

SOLID TO SUCCEED



Dozer

D170



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D170(China stage II) is a hydrodynamic transmission, electronically controlled shift dozer developed by XCMG for the overseas market. It features high reliability and reliable performance. It is mainly applicable to the excavation, backfilling, pushing and transporting of earth and rocks on the ground of highways, railroads, airports, etc. It is an indispensable construction machine for national defense projects, urban construction and water conservancy construction. This equipment incorporates advanced technologies such as intelligent control, limit load, hydraulic pilot control of blade, electronically controlled shift, construction data management, etc. It is a construction equipment with advanced technology, high efficiency, convenient and flexible operation and high reliability.



Main technical performance and characteristics

1 Comfort and simple operation:

1. 7" touch LCD colour monitor, Chinese/English/Russian switching display HMI, the main page of the monitor real-time display of engine parameters, travel status, gear information, fault alarms and other machine parameters;
2. The main and secondary pages can be switched conveniently with a hand touch, and the status of the controller & troubleshooting can be queried on the secondary page;
3. Check the number of working hours, average fuel consumption, maintenance, fault status and other information.
4. Two-handle manoeuvring: The work unit manoeuvring is pilot operated, with two handles arranged to control the push shovel and the looseners respectively (optional); Travelling system single handle electric control manipulation, forward and reverse warping switch control, dial wheel shift, with the left hand manipulation;
5. Manoeuvring mechanism: One hand throttle, one deceleration foot accelerator pedal, one electronic brake pedal.

2 Powerful performance:

Equipped with Weichai WD10G178E25 engine, it meets the N-II emission requirements for non-road machinery, with functions of strong power, high efficiency and energy saving, and easy to maintain. The construction efficiency of the machine is greatly improved, and the comprehensive fuel consumption is lower, in order to save the cost for users.

3 Efficient transmission system:

1. Torque converter with sensors: Effective monitoring of speed and torque in real time.
2. Electronically controlled variable speed shift box: Powershift transmission with quick and simple shifting, easy to manoeuvre, easy to adjust speeds, and gear settings of three-input three-output.
3. Hydraulic steering clutch: Wet type, multi-disc spring compression, hydraulic disengagement, fast combination without stalling.
4. Hydraulic steering brake: Wet type, floating belt & hydraulically controlled.
5. Central and final drives: spiral bevel gears, secondary spur gear reduction, splash lubrication.

4 Comfortable driving environment:

1. Spacious cab, large space and wide view, standard anti-roll cab with high safety; new fully sealed cab, equipped with cold and warm A/C, which makes driving comfortable.
2. Two-handle makes operation easy, comfortable and precise, no fatigue even after long hours of operation;
3. Equipped with armrest box touch display, it can provide the working status of the machine in real time, which is a good assistant for the mechanic and provides a comfortable driving experience.
4. Suspension seat: A single centre-mounted seat with integral foam, adjustable seat height, fore and aft and backrest angle, and seat belts for comfortable manoeuvring.

5 Reliable working capacity:

1. Stable and reliable chassis system, which is adaptable to various bad working conditions;
2. Extra long track grounding length and optimized track grip for high travel drive capability, with good passing performance.
3. Various configurations of shovel blades, three-tooth looseners and towing frames, with high strength, highly wear-resistant shovel blade design ensures reliable construction of the machine.

6 Convenient maintenance performance:

The machine mechanism adopts mature design and process concepts of XCMG to ensure product quality; All filters are easy to replace and easy to maintain; The hood side door opens wide for easy and comfortable access; the number of mechanical connecting rods has been reduced, reducing the number of lubrication points, and all lubrication points are easily accessible for easier maintenance.



Comfortable operation

1 Ultra wide field of view and spacious interior

- Ultra broad vision, improving work accuracy and reducing difficulty. Spacious and luxurious driving space, without any sense of oppression or restraint.

3 Suspension seat, higher comfort

- The offset 15 ° suspension operator's seat can be adjusted in multiple dimensions to meet the various needs of users.

2 Open access channels

- Super wide door opening size, super large door opening angle, open entry and exit channels, convenient and comfortable for getting on and off.



