

TENHUN



TH713H I TH717H
TH719H I TH722H

TH TENHUN
MECHANICAL EQUIPMENT

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Model	Engine		Transmission	Moldboard	Operating Weight
TH713H	Cummins 6BT5.9	97kW (130 hp)	Power shift (ZF Technology), 6 Fwd / 3 Rev Gears	3,658 mm	12.0 ton
TH717H	Cummins 6BTA5.9	132kW (178 hp)		3,658 mm	14.5 ton
TH719H	Cummins 6CTA8.3	142kW (190 hp)		4,268 mm	15.6 ton
TH722H	Cummins 6CTA8.3	160kW (215 hp)	Power shift (ZF6WG200), 6 Fwd / 3 Rev Gears	4,320 mm	15.8 ton
	SC11CB220G2B1	162kW (220 hp)		4,320 mm	16.1 ton

* Photo may include optional equipment.

THE BEST PRODUCTIVITY AND FUEL EFFICIENCY

Good cooling effect

The large protective cover space greatly improves the cooling effect.

New industrial design

New industrial modeling design, overall color and process improvement.

Safety instructions

Tail tricolor lamp high, more secure eye-catching.

Adjustable counterweight

The front and rear counterweights are changed to welding type, which brings convenience to the weight adjustment of the whole machine.



EXCELLENT VISIBILITY

Excellent visibility and layout side pillar boosts operator's confidence and productivity in all grader applications. Well-positioned blade linkage provides an unobstructed view of the moldboard and front tires.



ADJUSTABLE CONTROL CONSOLE

The control console moves back and forth and the operator easily gets in and out of the operator compartment. The steering wheel also tilts to suit the operator's preference.



LED LIGHT

Bright and long-lasting LED lights are applied to Cabin (Front/Rear) and attachment.



AIR CONDITIONER

Increase air flow rate by refurbishing the shape of air outlets.



EASY CONTROL AND OPERATOR'S SAFETY



Key hydraulic Components

The front wheel tilt and power tilt One-Way Valve are upgraded to ETON brand



Safe and reliable braking

Braking system adopts independent hydraulic power source, high braking safety, with flameout braking function.



Convenient maintenance

The hydraulic tank is equipped with an integrated external oil suction filter, with high oil cleanliness and oil break lock function for easy maintenance



**THE QUALITY LIES
IN THE DETAILS**

WORK TOOL AND ATTACHMENTS-OPTION

Front Dozer

The front Dozer is a front mounted equipment used for spreading materials such as gravel piles or blading at the front of the machine where it is difficult to access with the moldboard.



Ripper-Rear Scarifier- Mid mount

Digs up hard material cannot be removed by the moldboard. The V-type scarifier can accommodate up to 11 teeth, the ripper also accommodate 3 or 5 shanks.



SPECIFICATION

ENGINE					
	TH713H	TH717H	TH719H	TH722H	
Model	6BT5.9-C130	6BTA5.9-C180	6CTA8.3-C190	6CTA8.3-C215	SC11CB220G2B1
Type	Vertical, in-line, water-cooled, 4 strokes				
Aspiration	turbocharged aftercooling				
No. of cylinders	6	6	6	6	
Bore	102 mm	102 mm	114 mm	121 mm	
Stroke	120 mm	120 mm	135 mm	152 mm	
Piston displacement	5.9 L	5.9 L	8.3 L	10.45 L	
Horsepower - Gross	97kW/2,200rpm	132kW/2,200rpm	142kW/2,200rpm	160kW/2,200rpm	162kW/2200rpm
Maximum torque	560Nm/1,500rpm	750Nm/1,300rpm	860Nm/1,400rpm	908Nm/1,500rpm	844Nm@1400rpm
Torque rise	32%	30%	39%	31%	
Air cleaner	Dry type	Dry type	Dry type	Dry type	
Electrical	28V, 70A	28V,55A	28V, 70A	28V, 70A	
Battery	12V*2; 900cca	12V*2; 900cca	12V*2; 900cca	12V*2; 900cca	

