

# Cat®
# 275
## Compact Track Loader

**Features:**
The Cat® 275 Compact Track Loader (CTL), with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its standard equalizer (E-bar) undercarriage system provides superior traction, flotation, stability, and speed to work in a wide range of applications and underfoot conditions. The 275 features the following:

- **Redesigned Operator Station** delivers a larger operating environment, and combined with additional seat travel, the 275 provides more space for operators of any size. The optional **one-piece, sealed, and pressurized cab** offers a clean and quiet workspace with excellent air distribution through optimally placed vents throughout the cab.
- **Available ventilated and heated high-back air ride seat** with seat-mounted adjustable joystick controls deliver industry-leading operator comfort.
- **High-performance power train** provides standard two-speed travel, combined with the optional Speed Sensitive Ride Control system for operation on rough terrain, enabling better load retention, increased productivity, and greater operator comfort.
- **Three levels of auxiliary hydraulic performance available** Standard Flow, High Flow, and High Flow XPS. **Standard flow** for attachments that require a base level of auxiliary flow and horsepower, **High Flow** boosts the auxiliary flow for applications that demand additional hydraulic flow for increased attachment performance, and the **High Flow XPS** hydraulic system delivers high flow and high pressure, and is available for applications that demand maximum hydraulic work tool performance.
- **High Horsepower, High Torque Engine** with Electronically controlled Cat® C3.6TA (turbocharged, after-cooled) engine that meets U.S. EPA Tier 4 Final and EU Stage V emission standards while delivering maximum horsepower across a wide RPM range and providing high torque for increased working performance, no matter the application.
- **Standard equalizer bar (E-bar) undercarriage and standard two-speed travel.** Harnessing Caterpillar's heritage and leadership with track-type tractors, the standard **E-bar CTL undercarriage** provides a hybrid undercarriage solution delivering the benefits of a rigid style undercarriage design when lifting heavy loads or when using heavy attachments (example: mulcher, dozer blade, grader blade), while also providing the benefits of an oscillating undercarriage design when encountering terrain or obstacles.
- **Maximize machine capability and control with the Advanced Joysticks and Advanced Touchscreen Monitor.** The **20.3 cm (8-inch) Advanced Touchscreen Monitor** offers cutting-edge functionality and control that includes an integrated radio, Bluetooth® connectivity, and multi-camera (side-view) option, and supports 32 different language choices. The **Advanced Joysticks** provide unmatched control of machine functions and adjustments within the monitor without operators having to remove their hands from the controls. This includes the on-joystick navigation of the Advanced Touchscreen Monitor, radio volume up/down/mute, creep activation, creep on/off, creep speed increment/decrement, one-button Smart Attachment control activation, and additional auxiliary control buttons that deliver single-button control of complex attachment functions.
- **Available Rear Auxiliary ready** option provides hydraulic valving and lines that deliver a method to power hydro-mechanical attachments that mount to the rear of the machine (such as a rear scarifier, winch, etc.).
- **Ground-level access** to all daily service and routine maintenance points help reduce machine downtime for greater productivity.
- **Broad range of performance-matched Cat Attachments** make the Cat Compact Track Loaders the most versatile machine on the job site.

# Specifications

## Engine

| | | |
|---|---|---|
| Engine Model | US EPA Tier 4 Final/ EU Stage V, Cat C3.6TA (turbocharged and after-cooled) | |
| Gross Power SAE J1995 (@ 2400 rpm) | 82 kW | 111 hp |
| Net Power SAE 1349 | 82 kW | 110 hp |
| Net Power ISO 9249 | 81 kW | 109 hp |
| Peak Torque at 1,500 rpm SAE J1995 | 501 N·m | 370 lbf-ft |
| Displacement | 3.6 L | 221 $in^3$ |
| Stroke | 120 mm | 4.7 in |
| Bore | 98 mm | 3.9 in |

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

## Weights*

| | | |
|---|---|---|
| Operating Weight | 5625 kg | 12,401 lb |

*Operating Weight, Operating Specifications, and Dimensions are all based on 75 kg (165 lb) operator, all fluids, two speed, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, open Rollover Protective Structure (ROPS) cab, mechanical suspension seat, standard monitor, 1000 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