Comfortable operation

4 More convenient human-computer interaction

- Large size touch LCD color display, self diagnosis of faults, providing convenient human-machine interaction.

6 Integrated electronic control handle control

- Walking gear shifting and steering control, integrated into a single electronic control handle, thumb wheel shift, simple and flexible operation, lightweight and comfortable.

5 Electrically adjustable armrest box

- The electrically adjustable armrest box allows for easy adjustment of the height and front and rear positions of the armrest boxes on both sides, providing the most comfortable control layout for operators of different body types.



Comfortable operation

7 Standard cold and warm air conditioning

- Standard equipped with cold and warm air conditioning, with a 360 ° air outlet layout, regardless of extreme cold or hot weather, it feels like spring all year round.

9 Intelligent and concise control

- One click start stop, electronic accelerator pedal control, integrated brake redundancy technology, reduces the throttle while reducing the overall vehicle speed, and reduces driver actions.

8 Fully sealed cab, lower noise

- Fully sealed cab, multiple shock absorption and noise reduction technologies, low ear noise, providing a quieter operating environment for operators.



Comfortable operation

11 ROPS/FOPS Standard integrated ROPS/FOPS

- Equipped with an integrated ROPS /FOPS as standard, safe and reliable.

12 Humanized configuration

- Multiple configurations such as cigarette lighter, USB charging port, radio, phone case, sunshade, heating and cooling box, foldable ladder, etc. provide a more personalized driving experience.



High-performance Power

1 Powerful, economical and environmentally friendly

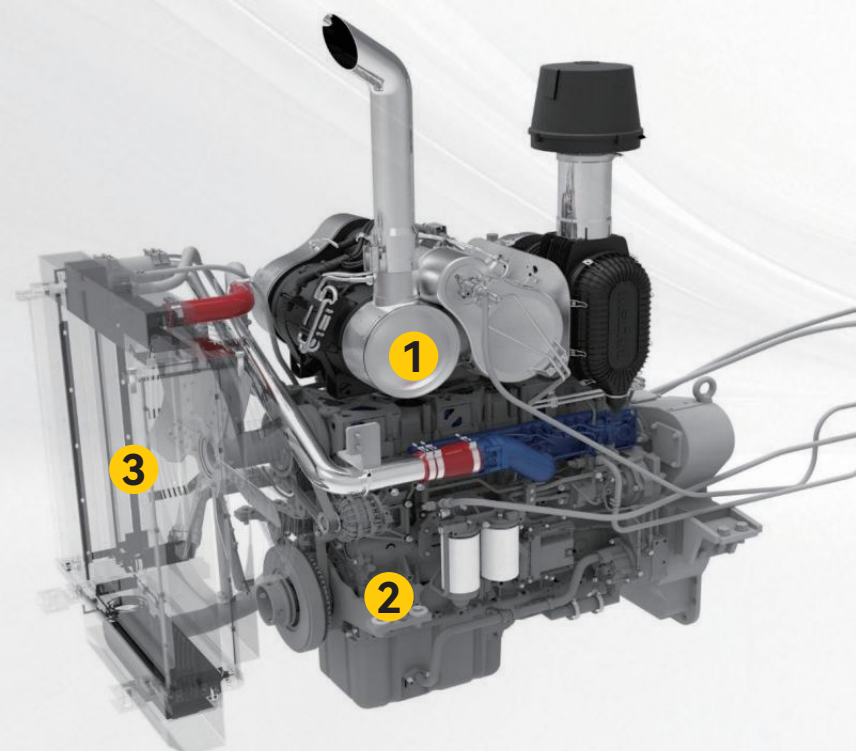
- Large power reserve and automatic load control technology ensure efficient operational performance under different working conditions.

3 Thermal management system

- The thermal pipe system passed the environmental test with a closed temperature range of up to 45°C. It can maintain high-intensity operations for at least 5 hours.

2 Strong overload capacity

- The engine has a large torque reserve coefficient of over 40%, which can adapt to various complex construction conditions.



Efficient transmission

1 Three-element hydraulic torque converter

- Simple structure, high reliability and high efficiency.

