:	S40
Max bucket width rec. by Engcon: (mm)	1,000
Max breakout torque: (kNm)	28
Base machine weight: (t)	2-4

*Standard attachment

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Tiltrotator EC206

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For excavators in the 4–6 tonne weight classes. Now with EC-Oil automatic quick hitch system.

Like its big brother, the EC206 has advantages that make excavators safer, more efficient and more profitable. Unlimited rotation and 45 degree tool or bucket tilt means fewer machine movements and the ability to work in hard-to-get-at places.

NEW for 2022! Connect and disconnect hydraulic tools beneath the tiltrotator without having to leave the cab. The newly developed S40 quick hitch means we can now offer the EC-Oil automatic quick hitch system on the lower EC206 hitch. In addition to EC-Oil, it's also possible to use manual TEMA hydraulic connectors, or connectors from other manufacturers. The newly developed S hitch also comes ready for the detachable grab cassette, enabling a grip claw to be quickly and easily connected. In addition to these features, the EC206 also comes ready for tilt and rotation sensors, allowing connection of the tiltrotator to a machine control system.

The EC206 has integrated lubrication channels that are routed to a single grease point, making daily maintenance easier. Load-holding valves on the tilt cylinders come as standard for your safety and that of others.

Characteristics:

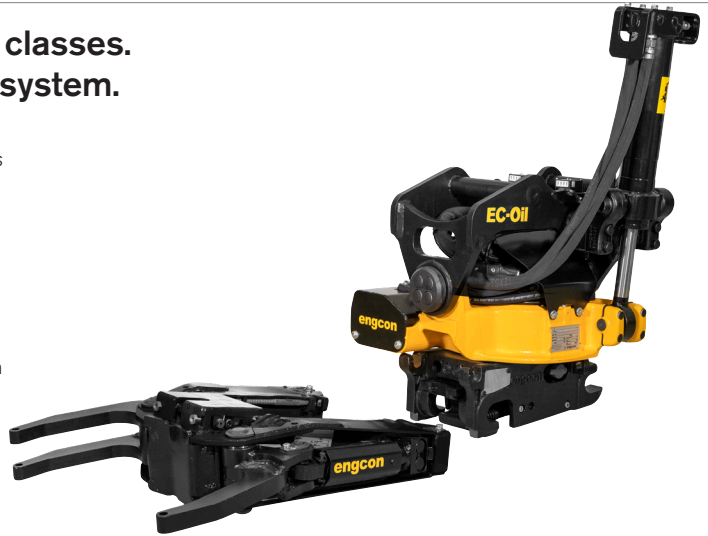
- » The EC-Oil automatic quick hitch system on the upper section comes as standard with the simultaneous purchase of a tiltrotator, machine hitch and engcon control system
- » Lower quick hitch ready for EC-Oil automatic quick hitch system
- » Ready for an integrated grab
- » Ready for tilt & rotation sensors for connection to machine control
- » Extra hydraulic socket for hydraulic tool connection even when EC oil is connected
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders as standard for even better safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Unlimited rotation

Contact engcon for other hitch systems.

Control system: Standard – engcon's proportional control system for infinitely variable control with remote support capability, track/wheel control and boom slew.

Electrical system: 12-volt washer standard.

Accessory: Integrated grab cassette.



Specifications

Type		EC206
Max machine size	kg	6,000
Max breakout torque	kNm	45
Max bucket width	mm	1,200
Max hydraulic pressure	MPa	22
Max rec. return line pressure	MPa	2.5
Rec. unlock/lock pressure SQ S30-S3, HS03/08	MPa	21 / 3-6
Rec. open/close pressure SQ ECPUP	MPa	21 / 10-21
Rec. open/close pressure SQ Q-Safe	MPa	21
Weight	kg	183
Width (A)	mm*	286
Width (B)	mm*	220
Width (C)	mm*	219
Overall length (D)	mm*	500
Construction height (E)	mm*	410
Swivel channel extra function, number of sockets		4
Swivel channel locking function, number of sockets		2
Rotation		∞
Tilt angle	°	2x45
Tilt duration from end position to end position	s / l / min	3 / 15
Rotation time for one revolution under hydraulic flow	s / l / min	6.5 / 30
Standard dimension, extra socket***		3 / 8"

* Standard attachment

*** Default configuration

** [l / min] with High Flow

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Tiltrotator EC209

engcon®

Suitable for all excavators in the 6-9 tonne weight class

A compact, powerful tiltrotator with low weight for excavators up to 9 tons. If the EC209 is selected with engcon's standard quick hitch S45 and the proportional control system DC2, EC-Oil is offered an automatic quick hitch system as a free standard** This means that the tiltrotator and hydraulic tools can be connected & disconnected without the operator needing to leave the cab.

Comes supplied with hose, quick couplings and electrical installation equipment for one machine.

Characteristics:

- » The EC-Oil automatic quick hitch system connects the tiltrotator & hydraulic tools without the operator needing to leave the cab**
- » Q-Safe quick hitch for maximum safety
- » Comes ready for detachable gripper GRD (S45)
- » Comes ready for sweeper SWD (S45)
- » Comes ready for the QSC locking system to avoid wrongly connected or dropped buckets
- » Comes ready for a rotation sensor (ePS) for connection to the excavator guidance system
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders for maximum safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Rotation ∞

Quick hitch: Standard –S45 For other purposes, we can supply most types of hitches available on the market.

Control system: Standard – DC2 proportional control system for infinitely variable control with remote support capability, track/wheel steering and boom slew. For other purposes, we can deliver custom control systems.

Electrical system: Can be adapted for 12 or 24 volt electrical systems.

Accessory: GRD detachable gripper cassette*, SWD detachable sweeper*.

* Read more about the GRD at www.engcon.com

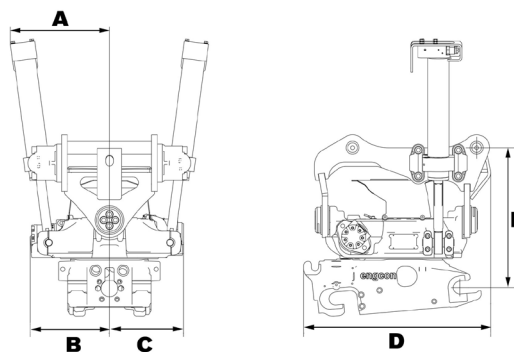
** Read more about the terms and conditions concerning the EC-Oil automatic quick hitch system as a free standard at www.engcon.com



Specifications

Type	EC209
Width A: (mm)*	277
Width B: (mm)*	250
Width C: (mm)*	273
Length overall D: (mm)*	561
Construction height E: (mm)*	from 425
Weight: (kg)*	287
Tilt:	2x45°
Rec. hydraulic flow DC2/SS10 (l/min):	60
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	35/40
Max hydraulic pressure: (MPa)	22
Standard attachments:	S45, S50
Max bucket width rec. by Engcon: (mm)	1,300
Max breakout torque: (kNm)	74
Base machine weight: (t)	6–9

*Standard attachment



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Tiltrotator EC214

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Suitable for all excavators in the 9-14 tonne weight class

A compact, powerful tiltrotator with low weight and height for excavators up to 14 tons. If the EC214 is selected with engcon's standard quick hitch S45 or S60 and the DC2 proportional control system, EC-Oil is offered an automatic quick hitch system as a free standard**. This means that the tiltrotator and hydraulic tools can be connected & disconnected without the operator needing to leave the cab.

Supplied complete with hoses, quick couplings and electrical equipment for one machine.

Features:

- » The EC-Oil automatic quick hitch system connects the tiltrotator & hydraulic tools without the operator needing to leave the cab**
- » Q-Safe quick hitch for maximum safety
- » Comes ready for detachable gripper GRD
- » Comes ready for sweeper SWD
- » Comes ready for the QSC locking system to avoid wrongly connected or dropped buckets
- » Comes ready for a rotation sensor (ePS) for connection to the excavator guidance system
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders for maximum safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Rotation ∞

Quick hitch: Standard – S45 or S60. For other purposes, we can supply most types of hitches available on the market.

