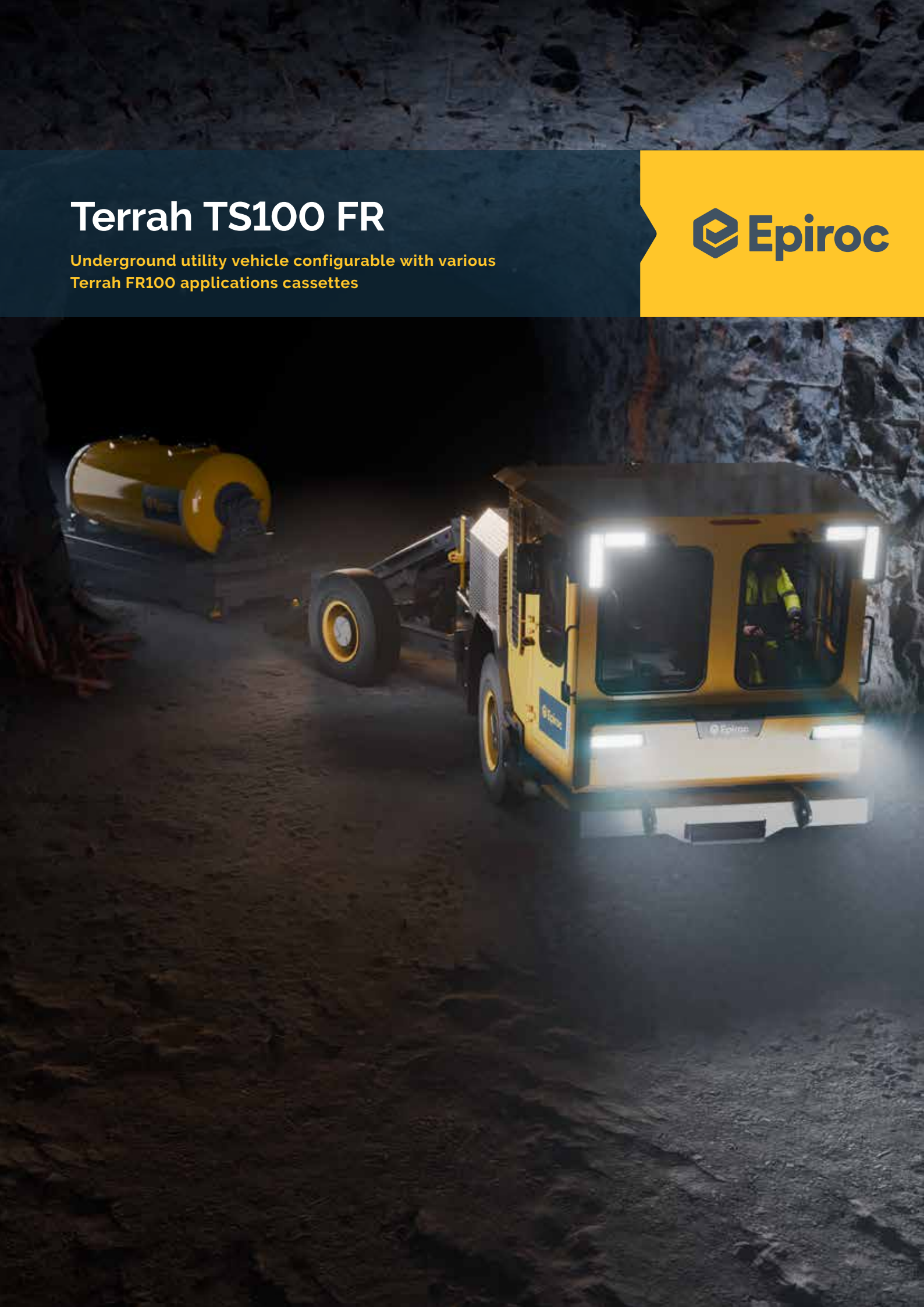
Terrah TS100 FR

Underground utility vehicle configurable with various Terrah FR100 applications cassettes