TRANSMISSION AND TORQUE CONVERTER					
	TH713H	TH717H	TH719H	TH722H	
Speed (at rated engine speed)	Forward / Reverse (km/h)				
1st	6.9/6.9	6.5/6.5	6.5/6.5	6.9/6.9	6.9/6.9
2nd	10.7/17.3	11.4/14.6	11.4/14.6	11.9/15.7	11.9/15.5
3rd	17.3/37.8	14.6/30	14.6/30	15.7/33.5	15.5/32.6
4th	26	24.8	24.8	26.7	26.2
5th	37.8	30	30	33.5	32.6
6th	53.4	49.2	49.2	52.7	50.9

TANDEM DRIVE					
	TH713H	TH717H	TH719H	TH722H	
Oscillating welded box section	614*225 mm	614*225 mm	614*225 mm	614*225 mm	
Side wall thickness	Inner	22 mm	22 mm	22 mm	22 mm
	Outer	22 mm	22 mm	22 mm	22 mm
Whell axle spacing	1,535.4 mm	1,535.4 mm	1,535.4 mm	1,535.4 mm	
Tandem oscillation	±13 °	±13 °	±13 °	±13 °	

FRONT AXLE				
	TH713H	TH717H	TH719H	TH722H
Type	Solid bar construction welded steel sections			
Ground clearance at pivot	610 mm	610 mm	610 mm	610 mm
Wheel lean angle, right or left	±17 °	±17 °	±17 °	±17 °
Oscillation, total	32 °	32 °	32 °	32 °

REAR AXLE				
	TH713H	TH717H	TH719H	TH722H
Alloy steel, heat treated, full floating axle with lock/unlock differential	NO-SPIN differential			

STEERING					
	TH713H	TH717H	TH719H	TH722H	
Hydraulic power steering providing stopped engine steering meeting ISO 5010	Hydraulic power steering				
Minimum turning radius	6.6 m	7.3 m	7.3 m	7.3 m	7.4 m
Maximum steering range, right or left	49 °	49 °	49 °	49 °	
Articulation	±26 °	±26 °	±26 °	±26 °	

BRAKES				
	TH713H	TH717H	TH719H	TH722H
Service brake	Foot operated, hydraulically actuated on four tandem wheels, 3,671m² total braking surface	Foot operated, hydraulically actuated on four tandem wheels, 3,613m² total braking surface		
Parking brake	Flexible shaft control, drum brake			

FRAME				
	TH713H	TH717H	TH719H	TH722H
Height	299 mm	302 mm	302 mm	302 mm
Width	280 mm	280 mm	280 mm	280 mm
Side	16 mm	16 mm	16 mm	22 mm
Upper, Lower	16 mm	25 mm	25 mm	25 mm

DRAWBAR				
	TH713H	TH717H	TH719H	TH722H
	A-shaped, u-section press formed and welded construction for maximum strength with a replacable drawbar ball			
Drawbar frame	200*12 mm	210*16 mm	210*16 mm	210*16 mm

CIRCLE				
	TH713H	TH717H	TH719H	TH722H
	Four circle support shoes with replaceable wear surface. Circle teeth hardened on front 180°of circle			
Diameter (outside)	1,300 mm	1,410 mm	1,410 mm	1,410 mm
Circle reversing control hydraulic rotation	360 °	360 °	360 °	360 °

MOLDBOARD				
	TH713H	TH717H	TH719H	TH722H
	Replaceable metal wear inserts, cutting edge and bits. Cutting edge and end bits are hardened.			
Dimensions	3,658*580*18 mm	3,658*580*18 mm	4,268*580*18 mm	4,320*580*22 mm
Arc radius	329 mm	329 mm	329 mm	329 mm
Cutting edge	152*16 mm	152*16 mm	152*16 mm	152*16 mm

