2-2.5t G SERIES
INTERNAL-COMBUSTION TOW TRACTOR



HELI
LIFTING THE FUTURE

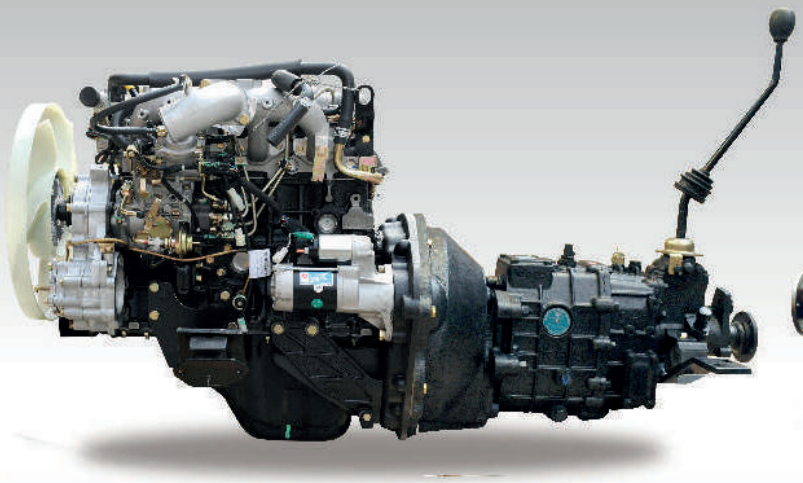
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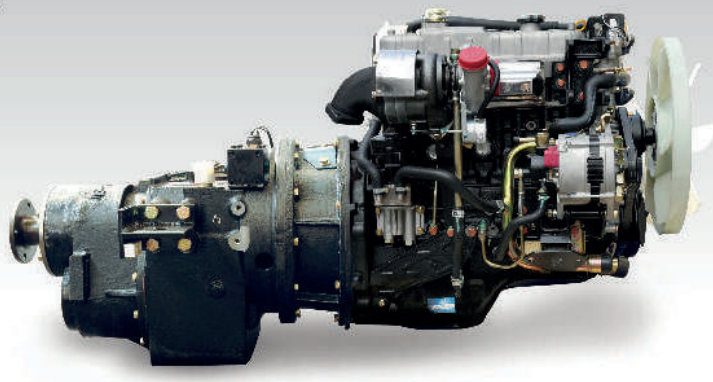


Truck Introduction

HELI G series 2–2.5t internal combustion tractor is the latest generation based on H2000 series. It adopts the technologies meeting tractor characteristics such as intelligent gear shifting, dual circuit brake, powered cut off of brake electric control， integrated gear pump and so on. Excellent power configuration and scientific ergonomics design offer truck high reliability and comfort.

Application: G series 2-2.5t internal combustion tow tractor belongs to regional logistics technology field. It is designed for towing and pushing work in airport, railway, post, warehouse, factory and so on.





Powered Transmission System

Optimized transmission system matches with engine power output perfectly. There are two types of transmission model: mechanical transmission and hydraulic powered transmission. High quality engine is assembled on the truck and the truck meets national latest environment requirement.

- Mechanical transmission box

  Domestic famous brand mechanical transmission box with reasonable transmission ratio, synchronizer among I, II and III gear and good operating performance is adopted.

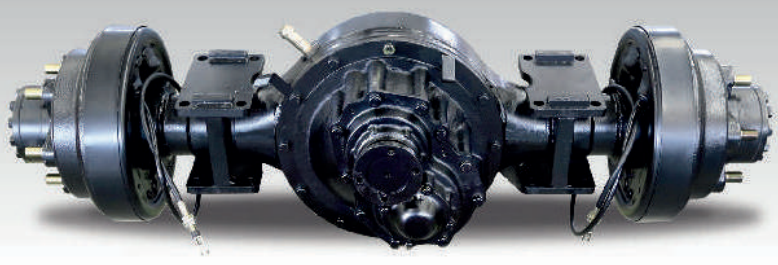
- Hydraulic powered transmission box

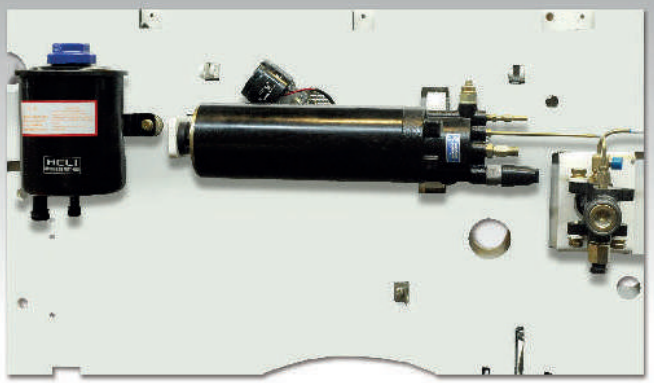
  HELI homemade intelligent automatic gear shifting hydraulic powered transmission box is adopted. The transmission box has reasonable transmission ratio, smooth gear shifting, good comfort, good cooling and sealing performance。 Parts with abroad advanced technology are adopted and the transmission box is among the domestic leading level.