Control system: Standard – DC2 proportional control system for infinitely variable control with remote support capability, track/wheel steering and boom slew. For other purposes, we can deliver custom control systems.

Electrical system: Can be adapted for 12 or 24 volt electrical systems.

Accessory: GRD detachable gripper*, SWD sweeper*.

* Read more about the GRD at www.engcon.com

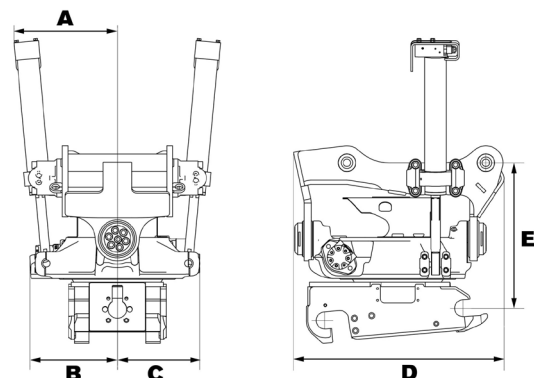
** Read more about the terms and conditions concerning the EC-Oil automatic quick hitch system as a free standard at www.engcon.com



Specifications

Type	EC214
Width A: (mm)*	320
Width B: (mm)*	285
Width C: (mm)*	303
Length overall D: (mm)*	665
Construction height E: (mm)*	from 457
Weight: (kg)*	385
Tilt:	2x45°
Rec. hydraulic flow DC2/SS10 (l/min):	80
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	35/50
Max hydraulic pressure: (MPa)	22
Standard attachments:	S45, S50, S60
Max bucket width rec. by Engcon: (mm)	1,600
Max breakout torque: (kNm)	126
Base machine weight: (t)	9-14

*Standard attachment



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Tiltrotator EC219

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Suitable for all excavators in the 14-19 tonne weight class

A compact, powerful tiltrotator with low weight and height for excavators up to 19 tons. If the EC219 is selected with engcon's standard quick hitch S60 and the DC2 proportional control system, EC-Oil is offered an automatic quick hitch system as a free standard** This means that the tiltrotator and hydraulic tools can be connected & disconnected without the operator needing to leave the cab.

Comes supplied with hose, quick couplings and electrical installation equipment for one machine.

Characteristics:

- » The EC-Oil automatic quick hitch system connects the tiltrotator & hydraulic tools without the operator needing to leave the cab**
- » Q-Safe quick hitch for maximum safety
- » Comes ready for detachable gripper GRD (S60)
- » Comes ready for sweeper SWD (S60)
- » Comes ready for the QSC locking system to avoid wrongly connected or dropped buckets
- » Comes ready for a rotation sensor (ePS) for connection to the excavator guidance system
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders for maximum safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Rotation ∞

Quick hitch: Standard –S60. For other purposes, we can supply most types of hitches available on the market.

Control system: Standard – DC2 proportional control system for infinitely variable control with remote support capability, track/wheel steering and boom slew. For other purposes, we can deliver custom control systems.

Electrical system: Can be adapted for 12 or 24 volt electrical systems.

Accessory: GRD detachable gripper*, SWD detachable sweeper*.

* Read more about the GRD at www.engcon.com

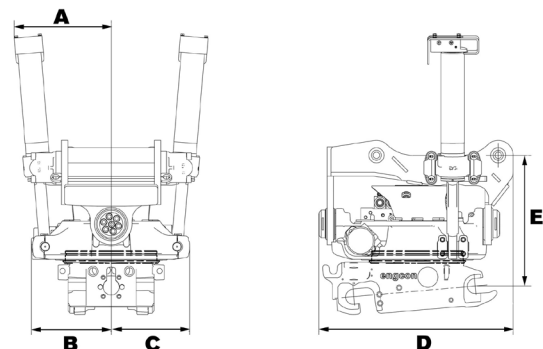
** Read more about the terms and conditions concerning the EC-Oil automatic quick hitch system as a free standard at www.engcon.com



Specifications

Type	EC219
Width A: (mm)*	396
Width B: (mm)*	315
Width C: (mm)*	310
Length overall D: (mm)*	737
Construction height E: (mm)*	from 480
Weight: (kg)*	447
Tilt:	2x45°
Rec. hydraulic flow DC2/SS10 (l/min):	120
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	65/70
Max hydraulic pressure: (MPa)	22
Standard attachments:	S60
Max bucket width rec. by Engcon: (mm)	1,700
Max breakout torque: (kNm)	186
Base machine weight: (t)	14–19

*Standard attachment



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Tiltrotator EC226

engcon®

Suitable for all excavators in the 19-26 tonne weight class

A powerful tiltrotator with low weight and height for excavators up to 26 tons. If the EC226 is selected with engcon's standard quick hitch S70 and the DC2 proportional control system, EC-Oil is offered an automatic quick hitch system as a free standard**. This means that the tiltrotator and hydraulic tools can be connected & disconnected without the operator needing to leave the cab.

Comes supplied with hose, quick couplings and electrical installation equipment for one machine.

Features:

- » The EC-Oil automatic quick hitch system connects the tiltrotator & hydraulic tools without the operator needing to leave the cab**
- » Q-Safe quick hitch for maximum safety
- » Comes ready for the QSC locking system to avoid wrongly connected or dropped buckets
- » Comes ready for a rotation sensor (ePS) for connection to the excavator guidance system
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders for maximum safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Rotation ∞

Quick hitch: Standard – S70. For other purposes, we can supply most types of hitches on the market.

Control system: Standard – DC2 proportional control system for infinitely variable control with remote support capability, track/wheel steering and boom slew. For other purposes, we can deliver custom control systems.

Electrical system: Can be adapted for 12 or 24 volt electrical systems.

Accessory: Integrated gripper, GRD detachable gripper cassette*

* Read more about the GRD at www.engcon.com

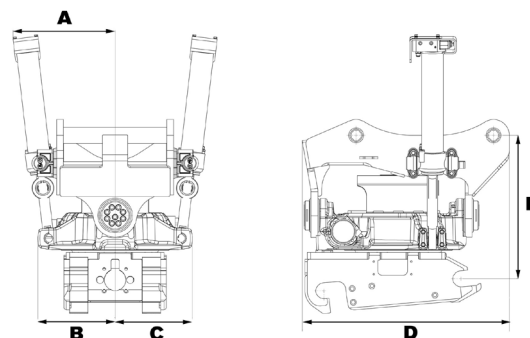
** Read more about the terms and conditions concerning the EC-Oil automatic quick hitch system as a free standard at www.engcon.com



Specifications

Type	EC226
Width A: (mm)*	426
Width B: (mm)*	340
Width C: (mm)*	340
Length overall D: (mm)*	760
Construction height E: (mm)*	from 500
Weight: (kg)*	632
Tilt:	2x45°
Rec. hydraulic flow DC2/SS10 (l/min):	120
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	70/70
Max hydraulic pressure: (MPa)	22
Standard attachments:	S70
Max bucket width rec. by Engcon: (mm)	2,000
Max breakout torque: (kNm)	270
Base machine weight: (t)	19–26

*Standard attachment



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Tiltrotator EC233

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Suitable for all excavators in the 26-33 tonne weight class

One of the market's most powerful tiltrotators adapted for excavators up to 33 tons. If the EC233 is selected with engcon's standard quick hitch S80 and the DC2 proportional control system, EC-Oil is offered an automatic quick hitch system as a FREE standard**. This means that tiltrotator and hydraulic tools can be connected & disconnected without the operator needing to leave the cab.

Comes supplied with hose, quick couplings and electrical installation equipment for one machine.

Features:

- » The EC-Oil automatic quick hitch system connects the tiltrotator & hydraulic tools without the operator needing to leave the cab**
- » Q-Safe quick hitch for maximum safety
- » Comes ready for the QSC locking system to avoid wrongly connected or dropped buckets
- » Comes ready for a rotation sensor (ePS) for connection to the excavator guidance system
- » Central lubrication (a single grease point for the entire tiltrotator; can also be connected to the excavator's central lubrication system)
- » Load-holding valves on tilt cylinders for maximum safety
- » Hardened piston rods
- » Up to ± 45 -degree tilt angle for best access
- » Rotation ∞

Quick hitch: Standard – S80 For other purposes, we can supply most types of hitches available on the market.

