## **ET90** Tracked Conventional Tail Excavators







## The economic powerhouse

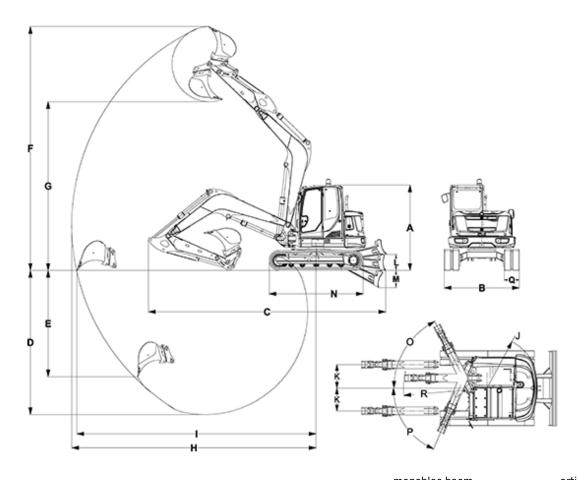
The fuel consumption of the ET90 is up to 20 percent lower than with comparable models – this reduces the operating costs significantly. At the same time, it scores in applications with an excellent engine and hydraulic performance. This efficient combination provides for first-class digging power with 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

## ET90 Technical specifications

Operating weight         8,710 - 9,988 kg           Biting force max.         6,710 - 9,988 kg           Biting force max.         74 kN           Digging depth max.         6,679 mm           Digging depth max.         5,066 - 5,404 nm           Digging radius max.         7,889 mm           Superstructure slewing speed         9 1/min           L W H         7,117 × 2,250 × 2,562 nm           Engine / Motor         Engine / Motor manufacturer           Engine / Motor manufacturer         Deutz           Engine / Motor stage         TCD 2,9 DOC only           Engine / Motor manufacturer         Deutz           Engine / Motor         Engine / Motor           Engine / Motor         Engine / Motor           Engine / Motor         Set 2,920 cm³           RPM / speed         Set 34 km </th <th>Operating data</th> <th></th>	Operating data	
Bit ing force max.         A C A C A C A C A C A C A C A C A C A C	Shipping weight min.	8,348 kg
Breakout force max.         74 kl           Digging depth max.         6.4.679 mm           Dumping height         5.066 - 5.940 mm           Digging radius max.         7.889 mm           Superstructure slewing speed         9 1/min           Superstructure slewing speed         9 1/min           Engine / Motor         1000000000000000000000000000000000000	Operating weight	8,710 - 9,988 kg
Digging dept max.4.679 mmDumping height5.066 - 5.940 mmDigging radius max.7.889 mmSuperstructure slewing speed9.1/minL x W x H7.117 x 2,250 x 2,562 mmEngine / Motor7.117 x 2,250 x 2,562 mmEngine / Motor manufacturerDeutzEngine / Motor typeTCD 2.9 DOC onlyEngine / Motor typeTCD 2.9 DOC onlyEngine / MotorLiquid-cooled 4-cycle turbo in-line engine, direct injection, exhaustEngine / Motor2.920 cm³Engine performance according to ISO6.042.920 cm³RPM / speed2.920 cm³Engine performance according to ISO6.042.920 cm³BatteryCalled StategDuty pumpVariable displacement pumpFlow rate180.51/minOperating pressure for working and driving hydraulics300 barOperating pressure for working and driving hydraulics3200 barOperating pressure swing gear2.240 barTravel speed max.5.1 km/hChain width5.1 km/hChain width5.1 km/hChain width5.1 km/hChain width5.1 km/hStroke dozer blade above subgrade5.1 km mStowe obser blade below subgrade5.1 km mStowel obser blade below subgrade5.1 km mStowel obser blade below subgrade5.1 km/hStowel obser blade below subgrade<	Biting force max.	46 kN
Dunping height         5,066 - 5,940 mm           Digging radius max.         7,889 mm           Superstructure slewing speed         9 1/min           L w W H         7,117 x 2,250 x 2,562 mm           Engine / Motor         TCD 2.9 DCC only           Engine / Motor type         TCD 2.9 DCC only           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust           Engine performance according to ISO         Sto 400 mm           Poreating pressure for working and driving hydraulics         Sto 400 mm           Operating pressure for working and driving hydraulics         Sto 400 mm	Breakout force max.	74 kN
Diging ratusOrganizationSuperstructure slewing speed9 1/minL x W x H7,117 x 2,250 x 2,562 mmEngine / Motor7,117 x 2,250 x 2,562 mmEngine / Motor0Engine / Motor manufacturer0Engine / Motor0Engine / Motor10Engine / Motor11Engine / Motor11Engine / Motor12Engine / Motor12Engine / Motor12Engine / Motor12Engine / Motor12Engine / Motor12Engine / Motor2,920 cm³Engine / Bore / Bor	Digging depth max.	4,679 mm
Superstructure slewing speed         9 1/min           L x W x H         0.7,117 x 2,250 x 2,562 mm           Engine / Motor         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 for S0           Ensision standards stage         3b           Displacement         2,300 rpm           Engine performance according to ISO         St 84 Mh           Tank capacity         Quercanset           Hydraulic system         Upupp           Diva pump         Variable displacement pump           Flow rate         180.5 l/min           Operating pressure for working and driving hydraulics         Quercanset           Operating pressure swing gear         4.240 bar           Hydraulic cil tank         Guercanset           Undercarriage         Guercanset           Travel speed max.         Sk mr/h           Chain width         Guercanset           Docar Blade         Guercanset           Stork dozer blade bovo	Dumping height	5,066 - 5,940 mm
L W X H       7,117 X 2,250 X 2,562 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         Engine / Motor       Subscience       3b         Displacement       Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling         Engine performance according to ISO       Stature         Battery       Good Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling         Engine performance according to ISO       Stature         Battery       Good Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling         Engine performance according to ISO       Stature         Battery       Good Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling         Up young       Stature         Plow rate       Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling         Operating pressure for working and driving hydraulics       Variable displacement purp         Operating pressure swing gear       Cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger gas direct injection, exhaust gas direct injection, exhaust gas direct injection,	Digging radius max.	7,889 mm
Engine / Motor         Engine / Motor           Engine / Motor manufacturer         CD 2.9 DOC only           Engine / Motor type         CD 2.9 DOC only           Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           Emission standards stage         3b           Displacement         2,920 cm <sup>3</sup> Engine performance according to ISO         3c 3.5,4 kW           Battery         36 36 36 36 36 36 36 36 36 36 36 36 36 3	Superstructure slewing speed	9 1/min