Brake system

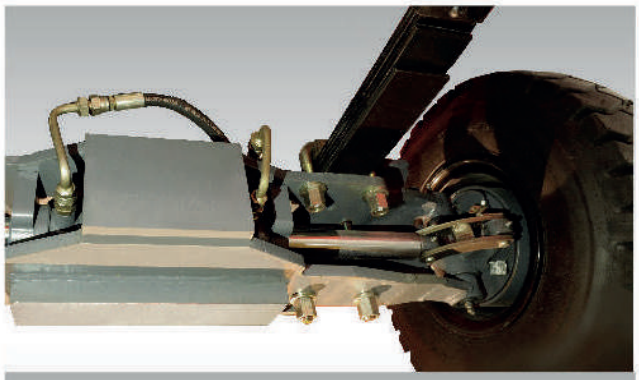
- effective brake during total travel

  Powered brake is achieved through introducing pressured oil from gear pump with engine as power source. Assisted power source is added and pressure maintaining, leakage supplement, shock buffering, pressure pulsation absorbing are achieved through circulation oil and accumulator in pipeline. Thus brake reliability during normal travelling state, effective brake during total travel for several times after the engine is flame out and truck travelling safety when loaded are ensured. Vacuum servo dual circuit four wheel brake can be optional for certain truck model to improve truck reliability and safety.





Steering system



- HELI homemade domestic leading full hydraulic transverse cylinder powered steering has easy and accurate steering and operating feeling. It solves the problems such as steering rigidity insufficient, tyre early worn out and front axle early discarding in domestic similar products.
- Damping devices on front and rear suspension offer truck good stationarity.

Body system



- The appearance is vigorous and powerful. The frame is of welded structure with high strength and the casted counterweight improves truck stability and shock resistance.
- Small truck body length and wheel base improve truck flexibility.
- Large fuel tank ensures single shift oil consumption requirement.
- Min. underground clearance is 150mm meeting civil aviation MH/T6048 Stand and the truck has good trafficability.
- Driver can observe the traction seat directly from seat.
- Adjustable seat with safe armrest and belt is assembled on the truck.
- The fully framed cab has enough strength. What is more, the cab is wide and has good view from where omnibearing observing can be achieved. (Optional)

Double point operating traction pin mechanism with self lock and guide function

- Trailer hook on and off operation can be realized in or out of cab. The operation is easy and efficient. Self lock function effectively avoids trailer hook off caused by mis-operation and jolt during travelling and is safe.







整车选配——空调

2–2.5 t
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Technical Parameters

