AFFORDABLE AND OPTIMIZED SOLUTION FOR HIGHER PROFITS.

ROADMASTER

G9075 DIV

MADE FOR INDIA

With iMAXX Telematic Remote Care

ABOUT THE BRAND

Mahindra Construction Equipment is a part of The Mahindra Group - U.S. $ 19.4 Billion global federation of companies. Standing tall and proud at 2 56 000 employees in over 100 countries across the globe.

With “Rise” as its governing spirit and backed by decades of manufacturing top-notch agriculture equipment and utility vehicles, The Mahindra Group has now boldly ventured into the construction equipment industry with products that implement breakthrough technology.

This journey began with the launch of our manufacturing unit in Chakan, Pune. Operating in a large area of 10 000 m^2, we use the latest State-Of-The-Art technology and fully automatic robotic welding units to create superior products with an impeccable finish.

Every single product goes through stringent and thorough quality checks with implementation of advanced NOVA-C before being rolled out.

AWARDS & RECOGNITION

‘Best Design - Transformational Value Construction Equipment’ at Yellow Dot Awards 2019.

‘Best Value Construction Equipment’, ‘Innovative Product of the Year’, at CIA World Awards 2020.

‘Brand of the Year - Motor Grader’ at the coveted Golden Globe Tigers 2018, Malaysia.

‘Innovative Product of the Year 2017’ at the prestigious Construction Times Award 2017

‘Best Design Eco-friendly Construction Equipment’ at Yellow Dot Awards 2017

‘Innovative Product in Road Construction’ at the coveted EPC World Awards 2017

THE MACHINE OF THE NATION

Developed to further develop India.

In a developing country like India, 75% of roads are either expansion projects or rural, semi-rural and district roads, land development, internal housing and commercial roads where productivity is duly optimized. With a year-long, in-depth study of Indian roads and its infrastructure, 20 000+ days of product development, and 6000+ hours of extensive testing in various locations across the country, Mahindra's motor graders are the most optimized machines to help build a developing India.

850+ customers,

Road contractors, and other ecosystem entities involved across 13 states.

Designed by a 5000+ strong Mahindra R&D unit.

Manufactured at Mahindra's world-class Chakan Plant.

Robotic welding technology used for key structural components.

G9075 DIV

THE PROBLEM: UNDERUTILIZATION.

