

Challenger MT700B

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We're up to
The Challenge

MT700B SERIES

225 to 265 PTO HP

MODEL	MT745B	MT755B	MT765B
ENGINE PTO HP @ rated 2,100 RPM* Gross Engine HP Type # Cylinders / Valves Displacement (cu. in. / L) Engine Torque Rise Aspiration	Caterpillar®C9 ACERT® Technology Tier 3 225 (168 kW) 269 (201 kW) in-line, liquid-cooled diesel 6 / 24 537 / 8.8 42% Turbocharged and air-to-air aftercooled	Caterpillar®C9 ACERT® Technology Tier 3 245 (183 kW) 301 (224 kW) in-line, liquid-cooled diesel 6 / 24 537 / 8.8 42% Turbocharged and air-to-air aftercooled	Caterpillar®C9 ACERT® Technology Tier 3 265 (198 kW) 320 (239 kW) in-line, liquid-cooled diesel 6 / 24 537 / 8.8 42% Turbocharged and air-to-air aftercooled
FUEL SYSTEM	HEUI - ADEM 4 full electronic control	HEUI - ADEM 4 full electronic control	HEUI - ADEM 4 full electronic control
TRANSMISSION Maximum speed (mph / km/h) Creeper, 4 to 1 reduction	Cat®Powershift 16F/4R 24.6 / 39.6 Optional	Cat®Powershift 16F/4R 24.6 / 39.6 Optional	Cat®Powershift 16F/4R 24.6 / 39.6 Optional
DIFFERENTIAL/STEERING	Cat®differential steering	Cat®differential steering	Cat®differential steering
GAUGE OPTIONS Standard Wide Ultra Wide	60" to 88" (1,524-2,235 mm) 80" to 120" (2,032-3,048 mm) 120" to 160" (3,048-4,064 mm)	60" to 88" (1,524-2,235 mm) 80" to 120" (2,032-3,048 mm) 120" to 160" (3,048-4,064 mm)	60" to 88" (1,524-2,235 mm) 80" to 120" (2,032-3,048 mm) 120" to 160" (3,048-4,064 mm)
GAUGE ADJUSTMENT METHOD	Infinitely adjustable bar axle & smooth hard-bar	Infinitely adjustable bar axle & smooth hard-bar	Infinitely adjustable bar axle & smooth hard-bar
BELT OPTIONS Low Profile Tread Bar General Ag Extreme Application	16", 18", 25" (405, 455, 635 mm) 16", 18", 20", 25", 30" (405, 455, 510, 635, 760 mm) 14", 16", 18", 20", 25", 30" (355, 405, 455, 510, 635, 760 mm)	16", 18", 25" (405, 455, 635 mm) 16", 18", 20", 25", 30" (405, 455, 510, 635, 760 mm) 14", 16", 18", 20", 25", 30" (355, 405, 455, 510, 635, 760 mm)	16", 18", 25" (405, 455, 635 mm) 16", 18", 20", 25", 30" (405, 455, 510, 635, 760 mm) 14", 16", 18", 20", 25", 30" (355, 405, 455, 510, 635, 760 mm)
UNDERCARRIAGE Hardbar Suspension Undercarriage Suspension Idlers Midwheels Drivers	Two Marsh Mellow® springs** Suspended Midwheels Narrow, Medium Narrow, Medium, Wide Narrow, Medium, Wide	Two Marsh Mellow® springs** Suspended Midwheels Narrow, Medium Narrow, Medium, Wide Narrow, Medium, Wide	Two Marsh Mellow® springs*** Suspended Midwheels Narrow, Medium Narrow, Medium, Wide Narrow, Medium, Wide
INDEPENDENT PTO	1,000 RPM 20-spline 1.75" (45 mm), electronically controlled	1,000 RPM 20-spline 1.75" (45 mm), electronically controlled	1,000 RPM 20-spline 1.75" (45 mm), electronically controlled
ELECTRICAL SYSTEM Alternator Batteries Block Heater (optional)	160 amp (2) 1,000 cca, 12-V 110-V or 220-V	160 amp (2) 1,000 cca, 12-V 110-V or 220-V	160 amp (2) 1,000 cca, 12-V 110-V or 220-V
HYDRAULIC SYSTEM Type Max. flow Max. system pressure Remotes standard/optional	Load-Independent Flow Division (closed-center, pressure compensated) 43.5 GPM (164.7 L/min) 2,900 PSI (200 bar) 4 / up to 6	Load-Independent Flow Division (closed-center, pressure compensated) 43.5 GPM (164.7 L/min) 2,900 PSI (200 bar) 4 / up to 6	Load-Independent Flow Division (closed-center, pressure compensated) 43.5 GPM (164.7 L/min) 2,900 PSI (200 bar) 4 / up to 6
3-POINT HITCH / DRAWBAR Standard 3-point hitch Optional steerable 3 pt. Hitch Optional wide swinging drawbar	16,000 lb (7,257 kg), Cat. 3/3N 16,000 lb (7,257 kg), Cat. 3/3N Roller type, +/-32 degrees swing	16,000 lb (7,257 kg), Cat. 3/3N 16,000 lb (7,257 kg), Cat. 3/3N Roller type, +/-32 degrees swing	16,000 lb (7,257 kg), Cat. 3/3N 16,000 lb (7,257 kg), Cat. 3/3N Roller type, +/-32 degrees swing
FUEL CAPACITY 60" to 88" gauge 80" to 120" gauge 120" to 160" gauge Optional fuel capacity***	118 U.S. gal (446.7 L) 178 U.S. gal (673.8 L) 178 U.S. gal (673.8 L) 208 U.S. gal (787.4 L)	118 U.S. gal (446.7 L) 178 U.S. gal (673.8 L) 178 U.S. gal (673.8 L) 208 U.S. gal (787.4 L)	118 U.S. gal (446.7 L) 178 U.S. gal (673.8 L) 178 U.S. gal (673.8 L) 208 U.S. gal (787.4 L)
DIMENSIONS Wheelbase (in / mm) Minimum Width - Wide Gauge (in / mm) Height to Top of Cab (in / mm) Overall Length (in / mm) Drawbar Clearance (in / mm) Approx. Shipping Weight (lbs / kg)	96" (2,438 mm) 120" (3,048 mm) 135.5" (3,444 mm) 233" (5,917 mm) 14.3" (365 mm) 31,603 lb (14,365 kg)	96" (2,438 mm) 120" (3,048 mm) 135.5" (3,444 mm) 233" (5,917 mm) 14.3" (365 mm) 31,603 lb (14,365 kg)	96" (2,438 mm) 120" (3,048 mm) 135.5" (3,444 mm) 233" (5,917 mm) 14.3" (365 mm) 31,603 lb (14,365 kg)

