

PRODUCT SPECIFICATIONS FOR 424



ENGINE

Power - Net	52 kW
Engine Model	Cat C3.6* 55 kW Electronic Turbo Intercooled
Displacement	3.6 l
Torque Rise - 1,200 rpm - Net	86%
Bore	98 mm
Stroke	120 mm
Note	*Meets India Bharat Stage V emission standards.
Ratings @ 2,200 rpm - Gross Power ISO 14396	55 kW/74 hp/75 mhp
Ratings @ 2,200 rpm - Gross Power SAE J1995	56 kW/75 hp/76 mhp
Net Power Rating @ 2,200 rpm - ISO 9249	51 kW/69 hp/70 mhp
Net Power Rating @ 2,200 rpm - SAE J1349	52 kW/70 hp/71 mhp

WEIGHTS

Operating Weight - Nominal	7980 kg
Operating Weight - Maximum	8760 kg
Air Conditioning	45 kg
Total Gross Weight Not to Exceed	8760 kg
Counterweights - Base	115 kg

Cab - ROPS/FOPS	118 kg
Counterweights - Maximum	300 kg
Note	Machine configuration: standard engine, standard stick hoe, standard cab with air conditioning, 2WD, 1.05 m ³ GP loader bucket, 0.27 m ³ standard duty hoe bucket, industrial tire, 115 kg counterweight, 80 kg operator, full fuel tank.
Operating Weight - Maximum - ROPS Capacity	19312 lb

HYDRAULIC SYSTEM

System Pressure - Loader	245 bar
System Pressure - Backhoe	245 bar
Type	Closed Center
Pump Type	Variable-Flow, Axial Piston
Pump Capacity @ 2,200 rpm	132 l/min

STEERING

Turning Circle (inner wheel not braked) - Outside Widest Loader Bucket	12.2 m
Type	Front Wheel
Power Steering	Hydrostatic
Turning Circle - (inner wheel not braked) - Outside Front Wheels	9.3 m
2WD Cylinder, One (1) Double Acting - Bore	75 mm
2WD Cylinder, One (1) Double Acting - Axle Oscillation	9 °

2WD Cylinder, One (1) Double Acting - Stroke	118 mm
--	--------

Turning Circle	2WD
----------------	-----

2WD Cylinder, One (1) Double Acting - Rod Diameter	45 mm
--	-------

TRANSMISSION

Power Shuttle Transmission - Reverse 4th	37.5 km/h
--	-----------

Power Shuttle Transmission - Forward 3rd	23 km/h
--	---------

Power Shuttle Transmission - Reverse 2nd	9.6 km/h
--	----------

Power Shuttle Transmission - Forward 2nd	9.6 km/h
--	----------

Note	Travel speeds of backhoe loader at full throttle, when equipped with Industrial tires (16.9-28 Rear Tires).
-------------	---

Power Shuttle Transmission - Reverse 3rd	23 km/h
--	---------

Power Shuttle Transmission - Forward 4th	37.5 km/h
--	-----------

Power Shuttle Transmission - Forward 1st	5.7 km/h
--	----------

Power Shuttle Transmission - Reverse 1st	5.7 km/h
--	----------

SERVICE REFILL CAPACITIES

Hydraulic Tank	42 l
----------------	------

Transmission - Power Shuttle - 2WD	14 l
------------------------------------	------

Cooling System - A/C	20 l
----------------------	------

Hydraulic System	106 l
------------------	-------

Engine Oil - With Filter	9 l
--------------------------	-----

Fuel Tank	160 l
-----------	-------

AXLE RATINGS

Rear Axle - Dynamic	7648 kg
---------------------	---------

Rear Axle - Static	42152 lb
--------------------	----------

MACHINE DIMENSIONS - PARALLEL LIFT LOADER - GP - 1.05 M3

Overall Width (excluding loader bucket)	2346 mm
---	---------

Ground Clearance (minimum) (300 kg counterweight)	386 mm
---	--------

Wheelbase 2WD/AWD	2200 mm
-------------------	---------

Rear Axle Centerline to Front Grill	2705 mm
-------------------------------------	---------

Height to Loader Hinge Pin (transport)	350 mm
--	--------

Height to Top of Exhaust Stack	2715 mm
--------------------------------	---------

Ground Clearance (minimum) (stabilizer feet)	350 mm
--	--------

Rear Wheel Tread Gauge	1688 mm
------------------------	---------

Ground Clearance (minimum) (LH step)	454 mm
--------------------------------------	--------

Front Wheel Tread Gauge	6.3 ft
Note	Dimensions and performance specifications shown are for machines equipped with industrial tires, standard cab, standard stick, 0.27 m ³ heavy duty bucket, and 1.05 m ³ GP loader bucket and standard equipment unless otherwise specified.
Overall Length in Roding Position (15 degree approach angle and hoe stowed to side)	5686 mm
Overall Transportation Length (loader on ground and hoe stowed to side)	5708 mm
Height to Top of Cab	2928 mm
Overall Transportation Height	3732 mm
Overall Length (loader on ground hoe stowed to machine centerline)	7359 mm