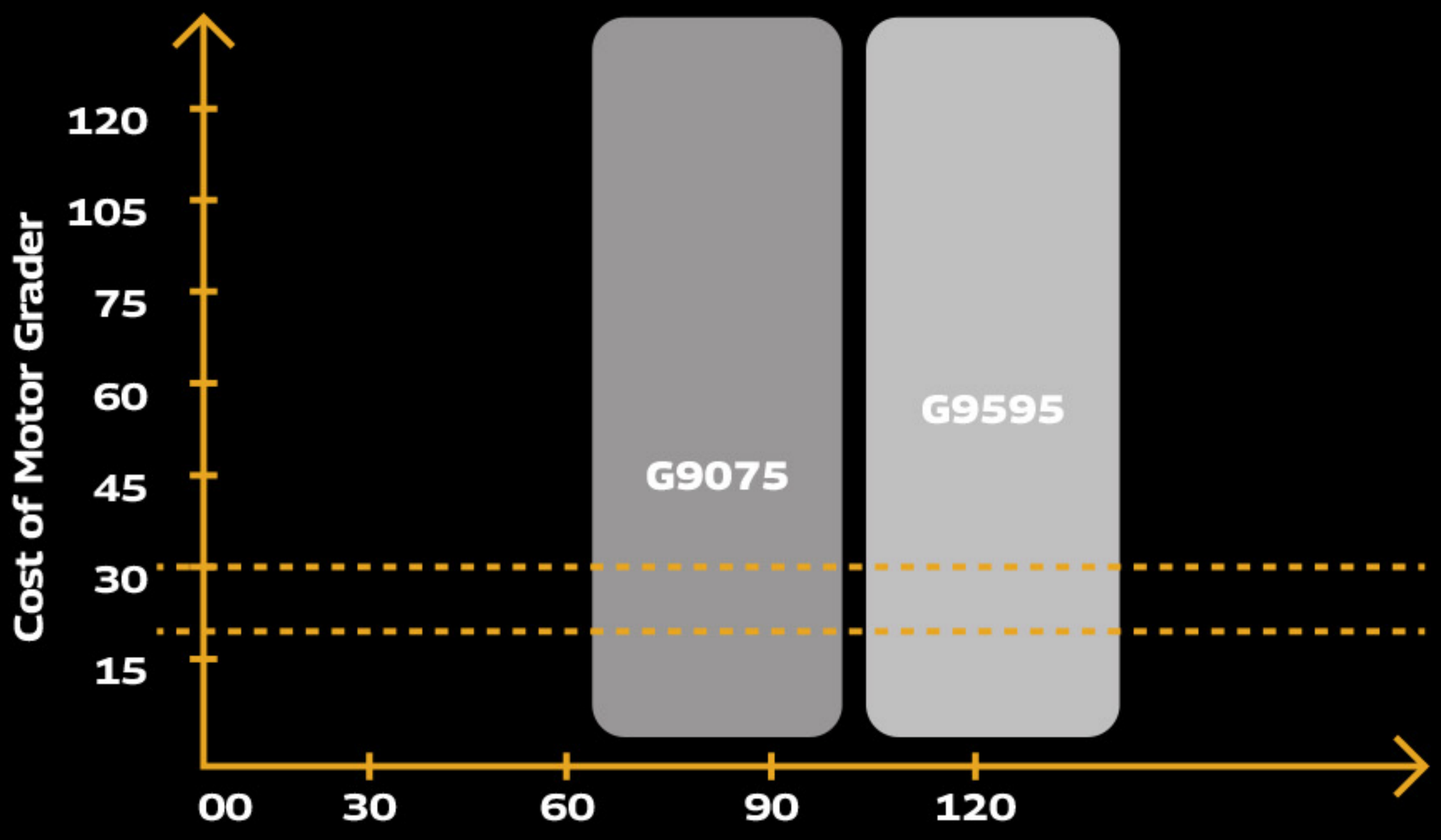
Underutilization of Motor Graders

Equipment	Avg. Daily Working (h/day)
Backhoe Loader	8 - 10 h
Excavator	8 - 12 h
Motor Graders	4 - 6 h

Most motor graders in developing countries are used 4-6 hours per day. There is a prominent underutilization because:

The motor graders are not purpose-designed specifically for these markets.

The supporting conditions like material availability on-site are also not optimal.



INCREASED PRODUCTIVITY AND OPTIMUM UTILIZATION

Best-in-class fuel efficiency in the segment, just like our **BS IV** Backhoe Loader category.

Lowest per-hour scheduled maintenance cost. Lowest owning & operating cost in the industry.

G75 Smart, is used for rural roads, PMGSY projects, district roads, land development, internal housing and commercial roads.

Around **3 Tipper** material in **1 hour**

BRAND-NEW BS IV ENGINE. DRIVING YOUR PROFITS HIGHER.

MAHINDRA'S PROVEN ENGINE NOW OFFERS BEST-IN-CLASS FUEL EFFICIENCY FOR BETTER SAVINGS.

Mahindra has taken its learnings from tractor engines to bring its fuel consumption down to an incredible **7-8* l/h**, impacting the overall savings of our customers positively. The **55 kW (74 HP) 3.5 litre, 4 cylinder** CRDI engine offers **345 Nm torque** for high-level grading performance. The proven Mahindra engine offers assured reliability. This is a low maintenance engine with a widespread availability of parts.

13% better torque compared to BS III

MADE FOR INDIA

CONTROL YOUR BUSINESS FROM YOUR POCKET

The Mahindra RoadMaster G9075 comes with the latest Mahindra IMAX Telematics technology. You can think of it as your personal assistant that updates you with vital information about your vehicle and your business.

Increased Control and Predictive Monitoring

Vehicle Health Monitoring
Battery & alternator health monitoring
Engine temperature monitoring
Active Diagnostic Trouble Codes

