

MR406

BACKHOE



OUR STRENGTH IN YOUR WORK

TECHNICAL SPECIFICATIONS

TURBO ENGINE

Manufacturer	Perkins
Model	1104D-44T – MAR-1 / TIER 3
Net Power (ISO 9249)	93hp (69.35kW) @ 2,200RPM
Gross Power (ISO 14396)	100hp (74.5kW) @ 2,200RPM
Maximum Torque	392 Nm @ 1,400RPM
Injection Type	Direct Mechanical
Nº of Cylinders / Displacement	4 / 4.4l
Aspiration	Turbocharged

TRANSMISSION

Drive	4X4
Model	Synchro Power Shuttle 4 WD
Speeds	4 forward / reverse gears

REAR AXLE

Service Brake Type	Multi-disc in oil bath
Service Brake Operation	Simultaneous or independent per wheel
Service Brake Actuation	Hydraulic
Parking Brake Type	Internal mechanical actuation to axle

HYDRAULIC PUMP

System	Open
Pump Type	Gear
Flow Rate	114l/min @ 2,200RPM
General Relief Pressure	210bar

WHEELS

WHEELS (TRACTION)	TYPE	MODEL	TIRE	TUBE
Front Wheels 18"	One-piece	12.5/80 x 18	12.5x18-12 PR / 12.5x18-10 PR	Tubeless
Rear Wheels 24"	One-piece	DW 16L x 24	19.5x24-12 PR / 19.5x24-10 PR	Tubeless

GENERAL DIMENSIONS

Total Transport Height (movement)	3,551mm
Maximum Height, from ground to cab roof	2,880mm
Total Length – standard bucket (with teeth)	7,045 (7,160)mm
Wheelbase	2,135mm
Ground Clearance – front differential	340mm
Ground Clearance – lower base of the shoe	410mm
Operating Weight - Minimum/Maximum	7,170kg / 8,600kg

LOADER ARM

Total Operating Height – standard bucket	4,250mm
Height to hinge pin with arm fully raised	3,535mm
Dump Height standard bucket	2,796mm
Maximum Dump Reach at Maximum Height	725mm
Maximum Tilt Angle to Ground	131.67°
Digging Depth	55mm
Maximum Dump Angle	44.55°
Rollback Angle	40°
Heaped Bucket Capacity	86" 1.00m³
Breakout Force at Bucket considering hydraulic cylinders	8,922kgf
Lift Force	3,057kgf
Total Width - loader bucket	2,260mm

BACKHOE ARM

DESCRIPTION	STANDARD ARM	EXTENDED ARM	EXTENDABLE ARM
Maximum Reach from Swing Pivot	5,380mm	5,865mm	5,480mm
Loading Reach at Maximum Height center of articulation	1,440mm	1,720mm	2,060mm
Maximum Bucket Height	5,360mm	5,825mm	5,460mm
Maximum Bucket Articulation Height	4,530mm	4,915mm	4,630mm
Loading Height	3,632mm	4,015mm	3,732mm
Maximum Digging Depth	4,400mm	4,560mm	5,400mm
Digging/Breakout Force at Arm	3,451kgf	3,451kgf	3,451kgf
Digging/Breakout Force at Bucket	5,355kgf	5,355kgf	5,355kgf
Lifting Capacity	2,555kg	2,555kg	2,555kg
Bucket Capacity 30" standard	0.25m³	0.25m³	0.25m³
Bucket Capacity 24" standard for extendable arm	0.18m³	0.18m³	0.18m³
Bucket Capacity 36" – optional	0.31m³	-	-
Bucket Capacity 18" – optional	0.13m³	0.13m³	0.13m³
Bucket Capacity 12" – optional	0.09m³	0.09m³	0.09m³

STANDARD ITEMS

Reverse alarm	Two front headlights and two rear headlights
Standard 100A alternator	Internal and external (side) rearview mirrors
Front bucket self-leveling	Steering wheel handle
Operator weight-adjustable seat with spring suspension and posture adjustment	Windshield, front wiper, and rear wiper
Sealed battery	Front tires 12.5 x 18 - 10 PR
Differential lock engagement button	Rear tires 19.5 x 24 10 PR
Cab with hot and cold A/C	Storage compartments, cup holders, tool holders
Enclosed cab with ROPS/FOPS certification	Cardan and crankcase protection
Loader bucket 86" 1m³ with teeth	Exhaust protector
Backhoe bucket 30" 0.25m³ with teeth	Stabilizer shoe 40x40
Main system switch	Directional, brake, and movement signals
Seat belt	143-liter fuel tank
Adjustable steering column in distance and depth	Rubber mat
205kg counterweight	External pressure measurement port
Equipment color yellow	

OPTIONS

Pneumatic suspension seat	Double tipping cylinder on the bucket	AM/FM radio with USB and speakers
Hydraulic pump flow rate of 137l/min @ 2,200RPM	Fire extinguisher	MP3 radio and speaker
Depth arm 4560mm	Rear auxiliary lights	Hydraulic breaker
Extendable arm	Independent parking brake	Shoe with rubber coating
Cab with tinted windows / film	Material lifting hook	Reversible shoes with one side rubber-coated
Enclosed cab with two doors / Open cab	Boom swing pedals (Foot swing)	Rotating beacon
Backhoe bucket 12" 0.09m³	Night work lighting with 4 rear headlights	Closed hydraulic system with load sensing
Backhoe bucket 18" 0.13m³	Auxiliary hydraulic line 3rd function	Satellite monitoring system (GPS)
Backhoe bucket 24" 0.18m³	Optional 6x1 bucket	Front bucket sub-blade
Backhoe bucket 36" 0.31m³	Custom paint	165-liter fuel tank
Extra Heavy (EH) chassis	Front tires 12.5x18 - 12 PR	Warning triangle
Retractable seat belt	Rear and front radial tires	Loader version with rear counterweight
Additional counterweight	Rear tires 19.5x24 - 12 PR	

*Specifications subject to change by the manufacturer without prior notice.

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(51) 3488.3488
 /Muller.Equip
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