## Power Train

| | | |
|---|---|---|
| Travel Speed (Forward or Reverse) | | |
| One Speed | 8.4 km/h | 5.2 mph |
| Two Speed | 12.5 km/h | 7.8 mph |

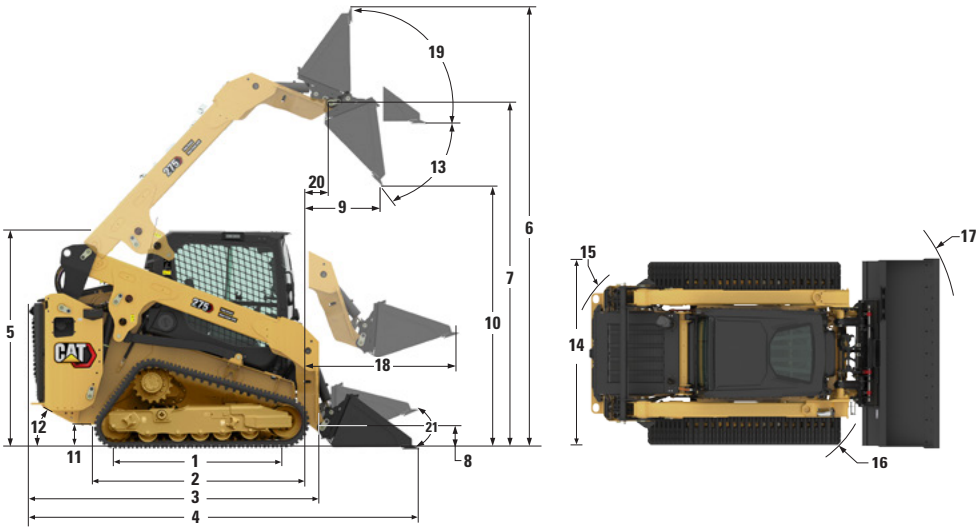
## Cab

| | |
|---|---|
| ROPS | ISO 3471:2008 |
| Falling Object Protective Structure (FOPS) | ISO 3449:2005 Level I |
| | ISO 3449:2005 Level II (Optional) |

## Service Refill Capacities

| | | |
|---|---|---|
| Cooling System | 17.5 L | 4.6 gal |
| Engine Crankcase | 9.0 L | 2.4 gal |
| Fuel Tank | 136.1 L | 36.0 gal |
| Hydraulic System | 41.0 L | 10.8 gal |
| Hydraulic Tank | 26 L | 6.9 gal |
| Diesel Exhaust Fluid (DEF) Tank | 11.0 L | 2.9 gal |

# 275 Compact Track Loader




## Dimensions*

| | | | |
|---|---|---|---|
| **1** | Length of Track on Ground | 1836 mm | 72.3 in |
| **2** | Overall Length of Track | 2341 mm | 92.2 in |
| **3** | Length without Bucket | 3250 mm | 128.0 in |
| **4** | Length with Bucket on Ground | 3880 mm | 152.8 in |
| **5** | Height to Top of Cab | 2230 mm | 87.8 in |
| **6** | Maximum Overall Height | 4193 mm | 165.1 in |
| **7** | Bucket Pin Height at Maximum Lift | 3415 mm | 134.4 in |
| **8** | Bucket Pin Height at Carry Position | 205 mm | 8.1 in |
| **9** | Reach at Maximum Lift and Dump | 814 mm | 32.0 in |
| **10** | Clearance at Maximum Lift and Dump | 2694 mm | 106.1 in |
| **11** | Ground Clearance | 280 mm | 11.0 in |
| **12** | Departure Angle | 29.5° | |
| **13** | Maximum Dump Angle | 44.7° | |
| **14** | Vehicle Width (400 mm/15.7in tracks) | 1926 mm | 75.8 in |
| | Vehicle Width (450 mm/17.7 in tracks) | 1976 mm | 77.8 in |
| **15** | Turning Radius from Center – Machine Rear | 1931 mm | 76.0 in |
| **16** | Turning Radius from Center – Coupler | 1531 mm | 60.3 in |
| **17** | Turning Radius from Center – Bucket (racked) | 2320 mm | 91.3 in |
| **18** | Maximum Reach with Arms Parallel to Ground | 1171 mm | 46.1 in |
| **19** | Rack Back Angle at Maximum Height | 86.7° | |
| **20** | Bucket Pin Reach at Maximum Lift | 415 mm | 16.3 in |
| **21** | Roll Back Angle (ground level) | 27.3° | |

