





| Engine | |
|------------------|---------|
| Net power | 37.6 kW |
| Weights | |
| Operating weight | 5775 kg |

306 Features

Comfortable Cab

Spacious cab with ergonomic low effort controls and suspension seat keeps you comfortable all day.

Performance

0.22 m³ Heavy-Duty bucket is standard. High bucket and stick forces with fast, smooth hydraulics ensure optimum performance to maximize your production.

Durability

Heavy-Duty boom, stick and bucket. Stronger robust undercarriage is built for stability, durability and low maintenance.

Versatility

Optional auxiliary hydraulic lines provide full machine utilization for increased machine versatility.

Serviceability

Fast, simple and convenient maintenance reduces machine downtime.



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The Cat[®] 306 Mini Hydraulic Excavator has been designed and built by Caterpillar to deliver exceptional performance, productivity, controllability and reliability at the lowest cost. To support your work, the Cat dealer network provides world-class after sales support.

Operator Station

Simple, easy operation allows the operator to focus on production.

Ease of Operation

Low effort, ergonomically designed pilot hydraulic levers provide full controllability. All controls are pilot hydraulic operated, including front linkage, travel, dozer and auxiliary. Maximum travel speed can be selected by easily accessible foot switch on the cab floor. The integrated monitor reports vehicle information accurately.

Quiet and Comfortable Operator Station

The spacious cab provides a comfortable working environment for the operator.

- Low operator and spectator sound levels
- Cab includes heater and air conditioner for maximum comfort in a range of climatic conditions
- Fully adjustable, reclining fabric suspension seat with headrest for greater comfort
- Flat floor allows easy sweep out
- Radio ready with two speakers and an antenna (optional 12V AM/FM radio)

Excellent Visibility

The 306 features excellent visibility to the work tool and machine surroundings.

- Assisted front window opens easily
- Removable lower front window
- Front window wiper and washer for a clear view
- Dozer blade is visible from all swing angles for maximum convenience





Performance

Powerful digging with precise control.



Hydraulics

The highly efficient hydraulic system has been designed for improved controllability, reliability and low operating costs. The hydraulic system is an open-center two-pump system with one independent third pump. Two main hydraulic pumps have a flow control system that reduces flow to a minimum when the joysticks and travel controls are in the neutral position. This reduces fuel consumption and sound levels and extends component life. Auxiliary lines enable the operation of a variety of work tools including hydraulic hammers, augers, shears and crushers.

Stick and Boom

The front structure is designed to provide maximum digging capability using high tensile strength steel. All pins used in the front linkages have thick chrome plating to prevent pin galling and squealing for long pin and stick life. The diameter of each pin is made as large as possible to smoothly distribute the shear and side loads associated with the stick during tough digging jobs. The pin and low maintenance bushing arrangement reduces pin friction, extending the greasing interval.

Undercarriage Lower structure supports high production.





Steel Track

Caterpillar designed undercarriage is built for stability and durability. A 400 mm triple grouser track is standard. Lower profiled undercarriage provides better stability and lifting capability. Travel motors with two-speed capability and strong track drives provide high gradeability and turnability for various ground conditions. Split master link and sealed track rollers reduce owning and operating costs. Steel tracks provide optimum stability when lifting over the side.

Rubber Pads

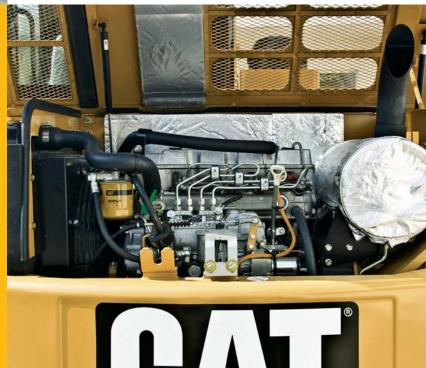
The 400 mm wide shoe has four holes that attach rubber pads to the track. This option will prevent damage to paved road surfaces, minimizing noise and vibration during travel with a standard steel track system.