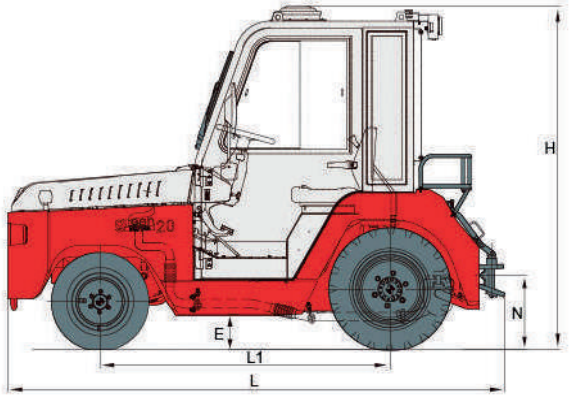
	Model	unit	QYC20 -J1G	QYC25 -J1G	QYCD20 -J1G	QYCD25 -J1G	QYC20 -W1G	QYCD20 -W1G	QYCD25 -W1G
1	Max.drawbar.pull	kN	20	25	20	25	20	20	25
2	Max.Travel speed(without load)	km/h	30	30	28	28	25	24	18
3	Gradeability (without load)	%	30						
4	Min. turning radious (outside)	mm	3250						
5	Min. width of turning lane	mm	2500						
6	The braking distance of driving (withload-load Ⅱ gear)	m	≤5						
7	Total Weight	kg	3150	3650	3200	3700	3110	3160	3660
8	Engine/Model		JX493ZG3				ISUZU GK-4JG2NKFC01		
9	Engine/Bore×stroke	mm	4-93×102				4-95.4×107		
10	Engine/Rated output	kW/rpm	64/3000				36/2450		
11	Engine/Max.torque	Nm/rpm	243/1800				170/1700		
12	Fuel tank capacity	l	65						
13	Overall length	mm	3110				3050		
14	Overall width	mm	1390						
15	Overall height	mm	1370 (without cab, at steering wheel) /2070 (with cab)						
16	Wheel base	mm	1780						
17	Tread/Front	mm	1200						
18	Tread/Rear	mm	1180						
19	Min.ground clearance	mm	150						
20	Coupling center height from the ground	mm	450						
21	Battery (voltage/capacity)	V/Ah	6-QW-80 12V 80Ah						
22	Transmission/Type		Synchronous mechanical		Stepless change speed		Synchronous mechanical	Stepless change speed	
23	Transmission/Gear rated		Forward Ⅲ gear&reverse Ⅰ gear		Forward Ⅱ gear&reverse Ⅰ gear		Forward Ⅲ gear&reverse Ⅰ gear	Forward Ⅱ gear&reverse Ⅰ gear	
24	Service brake		Hydraulic power brake act on the rear tyre						
25	Parking brake		Mechanical brake act on rear tyre						
26	Front tyre type		6.50-10-10PR						
27	Rear tyre type		7.00-15-12PR						

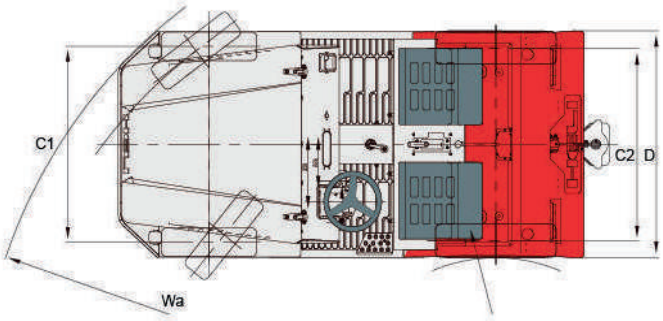
Standard

Powered two wheel brake	Pneumatic tyre	LED light	spare parts box with truck
dual sealing drive axle	dry powder extinguisher	digital instrument	speedometer (hydraulic truck)
rearview	full hydraulic transverse cylinder powered steering	intelligent gear shifting (hydraulic truck)	double seat
front axle damping	electrohydraulic direction changing (hydraulic truck)	red+white paint	front and rear axle spring suspension
First auto work mechanical transmission box (mechanical truck)/ heli transmission box (hydraulic truck)	power switch	front high beam	

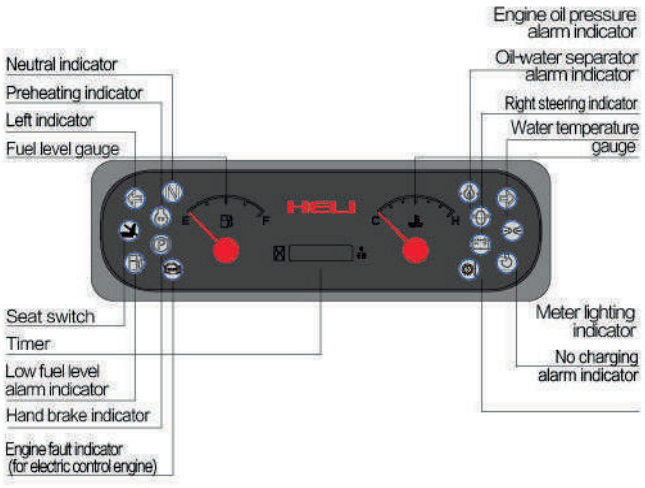
Optional

Powered four wheel brake/vacuum servo dual circuit four wheel brake (assembled on JX493G3 engine)	Grammer seat (mechanical truck)	Warning light
Air conditioner	Speedometer	Anti-collision block
Front traction seat	Backward loud speaker	Solid tyre
Okamura transmission box (assembled with hydraulic powered truck with 4JG2 engine)	Luggage fence	Dual-layer traction seat/multi-layer traction seat
Warm air blower	Fully enclosed cab (with fan, inner accessories, 2kg fire extinguisher)	Customer made painting





RELIABLE PROFESSIONAL INSTRUMENT



CIVIL AVIATION LICENSE WON BY 2–2.5T INTERNAL COMBUSTION TRACTOR

HELI

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