







- >> Rated Payload-91t (100 US Ton)
- >> Heaped capacity—57m³ (74.5yd³)
- >> High Torque Rise, Economical Engine Options

- >> Automatic Electronic Control Allison Transmission >> Full Hydraulic disc Brakes; Dual Mode Retardation
- >> Brand New Cab with Full Scene, Low Noise

TR 100

>> FRAME

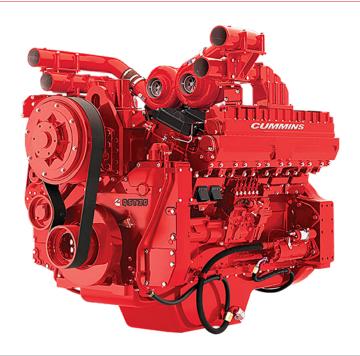
Full box section frame rails, integral front bumper, closed-loop crossmember and rear torque tubes of high yield strength steel and tail seat. Crossmember connections are high strength alloy steel castings.



>> ENGINE

Model	Cummins QST30	MTU 12V2000C-66	
Type 4 Cycle Turbocharged/Aft	ercooled		
Gross Power @ 2 100 rev/min	783kW (1050hp)	783kW (1050hp)	
Net Power @ 2 100 rev/min	727kW (975hp)	727kW (975hp)	
Gross Power rating to SAE J1995			
Engine requires no deration up	to 2500m (8201 ft) altitude.		
Maximum Torque	4629Nm@1300 rev/min	4620Nm@600 rev/min	
Cylinders/Configuration	12V	12V	
Bore x Stroke	140 x 165 mm (5.51 x 6.5 in)	135 x 156 (5.32 x 6.14 in)	
Displacement	30.5L	26.8L	

24 volt negative ground electrical system. Four 12 volt 195 Ah Batteries with master disconnect switch. Two 9kW starters. Neutral start. 100A alternator with integral voltage regulator.





TR100

>> TRANSMISSION

Allison 86100RS CEC5 Automatic Electronic Control. Remote Mounted in the frame with integral TC 890 torque converter and planetary gearing. Six speeds forward, one reverse. Automatic lock-up in all speed ranges. Downshift inhibitor Hydraulic retarder.

Speeds with standard planetary:

Speed	Forw	ard					Reverse
	1st	2nd	3rd	4th	5th	6th	R1
Ratios	4.24	2.32	1.69	1.31	1.00	0.73	5.75
Km/h	8.2	15.0	20.6	26.5	34.8	47.6	6.0
Mile/h	5.1	9.3	12.8	16.5	21.6	29.6	3.8

>> DRIVE AXLE

Heavy duty axle with full floating axle shafts, single reduction spiral bevel gear differential, and planetary reduction at each wheel.

Ratios:	Standard	Optional
Differential	2.16:1	2.16:1
Planetary	13.75:1	10.50:1
Total Reduction	29.70:1	22.68:1

>> SUSPENSION

- Front: King pin strut type independent front wheel suspension uses self-contained, variable rate, nitrogen/oil cylinders.
- Rear: Variable rate nitrogen/oil cylinders with A -frame linkage and lateral stabilizer bar.

Maximum Strut Stroke:	Front Rear	235 mm (9.25 in) 175 mm (6.90 in)
Maximum Rear Axle Oscill	ation	± 7.0 Degrees

>> TYRES

Standard:	Front and Rear 27.00-49 (48PR) E-4
Rim Width	19.5 in

Consult tyre manufacturers for optimum tyre selection and correct t-km/h (ton-mile/h) capacity for application.

>> BRAKES

Service: All hydraulic brake system control. Transmission mounted pressure compensating piston pump provides hydraulic pressure for brakes and steering. Independent circuits front and rear. Each circuit incorporates a nitrogen/hydraulic accumulator which stores energy to provide instant braking response.

Front Brakes:	Dry Disc Disc diameter Pad area, total	965 mm (38 in) 2064 cm² (320 in²)
Rear Brakes:	Oil cooled, multiple dia from dirt and water. Braking surface total	

PARKING - Rear brakes applied by spring loaded opposing piston on disc pack, hydraulically released.

RETARDATION - Modulated lever control of rear disc brakes or hydraulic retarder in transmission. 920 kW (1 234 hp) continuous.

SECONDARY - Park push button solenoid control applies service and parking brakes. Automatically applies when engine is switched off. Parking brake applies when system pressure falls below a pre-determined level.

Brakes conform to ISO 3450.

>> STEERING

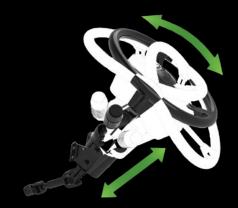
Independent hydrostatic steering with closed-center steering valve, accumulator and pressure compensating piston pump. Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power it provides steering of approximately two lock-tolock turns.