Blade

The dozer blade is an important tool used for backfilling trenches, leveling, landscaping, lifting and job site cleanup. Large capacity blade provides better stability and easier grading performance with its unique floating position in the control lever stroke. The blade has been extended for greater stability while digging and increased departure angle for truck loading and unloading.

Engine Clean, quiet and efficient.

High displacement Mitsubishi Motors Corporation 4M40 engine offers long life and improved thermal efficiency with low fuel consumption and reduced engine sound levels and vibration. Engine meets EPA Tier 2 and EU Stage II gaseous emission regulations as well as Beijing local standard DB11/185-2003 and DB11/184-2003, China national standard GB17691-2001 and Korea National Institute of Environment Regulation. Standard glow plug provides reliable engine starting capability in lower temperatures. High ambient capability is secured even when the air conditioning is working.



Serviceability and Customer Support

Simplified service and maintenance save you time and money.



Easy Service

Fast, easy service with extended service intervals, convenient filter access and user-friendly electronic diagnostics increases productivity and reduces maintenance costs:

- Tilt-up, wide engine enclosure for easy access to all major components and service points
- All grease fittings can be easily reached
- Daily maintenance points accessible from ground level
- Precleaner for extended engine air filter life
- Radial seal air filter provides easier maintenance
- Efficient, large fuel filter and water separator
- Maintenance free Cat batteries are standard
- Fuel refueling pump with auto shut-off is standard
- Low maintenance bushings extend greasing intervals to 500 hours on blade and front linkage joints

Superior Dealer Service

Your Cat dealer is ready to assist you with your purchase decision and everything after. They offer a wide range of services to help you get the job done.

Safety Job site safety is critical.

The 306 has been designed with operator safety in mind with features including:

- Safety interlock system with neutral engine starting
- Laminated front window shield
- Breakable rear window for escape
- Handrail and anti-slip step



306 Mini Hydraulic Excavator Specifications

| Ln | ~ | п | n | 0 |
|----|---|---|---|---|
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| | | = | | - |

| Engine model | 4M40 |
|--------------|---------|
| Net power | 37.6 kW |
| Bore | 95 mm |
| Stroke | 100 mm |
| Displacement | 2.84 L |

• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator

- No engine power derating required below 1500 mm altitude
- Net power rating per ISO 9249, SAE J1349 and EEC 80/1269

Weights

Operating weight

• Weight with cab, 3 m boom, 1.6 m stick, 0.22 m³ bucket (766 mm width) and 400 mm shoes

Hydraulic System

| Digging forces – stick | 25.5 kN |
|-----------------------------|------------|
| (standard) | |
| Digging force – bucket | 38.6 kN |
| Main system – maximum flow | 152 L/min |
| Maximum pressure – | 24 500 kPa |
| implements | |
| Pilot system – maximum flow | 18.7 L/min |
| Pilot system – maximum | 3400 kPa |
| pressure | |
| | |

Swing System

| Machine swing speed | 8.8 rpm |
|---------------------|-----------|
| Swing torque | 12.3 kN·m |

Blade

5775 kg

| Width | 1950 mm |
|--------|---------|
| Height | 340 mm |

Service Refill Capacities

| Cooling system | 15.5 L |
|------------------|--------|
| Engine oil | 11.2 L |
| Fuel tank | 135 L |
| Hydraulic tank | 57 L |
| Hydraulic system | 85 L |

Drive Travel speed

| Travel speed | 4.8 km/h |
|----------------------|----------|
| Maximum drawbar pull | 48.2 kN |

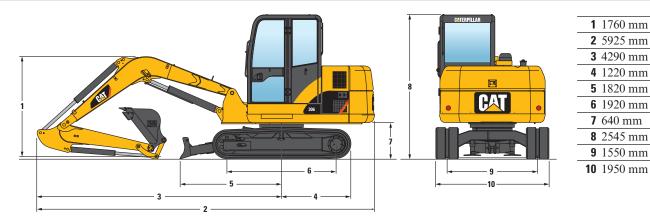
Track

| Track shoe width (standard) | 400 mm |
|--|---------|
| Track length | 2500 mm |
| Number of shoes (each side) | 38 |
| Number of track rollers (each side) | 5 |
| Number of carrier rollers (each side) | 1 |