3 Brake

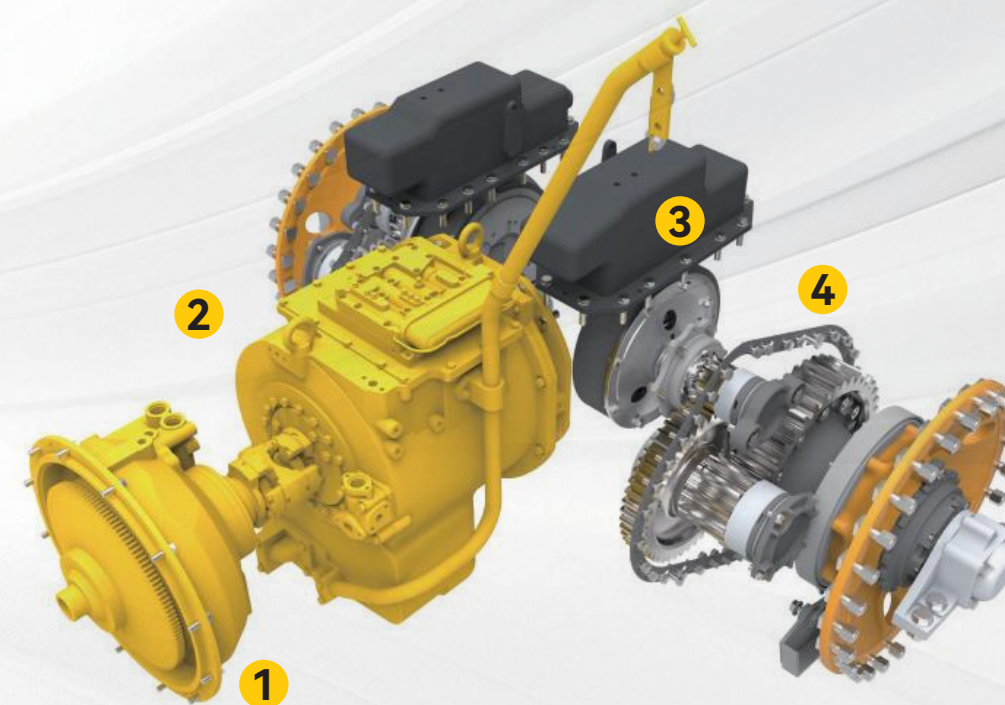
- Electrically controlled, wet, floating, belt brake.

2 Electronically controlled transmission

- Simple structure, high reliability and high efficiency.

4 Steering clutch

- Electrically controlled, normally engaged, wet, multi-disc steering clutch.



Reliable and durable chassis system

1 Four wheels and one track

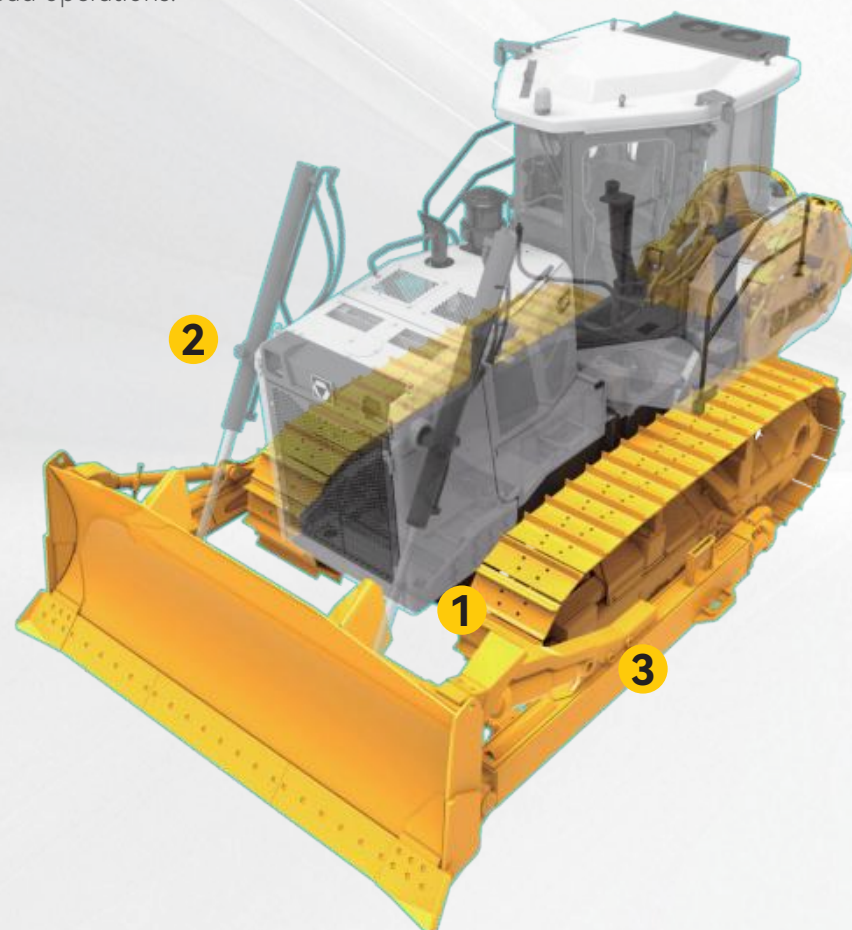
- XCMG's self-produced stable and reliable chassis system, as well as a proven transmission system, are fearless of extreme harsh working conditions.