A low pressure warning light activates should the system pressure fall below 82 bar (1186 lbf/in2).

Steering conforms to ISO 5010.

Maximum Tyre Steering Angle

<u>39</u>°





HOIST

Two body hoists mounted inside the frame rails. Hoists are two - stage with power down in the second stage. The body hydraulic system is independent of the steering hydraulic system.

System Pressure	190 bar (2 750 lbf/in²)
Body Hydraulic Pump Flow @ 2 100 rev/ min	/ Rate 365 litre/min (97 US gal/min)
Body Raise Time	16.3 Seconds
Body Lower Time	18 Seconds

BODY

Longitudinal 'V' type floor with integral transverse box-section stiffeners. The body is exhaust heated and rests on resilient impact absorption pads.

Body wear surfaces are high hardness abrasion resistant steel of yield strength FOPS Protection ISO 3449.

Thickness:	Floor	19 mm (0.75 in)
	Side	10 mm (0.39 in)
	Front, lower	10 mm (0.39 in)
Volumes:	Struck (SAE)	41.6 m³ (54.4 yd³)
	Heaped 2:1 (SAE)	57.0 m³ (74.5 yd³)

>> PERFORMANCE DATA

Graphs based on 0% Rolling Resistance.

GRADEABILITY

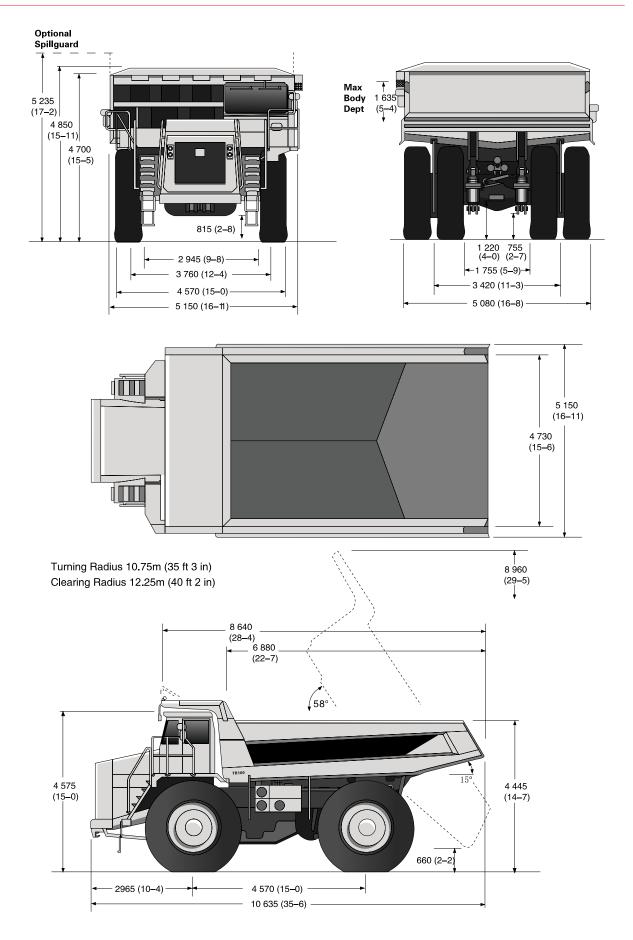
VEHICLE WEIGHT VEHICLE WEIGHT b x 1000 30 lb x 1000 400 lbf x kΝ kgf x 1 000 kg x 1000 kg x 1000 30 40 50 15 20 15 2 ||||||| 40 50 1 000 140 120 600 60 Max. Continuous Ratings Transmission Hydraulic R 500 50 100 25 25 400 40 Disc Brake Betardation Net V Net V 80 20 20 300 30 erade 15 D 60 Grade 15 50 20 12 snuim 10 Di 9 Di TRACTIVE EFFORT (RIMPULL) 200 20 4 2 9 2 8 601 mg plus % RESISTANCE Rolling plus 40 150 TOTAL % RESISTANCE Rolling 15 8 30 6 100 10 20 5 80 ε 15 60 TOTAL 50 10 40 8 30 6 5 20 60 km/h SPEED

RETARDATION

Instructions: From intersection of Vehicle Weight with Percentage Resistance line read across to determine maximum Gear attainable, and then downwards for Vehicle Speed.