LOADER BUCKET DIMENSIONS AND PERFORMANCE - PARALLEL LIFT LOADER - GP - 1.05 M3

Width	7.4 ft ²
Grill to Bucket Cutting Edge, Carry Position	1477 mm
Dump Height at Maximum Angle	2794 mm
Lift Capacity at Maximum Height	3586 kg
Tilt Breakout Force	52762 N
Lift Breakout Force	52967 N
Maximum Bucket Rollback at Ground Level	38

Maximum Grading Angle	114
Capacity (SAE rated)	1.05 m ³
Dump Reach at Maximum Angle	808 mm
Maximum Operating Height	4394 mm
Maximum Hinge Pin Height	3473 mm
Digging Depth	87 mm
Tipping Load at Breakout Point	6869 kg
Weight (does not include teeth or forks)	530 kg
Width of Dozer Cutting Edge	NA
Jaw Opening Maximum	NA
Dump Angle at Full Height	45
Bucket Jaw Clamping Force	NA

LOADER BUCKET DIMENSIONS AND PERFORMANCE - PARALLEL LIFT LOADER - MP - 1.0 M3

Width of Dozer Cutting Edge	2262 mm
Maximum Operating Height	4372 mm
Jaw Opening Maximum	2.6 ft
Maximum Hinge Pin Height	3473 mm
Weight (does not include teeth or forks)	681 kg
Maximum Bucket Rollback at Ground Level	39

Grill to Bucket Cutting Edge, Carry Position	1447 mm
Dump Height at Maximum Angle	2794 mm
Tipping Load at Breakout Point	6965 kg
Capacity (SAE rated)	1 m ³
Tilt Breakout Force	59180 N
Dump Angle at Full Height	45
Width	2262 mm
Bucket Jaw Clamping Force	59268 N
Dump Reach at Maximum Angle	731 mm
Lift Breakout Force	52458 N·m
Digging Depth	119 mm
Maximum Grading Angle	116
Lift Capacity at Maximum Height	3451 kg

BACKHOE DIMENSIONS AND PERFORMANCE - STANDARD STICK

Loading Reach	1521 mm
Swing Arc	180
Loading Height	4015 mm
Bucket Dig Force	56282 N
Reach from Rear Axle Centerline at Ground Line	6978 mm

Stick Dig Force	34933 N
Digging Depth, 600 mm (2 ft) Flat Bottom	4114 mm
Reach from Swing Pivot at Ground Line	5612 mm
Digging Depth, 2440 mm (8 ft) Flat Bottom	3762 mm
Stabilizer Overall Width	2242 mm
Digging Depth, SAE Maximum	4138 mm
Maximum Operating Height	5701 mm
Bucket Rotation	205
Digging Depth, Manufacturer's Maximum	4729 mm
Stabilizer Spread	NA
Digging Depth, 610 mm (2 ft) Flat Bottom, Manufacturer's Maximum	4690 mm

MACHINE DIMENSIONS - PARALLEL LIFT LOADER - MP - 1.0 M3

Ground Clearance (minimum) (LH step)	454 mm
Rear Wheel Tread Gauge	1688 mm
Rear Axle Centerline to Front Grill	2705 mm
Height to Top of Exhaust Stack	2715 mm
Ground Clearance (minimum) (stabilizer feet)	350 mm
Wheelbase 2WD/AWD	2200 mm

Height to Loader Hinge Pin (transport)	352 mm
---	--------

Overall Width (excluding loader bucket)	2346 mm
--	---------

Note	Dimensions and performance specifications shown are for machines equipped with industrial tires, standard cab, standard stick, 0.27 m ³ heavy duty bucket, and 1.05 m ³ GP loader bucket and standard equipment unless otherwise specified.
-------------	---

Front Wheel Tread Gauge	1910 mm
--------------------------------	---------

Ground Clearance (minimum) (300 kg counterweight)	386 mm
--	--------

Overall Transportation Length (loader on ground and hoe stowed to side)	5653 mm
--	---------

Overall Length (loader on ground hoe stowed to machine centerline)	7329 mm
---	---------

Overall Length in Rooding Position (15 degree approach angle and hoe stowed to side)	5657 mm
---	---------

Overall Transportation Height	3732 mm
--------------------------------------	---------

Height to Top of Cab	2928 mm
-----------------------------	---------

424 STANDARD EQUIPMENT

CAB ROPS AND FOPS

Cab, Standard

TIRES/STEERING/BRAKES

Two Wheel Drive

ENGINE

Engine, Cat® C3.6 55 kW

PRODUCT LINK™

PL 243

424 OPTIONAL EQUIPMENT

HYDRAULICS (CHOOSE ONE)

Hoe, 6 Bank Valve

Hoe, 7 Bank Valve (Hammer/Work Tools)

LOADER BUCKET (CHOOSE ONE)

GP, 1.05 m³ Bucket

MP, 1.0 m³ Bucket

HOE BUCKET (CHOOSE ONE)

0.27 m³ Bucket

0.24 m³ Bucket

0.12 m³ Bucket

0.30 m³ Bucket

OTHER OPTIONS

Air Conditioning

Hydraulic Lines, One Way

Hoe Coupler

Additional Work Lamps

Sun Visor

OTHER ATTACHMENTS

B85 Hammer

COUNTERWEIGHT (CHOOSE ONE)*

Counterweight, None

Counterweight, 115 kg

Counterweight, 240 kg

Counterweight, 300 kg

*For correct counterweight selection, please contact your local Cat dealer.