Versatility at its core

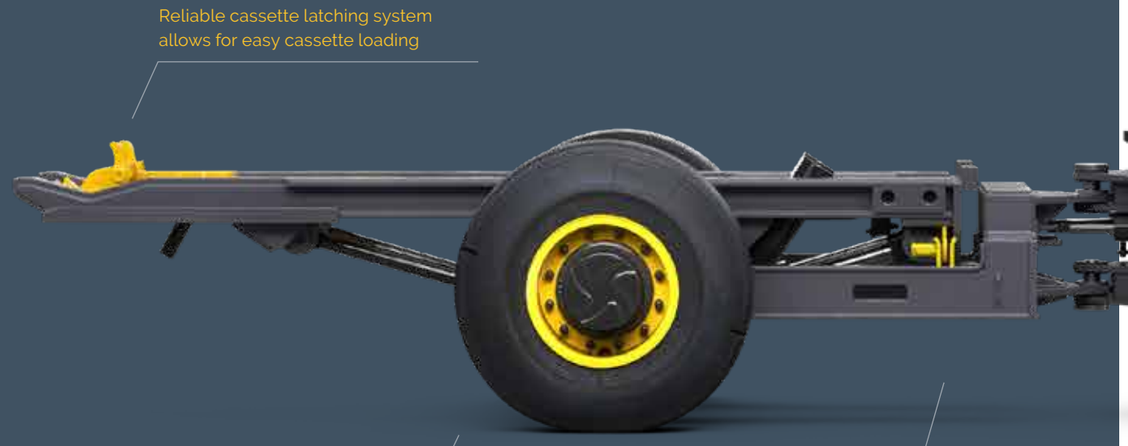
The Terrah TS100 FR flexible carrier and cassette solutions take versatility and cost-efficiency to new levels. Designed with safety and modularity in mind, a single carrier can be configured with a comprehensive range of cassettes, and easily adapted for various applications. Thanks to the flexible design and cassette solutions, the Terrah TS100 FR enables high utilization and productivity within your operations.

Main benefits

Safety – built with operator well-being in focus, featuring safety systems such as SAHR brakes, door-open-brake-apply (DOBA), and cassette loading safely controlled from the cabin to reduce manual handling.

Improved efficiency – the full utilization of a single carrier with modular cassette solutions optimize operators' time, reduce costs, and provide high flexibility throughout the entire operation.

High productivity – with a 10 tonne capacity carrier and a flexible roll-on/roll-off loading system that enables fast and smooth cassette changes, Terrah TS100 FR improves your productivity.





Built to deliver. Designed to adapt.

The Terrah Series utility vehicles are designed to maximize modularity, productivity and safety in small to medium-sized underground mining and civil construction tunnels. Built on a legacy of reliable, durable products now enhanced with Epiroc technology, the Terrah Series supports customers throughout their operations.



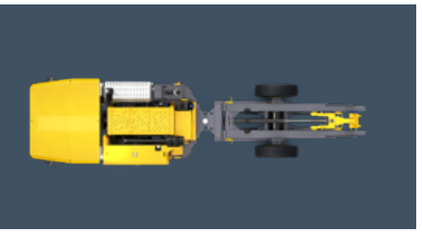
+ Safety at its core

Designed with operator safety and well-being in mind, the operator's compartment combines ROPS/FOPS protection, comfort, and functionality. Thanks to advanced suspension seats and climate control, operator fatigue can be reduced, while excellent visibility supports safer interactions and precise machine control.



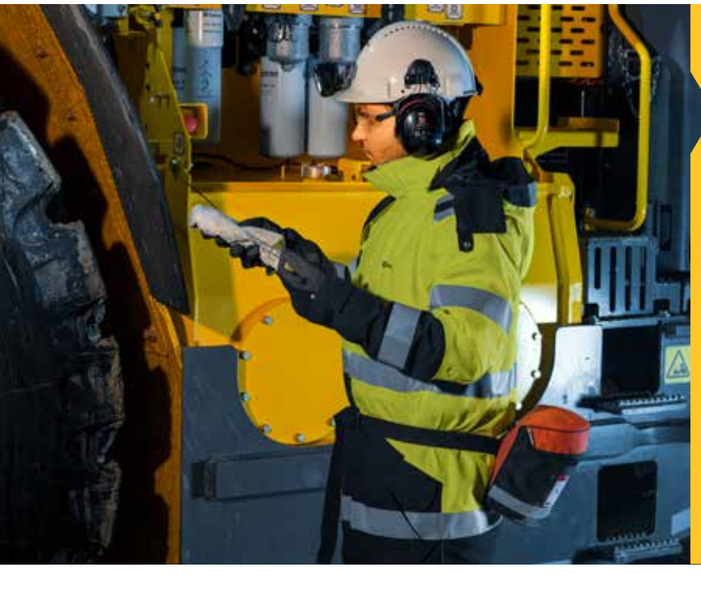
+ Performance that saves time

Driven by a high-performance drivetrain, the Terrah Series delivers great capability, enhanced control, and improved operational efficiency through reduced ramp traveling time. The fully automatic drivetrain ensures consistent performance across diverse underground conditions, while the integrated exhaust brake enhances downhill speed control and reduces brake wear.