## Hydraulic System

| | | |
|---|---|---|
| Hydraulic Flow – Standard: | | |
| Loader Hydraulic Pressure | 24 130 kPa | 3,500 psi |
| Loader Hydraulic Flow | 86 L/min | 23 gal/min |
| Hydraulic Power (calculated) | 34.6 kW | 46.4 hp |
| Hydraulic Flow – High Flow: | | |
| Loader Hydraulic Pressure | 24 130 kPa | 3,500 psi |
| Loader Hydraulic Flow | 129 L/min | 34 gal/min |
| Hydraulic Power (calculated) | 51.5 kW | 69.6 hp |
| Hydraulic Flow – High Flow XPS: | | |
| Loader Hydraulic Pressure | 28 000 kPa | 4,061 psi |
| Loader Hydraulic Flow | 128 L/min | 34 gal/min |
| Hydraulic Power (calculated) | 60.2 kW | 80.7 hp |

## Operating Specifications*

| | | |
|---|---|---|
| Open Canopy: | | |
| Operating Weight | 5625 kg | 12,401 lb |
| Tipping Load | 5386 kg | 11,874 lb |
| Rated Operating Capacity (35%) | 1885 kg | 4,156 lb |
| Rated Operating Capacity (50%) | 2693 kg | 5,937 lb |
| Ground Contact Area (400 mm/15.7 in tracks) | 1.61 $m^2$ | 2,496 $in^2$ |
| Ground Contact Area (450 mm/17.7 in tracks) | 1.81 $m^2$ | 2,808 $in^2$ |
| Ground Pressure (400 mm/15.7 in tracks) | 34.3 kPa | 5.0 psi |
| Ground Pressure (450 mm/17.7 in tracks) | 30.6 kPa | 4.4 psi |

## Operating Specifications* *(continued)*

| | | |
|---|---|---|
| Enclosed Cab Adds: | | |
| Operating Weight | +99 kg | +218 lb |
| Tipping Load | +136 kg | +300 lb |
| Rated Operating Capacity (35%) | +48 kg | +105 lb |
| Counterweight Adds: | | |
| Operating Weight | +194 kg | +428 lb |
| Tip Load | +361 kg | +796 lb |
| Rated Operating Capacity (35%) | +126 kg | +279 lb |
| Wide Tracks (17.7 in/450 mm) Set Adds: | | |
| Operating Weight | +22 kg | +49 lb |
| Tip Load | +19 kg | +42 lb |
| Rated Operating Capacity (35%) | +7 kg | +15 lb |
| Heavy-Duty Rear Door Guard Adds: | | |
| Operating Weight | +75 kg | +165 lb |
| Tip Load | +172 kg | +379 lb |
| Rated Operating Capacity (35%) | +60 kg | +133 lb |
| Heavy-Duty Rear Bumper Adds: | | |
| Operating Weight | +79 kg | +174 lb |
| Tip Load | +171 kg | +377 lb |
| Rated Operating Capacity (35%) | +60 kg | +132 lb |
| FOPS LEVEL 2 Plate Adds: | | |
| Operating Weight | +73 kg | +161 lb |
| Tip Load | +113 kg | +249 lb |
| Breakout Force, Tilt Cylinder | 4519 kg | 9,963 lb |
| Breakout Force, Lift Cylinder | 2913 kg | 6,422 lb |

# 275 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

## Engine

- The Cat® C3.6TA (turbocharged and after-cooled) engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe). See label or instruction manual for gas refrigerant identification. If machine is provided with R134a (Global Warming Potential = 1430), the system contains 0.85 kg (1.87 lbs) of refrigerant, which has a $CO_2$ equivalent of 1.216 metric tons (1.34 tons). If machine is provided with R1234yf (Global Warming Potential = 0.501), the system contains 0.85 kg (1.87 lbs) of refrigerant, which has a $CO_2$ equivalent of 0.00043 metric tons (0.00047 tons).