Control system: Standard – DC2 proportional control system for infinitely variable control with remote support capability, track/wheel steering and boom slew. For other purposes, we can deliver custom control systems.

Electrical system: Can be adapted for 12 or 24 volt electrical systems.

Accessory: Integrated gripper, GRD detachable gripper cassette*

* Read more about the GRD at www.engcon.com

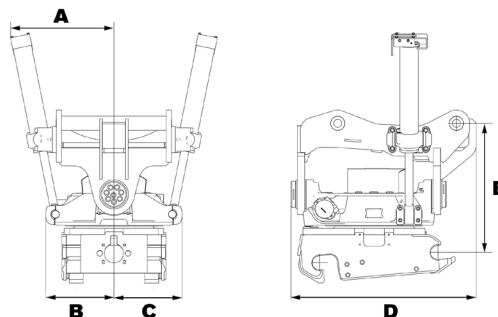
** Read more about the terms and conditions concerning the EC-Oil automatic quick hitch system as a free standard at www.engcon.com



Specifications

Type	EC233
Width A: (mm)*	501
Width B: (mm)*	385
Width C: (mm)*	385
Length overall D: (mm)*	878
Construction height E: (mm)*	from 673
Weight: (kg)*	812
Tilt:	2x45°
Rec. hydraulic flow DC2/SS10 (l/min):	120
Rec. hydraulic flow SS9 tilt/rotation: (l/min):	70/70
Max hydraulic pressure: (MPa)	25
Standard attachments:	S70, S80, S2
Max bucket width rec. by Engcon: (mm)	2,200
Max breakout torque: (kNm)	340
Base machine weight: (t)	24–33

*Standard attachment



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Optional extras

Joystick MIG2

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Engcon's MIG2 joystick for excavators combines ergonomic design with functionality. The joystick was developed for maximum comfort, without compromising on requirements for increased safety and additional control functions.

Designed in collaboration with contractors, each joystick can be fitted with three rollers and seven buttons – an FNR switch is also available where joystick steering on wheeled excavators is required.

The joystick has an integrated hand support for the wrist to rest on without affecting the excavator movements. The hand support is flexible and can be adapted to different hand sizes.

MIG2 also provides the operator new methods of operation. The joystick's rollers are intended for use by the thumb, index and middle fingers – something that's unique to Engcon.

In this way the operator can operate six proportional tiltrotator and excavator functions simultaneously as standard when necessary*.

In this way the operator can operate six proportional tiltrotator and excavator functions simultaneously when necessary.

** additional rollers can be accommodated*



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Control system DC2

engcon®

Our DC2 control system meets the high standards demanded of all components such as hydraulics, electronics and software.

Together with Engcon tiltrotators and Q-Safe, the DC2 makes for a safer working environment. DC2 offers the option of track control, wheel steering and boom slew as well as other excavator functions.

A smartphone app allows remote support as a complement to PC and USB cable connection.

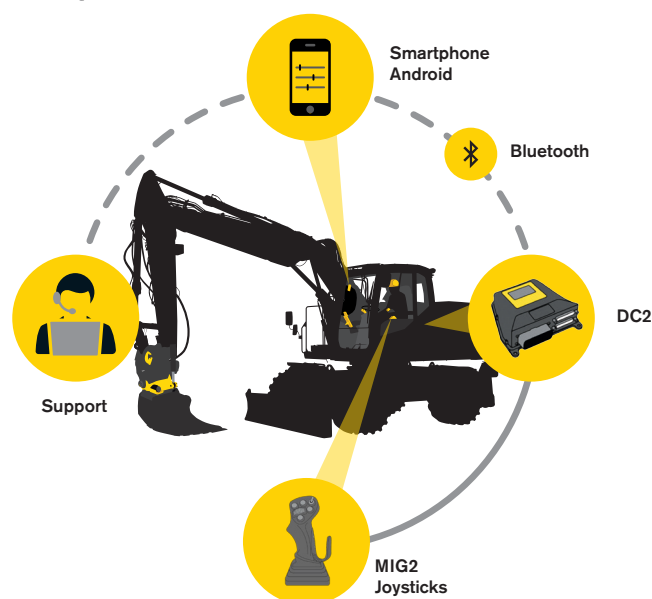
The product meets the ISO 13849-1 safety standard.

Advantages:

- » DC2 complies with the new international machine safety standard SS-EN ISO 13849-1
- » Fitted with an automatic basic calibration function for quick starts
- » Automatically backs up operator settings
- » Option of track control, wheel steering, boom slew and other excavator functions
- » Function settings and tools can be adjusted using an android phone/tablet with the Microprop App via Bluetooth for up to four different operators
- » Controls up to six proportional functions as standard and a further 14 on/off functions with MIG2 joysticks
- » Suitable for most machines on the market
- » Ability to create adapted tool programmes

The DC2 control system meets all current and known future safety requirements.

** additional rollers and functions can be accommodated*



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Hitch locking system QSC

engcon[®]

Today there are around 20 major excavator manufacturers, all of whom have well-functioning systems for operating quick hitches. However, the operation and location of the quick hitch lock buttons differ according to manufacturer and model.

Consequently, in situations where the excavator operator uses different machine types, there is a clear risk of incorrect operation. It's comparable to having different positions for brake and accelerator pedals depending on the make of a car.

With Engcon's Quick hitch Standard Control (QSC) locking system, the hitch control function is standardised, irrespective of the make and model of digger. Whilst specially designed for so-called twin-hitch arrangements (where the tiltrotator is mounted on a hitch that is permanently attached to the excavator), the system works equally well for direct-mounted arrangements.

Ergonomically-designed, QSC has an intuitive sliding cover which immediately identifies the hitch to be operated – either the top (machine) hitch or the lower (tiltrotator) hitch.

In each case, the hitch operation is the same; with the requirement for two buttons to be pressed simultaneously to open, or close, the hitch. The system also uses a boom ram pressure sensor to detect ground pressure, which in turn establishes the requirement for the attachment to be grounded before the hitch can be opened – thus preventing buckets from being accidentally dropped.

Together with the Q-Safe quick hitch, the QSC further increases safety by means of an audio visual alert system. If both bucket axles are not in the correct position, the system uses sound and light alarms. It is also possible to specify boom and slew lock when the hitch is in an unsafe state as an optional extra.

A Q-Safe quick hitch, when combined with QSC and the QLM light module, means Engcon delivers one of the world's safest quick hitch operating systems. This means the operator always knows what is happening and when it happens.



Standard for quick hitch locks under the tiltrotator!

The QSC locking system is a cost-free standard on engcon tiltrotators from October 1st, 2020.

Read more on our website:
www.engcon.com

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Automatic quick hitch S40–S80

engcon®

Automatic machine hitch for excavators 2-40 tonnes

Connect and disconnect your tiltrotator or other hydraulic tools without having to leave the cab. Comfort, safety and profitability – standard engcon features. All purchases of engcon's machine hitches, tiltrotators and control systems include EC-Oil, engcon's fully automatic quick hitch system.