+ Reliability at scale

The Terrah Series utility vehicles are engineered for reliability and high availability, combining robust components, advanced data logging, and an integrated onboard monitoring system to minimize the risk of breakdowns and maximize uptime. When maintenance is required, the technician-friendly service bay enables routine tasks to be done safely, quickly, and easily.



A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.

Technical specifications

Engine

	Standard	Alternative*
Brand/ model	Cummins QSL9	Cummins QSL9
Power at sea level	213kW @ 2000rpm	213kW @ 2000rpm
Cooling	Liquid (glycol/water)	Liquid (glycol/water)
Engine control	EU Stage IIIA	EU Stage V

All engines are CANMET and MSHA, USA approved.
*Please note! Require ultra low sulfur diesel and low ash engine oil

Exhaust System

EU Stage IIIA	EU Stage V
Catalytic exhaust gas purifier	Diesel Exhaust Fluid (DEF)
Fume diluter	Selective Catalytic Reduction (SCR)
	Diesel Particulate Filter (DPF)

Transmission

Dana T14 series power shift transmission
Torque converter lockup
Automatic gear shifting

Axles

Brand/ model	Dana 113
Differential, front	Open
Differential, rear	Open

Brakes

Wetted fully enclosed immersed brake disks
Spring Applied Hydraulic Released (SAHR) fail safe brakes - park/ emergency
Manually activated park/ emergency brake valve
Hand pump for releasing brakes
Brake-by-wire service brake

Tires

Size front and rear	12.00 x 20
Air-filled tires	

Steering

Frame articulation ± 40°

Operator's compartment

FOPS/ ROPS certified
Two person (1 x driver and 1 x passenger)
Windows, front window washers and wipers
Thermal and sound insulation
Temperature and fan speed adjustable air conditioner with heater
Steering wheel
Air suspension and height adjustable operator's seat
Driver seats fitted with 3-point seat belt
Rear view mirrors
Cup holder
Flashlight with charger
External camera

Specifications

Capacities	
Tramming capacity	10 000 kg
Weight*	
Weight, empty	14 795 kg
Axle load, front (at GVW)**	
Axle load, rear (at GVW)**	

*Weights are approximate and given with filled fluids and a standard configured vehicle
**Weight depends on the Terrah FR100 cassette

Main frame

Steel fabrication construction
Bolt-on operating cabin
Front axle oscillation of 5° both sides
Integral hydraulic and fuel tanks
Two double acting hydraulic steering cylinders (pull/push)
Articulation lock
3-point of contact for boarding/exit
Front towing attachment
Central manual lubrication system
2 x stop blocks (wheel chocks)
Propshaft slings, protection
Tank level sight glasses
Tilting load frame with hydraulic controls

Fuel

Fuel tank size	200 liters

Compatible with HVO100.

Control system

Terrah PLC Controller
Robust water-resistant digital display
On-screen push button interface
Electronic pressure sensors
Speedometer
Overspeed control
Decline speed control
Delayed engine shutdown
Inclinometer
Door Open Brake Applied (DOBA)
Neutral gear brake (NBA)
Seat belt switch interlock



Technical specifications

Electrical system

System voltage	24V
Battery	2 x 100 Ah
Alternator	180 Amps
Lockable ignition switch	
Inlet plug for jump start	
Front grounding straps: Chain	
12V, 20 A power supply in cabin with socket and connector	
Epiroc signature light: front	
Epiroc signature light: rear	
Engine starter isolation switch	
Lockable double pole battery isolator switch	
Directionally controlled drive lights	
Steering column control	
Amber warning lights	
Reverse warning light and alarm	
Rear service brake warning lights	
Orange turning direction indicator lights	
Red and green marker lights	