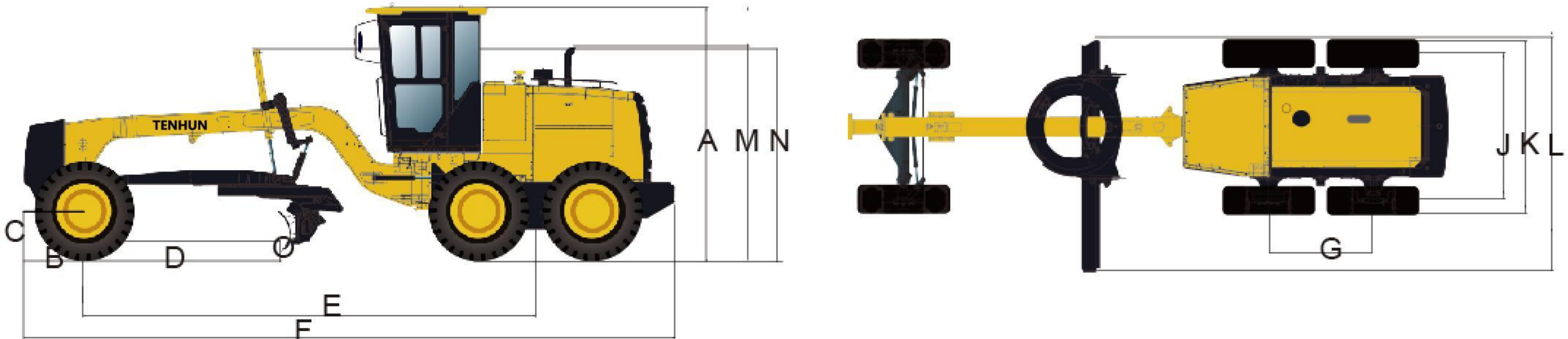
BLADE RANGE					
		TH713H	TH717H	TH719H	TH722H
Circle center shift	Right	525 mm	525 mm	525 mm	525 mm
	Left	530 mm	530 mm	530 mm	530 mm
Moldboard side shift	Right	815 mm	815 mm	965 mm	965 mm
	Left	840 mm	840 mm	965 mm	965 mm
Maximum shoulder reach outside rear tire (frame straight)	Right	1,886 mm	1,886 mm	2,341 mm	2,367 mm
	Left	1,916 mm	1,916 mm	2,346 mm	2,372 mm
Maximum lift above ground		410 mm	450 mm	450 mm	450 mm
Maximum cutting depth		560 mm	535 mm	535 mm	535 mm
Maximum blade angle, right or left		90 °	90 °	90 °	90 °
Blade tip angle		29-77 °	29-77 °	29-77 °	29-77 °

HYDRAULICS				
	TH713H	TH717H	TH719H	TH722H
	Hydraulic system of double pump and double multi way valve. Priority braking and steering. There are hydraulic locks on the scraper lifting, front wheel tilting, traction frame tilting, power tilting, frame articulation and other oil circuits			
Output (at engine rated prm)	140.8 L/min	99 L/min	99 L/min	99 L/min
Maximum system pressure	17.5 MPa	17.5 MPa	17.5 MPa	17.5 MPa