» Hydraulic locking with fourfold safety:

1. Electronic sensors detect when both pins have contact.
 2. A check valve prevents the hydraulic cylinder from opening even if a hose ruptures or a pressure drop should occur.
 3. Powerful exterior springs keep the coupler locked even if the electronics and hydraulics fail.
 4. Unique lock bolt design provides additional safety. Because the bucket axle abuts the hitch side plates, it cannot drop out of position even if all three of the preceding steps should fail.
- » Front and rear locks minimises the risk of accidents caused by swinging tools and attachments
- » The machine hitch is supplied as standard with external audible and visible warning signals to alert the surrounding area
- » Quick hitch with all 4 hooks facing the direction of excavation doubles the contact surfaces. This means digging forces are distributed evenly across the hitch, minimising the risk of play between the machine hitch and the tool
- » The standardised control panel simplifies control of both the machine hitch and tiltrotator hitch, which minimises the risk of incorrect operation
- » With the ground pressure function*, the tool can only be removed when it exerts a given pressure on the ground. This minimises the risk of dropped buckets
- » Welded high-strength steel
- » Fits all excavators in the specified weight class independent of control system
- » The hook is safety classified in compliance with EN ISO 12100-1/A1:2009 and EN ISO 12100-2/A1:2009
- » This hitch type is also fitted as standard equipment under engcon tiltrotators with hitch sizes S40-S80

*Optional extras

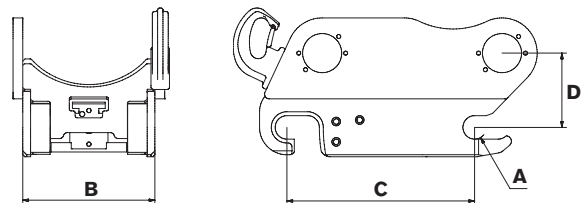
Q-Safe™



Specifications

Type	S40	S45	S50	S60	S70	S80
Axle diameter A: (mm)	Ø40	Ø45	Ø50	Ø60	Ø70	Ø80
Width B: (mm)	200	290	270	340	450	590
Length C: (mm)	300	430	430	480	600	670
Construction height D: (mm)	135	140	140	170	190	270
Weight*: (kg)	50	100	100	180	290	370
Recommended hydraulic pressure open/closed (MPa)	21-25	21-25	21-25	21-25	21-25	21-25
Max hydraulic pressure: (MPa)	35	35	35	35	35	35
Base machine weight: (t)	2-6	6-11	6-11	12-19	20-30	27-40

*Depending on attachment



TOOL SYSTEMS FOR INCREASED PROFITABILITY

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Fax +46 670 17828 | **E-mail** international@engcon.com | **Web** www.engcon.com/international

S-Quick hitch S30, S40

engcon®

For all excavators in the 1-6 tonne weight classes

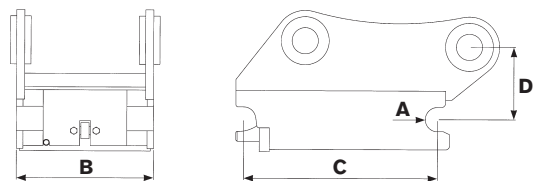
- » Designed for tiltrotator digging – the digging forces are distributed through the body of the hitch, not the hitch ram
- » Hydraulic locking for speedy attachment and tool changes straight from the cab
- » Play-free connection
- » Robust, reliable and value-for-money
- » Low installation dimensions.
- » Low weight
- » Welded, high-strength steel
- » Can be supplied with hydraulic or mechanical locking



Specifications

Typ	S30	S40
Axle diameter: (mm)	Ø30	Ø40
Width: (mm)	150	200
Length: (mm)	200	300
Construction height: (mm)*	110	110
Weight: (kg)*	10	25
Recommended hydraulic pressure open/closed	21/3-6	21/3-6
Max hydraulic pressure: (MPa)	22	22
Base machine weight: (t)	1-2	2-6

**Depending on attachment*



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EC-Oil™

Connect hydraulic tools without leaving the cab

EC-Oil is the key to our system. It means you can quickly switch hydraulic tools from the cab or decouple the tiltrotator when you need more breakout force. The EC-Oil automatic hydraulic connector now comes as standard equipment at no extra cost*. In some jobs, this can save an hour or more every day compared to manual connection – and time is money...

Because Engcon manufacture and assemble our own systems, we are able to provide total solutions – from control systems, hitches and attachments to the means to connect them all.

Use EC-Oil for instant tool changes directly from the cab. By using EC-Oil on the excavator hitch, on the top of the tiltrotator, below the tiltrotator and on the tool itself; it is possible to switch from tiltrotator-mounted hydraulic attachments such as sorting grabs, compactors or tree shears to directly-mounted tools such as a hammer within seconds, at full machine pressure, without having to leave the cab.

This allows your excavator to be used to its maximum efficiency, all of the time. It saves weight, resulting in fuel savings and a better total economy. You can use the correct tool for the job, when you want to use it, rather than have to think about grouping tasks together or losing up to 15 minutes every time you need to change a hydraulic attachment. You will be safer, more efficient and more profitable.

*HOW DO YOU GET EC-OIL AS STANDARD?

When you order an engcon machine hitch and tiltrotator with DC2 control system, EC-Oil blocks are supplied as standard between the machine hitch and the tiltrotator. If you order an engcon hydraulic tool at the same time as the combination above, EC-Oil is fitted as standard in the tiltrotator's quick hitch (Starting with S60, other sizes will be introduced shortly)

All of engcon's hydraulic tools with S45-S80 ALWAYS include EC-Oil as a standard at no extra cost.

Please contact Engcon for more information.



EC-OIL WITH ELECTRICAL CONNECTION



EC-OIL WITH CASE DRAIN



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Attachment brackets EC-Oil™

GS45-ECO-GS80-ECO

engcon®

Fits all excavators in the 6-33 tonne weight classes

- » Bucket/attachment bracket adapted to EC-Oil™ connectors
- » Standard bolt pattern that fits Engcon hydraulic tools or weldable bracket
- » Possible to equip with one or two EC-Oil blocks
- » Easy to adapt for all types of hydraulic tools
- » Robust, reliable and value-for-money
- » Constructed in high strength steel



Bolted brackets with EC-Oil



Weldable brackets with EC-Oil

Specifications

Model	GS45	GS60	GS70	GS80
Axle diameter A: (mm)	Ø45	Ø60	Ø70	Ø80
Width B: (mm)	290	340	450	590
Length C: (mm)	430	480	600	670
Suitable for Engcon hitch:	S45	S60	S70	S80

TOOL SYSTEMS FOR INCREASED PROFITABILITY

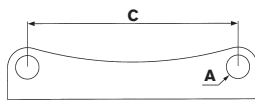
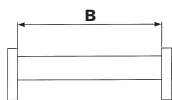
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Attachment brackets GS30–GS80

engcon®

For all excavators in the 1-33 tonne weight classes

- » Easy to modify buckets for Engcon hitches
- » Robust, reliable and value-for-money
- » Welded in high-strength steel



Specifications

Model	GS30/180	GS40/200	GS45	GS60	GS70	GS80
Axle diameter A: (mm)	Ø30	Ø40	Ø45	Ø60	Ø70	Ø80
Width B: (mm)	180	200	290	340	450	590
Length C: (mm)	230	300	430	480	600	670
Suitable for Engcon RF:	S30	S40	S45	S60	S70	S80

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Cable bucket CB01–CB29

engcon®

For all excavators in the 1-33 tonne weight classes

engcon's cable bucket – developed for precision excavation with minimal width for e.g. cables or other services requiring narrow trenches. Its deep profile means better accessibility beneath intersecting cables and pipes and also allows deep trenching without the need for the tiltrotator to go below surface level.

Engcon's cable buckets are available in two models
– **Standard and tapered (C)**

Standard is the conventional type with parallel side plates for excavating ditches with vertical sides.

The tapered model has a narrower blade than the standard cable bucket but with the same width top, producing a narrower trench bottom with slightly sloping sides.

Engcon's cable buckets are made from high-quality steel. As with other Engcon buckets, the cutters and other exposed wear surfaces have a hardness of 500 Brinell.

A factory-fitted tooth kit is available as an optional extra.