System

- 3 x emergency stop buttons
- 2 x 9 kg handheld fire extinguishers

Hydraulic system

- Gear pumps
- System pressure up to 350 Bar
- 11 µm return line filter

Measurements

- Noise
- Vibration
- Visibility

Digital product

- Fleet monitoring with Fleet+

Options

Axles

Differential, front	No-spin

Tires

- Polyurethane foam filled tires

Operator's compartment

- Canopy (no windows and no air conditioner)
- Window protection

System

- ANSUL manual dry fire suppression system
- ANSUL FIRECHECK automatic dry fire suppression system

Main frame

- Central automatic lubrication system
- Wiggins fast fuel fill
- Wiggins central service points

Control system

- Collision Avoidance System (CAS) Interface
- Secondary steering and braking system
- Machine speed limit

Crane

- Palfinger, PK6500, 1 030kg @ 5.6m

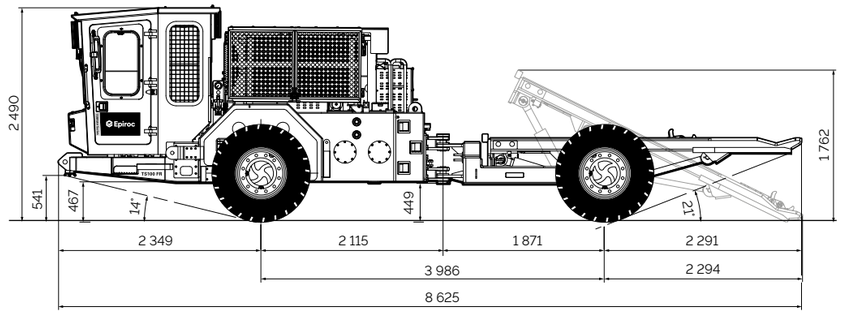
Grade performance

Standard configuration, unloaded												
%	Grade	0	2	4	6	8	10	12	14	16	18	20
km/h	1st gear	4,6	4,6	4,6	4,6	4,6	4,5	4,5	4,5	4,5	4,5	4,5
	2nd gear	9,5	9,4	9,4	9,4	9,3	9,3	9,3	9,3	9,2	9,2	9,2
	3rd gear	16,4	16,4	16,3	16,2	16,1	16,0	15,9	15,8	15,1	14,6	14,1
	4th gear	28,9	28,6	28,3	28,1	26,3	24,8	23,3	21,8	20,6	19,4	17,9
Standard configuration, loaded												
km/h	1st gear	4,6	4,6	4,6	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
	2nd gear	9,4	9,4	9,3	9,3	9,2	9,2	9,1	9,1	8,7	8,5	8,2
	3rd gear	16,4	16,2	16,1	15,9	15,2	14,3	13,5	12,7	12,0	11,4	10,7
	4th gear	28,6	28,1	25,7	23,2	20,9	18,7					

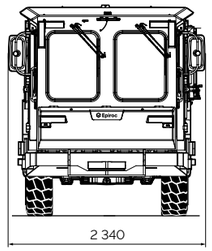
Technical specifications

Measurements

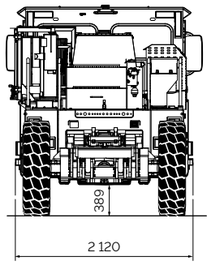
The dimensional drawings are shown in millimeters, and are based on the standard vehicle configuration.



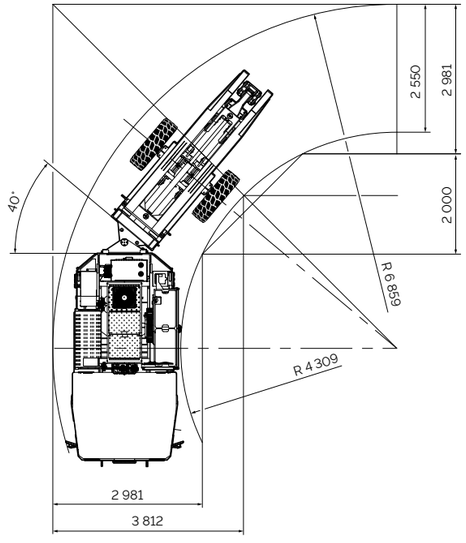
Left side view of Terrah TS100 FR



Front view of Terrah TS100 FR



Rear view of Terrah TS100 FR



Turning radius of Terrah TS100 FR

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United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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