SPECIFICATION

INSTRUMENT						
		TH713H	TH717H	TH719H	TH722H	
Gauge	Standard	Engine coolant temperature, fuel level, torque converter oil temperature				
Warning lights / indicator	Standard	Battery charge,directional indicator, engine oil pressure, parking brake				
CAPACITIES (REFILLING)						
		TH713H	TH717H	TH719H	TH722H	
Fuel tank		370 L	370 L	370 L	370 L	
Cooling system		24 L	29 L	36.5 L	36.5 L	
Crank case		17 L	17 L	27 L	27 L	
Transmission		28 L	28 L	28 L	28 L	
Final drive		18 L	18 L	18 L	18 L	
Tandem housing (each)		45*2 L	45*2 L	45*2 L	45*2 L	
Hydraulic system		65 L	65 L	65 L	65 L	
Circle reverse housing		4 L	4 L	4 L	4 L	
OPERATING WEIGHTHT (APPROXIMATE)						
		TH713H	TH717H	TH719H	TH722H	
Includes lubricants, coolant, full fuel tank	Total	12,000 kg	14,500 kg	15,600 kg	15,800 kg	16,100 kg
	On rear wheels	8,400 kg	10,150 kg	10,920 kg	11,060 kg	11,270 kg
	On front wheels	3,600 kg	4,350 kg	4,680 kg	4,740 kg	4,830 kg
With front mounted scarifier	Total	12,650 kg	15,150 kg	16,250 kg	16,450 kg	16,750 kg
	On rear wheels	8,400 kg	10,150 kg	10,920 kg	11,060 kg	11,060 kg
	On front wheels	4,250 kg	5,000 kg	5,330 kg	5,390 kg	5,690 kg
With rear mounted ripper and front push plate	Total	13,000 kg	15,150 kg	15,600 kg	15,800 kg	16,100 kg
	On rear wheels	9,400 kg	10,800 kg	10,920 kg	11,060 kg	11,270 kg
	On front wheels	3,600 kg	4,350 kg	4,680 kg	4,740 kg	4,830 kg
SCARIFIER (OPTIONAL)						
		TH713H	TH717H	TH719H	TH722H	
Middle, V-type	Working width	1,325 mm	1,325 mm	1,325 mm	1,325 mm	
	Scarifying depth, maximum	210 mm	210 mm	210 mm	210 mm	
	Scarifier shank holders	11	11	11	11	
	Scarifier shank holders spacing	130 mm	130 mm	130 mm	130 mm	
Rear	Working width		2,161 mm	2,161 mm	2,161 mm	
	Scarifying depth, maximum		249 mm	249 mm	249 mm	
	Scarifier shank holders		9	9	9	
	Scarifier shank holders spacing		267 mm	267 mm	267 mm	
RIPPER (OPTIONAL)						
		TH713H	TH717H	TH719H	TH722H	
Ripping depth, maximum		350 mm	436 mm	436 mm	436 mm	
Ripper shank holders		3-teeth (standard) 5-teeth (optional)	3-teeth (standard) 5-teeth (optional)	3-teeth (standard) 5-teeth (optional)	3-teeth (standard) 5-teeth (optional)	
Ripper shank holder spacing		455 mm	534 mm	534 mm	534 mm	
Machine length increase, beam raised		1,000 mm	1,000 mm	1,000 mm	1,000 mm	

DIMENSIONS



Item	Description	TH713H	TH717H	TH719H	TH722H
A	Height to Top of Non-ROPS Cabin	3,448 mm	3,406 mm	3,420 mm	3,420 mm
	Height to Top of ROPS Frame	3,632 mm	3,590 mm	3,604 mm	3,604 mm
B	Center of Front Axle to counterweight	675 mm	833 mm	963 mm	963 mm
C	Ground Clearance to Center Front Axle	869 mm	725 mm	714 mm	714 mm
D	Length of Front Axle to Moldboard	2,470 mm	2,600 mm	2,600 mm	2,600 mm
E	Length of Front Axle to Mid Tandem	5,780 mm	6,100 mm	6,100 mm	6,100 mm
F	Length of Front to Rear of Machine	8,290 mm	8,820 mm	8,950 mm	8950/9250 mm
G	Length of Between Tandem Axles	1,535 mm	1,535 mm	1,535 mm	1,535 mm
J	Width of Tire Center Lines	2,120 mm	2,120 mm	2,120 mm	2,120 mm
K	Width of Outside Tires	2,565 mm	2,565 mm	2,565 mm	2,565 mm
L	Width of Moldboard	3,658 mm	3,658 mm	4,268 mm	4,320 mm
M	Height to Exhaust Stack	2,582 mm	2,863 mm	2,846 mm	2,747 mm
N	Height to Top of Cylinders	2,793 mm	2,833 mm	2,908 mm	2,908 mm
O	Ground Clearance to Trans. Case	339 mm	339 mm	339 mm	339 mm