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## ET90

Tracked Conventional Tail Excavators



### The economic powerhouse: ET90

The fuel consumption of the ET90 is up to 30 percent lower than with comparable models – this reduces the operating costs significantly. At the same time, it scores in applications with an excellent engine and hydraulic performance. This efficient combination provides for first-class digging power with up to 20% more bucket breakaway force. Conversely, the economical load sensing hydraulic system allows for finely controllable lifting arm movements with a full performance at the same time. Whether power or precision – the ET90 is exactly the right excavator for any application.

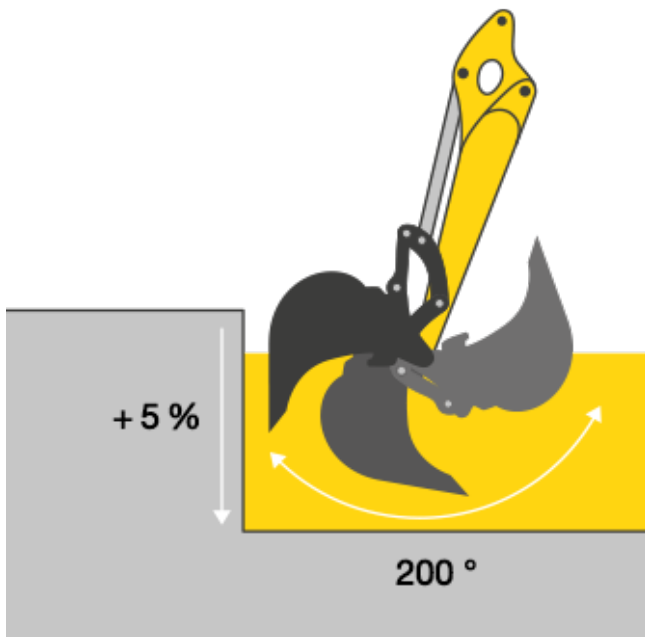
- Precise and sensitive operation thanks to the load sensing hydraulic system with LUDV (load-independent flow control)\*
- Low consumption due to the economical ECO mode
- Up to 5 auxiliary control circuits for the most varied attachments
- Extremely compact and maneuverable
- Maintenance and service made easy due to the tiltable cabin as well as the diagnostic tool

\* Load-independent flow distribution

Economical and powerful



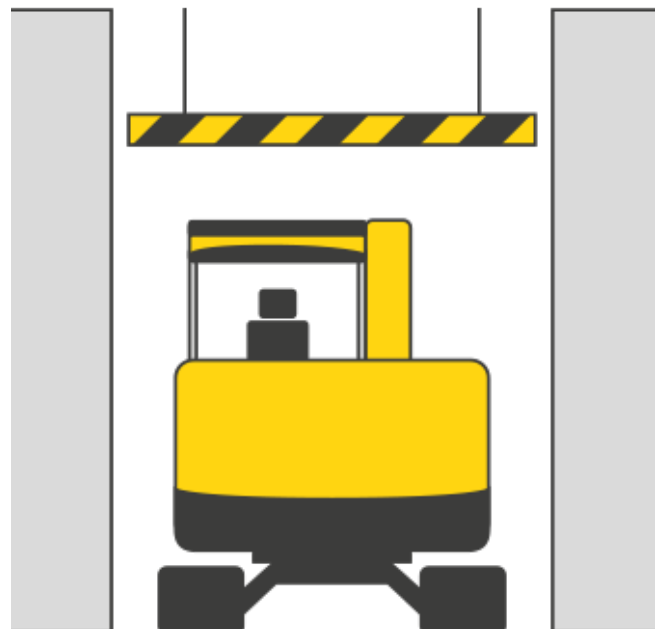
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- Optimal force distribution when excavating and up to 20% more breakaway force: plunge in deeper and excavate more powerfully
- Less material loss in the bucket due to an expanded angle of rotation of 200 degrees
- Articulated boom for greater reach, digging depth and dumping height
- Up to 30 % less fuel consumption

#### Reduced dimensions

- Significantly lower height and width than comparable competition models
- Easily master tight construction sites and low passages
- Higher level of stability due to the low center of gravity
- Easy to transport