Engine / Motor manufacturer         Deuta           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           Emission standards stage         3b           Displacement         2,920 cm3           RPM / speed         2,300 rpm           Engine performance according to ISO         6           Battery         88 Ah           Tank capacity         88 Ah           Tank capacity         88 Ah           Tank capacity         88 Ah           Tok capacity         88 Ah           Tank capacity         88 Ah           Tank capacity         88 Ah           Tank capacity         88 Ah           Tok capacity         98 Ab           Tank capacity         98 Ab           Indercartage         300 bar           Operating pressure for working and driving hydraulics         300 bar           Ground c	L x W x H	7,117 x 2,250 x 2,562 mm
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           Enission standards stage         3b           Displacement         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           RPM / speed         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           Battery         COCOLED 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           Duty pump         Cocolen ing diring hydraul	Engine / Motor	
Engine / Motor         Liquid-cooled 4-cycle turbo in-line engine, direct injection, exhaust gas turbocharger and intercooling           Emission standards stage         3b           Displacement         3b           RPM / speed         2,300 rpm           Engine performance according to ISO         36           Battery         38 Ah           Tank capacity         36           Hydraulic system         36           Duty pump         Variable displacement pump           Flow rate         300 bar           Operating pressure for working and driving hydraulics         300 bar           Operating pressure for working and driving hydraulics         300 bar           Operating pressure for working and driving hydraulics         300 bar           Operating pressure swing gear         4240 bar           Hydraulic oil tank         210           Undercarriage         370 mm           Ground clearance         370 mm           Dozer Blade         370 mm           Stroke dozer blade above subgrade         518 mm           Storke dozer blade below subgrade         518 mm           Sound level (LwA) according to 2000/14/EC         99 dB(A)	Engine / Motor manufacturer	Deutz
Images furbocharger and intercooling           Emission standards stage         3b           Displacement         2,920 cm³           RPM / speed         2,300 rpm           Engine performance according to ISO         2,300 rpm           Battery         88 Ah           Tank capacity         88 Ah           Operating pressure sore sore sore sore sore sore sore so	Engine / Motor type	TCD 2.9 DOC only
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Battery 688 Ah Tank capacity 688 Ah Tank capacity 698 Ab Hydraulic system Duty pump 700 Variable displacement pump Flow rate 700 Variable 700 Variable displacement pump Flow rate 700 Variable 700 Vari	RPM / speed	2,300 rpm
Tank capacityStarTank capacity851Hydraulic systemVariable displacement pumpDuty pumpVariable displacement pumpFlow rate180.5 l/minOperating pressure for working and driving hydraulics300 barOperating pressure swing gear240 barHydraulic oil tank921Undercarriage1Travel speed max.5 km/hChain width450 mmGround clearance370 mmDozer Blade450Stroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmStroke lozer blade below subgrade99 dB(A)Sound level (LwA) according to 2000/14/EC99 dB(A)	Engine performance according to ISO	55.4 kW
Hydraulic system         Duty pump       Variable displacement pump         Flow rate       180.5 //min         Operating pressure for working and driving hydraulics       300 bar         Operating pressure swing gear       240 bar         Hydraulic oil tank       921         Undercarriage       921         Travel speed max.       5 km/h         Chain width       450 mm         Ground clearance       370 mm         Drzer Blade       370 mm         Stroke dozer blade above subgrade       479 mm         Stroke dozer blade below subgrade       518 mm         Stroke dozer blade below subgrade       518 mm         Stroke dozer blade below subgrade       99 dB(A)	Battery	88 Ah
Duty pumpVariable displacement pumpFlow rate180.5 l/minOperating pressure for working and driving hydraulics300 barOperating pressure swing gear240 barHydraulic oil tank240 barUndercarriage92 lTravel speed max.5 km/hChain width450 mmGround clearance370 mmDozer Blade479 mmStroke dozer blade above subgrade518 mmStroke dozer blade below subgrade518 mmStroke dozer blade below subgrade99 dB(A)	Tank capacity	85 I
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Hydraulic oil tank92 lUndercarriage92 lTravel speed max.5 km/hChain width450 mmGround clearance370 mmDozer Blade370 mmStroke dozer blade above subgrade479 mmStroke dozer blade above subgrade518 mmSound level (LwA) according to 2000/14/EC99 dB(A)	Operating pressure for working and driving hydraulics	300 bar
UndercarriageTravel speed max.Chain widthChain widthGround clearanceDozer BladeStroke dozer blade above subgradeStroke dozer blade above subgradeStroke dozer blade below subgradeStroke	Operating pressure swing gear	240 bar
Travel speed max.5 km/hChain width450 mmGround clearance370 mmDozer BladeStroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmStound level518 mmSound level (LwA) according to 2000/14/EC99 dB(A)	Hydraulic oil tank	92
Chain width450 mmGround clearance370 mmDozer Blade370 mmStroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmSound level99 dB(A)	Undercarriage	
Ground clearance370 mmDozer Blade479 mmStroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmSound level99 dB(A)	Travel speed max.	5 km/h
Dozer BladeStroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmSound level99 dB(A)	Chain width	450 mm
Stroke dozer blade above subgrade479 mmStroke dozer blade below subgrade518 mmSound level518 mmSound level (LwA) according to 2000/14/EC99 dB(A)	Ground clearance	370 mm
Stroke dozer blade below subgrade 518 mm   Sound level Sound level (LwA) according to 2000/14/EC 99 dB(A)	Dozer Blade	
Sound level (LwA) according to 2000/14/EC 99 dB(A)	Stroke dozer blade above subgrade	479 mm
Sound level (LwA) according to 2000/14/EC 99 dB(A)	Stroke dozer blade below subgrade	518 mm
-	Sound level	
Cabin - specified sound pressure level LpA according to ISO 6394 79 dB(A)	Sound level (LwA) according to 2000/14/EC	99 dB(A)
	Cabin - specified sound pressure level LpA according to ISO $6394$	79 dB(A)