AURY TR100

Dimensions in mm (ft-in)



TR100 AURY

>> STANDARD EQUIPMENT

CAB

CAB
Air Conditioner 5.4kW (18 500 BTU/hr)
Acoustic Lining
Door Locks
Floor Mat
FOPS Body Guard
FOPS Protection - ISO 3449
Heater and Defroster 10.3 kW (35 000 BTU/h)
Interior Light/Courtesy Light
Radio
Seat, Operator
Seat, Passenger
Seat Belts SAE J386
Steering Column - adjustable
Sun Visor - full cab width
Tinted Glass
Utility Compartment
Windshield Wipers, 2 speed, and Washers
CONTROLS
Battery Isolator
Automatic Transmission Shift
Transmission Test Button
Power/Economy Key Switch
Manual Mode Key Switch
GAUGES — ELECTRIC
Converter Temperature
Engine Coolant Temperature
Engine Oil Pressure
Fuel
Speedometer/Odometer
Tachometer/Hourmeter
Transmission Oil Pressure

INDICATORS - LIGHT AND ALARM
Brake Pressure, front
Brake Pressure, rear
Steering Pressure
Steering/Brakes oil level
Transmission, "Do not shift"
INDICATOR LIGHTS ONLY
Air Cleaner Restriction
Alternator Not Charging
Body Up
Brake Oil Temperature
Converter Drive
Coolant Level
Coolant Temperature
Direction Indicators
Low Engine Oil Pressure
Indicator Lights
Headlamps, Main Beam
Parking Brake 'On'
Retarder 'On'
Steering Filter Restriction
Transmission 'Check'
Transmission Filter
Restriction
Transmission Manual Mode
Transmission Oil
Temperature
Warning Light Test
GENERAL
Accumulator Steering
Air Cleaners (3), two stage
Body Down Signal
Body Heating, Exhaust
Body Hoist, Servo Actuated

Coolant Filter **Diagnostic Pressure Test Points** Downshift Inhibitor **Dual Brake System** Engine pre-lube starter **Engine Pan Guard** Exhaust Muffler, part time Front Brake Pressure **Reduction Selector** Fuel Sight Gauge Headlights - Quartz Halogen (4) Horn, Dual Electric, 117dB SAE J1105 Mud Flaps Operator Arm Guard **Parking Brake** Rear View Mirrors - 4 Radiator, replaceable tube core Retarder, Transmission or **Oil-cooled Disc Brakes** Retarder Light-amber rear **Reverse Alarm** Reversing Light quartz halogen **Rock Ejectors** Secondary Brake System Security Kit Side, Tail, Stop, Direction Indicators and Hazard Tow Points, front and rear **Transmission Guard** Warning Lights

Cold Start Kit

Specifications subject to change without notice.



>> OPTIONAL EQUIPMENT

Automatic Lubrication System
Body, Enlarged Capacity
Body, Heavy Duty
Body Wear Plates (floor, end, side and front protection)
Canopy, ROPS, frame mounted

Fan Clutch
Fast Fuel Adaptor
Fire Suppression System
Exhaust Mufflex, full time
Fire Extinguisher
On-board Weighing System

Planetary Ratio 10.5: 1
Television Monitor, Rear View
Spill Guard Extension, folding
Traction Bias Differential
Tyres, 27.00R49 Radial

>> WEIGHTS

Kg lb Chassis, with hoists 53 240 117 380 Body, standard 15 380 33 900 Net Weight 68 620 151 280 **Rating Payload** 91 0 0 0 200 617 Permissible gross weight* 160 000 352734 * Maximum permissible gross vehicle weight with options, attachments, full fuel tank and payload. WEIGHT DISTRIBUTION

	Front Axle	Rear Axle
Empty	49%	51%
Loaded	34%	66%

>> SERVICE DATA

SERVICE CAPACITIES	LITRES	(US gal)
Engine Crankcase and Filters	134	(35.4)
Transmission and Filters	100	(26.0)
Cooling System	304	(80.3)
Fuel Tank	1090	(288.0)
Steering Hydraulic Tank	61	(16.1)
Steering Hydraulic System (Total)	72	(19.0)
Hydraulic Tank	297	(78.5)
Body Hydraulic System and Brake Cooling System	557	(147.1)
Planetaries (Total)	57	(15.1)
Differential	61	(15.1)
Front Ride Strut (Each)	27	(7.1)
Rear Ride Strut (Each)	18	(4.8)
Power Take Off	2	(1.1)





Aury NHL Mining Pty Ltd

HEAD OFFICE 108 Mustang Drive Rutherford NSW 2320 Phone: +61 2 4931 9348

MACKAY 6 Progress Drive Paget Mackay QLD 4740

PERTH 27 Purser Loop Bassendean WA 6054

MOÇAMBIQUE Stand 81, EN7, Chithatha, Moatize, Tete

www.aurynhl.com.au