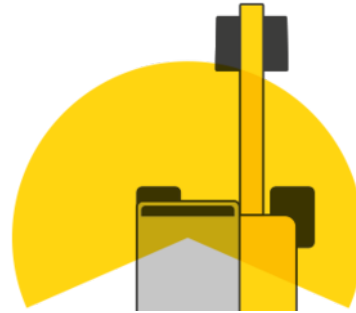




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Cabin, sight and operating comfort



- Innovative solution for the optimal view – boom to the right next to the cabin
- Operator comfort: spacious cabin, air cushioned seat and automatic air-conditioning system
- Innovative front windshield system: two-part windshield can be slid up and moved - rain roof position
- LED headlights for optimal illumination
- Rear camera for more safety when in reverse operation



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Jog dial system

- Technology from the automotive sector
- For the direct control of central functions
- Intuitive to operate



#### **iF Design Award 2016**

The excavator ET90 persuaded the professional jury at the iF Design Award in 2016. Compactness, character and professionalism were the decisive points, for which he was selected as a winner.

**Technical specifications****Operating data**

Shipping weight min.	8,348 kg
Operating weight min.	8,710 kg
Biting force max.	46 kN
Breakaway force max.	74 kN
Digging depth max.	4,679 mm
Dumping height	5066 - 5940 mm
Digging radius max.	7,889 mm
Superstructure slewing speed	9 1/min
L x W x H	7117 x 2250 x 2562 mm

**Engine / Motor**

Engine / Motor manufacturer	Deutz
Engine / Motor type	TCD 2.9 DOC only
Engine / Motor	Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling
Displacement	2,925 cm <sup>3</sup>
RPM / speed	2,200 rpm
Engine performance according to ISO	55 kW
Battery	88 Ah
Tank capacity	85 l

**Hydraulic system**

Duty pump	Variable displacement pump
Flow rate	175.8 l/min
Operating pressure for working and driving hydraulics	300 bar
Operating pressure swing gear	240 bar
Hydraulic oil tank	92 l

**Wheel set**

Travel speed max.	5 km/h
Chain width	450 mm
Ground clearance	370 mm

**Dozer Blade**

Stroke dozer blade above subgrade	479 mm
Stroke dozer blade below subgrade	518 mm

**Sound level**



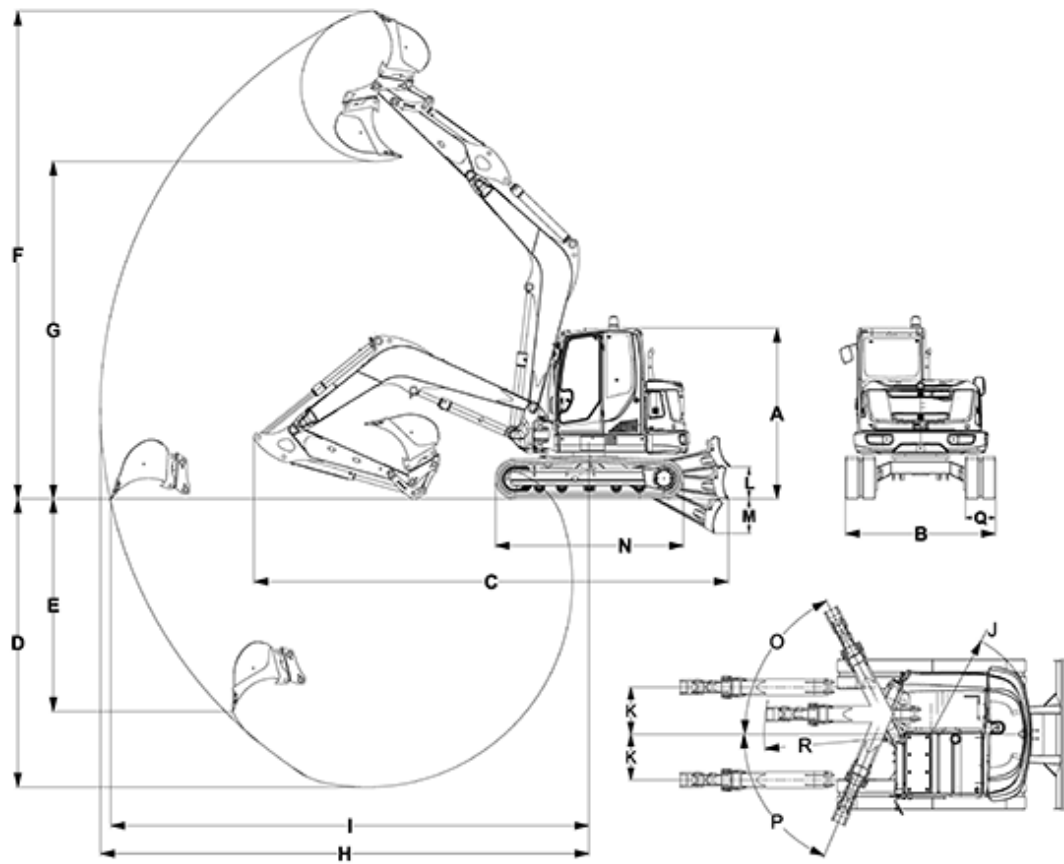
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Sound level (LwA) according to 2000/14/EC	99 dB(A)
Cabin - specified sound pressure level LpA according to ISO 6394	79 dB(A)



