

ET90

Tracked Conventional Excavator

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 produces outstanding results in applications with an excellent engine and hydraulic performance. This efficient combination provides for first-class digging power with up to 20 percent more bucket breakout force. Conversely, the economical load sensing hydraulic system allows for very precise lifting arm movements with full output at the same time. Whether power or precision, the ET90 is exactly the right 9-ton excavator for any application.

Highlights

- Powerful drive system with LUDV
- Triple boom
- 3-point kinematics
- More cab comfort
- Up to four additional factory-installed control circuits

Technical Data

Hydraulic

Operating pressure hydraulics	4,350.0 psi
Hydraulicpump	Variable displacement pump
Flow rate	46.5 gal/mi
Flow rate max.	47.6 gal/mi
Tank capacity	24.3 gal US

Mechanical - Output Details

Travel speed	3.1 m/H

Mechanical Details

Length	281.1 in
Width	88.6 in
Height	100.9 in
Operating weight (min.-max.)	19,202.3 - 23,161.8 lb
Digging depth (max.)	184.2 in

Engine

Cooling	Water-cooling
Engine type	Diesel engine
Cylinder	4.0
Cylinder capacity	170.8 Inch3
Inclined position max.	30.0 °
Fuel	HVO EN15940
Effective power	74.3 hp
Nominal Engine speed	2,300.0 1/min
Operating power	74.3 hp
Operating Engine speed	2,400.0 1/min
Battery capacity (nom. value)	88.0 Ah
Engine Manufacturer	Perkins
Engine Designation	904J-E28T

Environment Data

Sound power LWA, guaranteed	98.0 dB(A)

Chassis

Operating pressure	3,480.0 psi

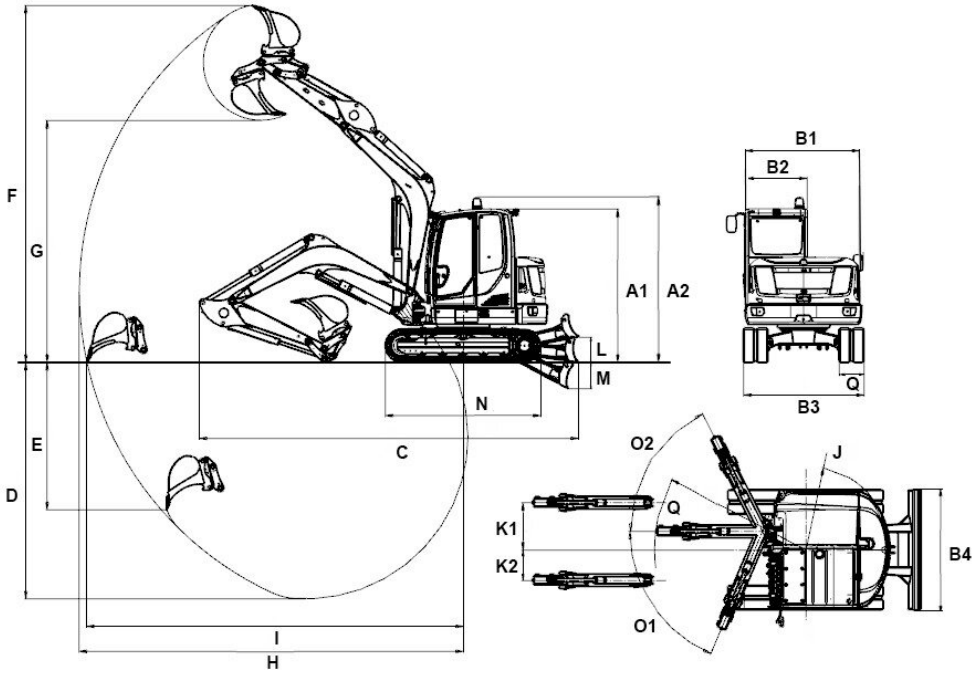
Shipping and Storage

Shipping weight	18,404.2 lb

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Dimensions



		Monobloc boom	Articulated boom
A1	Height with cab	39.4 in	100.94 in
	Height of dozer blade	19.74 in	19.74 in
A2	Total height of cabin with rotating beacon	108.0 in	108.0 in
B1	Width of upper carriage	79.07 in	79.47 in
B2	Width of cab	39.4 in	39.4 in
B3	Width travel gear	88.65 in	88.65 in
B4	Width of dozer blade	87.6 in	88.65 in
C	Transport length short shovel arm	280.41 in	254.84 in
	Transport length long shovel arm	281.28 in	263.59 in
D	Digging depth max., short shovel arm	170.41 in	172.53 in
	Digging depth max., long shovel arm	182.23 in	184.35 in
E	Piercing depth max., short shovel arm	125.76 in	126 in
	Piercing depth max., long shovel arm	136.88 in	136.17 in
F	Piercing height max., short shovel arm	288.49 in	312.48 in
	Piercing height max., long shovel arm	296.64 in	322.92 in
G	Dumping height max., short shovel arm	199.6 in	223.56 in
	Dumping height max., long shovel arm	207.72 in	234.04 in
H	Digging radius max., short shovel arm	288.84 in	299.28 in
	Digging radius max., long shovel arm	300.23 in	310.83 in
I	Max. reach at ground level (short shovel arm)	282.85 in	294.04 in
	Max. reach at ground level (long shovel arm)	294.48 in	305.39 in
J	Tail swing radius	62.37 in	61.7 in
	Tail swing radius with tail weight	65.21 in	65.21 in
K1	Boom offset max. (to center of bucket right side)	27.78 in	27.78 in
K2	Boom offset max. (to center of bucket left side)	26.91 in	26.91 in
L	Stacking height max. (dozer blade above surface)	18.87 in	18.87 in
M	Digging depth max. (dozer blade below surface)	20.41 in	20.41 in
N	Length travel drive	111.34 in	111.34 in
O1	Max. swivel angle (arm system to the left)	67 °	67 °
O2	Max. swivel angle (arm system to the right)	63 °	63 °
	Track width	17.73 in	17.73 in
Q	Boom swing radius center	98.62 in	111.9 in
	Boom swing radius right	95.62 in	108.7 in
Q	Boom swing radius left	77.58 in	89.83 in

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