Tooth kit, type Cat



Blade teeth provide smooth ditch bottoms



Standard



Conical

Specifications

Model	CB01	CB02	CB03	CB03	CB05	CB05	CB08	CB08
Volume: (l)	35	60	90	90	130	130	155	155
Width: (mm)	240	290	290	290	340	340	400	400
Weight: (kg)	25	35	55	55	70	85	83	95
Attachment:	S30	S30	S30	S40	S40	S45	S40	S45

Model	CB15	CB15C	CB20	CB20	CB25	CB25	CB29	CB29
Volume: (l)	350	350	400	400	550	550	800	800
Width: (mm)	560	300	660	660	600	600	700	700
Weight: (kg)	290	255	320	360	590	615	744	777
Attachment:	S60	S60	S60	S70	S70	S80	S70	S80

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Deep-digging bucket DB01–DB32

engcon®

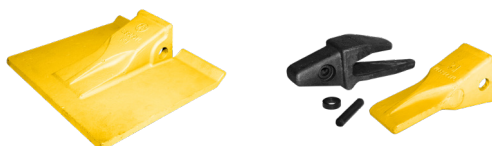
For all excavators in the 1-33 tonne weight classes

Engcon deep-digging bucket – Robust construction for tough jobs. A favourite for anyone needing to excavate and dig in difficult conditions where fast penetration and easy filling are prioritised, for example in trenching and other mass transfers requiring capacity. Like all Engcon buckets, the digging bucket has a long floor and cutaway sides to reduce drag when digging.

The bucket can be fitted with the following accessories on request:

- » Tooth kit*
- » Tooth cover
- » Blade teeth

** When selecting a tooth kit, Engcon buckets are fitted with the Cat J system as standard equipment. For other tooth systems, check availability with Engcon.*



Specifications

Model	DB01	DB02	DB02	DB02	DB03	DB05	DB06	DB06	DB07	DB09	DB11	DB11	DB12	DB12
Volume: (l)	50	70	90	90	120	160	200	200	250	350	400	400	500	500
Width: (mm)	400	450	550	550	550	600	600	600	700	700	700	700	800	800
Weight: (kg)	35	50	55	60	75	100	125	140	210	230	280	300	320	330
Attachment:	S30	S30	S30	S40	S40	S40	S40	S45	S45	S45	S45	S60	S45	S60

Model	DB13	DB14	DB16	DB18	DB18	DB21	DB23	DB26	DB26	DB29	DB32
Volume: (l)	600	650	750	900	900	1,100	1,250	1,400	1,400	1,600	1,800
Width: (mm)	850	900	1,000	1,000	1,000	1,100	1,200	1,300	1,300	1,450	1,700
Weight: (kg)	500	520	600	680	715	940	1,150	1,330	1,350	1,440	1,720
Attachment:	S60	S60	S60	S60	S70	S70	S70	S70	S80	S70	S80

Imperial buckets

Engcon have introduced a range of Imperial buckets (with and without teeth) for most popular sizes: available in 5 tonne (S40) and 7 tonne (S45) variants in 12", 18", 24" and 36" widths and in 12 tonne (S60) in the same sizes together with 48". Other (custom) sizes are available on request.

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Riddle bucket SB02–SB29

engcon®

For all excavators in the 1.5-33 tonne weight classes

The Engcon series of riddle buckets is designed for quick, simple sorting. The riddle buckets require no hydraulics; they are built from the highest quality steel where the cutters and steel ribs have a hardness of 500 Brinell – the same high quality that can be found on every Engcon bucket. All for maximum efficiency and a long service life.



Specifications

Model	SB02	SB02	SB02	SB04	SB06	SB06	SB08	SB08	SB11	SB11	SB14	SB15	SB17	SB20	SB24	SB29
Volume: (l)	90	130	130	200	300	300	370	370	500	500	650	750	900	1,100	1,400	1,600
Width: (mm)	900	900	900	1,000	1,200	1,200	1,300	1,300	1,400	1,400	1,600	1,600	1,700	1,700	2,000	2,000
Diameter: (mm)	22	22	22	22	22	22	30	30	30	30	30	45	45	45	45	45
Gap: (mm)	40	40	40	50	50	50	50	50	50	50	50	65	70	70	70	70
Weight: (kg)	80	86	91	144	166	177	292	295	320	323	442	628	697	920	1,046	1,268
Attachment:	S30	S30	S40	S40	S40	S45	S45	S50	S45	S50	S60	S60	S60	S70	S70	S70

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Riddle bucket

SKB02–SKB29

engcon®

For all excavators in the 1.5-33 tonne weight classes

The SKB sorting bucket is designed to more easily get beneath the material intended for sorting.

It has a slightly narrower shape than the Engcon SP sorting bucket and its long base and low side panels make it easier to get beneath e.g. asphalt or other material intended for sorting.

The base ribs run along the length of the bucket, allowing material to slide easily in and out.

The SKB sorting bucket requires no hydraulics and is thus ideal for simple sorting where e.g. finer material is required for backfill or some other use. The cutters, lower side plates and ribs are made of high-strength wear bar with a hardness of up to 500 Brinell, thus guaranteeing maximum efficiency and long service life.



Specifications

Model	SKB02	SKB04	SKB06	SKB09	SKB14	SKB17	SKB23	SKB29
Volume: (l)	70	170	220	400	620	850	1,300	1,550
Width: (mm)	600	600	800	1,000	1,300	1,300	1,500	1,500
Gap: (mm)	44	41	47	51	62	62	62	62
Weight: (kg)	49	108	166	291	496	604	1,072	1,231
Attachment:	S30/180	S40	S45	S45	S60	S60	S70	S70

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Grading bucket GB01–GB29

engcon®

For all excavators in the 1-33 tonne weight classes

Engcon's grading bucket – Optimised together with experienced contractors for use together with the tiltrotator. Chamfered corners all round to avoid collisions with house walls and other objects that can potentially be damaged by the rotating bucket. Conical form for easier filling and an adapted angle of 16 degrees between mounting and bottom for easier bucket rotation without losing material.



Advantages of the Engcon grading bucket

- 1** Chamfered corners to avoid collision
- 2** Tiltrotator-adapted ceiling angle
- 3** Hardox-reinforcements on other wear surfaces
- 4** Conical form for easier filling and better release
- 5** Wear and cutting steel - 500 Brinell hardness
- 6** Long floor and cutaway sides to reduce drag when digging

Specifications

Model	GB01	GB02	GB02	GB02	GB03	GB04	GB04	GB05	GB05	GB06	GB06	GB08	GB08	GB11	GB11
Volume: (l)	55	90	130	130	150	200	200	250	250	300	300	370	400	450	500
Width: (mm)	800	900	900	900	1,100	1,000	1,000	1,200	1,200	1,200	1,200	1,300	1,400	1,400	1,400
Weight: (kg)	60	75	80	85	110	135	140	145	155	155	160	260	255	320	370
Attachment:	S30	S30	S30	S40	S40	S40	S45	S40	S45	S40	S45	S45	S40	S45	S45

Model	GB13	GB14	GB15	GB17	GB17	GB20	GB20	GB22	GB24	GB29	GB29
Volume: (l)	600	650	750	900	900	1,100	1,100	1,250	1,400	1,600	1,600
Width: (mm)	1,600	1,600	1,600	1,700	1,700	1,700	1,700	1,900	2,000	2,000	2,000
Weight: (kg)	450	460	660	700	740	940	980	1060	1,150	1,460	1,490
Attachment:	S60	S60	S60	S60	S70	S60	S70	S70	S70	S70	S80

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Water & sewerage bucket TB07–TB21

engcon®

For all excavators in the 8-21 tonne weight classes

Engcon's water & sewerage bucket – Specially designed for excavating water and sewerage trenches, the bucket has a slightly conical shape and shorter floor which facilitates rotating the bucket in the trench. Like the other buckets in Engcon's range, the water & sewerage bucket is reinforced with Hardox at the most exposed points.