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## Dimensions



monobloc boom

articulated boom

<b>A</b>	Height	
		2,562 mm
<b>B</b>	Width cabin	2,562 mm
		1,000 mm
<b>B</b>	Width revolving superstructure	1,000 mm
		2,006.9 mm



		2,017 mm
<b>B</b>	Width traversing gear	
		2,250 mm
		2,250 mm
<b>B</b>	Width dozer blade	
		2,250 mm
		2,250 mm
<b>C</b>	Transport length short dipper stick	
		7,117 mm
		6,468 mm
<b>C</b>	Transport length long dipper stick	
		7,139 mm
		6,690 mm
<b>D</b>	Digging depth short dipper stick	
		4,325 mm
		4,379 mm
<b>D</b>	Digging depth long dipper stick	
		4,625 mm
		4,679 mm
<b>E</b>	Insertion depth short dipper stick	
		3,192 mm
		3,198 mm
<b>E</b>	Insertion depth long dipper stick	
		3,474 mm
		3,456 mm
<b>F</b>	Insertion height short dipper stick	





		7,322 mm
		7,931 mm
<b>F</b>	Insertion height long dipper stick	
		7,529 mm
		8,196 mm
<b>G</b>	Dumping height short dipper stick	
		5,066 mm
		5,674 mm
<b>G</b>	Dumping height long dipper stick	
		5,272 mm
		5,940 mm
<b>H</b>	Digging radius short dipper stick	
		7,331 mm
		7,596 mm
<b>H</b>	Digging radius long dipper stick	
		7,620 mm
		7,889 mm
<b>I</b>	Range short dipper stick	
		7,179 mm
		7,463 mm
<b>I</b>	Range long dipper stick	
		7,474 mm
		7,751 mm
<b>J</b>	Rear swivel radius w/o added weight	
		1,583 mm
		1,583 mm



<b>J</b>	Rear swivel radius with counter weight	1,655 mm
		1,655 mm
<b>K</b>	Arm displacement to center stick right	705 mm
		705 mm
<b>K</b>	Arm displacement to center stick left	683 mm
		683 mm
<b>L</b>	Lift height above subgrade	479 mm
		479 mm
<b>M</b>	Scraping depth below subgrade	518 mm
		518 mm
<b>N</b>	Length total traveling gear	2,826 mm
		2,826 mm
<b>N</b>	Length traveling gear, turas guide wheel	2,233 mm
		2,233 mm
<b>O</b>	Turning angle boom system to the right	63 °
		63 °
<b>P</b>	Turning angle boom system to the left	67 °
		67 °



67 °

R	Boom slewing radius center	
		2,503 mm
		2,840 mm
--	Boom slewing radius right	
		2,427 mm
		2,759 mm
--	Boom slewing radius left	
		1,969 mm
		2,280 mm
--	Height dozer blade	
		501 mm
		501 mm

**Please note**

that product availability can vary from country to country. It is possible that information / products may not be available in your country. More detailed information on engine power can be found in the operator's manual; the stated power may vary due to specific operating conditions.

Subject to alterations and errors excepted. Applicable also to illustrations.

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