2 Track links

- The Track link adopts hot die forging and tempering treatment, with excellent comprehensive mechanical properties and surface wear resistance of the substrate. The pin sleeve is subjected to cold extrusion and carburizing quenching treatment to ensure high wear resistance and impact resistance.

3 Support wheel and drive gear block

- The supporting wheels and driving teeth are fully hardened, with extremely high strength and wear resistance, suitable for continuous high load operations.



Powerful walking and working equipment

1 Superb grip ability

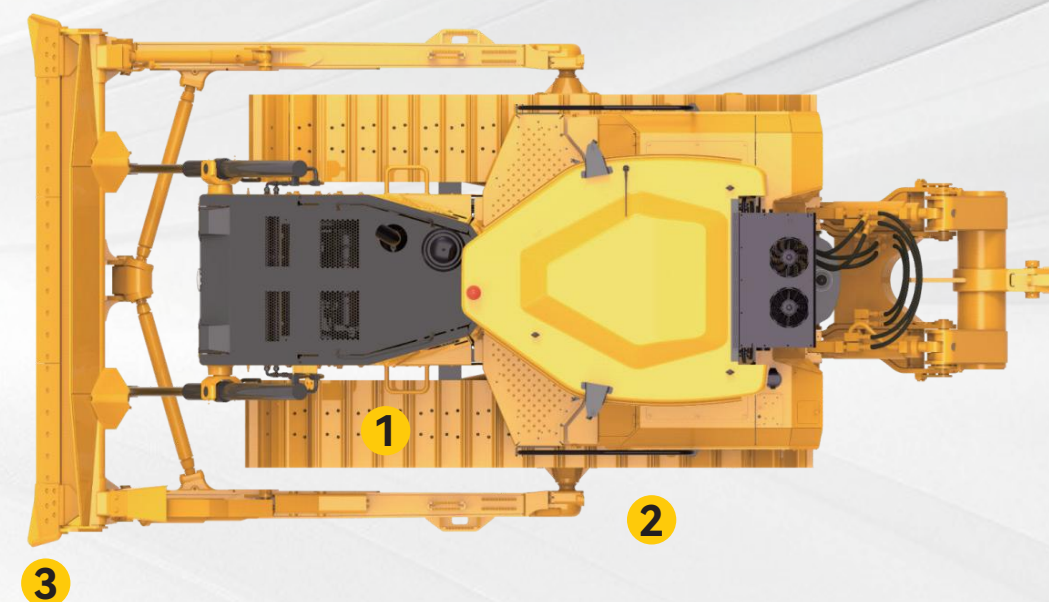
- Super long track grounding length and optimized track gripping ability, strong walking driving ability, and good passing performance.

2 Oil chain

- By using heavy-duty gear oil and high-precision end face sealing, and undergoing positive pressure airtightness testing, the service life can reach more than twice that of ordinary sealed tracks.