Specifications

Model	TB07	TB07	TB12	TB14	TB14	TB16	TB16	TB18	TB21
Volume: (l)	250	250	500	600	650	700	700	900	1,100
Width: (mm)	600	600	800	800	830	900	900	900	1,100
Weight: (kg)	202	213	340	510	525	550	550	750	1,075
Attachment:	S40	S45	S60	S60	S60	S60	S70	S70	S70

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Integrated gripper GR05–GR30

engcon®

Integrated gripper for tiltrotators and rotators 3-33 tonnes

- » The gripper arms are made from high-strength steel for strength and low weight
- » Load-holding check valves in each gripper cylinder
- » The perfect workmate on the site
- » Versatile handling of posts, kerbstones and other objects
- » Practical for pipe laying and manhole positioning
- » Available for tiltrotators/rotators EC204, EC206, EC209, EC214, EC219, EC226 and EC233
- » 3 finger claws as standard
- » Complies with European safety standards

Features of the GR20B:

- ▶ Gripper width 820–950* mm depending on quick hitch
- ▶ Stronger grab guards
- ▶ Fixed counterhold Improved axle locks

* S60GR20 and S60GR20: 820 mm
S70GR20 and S70GR20: 950 mm

Features of the GR30 (S80):

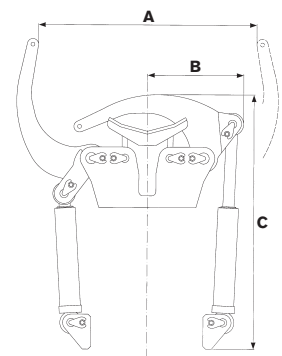
- ▶ Gripper width up to 1080 mm



Specifications

Model	GR05	GR10	GR20B	GR30*
Widest grab width A: (mm)	350	610	820–950*	1 080
Width B: (mm)	200	270	350	440
Length C: (mm)	585	760	910	980
Clamping force (tip - tip) at 21 MPa: (kg)	1,654	1,497	2,234	1,956
Max load: (kg)	1,000	1,500	2,000	2,200
Weight: (kg)*	50	70	85	148
Max hydraulic pressure: (MPa)	22	22	22	22

* Depending on attachment



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Integrated gripper GR20R2

engcon[®]

Integrated gripper for EC214 and EC219*

The new GR20R2 integrated gripper is specially developed for the tough environments that grippers are exposed to on the railway, where a gripper will often be used to pull and lift heavy rails with excavators.

Advantages:

- » Robust construction designed for heavy and difficult usage, such as in the railway industry.
- » Angled down up to 42 degrees
- » Large grab width – 820 mm
- » Protected cylinders

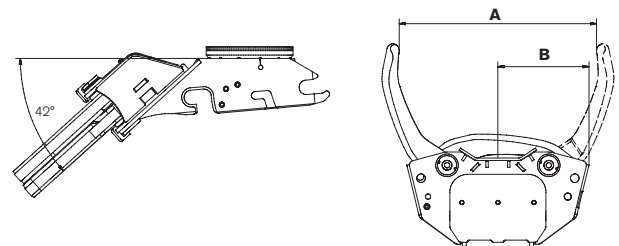
* Standard hitch combinations: S45 and S60.

Other hitch combinations may be available – please ask.

Specifications

Model	GR20R2
Largest grab width A: (mm)	820
Width B: (mm)	380
Length: (mm)	Depending on the hitch
Weight: (kg)	140
Clamping force at 21 Mpa: (kg)	1,750
Angled at 35-42° depending on the hitch	
Detachable	
Protected cylinders	

Note! GR20R2 cannot be combined with all quick hitches on the market. Contact Engcon for further information.



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Detachable Gripper GRD40-GRD70

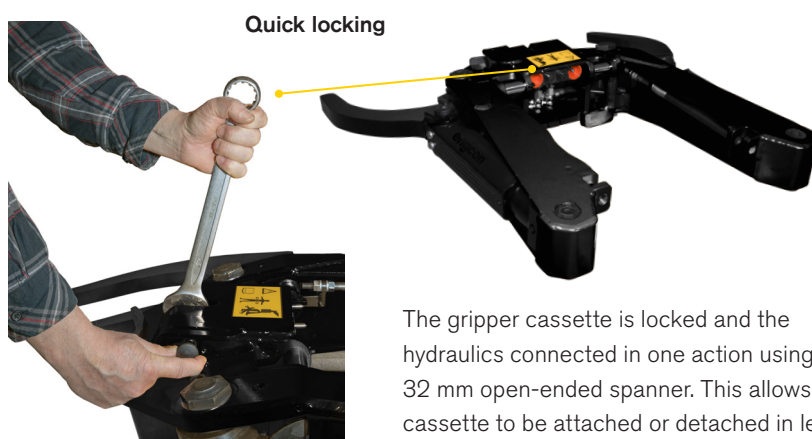
engcon®

For all excavators in the 6-26 tonne weight classes

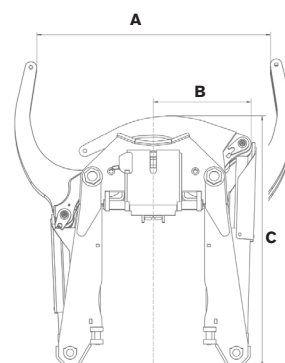
Engcon's new detachable gripper cassette is also retro-fittable.

The gripper cassette simply hooks onto the Q-Safe-D quick hitch and is then locked in place and the hydraulics connected in a single action – a procedure that takes less than a minute.

The gripper is angled at 15 degrees to the plane of rotation, giving a longer reach.



The gripper cassette is locked and the hydraulics connected in one action using a 32 mm open-ended spanner. This allows the cassette to be attached or detached in less than a minute.



Specifications

Model	GRD40	GRD45/50	GRD60	GRD70
Grab width A: (mm)	430	610	820	950
Width B: (mm)	220	270	355	410
Length C: (mm)	540	720	870	900
Clamping force (tip - tip) at 21MPa: (kg)	1 200	1 500	2 200	2 200
Max load: (kg)	1 000	1 500	2 000	2 000
Weight: (kg)	45	99	153	169
Max hydraulic pressure: (MPa)	22	22	22	22
Fits quick hitch:	S40	S45, S50	S60	S70

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Stone and sorting grab SG03–SG33

engcon®

For all excavators in the 1,5-33 tonne weight classes

Engcon's stone & sieve grabs in the SG series are suitable for everything from sorting to light demolition works where a powerful grab is needed. Used in combination with Engcon's tiltrotators, the grabs provide the access you need, and they also come with EC-Oil automatic oil connection system as standard equipment.*



The advantages of SG grabs

- » The EC-Oil automatic quick connection system connects the hydraulics without the operator having to leave the cab.
- » The grab's claws are fitted with reversible wear bars
- » A load valve and pressure accumulator maintain gripping force for extended periods and for better handling
- » Complies with European safety standards
- » Expander bushings in major joints
- » Bolt-on bracket/attachment point makes switching brackets easy.

Accessories:

- » Tooth kit for better grip.
- » Closed sides to convert the grab into a grab bucket.

**Applies to grabs with S45-S80 top brackets*

NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

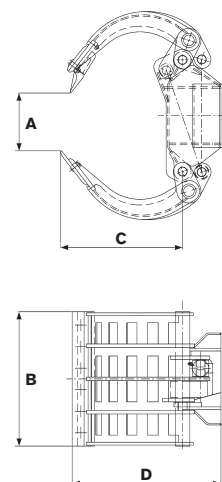


With teeth
(accessory)

With closed sides
(accessory)

Specifications

Model	SG03	SG06	SG12	SG19	SG26	SG33
Grab width A: (max. mm)	750	1,110	1,660	1,790	1,990	2,575
Grab width A: (min. mm)	0	0	0	0	0	0
Cutting width B: (mm)	400	505	715	860	860	1,170
Jaw length C: (mm)	490	460	680	790	870	1,180
Height D: (mm)	550	580	790	960	1,070	1,360
Gripping force: (kN)	5.7	8.7	15	19	25	45
Max hydraulic pressure: (MPa)	22	22	22	22	22	22
Weight: (kg)*	108	180	425	646	755	-
Volume, with side plates: (l)	42	83	220	336	420	930
Grab area: (m²)	0.12	0.17	0.34	0.42	0.52	0.85
Recommended machine weight: (t)	1.5-3	3-6	6-12	12-19	18-26	24-33
Recommended tiltrotator:	EC02	EC204 EC206	EC206 EC209 EC214	EC214 EC219	EC219 EC226	EC226 EC233



**Depending on attachment*

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Timber/Combi grab

TG25HD–TG55HD

engcon[®]

For all excavators in the 4-33 tonne weight classes



Together with the tiltrotator, Engcon's combi Timber Grab Heavy Duty (TGHD) is the ultimate tool for round timber and pipe handling, and light sorting jobs. The grabs, which are reinforced with high-strength steel wear bars with a hardness of 400 Brinell for long life, can be used with a wide variety of hitches.

