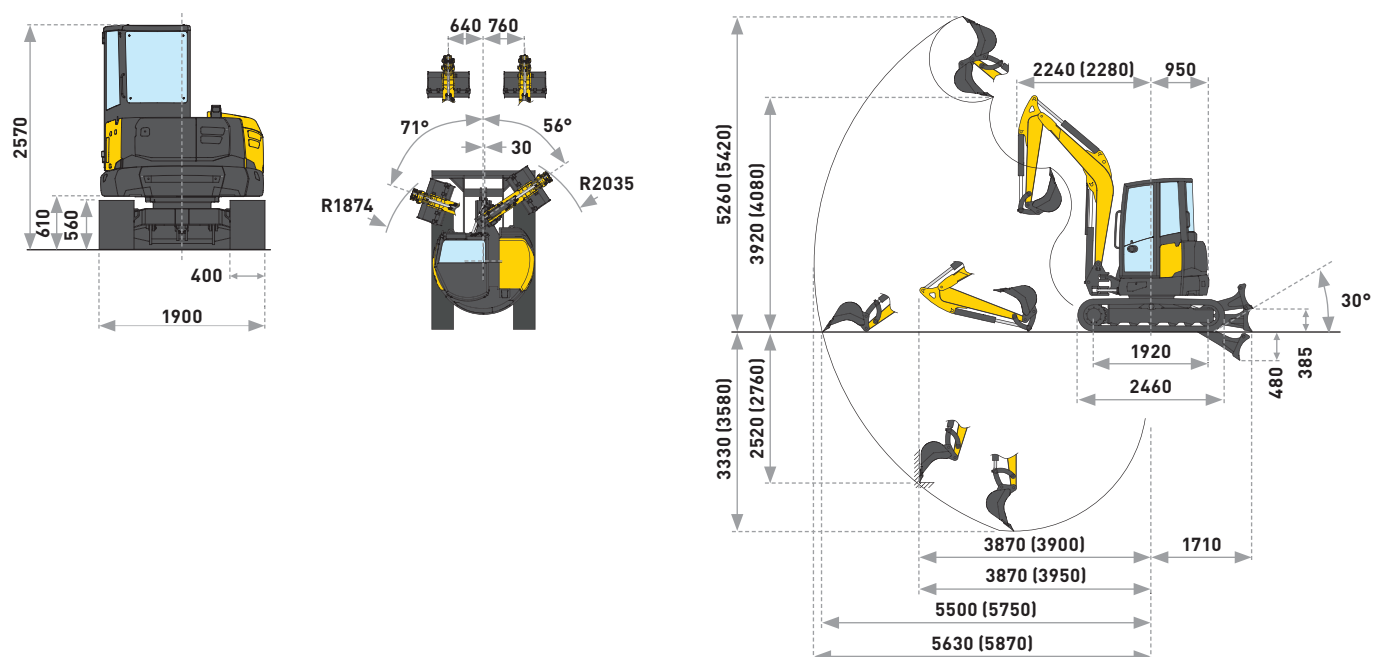


MINI EXCAVATORS

E50D



Model		E50D
Engine		
Type		Perkins 404J-E22T - Stage V
Max. Power (2300rpm)	[kW/hp(CV)]	44 - 59.8
Displacement	(cm³)	2216
Number of cylinders	(n°)	4
Cooling		Liquid
Consumption	(l/h)	7.1
Alternator	[V (Ah)]	12 (85)
Battery	[V (Ah)]	12 (100)
Hydraulic system		
Circuit Type		Load Sensing closed center system with "Flow Sharing" control valve
Pump type		LS hydraulic variable pump with electronic control + 1 gear pump
Pump displacement	(cm³)	65 + 14.5
Pump capacity	(l/min)	129 + 28.8
Max. circuit calibration pressure	(bar)	280
Auxiliary system (max. pressure):		
AUX 1 single or double effect with priority	(l/min / bar)	70 / 200
AUX 2 double effect - optional	(l/min / bar)	40/30 / 280
AUX 3 - optional	(l/min / bar)	40/30 / 280
Stewing & travel speed		
Travelling speed (Auto two speed)	(km/h)	1st : 0 ÷ 2.6 / 2nd : 0 ÷ 4.5
Slew speed	(rpm)	10.5
Controls		
Boom, dipper stick, bucket and turret swing		2 pilot joysticks
Track movements (included counter rotation)		2 pilot levers
Dozer blade		pilot lever
Priority auxiliary system with holding function		
AUX 1 single or double effect		electroproportional switch on right joystick
Auxiliary system:		
AUX 2 double effect		electroproportional switch on right joystick
AUX 3 double effect		electroproportional switch on left joystick
Boom swing		electroproportional switch on left joystick
Weights		
Operating weight with rubber tracks ISO 6016	(kg)	4950
Transport Weight with cab	(kg)	4800
Circuit and component capacities		
Fuel tank	(l)	75
Hydraulic oil tank	(l)	65
Hydraulic circuit capacity	(l)	85
Cooling system capacity	(l)	11
Engine oil	(l)	9.5