Fuel Level Analysis
Fuel Efficiency Analysis

Vehicle Performance Report

Engine hour report
Daily vehicle report
Hub Report
Grader Operation Report

Operator Performance Management

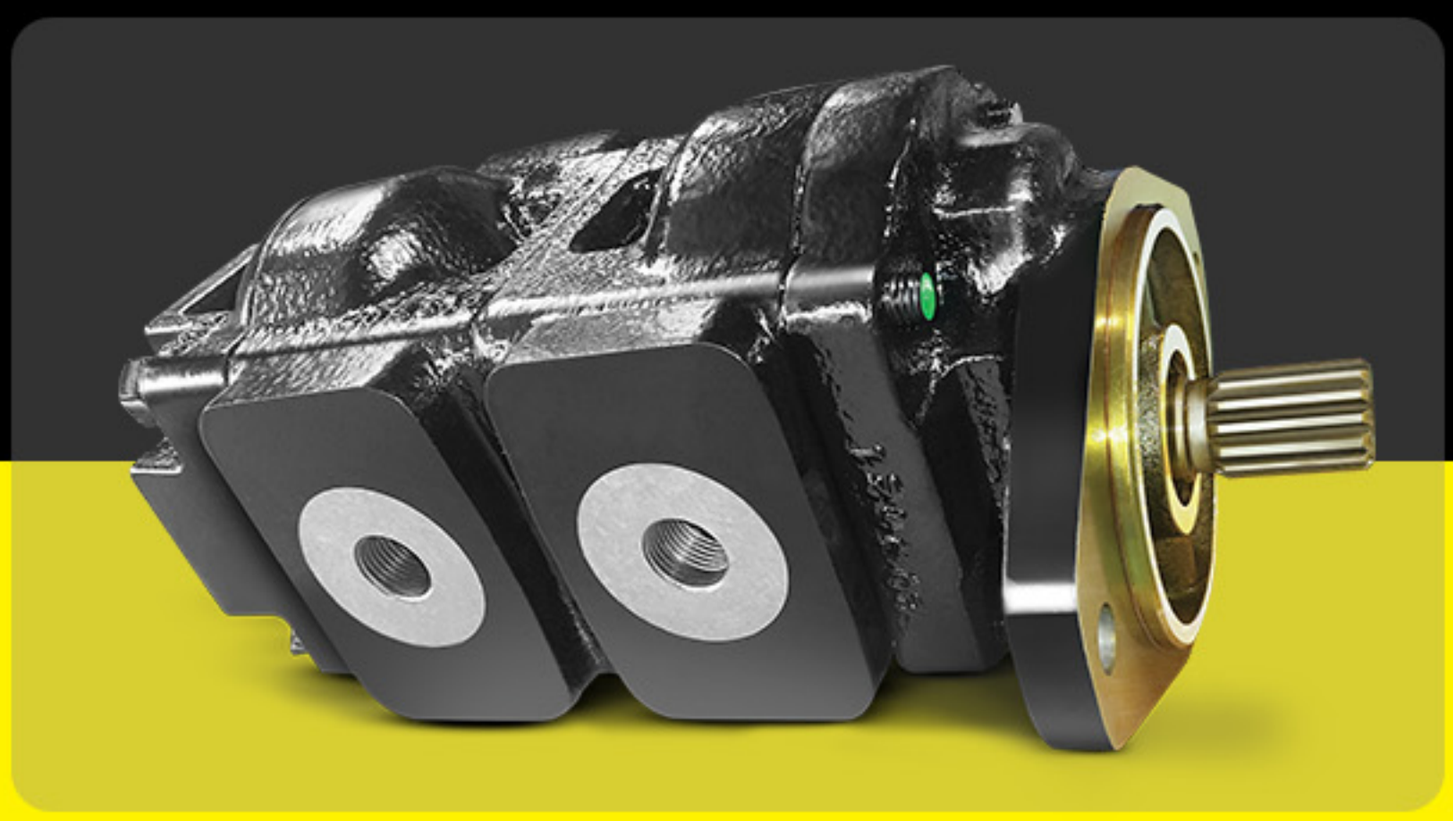
Alerts

Geofence check-in and check-out
Unscheduled operations
Stoppages during transit
Live Location with Address
Historical location replay
Nearby service stations

Service reminders

A PLETHORA OF FEATURES.
A PROMISE OF PROFITABILITY.

HYDRAULICS



New and improved hydraulic pump for smooth performance. Higher maximum pressure around 20 MPa for more power on blade. Bigger size of 26+26 cm3 gear pump for increased per-hour productivity.

BLADE RANGE

Higher Rotation angle of around 50° from the transverse of the vehicle provides faster grading in heavy material. Blades easily accommodate between tyres while the machine is travelling. This helps in a smooth machine movement.