## **ET90** Dimensions



		monobloc boom	articulated boom
A	Height	2,562 mm	2,562 mm
В	Width cabin	1,000 mm	1,000 mm
В	Width revolving superstructure	2,006.9 mm	2,017 mm
В	Width traversing gear	2,250 mm	2,250 mm
В	Width dozer blade	2,250 mm	2,250 mm
С	Transport length short dipper stick	7,117 mm	6,468 mm
С	Transport length long dipper stick	7,139 mm	6,690 mm
D	Digging depth max. short dipper stick	4,325 mm	4,379 mm
D	Digging depth max. long dipper stick	4,625 mm	4,679 mm
Е	Insertion depth short dipper stick	3,192 mm	3,198 mm
E	Insertion depth long dipper stick	3,474 mm	3,456 mm
F	Insertion height short dipper stick	7,322 mm	7,931 mm
F	Insertion height long dipper stick	7,529 mm	8,196 mm
G	Dump height max. short dipper stick	5,066 mm	5,674 mm
G	Dump height max. long dipper stick	5,272 mm	5,940 mm
Н	Digging radius max. short dipper stick	7,331 mm	7,596 mm
Н	Digging radius max. long dipper stick	7,620 mm	7,889 mm
I	Range short dipper stick	7,179 mm	7,463 mm
I	Range long dipper stick	7,474 mm	7,751 mm

J	Rear swivel radius w/o added weight	1,583 mm	1,583 mm
J	Rear swivel radius with counter weight	1,655 mm	1,655 mm
К	Arm displacement to center stick right	705 mm	705 mm
К	Arm displacement to center stick left	683 mm	683 mm
L	Lift height above subgrade	479 mm	479 mm
М	Scraping depth below subgrade	518 mm	518 mm
Ν	Length total traveling gear	2,826 mm	2,826 mm
N	Length traveling gear, turas guide wheel	2,233 mm	2,233 mm
0	Turning angle boom system to the right	63 °	63 °
Р	Turning angle boom system to the left	67 °	67 °
Q	Chain width	450 mm	450 mm
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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