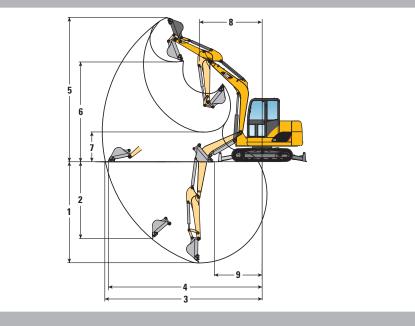
• Track shoe has 4 holes for pad shoe adoption

306 Mini Hydraulic Excavator Specifications

Dimensions



Working Range



| 1.6 m Stick | | | | | | | |
|-------------|---------|--|--|--|--|--|--|
| 1 | 3780 mm | | | | | | |
| 2 | 3030 mm | | | | | | |
| 3 | 6110 mm | | | | | | |
| 4 | 5980 mm | | | | | | |
| 5 | 5530 mm | | | | | | |
| 6 | 3890 mm | | | | | | |
| 7 | 1470 mm | | | | | | |
| 8 | 2720 mm | | | | | | |
| 9 | 1990 mm | | | | | | |
| | | | | | | | |

Lift Capacity

| | * | ISO 10 Sae J | | | | | | | | C T | | | | |
|-------------|-----|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| | | | 2 m | | | 3 m | | | 4 m | | | | Мах | |
| | l / | Α | В | C | Α | В | C | Α | В | C | Α | В | C | Radius |
| 4 m | kg | | | | | | | *900 | *900 | *900 | *950 | *950 | *950 | 4.5 m |
| 3 m | kg | | | | | | | *950 | *950 | *950 | *950 | *950 | 800 | 5.1 m |
| 2 m | kg | | | | *1650 | *1650 | *1650 | *1200 | *1200 | *1200 | *950 | 750 | 700 | 5.5 m |
| 1 m | kg | | | | *2400 | 1900 | 1650 | *1500 | 1200 | 1100 | *1000 | 750 | 650 | 5.6 m |
| 0 m | kg | *1150 | *1150 | *1150 | *2600 | 1850 | 1600 | *1700 | 1200 | 1050 | *1100 | 750 | 700 | 5.4 m |
| -1 m | kg | *2400 | *2400 | *2400 | *2400 | 1850 | 1600 | *1650 | 1150 | 1050 | *1150 | 850 | 750 | 5.0 m |
| –2 m | kg | *3000 | *3000 | *3000 | *2000 | *2000 | 1650 | *1350 | *1350 | 1050 | *1200 | *1200 | 950 | 4.3 m |

Lifting capacities were calculated with a machine equipped with a 0.22 m^3 capacity standard bucket. The difference between the weight of a work tool attachment and the standard bucket must be subtracted.

Standard equipment may vary. Consult your Cat dealer for details.

One piece boom Standard stick – 1.6 m 766 mm width, 0.22 m³ capacity bucket with 5 tips Bucket side cutters Radial seal air filter Water separator in fuel line Auxiliary hydraulic valves (two) Two speed travel Air conditioner Light, storage box mounted (one) Cat one key security system Door locks and cap locks Signaling/warning horn Boom drift reducing valve Automatic swing parking brake Counterweight, 510 kg Cat maintenance free batteries Openable front windshield Windshield wiper and washer Removable lower windshield Interior lighting Cup holder Storage pocket Ashtray Radio mounting (meet DIN size) Two stereo speakers and antenna Washable floor mat Working hour meter Fabric suspension seat with headrest Seat belt, 50 mm width Blade with floating position Towing eye on baseframe Shoes, 400 mm triple grouser track shoe with holes (for rubber pad fit) Electric re-fueling pump Accumulator GPS ready

306 Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

Cab mounted light Hand control pattern changer (two way) AM/FM radio Rearview mirror Auxiliary hydraulic lines Heavy-duty swivel guard Quick coupler (manual) Shoes, 400 mm triple grouser track shoe with rubber pad

Notes

306 Mini Hydraulic Excavator

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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