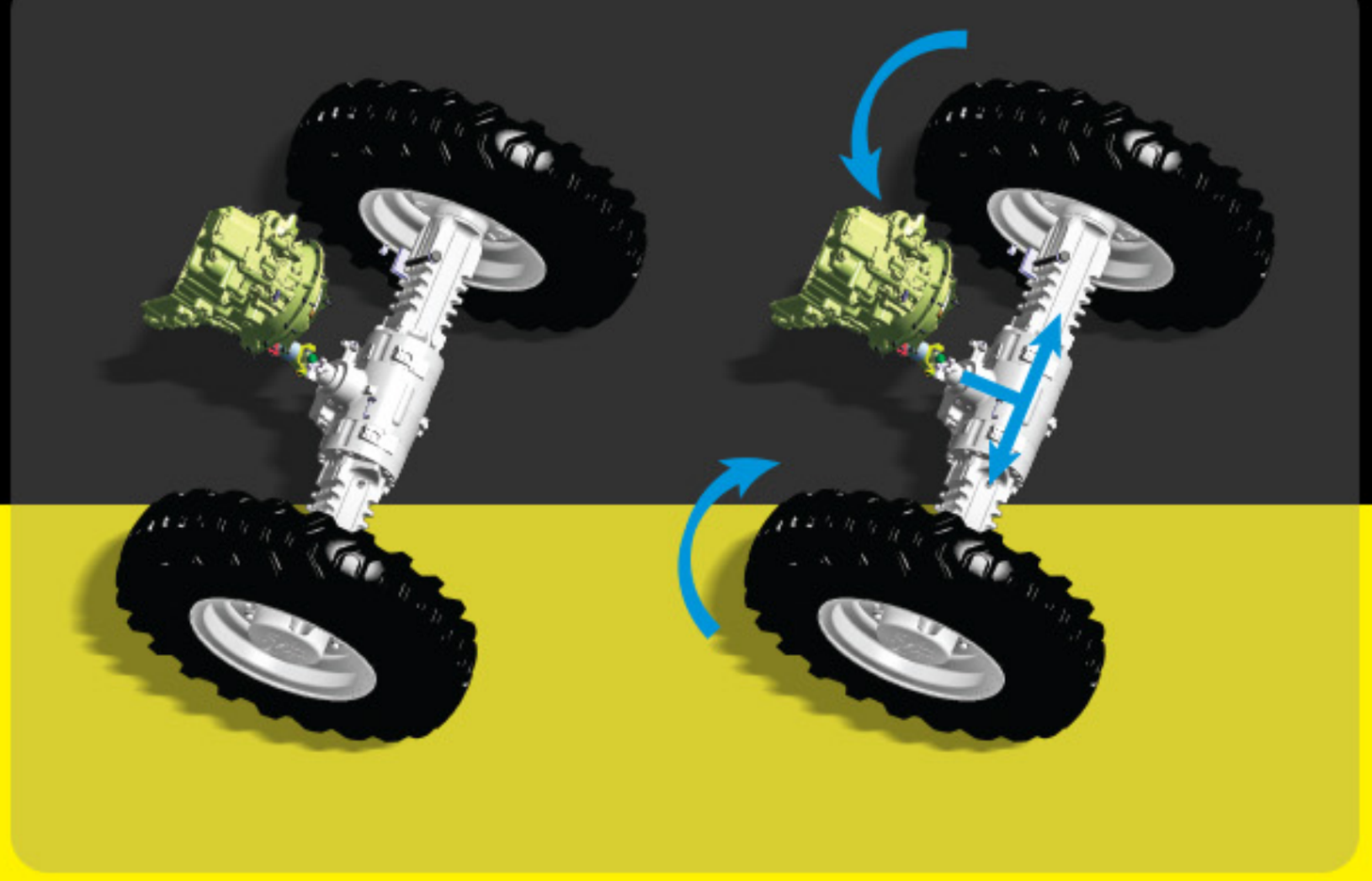
MOLDBOARD

Longer base length, increased support, less vibration, and blade length of **3000 mm** for better quality work and finishing.

CONVENIENCE & COMFORT

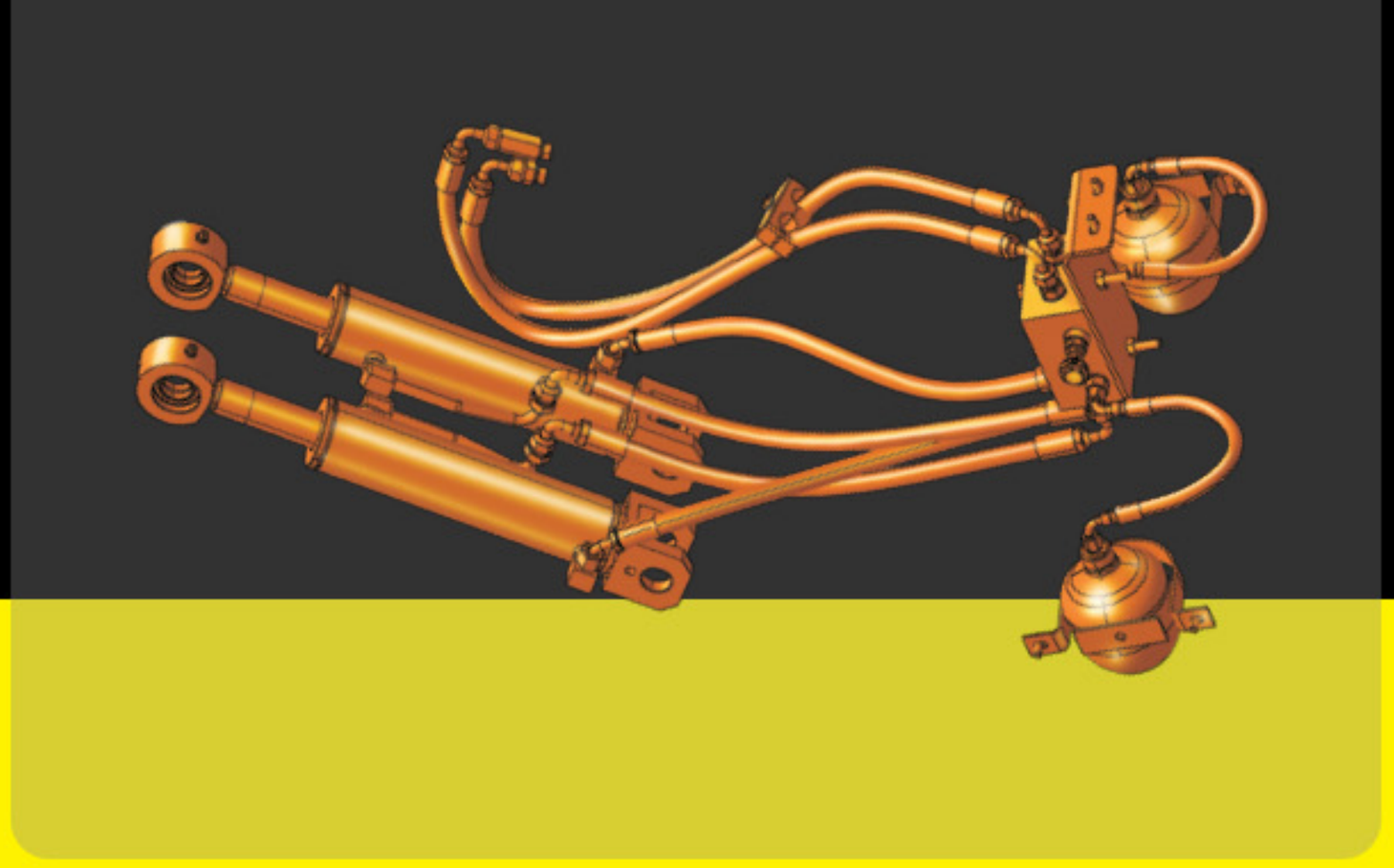
Mahindra believes that the most important part of the machine is the person operating it. That's why we have worked hard to make the operator experience comfortable for long hours of work. Ergonomic layout and seating - so that all controls are smooth and easy to reach. Including spacious canopy, lockable storage and mobile charging.