* Manufacturer's estimate ** Marsh Mellow® spring is a registered trademark of Firestone Industrial Products Company. *** Not available on all configurations

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CH700B_S (04) 10 PD

Standard Equipment

- Engine Caterpillar® C9 ACERT® Technology (Tier III)
- Engine Ecology Drain
- Water Separator and Fuel Filter
- Single Fan, Suction Type
- Side-mounted muffler on right-hand corner of cab with integrated exhaust
- Air Inlet Heater
- Primary and secondary air cleaner with Venturi-Type PreCleaner
- Extended Life Coolant
- Inching Control Pedal

Undercarriage

- Chemical Tank Mounting points

Hydraulics

Valve functions include:

- Raise, Lower, & Float Detents
- Automatic raise/lower kick out at full cylinder travel
- Positive float lockout
- Load-sensing, closed-center pressure-compensating, Load Independent Flow Division

Electrical

- One Ag Plug and one 12 volt power outlet in cab
- 7-Pin Trailer Connectors

- Two forward-facing Halogen lights, Two side flood lights on beltline, Two flood lights in rear of cab, and two flood lights on rear fender

Operator Environment

- ROPS Cab with sound suppression
- Air Conditioner and Pressurizer
- SurroundFlow™ Heater and Defroster
- Two beverage holders, storage box, floor mat, coat hook, and literature storage
- Cigar lighter and ashtray
- Courtesy lights (inside cab)

- Horn
- Ten Monitor Mounting Bosses
- Radio ready
- Tilt and Telescopic Steering column
- Tinted Glass
- Front Wiper
- Tractor Management Center integrated into right armrest.

- Air Suspended Swivel Seat with Vertical Height and Backrest Angle Adjustment, Fore / Aft and Side / Side Isolators, Lumbar Support, Seat Belt, and adjustable Left Armrest

Optional Equipment

Operator Environment

- Deluxe cab
- Deluxe Wipers (additional rear & right side)
- Front Sun Visor
- Set of Four Speakers
- Amplified Subwoofer
- 6-disc CD changer
- Power Pack of additional Electrical outlets in cab
- Electric controlled external mirrors
- Automatic Climate control
- Delayed engine shutdown
- Delayed lighting shutdown
- Pre-wiring for 2-way FM radio
- Deluxe Semi-Active Seat With Heated Seat and backrest
- Decelerator pedal
- Remote Radio Controls mounted in steering wheel
- Rear Sun Visor
- Right and left side sun shades
- Accessory Bar for mounting monitors
- Charcoal Cab Filter
- AG Falling Object Protection Plate (FOPS)

Hydraulics

- 5th and 6th hydraulic remote
- Implement case drain
- Power beyond with free-return to sump

Electrical

- Batteries with Disconnect
- Engine Block Heater
- NightBreaker™ High Intensity Discharge Lights, two front-facing, two rear-facing
- Deluxe rear roofline and courtesy lights
- 2 rotating Beacons
- Hydraulic Sump heater
- Radar
- Auto-Guide Navigation System
- CAT® product link
- Reverse Alarm
- ISO 11783 Connector

Other

- Front Weights with bracket
- Idler weights
- Air Compressor
- Additional handrail on inboard side of steps
- Up to 208-gallon fuel capacity (with additional fuel tanks)
- Extra Wide Mirrors
- Fire Extinguisher Bracket
- Vandalism Package