Advantages:

- » The EC-Oil automatic quick hitch system connects the hydraulics without the operator needing to leave the cab
- » Grab arms in high-strength steel for long life
- » Grab tip wear bars with 400 Brinell hardness for best durability
- » A non-return valve built into the ram and an direct-mounted accumulator ensure the load is secure should any pressure drop occur.
- » Expander bolts in joints prevent unnecessary play
- » Bolt-on bracket/mounting makes switching brackets easy



NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

Specifications

Model	TG25HD	TG28HD	TG42HD	TG55HD
Max grab width: (mm)	1,450	1,540	1,900	2,510
Max load: (t)	3	5	6	10
Height, fully open: (mm)	759	889	1,039	1,146
Height, fully closed: (mm)	526	659	751	946
Width: (mm)	460	595	677	802
Clamping force (tip - tip) at 21MPa (kN)	6,8	12,42	20,4	31,86
Max hydraulic pressure: (MPa)	22	22	22	22
Weight: (kg)	195	360	595	1,070
Grab area: (m ²)	0,25	0,28	0,42	0,55
Recommended machine weight: (t)	4-9	9-14	12-19	19-33

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Rotating brush SR800–SR2000

engcon[®]

Rotating brushes for excavators



Engcon's rotating brushes – Make the most of what the excavator has to offer and open up previously undreamed-of possibilities in a wide range of speciality areas. Regardless of whether you're sweeping soil, sand, gravel or snow, the brush will very quickly become a favourite tool you just won't be able to live without. Areas such as road crossings, pedestrian walkways, tramway points, etc can be cleared as well as sweeping road sand and gravel, brushing grassed areas, foundations, rocks and more. The only limit is your imagination.

A hydraulic motor provides the power and a chain drive which enables the brush rotation speed to be adjusted. The open design allows unsurpassed, service-friendly access, and the standard polypropylene brushes can be replaced quickly and easily. Compatible with EC-Oil, allowing automatic connection without the operator having to leave the cab.



NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

Specifications

Model	SR800	SR1300	SR1600	SR1800	SR2000
Min hydraulic flow: (l/min)	20	20	20	20	20
Max hydraulic flow: (l/min)	60	60	60	60	60
Weight excluding attachment point: (kg)	210	240	260	275	290
Width: (mm)	800	1,300	1,600	1,800	2,000
Height: (mm)	1,257	1,257	1,257	1,257	1,257
Length: (mm)	1,060	1,060	1,060	1,060	1,060

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Detachable Sweeper SWD45–SWD60

engcon®

For all excavators in the 6-16 tonne weight classes

The Detachable Sweeper (SWD) – Engcon's new detachable rotating brush – can also be retrofitted.

Just like with the gripper cassette GRD, the SWD rotating brushes can be retrofitted simply on the Q-Safe-D quick hitch by being hooked onto the hitch's two mounting hooks. The rotating brushes are then locked and connected to the hydraulics in a single action – quick and easy.

SWD is driven by a powerful hydraulic motor and is raised or lowered by a hydraulic ram.

The SWD is flexible and its width can be adjusted for the job in hand, from cable sweeping to sweeping large areas.

This reduces the need for manual labour and makes a safer workplace. SWD is available in several widths and is adapted for the Engcon Q-Safe Detachable quick hitch.



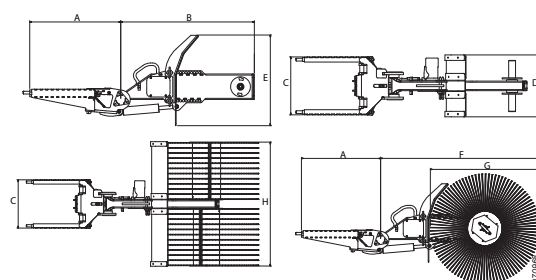
Specifications

Model	SWD45	SWD60
Length, cassette A: (mm)	586	665
Length, arm B: (mm)*	875	975
Width, cassette C: (mm)	362	423
Width, guard D: (mm)**	450, 1100, 1600	450, 1100, 1600
Height, guard E: (mm)	660	660
Max total length A+F (mm)**	1 501	1 998
Diameter, brush G: (mm)***	600, 700, 915	600, 700, 915
Width, brush H: (mm)	420, 1 100, 1 600	420, 1 100, 1 600
Maximum weight: (kg)*,**	186	210
Oil flow min/max: (l/min)	20/60	20/60
Fits quick hitch:	S45, S50	S60

*In the standard version

**Depends on sweeper brush

***915 mm can only be used with long arm (975 mm)



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Pallet fork GH1000–GHH1200

engcon®

Forklift frame for excavators



Engcon's pallet fork – A robust and cleverly engineered design for best visibility. Tempered forks guarantee a long service life.

NOTE! Always consult the applicable safety instructions for using the pallet fork on each individual machine. When using the pallet fork together with a tiltrotator, a load-holding valve must be fitted to the tiltrotator.

All Engcon tiltrotators are fitted with load-holding valves in the tilt cylinders as standard equipment.

- » The EC-Oil automatic quick hitch system connects the hydraulics without the operator needing to leave the cab.
- » Operation of hydraulic pallet forks is done from within the cab
- » Mechanical hydraulic pallet forks are held in the correct position with a robust latch and the position is adjusted manually.
- » Forged forks for maximum durability and service life

GH = Mechanical fork widening,

GHH = Hydraulic fork widening

GHH1200L = Hydraulic fork widening, Light version for lighter machines.



NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

Specifications

Model	GH1000	GH1200	GHH1200	GHH1200L	GHH1200L
Width: (mm)	1,000	1,200	1,200	1,200	1,200
Blade: (mm)	100x40x1,200	125x45x1,200	125x45x1,200	100x40x1,200	125x45x1,200
Weight: (kg)*	180	350	400	260	313
TP500 (t)	2,9	4,7	4,7	2,9	4,7

* Depending on bracket

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Lightweight pallet fork

GHH1000L–GH1000L

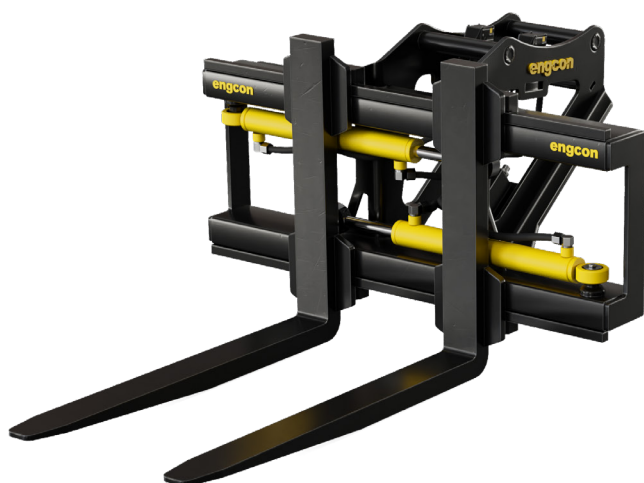
engcon®

Lightweight pallet fork for excavators.

The new and lightweight pallet fork comes in two versions, one hydraulic and one mechanical and it can handle a load of 2 tonnes of TP500 which means that it is rated for 2 tonnes of load 500 mm out from the back edge of the forks. The weights are calculated at 141 kg for the mechanical and 151 kg for the hydraulic pallet fork and the standard length of the forks is 800 mm.

The hydraulic version is adapted for engcon's automatic quick hitch system EC-Oil enabling the driver to connect the pallet fork and its hydraulics automatically without stepping out of the cab. The hydraulic pallet fork with EC-Oil fits perfectly with our new EC206, which later in the year will be equipped with our automatic quick coupler.

The new lightweight pallet fork will be on display at this year's fairs and events, delivery is expected by the end of 2022.