FINAL DRIVE
WITH DIFFERENTIAL LOCK



100% Mechanical Differential Lock helps in higher power generation and equal distribution of motion in the rear tyres. Ensures better performance in grading and is useful on muddy, marshy soils. The machine does not get stuck anywhere.

DAMPENING CYLINDER

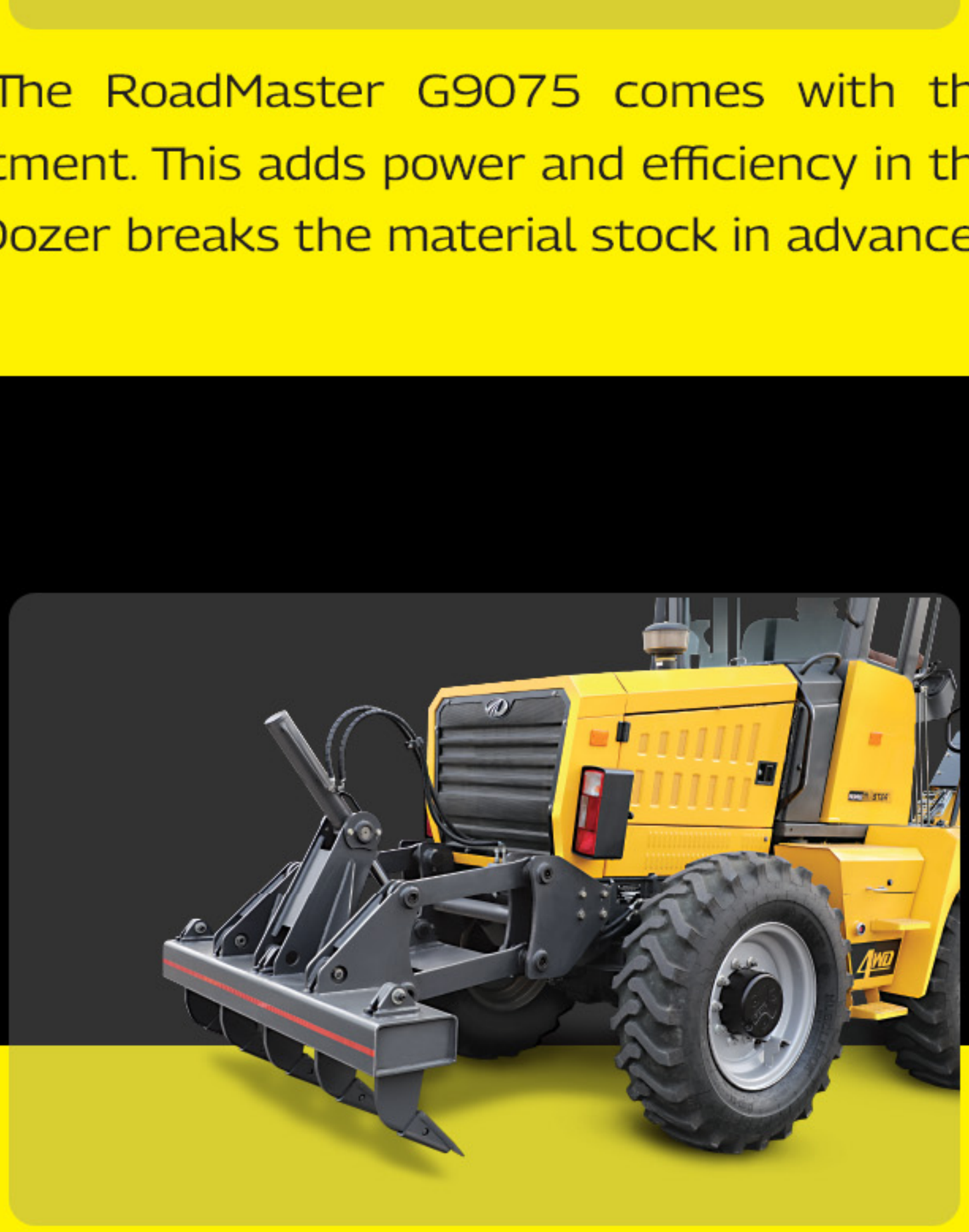


Ensures comfort in road marching and stops fluctuation during grading in final cut. Ensures more comfort to the operator and better finishing during the last cut of grading.

HEAVY DUTY DOZER BLADE

Standard Attachment: The RoadMaster G9075 comes with the Standard Dozer Blade fitment. This adds power and efficiency in the grading process as the Dozer breaks the material stock in advance.

5 TYNE RIPPER



Optional Attachment: The RoadMaster G9075 comes with the option of having additional ripper fitments for added versatility. The Ripper is perfect for ripping hard compacted surfaces before grading.

REACH & COVERAGE

Mahindra Construction Equipment dealers understand that this is a business about good after-sales support for the machines. We aim for customer satisfaction every time and understand that this means supporting the machine throughout its life.

Our strategy is to deliver the best customer support in our industry, putting our customer at the very heart of our business. In addition, Mahindra Construction Equipment and our dealerships aim to ensure minimum downtime of your machines. Here's how:

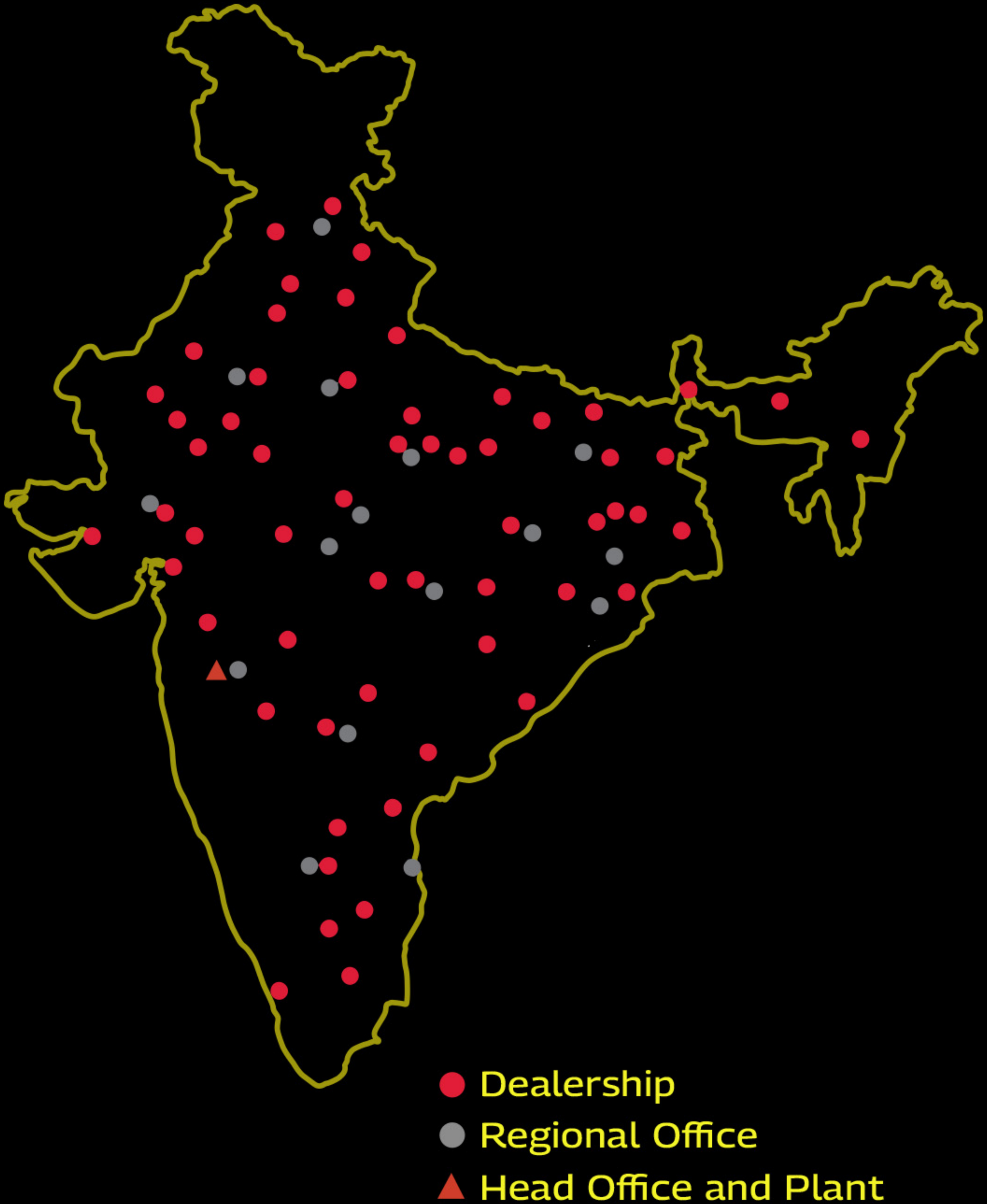
50+
Dealers across India

300+
Trained Service Engineers

60+
Service vans

SERVICE & SUPPORT

To deliver our promise of world-class customer support, Mahindra Construction Equipment has continued to invest in a comprehensive network of dealers who deliver all the support you need, right at your doorstep. Services include Saral Seva, Mahindra Genuine Services, Mahindra Genuine Parts, Mahindra Lubricants, and Mahindra Attachments, among several others.


Dealership
Regional Office
Head Office and Plant

ENGINE	
Model	BS TREM IV CEV
Form of Air Aspiration	Turbo Charged
Number of Cylinders	4
Bore	96 mm
Stroke	122 mm
Displacement	3532 cm^3 (cubic centimetre)
High idle	2400 r/min
Low idle	850 r/min
Cooling system	Water cooled
Type of fuel	Diesel
Gross power	55 kW (74HP) @ 2200 r/min
Peak gross torque	345 Nm @ 1200 - 1500 r/min
Electrical system voltage	12 V

OPERATING SPECIFICATIONS			
Gross Vehicle Weight		8848 kg	
Front Axle Weight		2668 kg	
Rear Axle Weight		6180 kg	
Speed @ gear (km/h)		Forward	Reverse
	1st	4.5 to 6.0	5.5 to 7
	2nd	7.5 to 9.0	9.0 to 10.5
	3rd	16.5 to 18.5	
	4th	33.0 to 36.5	
Turning radius outside tyre R1		10 m	
Steering angle inner wheel		45°	
Steering angle outer wheel		32°	

MOLD BOARD		
Base Length of MB		2600 mm
Thickness of Moldboard		16 mm
Blade Height	H19	516 mm

CUTTING EDGE (BLADE)		
Standard length of cutting edge (mm)	W8	2600 mm {3 piece cutting edge} {1100 + 1100 + 400}
Standard length of cutting edge with side extension (mm)	W8*	3000 mm {4 piece cutting edge} {1100 + 1100 + 400+ 400}
Width of Cutting Edge		152 mm
Thickness of Cutting Edge		16 mm

DIMENSIONS		
Distance between mid & rear axle	L9	1850 mm
Distance between front & middle axle	A	4300 mm
Wheel Base	L3	5225 mm
Distance - Front axle to Moldboard Blade base	L12	1691 mm
Transport length - with Dozer	L1	8594 mm
Transport length - with Dozer and Ripper	L1'	9270 mm
Ground Clearance below front axle beam	H18	528 mm
Minimum Ground Clearance	H4	467 mm
Max vehicle height	H1	3290 mm
Track width - Front	W3F	1674 mm
Track width - Rear	W3R	1654 mm
Width - outside front tires	W1F	2021 mm
Width - outside rear tires	W1R	2001 mm

BLADE RANGE		
Circle rotation angle	AB	50° from transverse of vehicle
Circle drive		Hydraulic cylinders with no end mechanical stoppers
Blade side shift (LH/ RH)	W15	513 mm
Blade tilt angle/Bank cut angle (LH/RH) at ground level measured on blade	A9	20° / 15°
Blade tilt angle/Bank cut angle (LH/RH) at ground level measured on drawbar	A9'	25.6° / 20°
Blade pitch angle at ground line	A11	Forward 40° Backward 5°
Blade without extension outside front tyre with blade positioned parallel to wheel axis	W9	289.5mm
Blade outside front tyre with blade positioned parallel to wheel axis	W9	489.5mm
Blade lift at normal blade pitch angle	H20	395 mm
Max blade cut depth below ground at nominal blade angle	D	300 mm
Attachment oscillation angle	E	Upward 10° Downward 15°

FRONT AXLE	
Type	Non-Driven, Steerable Central Pivoted

MIDDLE AXLE	
Type	Driven, Non Steerable, Rigid

REAR AXLE	
Type	Driven, Non Steerable, Central Pivoted

TYRES & WHEELS	
Tyre	13 x 24-12 PR
Wheel Rim Size	228.6 X 609.6 mm

TYRE PRESSURE	
Front / Middle / Rear	304 kPa

TRANSMISSION		
Model Name		Carraro 4WD Transmission
Gear Ratios		Forward / Reverse
	1st	5.603 / 4.643
	2nd	3.481 / 2.884
	3rd	1.585 / 1.313
	4th	0.793 / 0.657