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

## Sound Performance

Operator Sound Pressure Level* 82 dB(A) (ISO 6396:2008)

Exterior Sound Power Level** 105 dB(A) (ISO 6395:2008)

- Cab and ROPS are standard in North America and Europe.

*The declared dynamic operator sound pressure levels per ISO 6395:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

**The labeled sound power level for the CE/UKCA marked configurations when measured according to the test procedure and conditions specified in European Union Directive "2000/14/EC" as amended by "2005/88/EC" and UK Noise Regulation 2001 No. 1701.

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Extended life coolant and long life hydraulic fluid extend maintenance intervals to reduce fluid consumption
  - Boost productivity with Cat technologies like work tool positioner, return to dig and Cat Smart Attachments
  - Save fuel with efficiency features such as foot throttle pedal and cooling system demand fan
  - Remote machine monitoring through onboard Product Link telematics

## Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

| Material Type | Weight Percentage |
|---|---|
| Steel | 60.78% |
| Rubber | 18.53% |
| Iron | 9.53% |
| Nonferrous Metal | 2.72% |
| Fluid | 1.64% |
| Plastic | 1.56% |
| Other | 1.51% |
| Uncategorized | 1.20% |
| Mixed Metal | 1.07% |
| Mixed-Metal and Nonmetal | 0.99% |
| Lead (Batteries) | 0.47% |
| Mixed Nonmetallic | 0.00% |
| Total | 100.00% |

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

The data provided above was based on the product configuration as provided by the individual product group.

## ATTACHMENTS

Get more from your machine with Cat attachments. Choose from a wide variety of options and tailor your machine to different tasks and conditions.

- Augers
- Backhoes
- Bale Grabs
- Bale Spears
- Blades, Grader, Box, Angle and Dozer
- Brooms, Angle, Pickup and Utility
- Brushcutters
- Buckets
- Cold Planers
- Compactors
- Fork Tines and Carriages
- Hammers
- Material Handling Arm
- Mulchers
- Nursery Forks
- Rakes, Grapple, Landscape and Power Box
- Shears
- Snow Blowers
- Snow Plows
- Snow Pushes
- Snow Wings
- Stump Grinders
- Tillers
- Trenchers
- Wheel Saws
- Smart Backhoe
- Smart Dozer Blade with Assist
- Smart Grader Blade with Assist

























## MANDATORY EQUIPMENT

- Quick Coupler: Manual or Hydraulic
- High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder
- Steel Imbed Rubber Track – 400 mm (15.7 in) block tread, 450 mm (17.7 in) block tread, 450 mm (17.7 in) bar tread
- Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers

### PERFORMANCE PACKAGES

- Performance Package HP1: *Standard Flow Hydraulics*
- Performance Package HP3: *High Flow XPS Hydraulics*
- Performance Package HP4: *High Flow XPS Hydraulics, Rear Auxiliary Ready*

### COMFORT PACKAGES

- Open canopy: *Cup Holder, Cell Phone Pocket, choice of vinyl Seat (Mechanical Suspension, or High Back/Heated/Air Ride Seat)*
- Enclosed Cab with heat and air conditioning: *Side Windows, Cup Holder, Cell Phone Pocket, choice of Seat (Mechanical Suspension, High Back/Heated Air Ride Seat, or High Back/Ventilated and Heated Air Ride Seat) and Door choice (Glass or Polycarbonate)*

### TECHNOLOGY PACKAGES

- T2 – *Standard Monitor, Standard Joysticks, traditional Key Start switch, and Rear-view camera.*
- T4 – *Advanced Touchscreen Monitor, Advanced Joysticks, Push start, X-mount cell phone holder, and a Rear-view camera.*
- T5 – *T4 + 2 additional side view cameras.*

### RADIO

- Radio, *none – for open canopy machines and countries not certified for Bluetooth® technology*
- Integrated AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) AUX input, and BT microphone. Only for use with enclosed cab. Availability varies by country.*
- Integrated DAB+/AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) AUX input, and BT microphone. Only for use with enclosed cab. Availability varies by country.*

### PRODUCT LINK™

- Product Link™ Basic series PL243
- Product Link Elite series PLE643

### COOLING FAN

- On-demand, variable speed hydraulic cooling fan
- On-demand, variable speed hydraulic cooling fan, with automatic and manual purge reversing operation

### GUARDING AND SEALING PACKAGES

- HD0 – *base guarding and sealing (engine air inlet rain cap, front cab-to-frame sealing, and hydraulic fill access door)*
- HD1– *intermediate guarding and sealing† (HD0 + cab-to-frame side sealing, lockable fuel fill access door, and tilt cylinder guarding)*
- HD2 – *most comprehensive guarding and sealing† (HD1 + turbo guard, exhaust stack wrap, DPF wrap, quick disconnect guarding, under step hydraulic lines guard cover, engine air inlet pre-cleaner.)*

†Some equipment varies by region.