Specifications

Type	GHH1000L	GH1000L
Recommended machine weight (t)	2–6	2–6
Standard hitch	S40 with EC-Oil	S40
Estimated weight (kg)	151	141
Dimension (mm)	80x40x800	80x40x800
Width (mm)	1 000	1 000
Tine length (mm)	800 (1200 also available)	800
TP500 (t)	2	2

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Ripper R5–R30

engcon®

For all excavators in the 1-33 tonne weight classes

Engcon's ripper – With Engcon's ripper you'll find no problem in penetrating hard ground. The ripper is optimised for the best ripping ability and breakout force in hard material.

Specifications

Model	R5	R5	R10	R15	R20	R20	R30	R30
Height: (mm)	600	600	700	900	1,200	1,200	1,400	1,400
Weight: (kg)	50	65	110	170	370	410	680	720
Attachment:	S30	S40	S45	S60	S60	S70	S70	S80



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Tarmac Cutter TC02-TC20

engcon®

For all excavators in the 3-33 tonne weight classes

Engcon's Tarmac Cutter – a cutter from Engcon allows you to make precise cuts and avoid digging up asphalt unnecessarily. Can also be used for precise cuts on grass surfaces and other locations where accuracy is called for.



Specifications

Model	TC02	TC02	TC05	TC10	TC15	TC20	TC20
Diameter: (mm)	Ø370	Ø370	Ø370	Ø470	Ø470	Ø470	Ø470
Cutting depth: (mm)	100	100	100	150	150	150	150
Weight: (kg)	29	30	40	55	70	90	110
Attachment:	S30/150	S30/180	S40	S45	S60	S70	S80

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Compactor PP350-PP950

engcon[®]

For all excavators in the 6-33 tonne weight classes



- » Compatible with EC-Oil, allowing automatic connection without the operator having to leave the cab
- » Compaction plate in hard-wearing steel
- » Side plating for grading filler
- » Open short ends allows quick and easy clearing of the top of the plate
- » Rubber joint optimise insulation with stiffness for grading
- » The vibrator unit and hydraulic parts are well-protected inside the side plates
- » Fitted with S-type mounting as standard
- » Complete with flow control valve
- » Complies with European safety standards
- » Not supplied with hoses
- » Tandem-connected weights



Best in test!

Engcon's PP600 compactor showed the best results in an independent test conducted by geologist Dr. H. Seeliger in Kassel, Germany, giving 103.2 % after two passes and 101.6 % after six passes.

NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

Specifications

Model	PP350	PP600	PP950
Compaction force: (kg)	3,500	6,000	9,500
Compaction area: (m ²)	0,42	0,58	0,90
Max hydraulic pressure: (MPa)	22	22	22
Rec hydraulic flow: (l/min)	68	120	120
Max rec return hose pressure: (MPa)	1	1	1
Weight excluding attachment point: (kg)	390	620	900
Length: (mm)	890	1,050	1,270
Width: (mm)	620	720	900
Height: (mm)	450	520	600

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Compactor PP3200

engcon[®]

For all excavators in the 6-16 tonne weight classes



- » Compatible with EC-Oil, allowing automatic connection without the operator having to leave the cab
- » Low flow requirement (35 litres) allows the PP3200 to be run directly off the extra connections on the tiltrotator
- » Variable working width
- » Specially adapted pack cushions
- » Compaction plate in hard-wearing steel
- » Side plating for grading filler
- » Open short ends allows quick and easy clearing of the top of the plate
- » Rubber joint optimise insulation with stiffness for grading
- » The vibrator unit and hydraulic parts are well-protected inside the side plates
- » Fitted with S-type mounting as standard
- » Complies with European safety standards
- » Not supplied with hoses



Accessories: Extension plates, trenching blade, specially adapted compactor pads for e.g. packing in sheet-pilings.

NEW! The EC-Oil automatic quick hitch system is a free standard on all engcon's hydraulic tools with S45-S80 attachment

Specifications

Model	PP3200
Compaction force: (kg)	3,200
Compaction area: (m ²)	0,4-0,56
Max hydraulic pressure: (MPa)	22
Rec hydraulic flow: (l/min)	34
Max rec return hose pressure: (MPa)	2,5
Weight excluding attachment point: (kg)	470
Length: (mm)	1,000
Width: (mm)	500-700
Height: (mm)	590

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Compactor PC6000

engcon®

engcon's ground compactor in the 12-26 tonne class



The PC6000 for excavators in the 12-26 tonne weight range is a specially developed, low-flow ground compactor for use together with a tiltrotator. This allows a reduction in the number of machines/tools and a safety improvement as no one need enter an excavation where there is always a risk of soil collapse from vibrations. No hand-operated compactors need be lifted with chains or slings. This improves site safety and increases the area of application, as the compactor can be tilted and rotated to follow the contours of the ground.

In common with engcon's other hydraulic tools, the EC-Oil fully automatic quick hitch system comes as standard on the new ground compactor. This means the operator can connect the PC6000 without having to leave the cab. EC-Oil connects hydraulics automatically, and the operator saves time and money while enjoying greater safety by not having to get in and out to make awkward, messy manual connections.

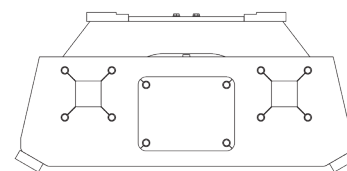
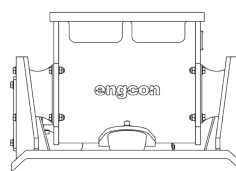
Benefits of the engcon PC6000 ground compactor for excavators:

- » Having no personnel present in the excavation minimizes the risk of injury, which can occur during soil collapses caused by vibrations.
- » No more lifting hand-operated ground compactors that risk being dropped or swung into personnel or objects in the surroundings.
- » Works together with the engcon tiltrotator for better access and ease-of-use in more types of jobs.
- » The EC-Oil fully automatic quick hitch system comes as standard = connect hydraulic tools without having to leave the cab.
- » Low flow means the PC6000 can be used on all excavators in the weight class.
- » No oil drain line means fewer hoses to chafe and burst.
- » Bolt-on bracket makes it easy to switch hitch systems.



Specifications

Type	PC6000
Compaction force: (kN):	60
Compaction area: (m ²)	0.61
Max hydraulic pressure: (bar):	210
Recommended hydraulic flow from: (l/min)	55
Max recommended return hose pressure: (bar)	20
Weight excl. attachment point: (kg)	560
Length: (mm)	1065
Width: (mm)	720
Height excluding attachment point: (mm)	508



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Efficient and profitable surface grading

With Engcon's grading beam, you can grade large areas quickly and efficiently.

The grading beam is a smart, flexible solution as it has a bolt-on bracket/hitch with the same bolt pattern as other tools (e.g. rock and sorting grabs, compactors and rotating brushes) from Engcon.

The side beams can be extended with bolt-on 500 mm extensions. This allows the grading material to be held within the confines of the width of the grading beam.

What's more, Engcon's grading beam has cutters on the leading edge and wear bars under the entire structure. This means a long life, making the grading beam even more profitable. The journaled compactor roller can be raised and lowered to achieve the best setting for your particular needs.

Engcon's grading beam comes in five different widths according to the size of tiltrotator.



NOTE: Engcon's grading beam is even more efficient in combination with a tiltrotator, but it is then important to consider the loads that the tiltrotator will be subjected to. Use the grading beam for the purpose for which it is designed – surface grading. Large quantities of material can be moved quickly and efficiently with Engcon's range of buckets.

Advantages

- » More efficient surface grading means greater profitability
- » Robust design
- » Bolt-on mounting/bracket
- » Cutting steel at the leading edge
- » Wear bars under the entire structure
- » Extendable side beams
- » Journaled compactor roller
- » Compactor roller can be raised and lowered

Specifications

Model	GRB1250	GRB1500L	GRB1500	GRB 2000	GRB 2500	GRB 3000
Width (mm):	1,250	1,500	1,500	2,000	2,500	3,000
Depth (without extensions) (mm):	962	962	1,000	1,000	1,000	1,000
Height (without mounting) (mm):	275	275	387	387	387	387
Diameter, roller (mm)	178	178	245	245	245	245
Weight (kg):	195	233	306	482	563	645

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