Performance data		Arm Std. 1500mm	Arm Opt. 1750mm
Max. digging depth	(mm)	3330	3580
Max. dumping height	(mm)	3920	4080
Bucket breaking force	(daN)	4300	
Arm breaking force ISO 6015	(daN)	2350	
Traction force	(daN)	5420	
Ground bearing pressure with rubber tracks and canopy (with cabin)	(kg/cm ²)	0.28	
Max. slope		60° - 30°	

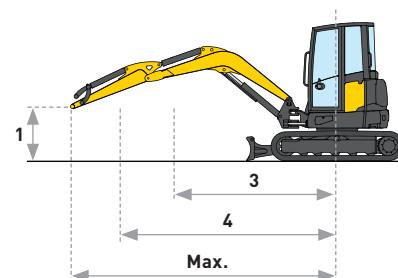
General dimensions		
Maximum width	(mm)	1900
Total height	(mm)	2570
Tracks width	(mm)	400
Rear rotation radius	(mm)	950
Digging arm length standard (optional)	(mm)	1500 (1750)
Rollers number (for each side)	(n°)	5/1

Lifting capacity

Opening arm from the rotation's center (m)	3	4	Max.
Lifting capacity (ton) at 1.0m height			
Frontal and lowered dozer blade	1830*	1280*	1090*
Frontal and lifted dozer blade	1260	820	610
Lateral, open undercarriage	930	620	460

* Indicates the hydraulic load limit.

Standard dipper stick L = 1500mm
(Optional dipper stick L = 1750mm)



The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

Standard equipment

- Tilttable Cab (ROP/TOPS - FOPS Level 1)
- Automatic Courtesy light
- Electric socket on the roof for Rotating Beacon
- Windshield washer
- Rear-view mirrors (left, right)
- Fabric seat with Mechanical suspension (cab)
- Standard arm
- Boom Lift cylinder and dozer blade cylinder protection
- Standard counterweight
- Air Filter with drain valve and electric anti-clogging indicator
- Hydraulic Reversible Fan Drive with automatic functionality
- Servo-assisted hydraulic joysticks with Electro-Hydraulic proportional controls
- Electro-Hydraulic proportional Swing control
- 1st Auxiliary (AUX1) circuit with Electro-Hydraulic proportional control
- Digital cluster with AUX1, AUX2 and AUX3 flow settings
- Electric diverter between Single effect and Double effect AUX1
- 2 speed travel with Automatic Shift Down (from 2nd to 1st gear if more traction is required) and Shift-up
- Electronic Proportional RPM control with Auto-Idle
- Rubber tracks
- Standard Dozer Blade
- Operator manual
- Ignition key, which opens every machine lock
- Standard LED working lights (boom, right-front hood and left side)
- Battery disconnect switch
- Variable Volume Pump
- Standard Hydraulic oil and Lubricants

Optional equipment

- Automatic Air conditioning and Heating
- DAB Radio, Bluetooth, USB, Memory card SD/SDHC, Aux-in (cab only)
- Anti-Theft
- Fabric seat with Pneumatic suspension (cab)
- Rear view camera
- Travel alarm
- Long arm
- Additional counterweight - Light
- Additional counterweight - Heavy
- Electric fuel refill pump
- 2nd Auxiliary (AUX2) circuit with Electro-Hydraulic proportional control
- 3rd Auxiliary (AUX3) circuit with Electro-Hydraulic proportional control
- Grapple provision (AUX3 with flow diverter from bucket cylinder)
- Direct Drainage to tank
- Block valves on dozer blade cylinder
- Object handling kit (block valves on boom and arm, lifting hook and load chart)
- Steel tracks
- 6X1 (Angle/Tilt) Dozer Blade
- Dozer Float
- Extra LED working lights (cab-front and cab-rear)
- Rotating beacon
- Bio Hydraulic oil and Lubricants
- Automatic Centralized Lubrication
- High Flow provision (i.e. for Mulcher): max constant flow of 53 l/min at 180 bar
- Hydraulic quick coupler provision (Single or Double Effect)
- Mechanical and Hydraulic quick couplers
- Buckets

Aftermarket solutions

- Superior Protection grid (FOPS Level 2)
- Front Protection grid (Level 2)
- Arm cylinder and bucket cylinder protection
- Rubber pads for steel tracks
- Geogrip tracks
- Vast variety of attachments
- Full range of Mechanical and Hydraulic quick couplers
- Full range of Buckets



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