## STANDARD EQUIPMENT

### ELECTRICAL

- Work Tool Electrical Harness
- Heavy duty battery
- Battery disconnect with lockout feature
- 12-volt Electrical System
- 100 Ampere Alternator
- LED Work Lights
- Auto Reverse Lights
- Switch Backlighting
- Interior LED Dome Light
- Backup Alarm
- Electrical Outlet, Beacon
- Exterior Courtesy Lighting

### OPERATOR ENVIRONMENT

- Full color LCD monitor: *Creep speed control, Drive response adjustment, Implement response adjustment, Drive Power Priority adjustment, Language selection (× 32), Multi-operator Anti-theft Security System and Monitoring, Maintenance schedule and reminders, Event and Diagnostic Code monitoring, Date /Time/ Units/Brightness settings, and Smart Technology for use with Smart Attachments.*
- Operator Warning System Indicators: *Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Supply Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System (where applicable)*
- Gauges: *Fuel Level, Hour Meter, Hydraulic Temperature, Hour Meter, Battery Voltage, Tachometer*
- Fold In Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: *Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages*
- ROPS Cab, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- Headliner
- Interior Rearview Mirror
- Horn
- Hand (Dial) Throttle, Electronic
- Seat Mounted Joystick Controls
- Cell Phone Storage Pocket
- Cup Holder
- 12-volt power port
- Foot Throttle

### HYDRAULICS

- Selectable control pattern – ISO or H
- Electro/hydraulic implement control
- Electro/hydraulic hydrostatic transmission control
- Speed sensor guarding
- Heavy duty flat faced quick disconnects with integrated pressure release lever and case drain
- Hydraulic oil level sight gauge

### POWER TRAIN

- Cat C3.6TA turbocharged, after-cooled diesel engine, meeting Tier 4 Final and Stage V Emission Standards:
  - Glow plugs starting aid
  - Liquid cooled, direct injection
- Extended life antifreeze (–37° C, –34° F)
- Air cleaner, dual element, radial seal
- Scheduled Oil Sampling (S·O·S℠) Valve, Hydraulic Oil
- Ecology drain – coolant
- Radiator coolant level sight gauge
- Radiator expansion bottle
- Filter, hydraulic supply, cartridge type
- Filter, hydraulic return, cartridge type
- Filter, canister type, engine oil
- Filter, canister type, fuel and water separator
- Radiator/hydraulic oil
- Cooler (side-by-side)
- Spring applied, hydraulically released, parking brakes
- Hydrostatic transmission
- Lockable fuel cap
- Hydraulic demand cooling fan
- Auto engine idle

### UNDERCARRIAGE

- E-bar (equalizer bar) suspension
- Two speed travel
- Integrated tie downs on track frame (4)

### FRAME

- Machine tie down points (9)
- Removable panels for machine frame cleanout
- Support, lift arm
- Steel rear and front bumpers, welded
- Fuel fill, machine right hand side

### OTHER

- Auxiliary Hydraulics, Continuous Flow
- Telematics, Product Link, Cellular
- Steel engine door with replaceable louvers
- Engine door – lockable
- Work tool attachment coupler
- Cat ToughGuard™ hose

## OPTIONAL EQUIPMENT

- External Counterweights
- Beacon, LED
- Oil, Hydraulic, Cold Operation
- 4-point machine lifting eyes
- Paint, Custom
- Speed Sensitive Ride Control
- Bluetooth Key Security
- Attachment Hose Guide
- Corrosion Inhibitor Coating (FOPS, Level II)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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AEHQ8470-02 (10-2025)
Replaces AEHQ8470-01
Build Number: 05A
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