3 Shovel blade

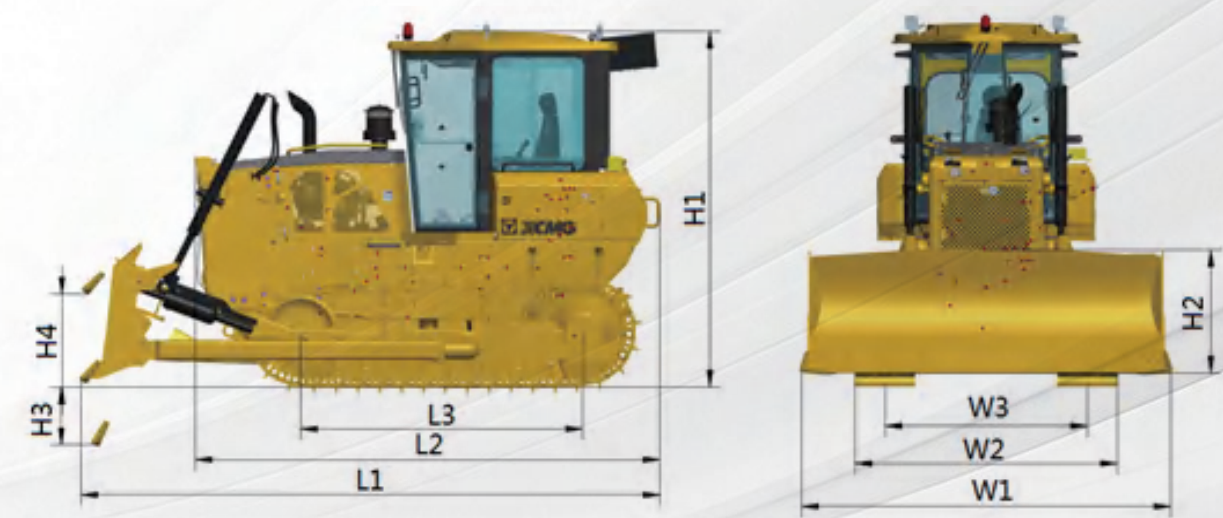
- Multiple blade configurations, optimized curved plate shape, increased soil cutting and material transportation by 9%, using high-strength plates and durable and wear-resistant NM400 materials.



Technical parameter table

Machine Performance		D170	D170LGP
Machine Performance			
Weight(Working device)	kg	17400	19400
Minimum turning radius	mm	2800	3200
Ground pressure	kPa	55/50/46	30/26
Overall Dimensions	mm	5580×3455×3300	5670×4150×3380
Engine			
Model	/	WD10G178E25	WD10G178E25
Rated power/Rated speed	(kW/rpm)	131/1850	131/1850
Driving performance			
Forward gear 1	km/h	3.6	3.6
Forward gear 2	km/h	6.3	6.3
Forward gear 3	km/h	10.2	10.2
Reverse gear 1	km/h	4.7	4.7
Reverse gear 2	km/h	8.2	8.2
Reverse gear 3	km/h	13.0	13.0
Ground clearance	mm	450	450
Chassis system			
Track gauge	mm	1880	2300
Crawler width	mm	510/560/610	950/1100
Ground contact length of crawler	mm	2635	2940
Number of track shoes (one side)	Section	39	42
Chain pitch	mm	203	203
Number of carrier rollers(one side)	pcs	2	2
Number of track rollers(one side)	pcs	7	7
Tank capacities			
Fuel tank	L	350	350
Hydraulic oil tank	L	110	110
Working device			
Blade type	/	Straight blade	Straight blade
Blade width	mm	3455	4150
Blade height	mm	1149	960
Blade capacity	m³	3.5	3.0
Blade lifting height above the ground	mm	1095	1150
Depth of Cut	mm	540	485
Ripper type	/	Three shanks(optional)	Three shanks (optional)
Working depth	mm	572	572
Ripper lifting height above the ground	mm	592	592

Appearance And Dimensions



Model	L1	L2	L3	H1	H2	H3	H4	W1	W2	W3
D170	5580	4390	2635	3300	1149	540	1095	3455	2390/2440/2490	1880

Model	L1	L2	L3	H1	H2	H3	H4	W1	W2	W3
D170LGP	5670	4390	2940	3380	960	485	1150	4150	3250/3400	2300