HYDRAULICS	
System	Open Centre
Pump Type	Fixed Displacement Tandem Gear Pump 26+26 cm^3 (cubic centimetre)
Max Pump Flow rate	108 l/min @ 2200 r/min
Max Working pressure	20 MPa
Refill Quantity	50 litre
System Capacity	60 litre
Other Feature	Load Holding with pressure relief valves for lift and sensing cylinder

END BIT		
Width	C	200 mm
Thickness		16 mm
Blade Pull force		27 kN
Blade Down force		27 kN

SERVICE CAPACITIES	
Hydraulic tank	50 litre
Fuel tank	100 litre
Engine coolant	17 litre
Engine oil	13.5 litre
Transmission	16 litre
Middle axle or Rear axle (Differential)	14.5 litre for each axle
Middle Axle or Rear Axle (Final Drive)	1.5 litre (On each wheel end)

OPTIONAL FITMENTS	
Ripper	5 tyne

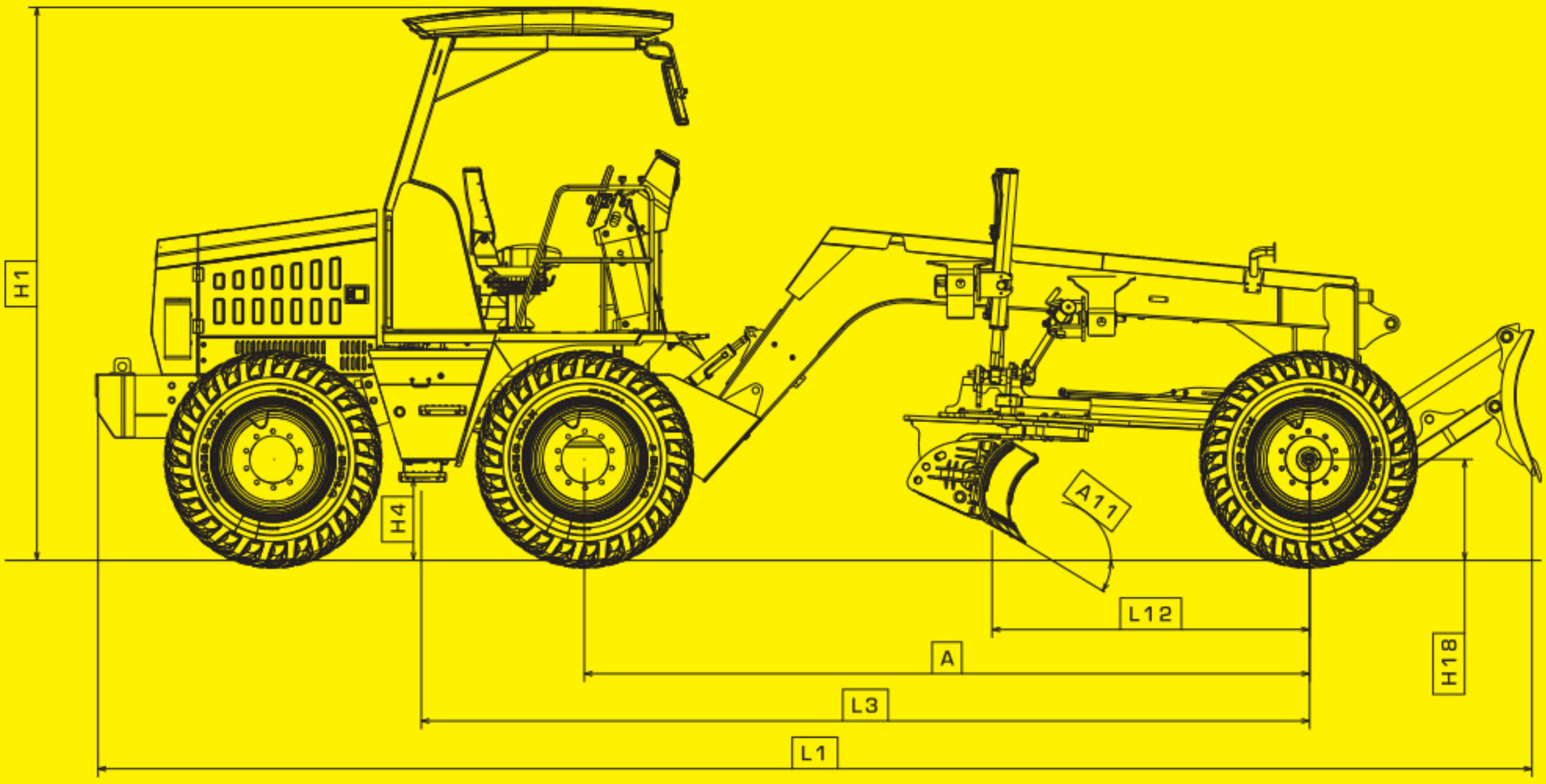
BRAKES	
Service Brake type	Foot operated hydraulically actuated oil immersed disc in middle axle
Parking Brake type	Hand operated, mechanically, actuated Caliper Brakes on middle axle

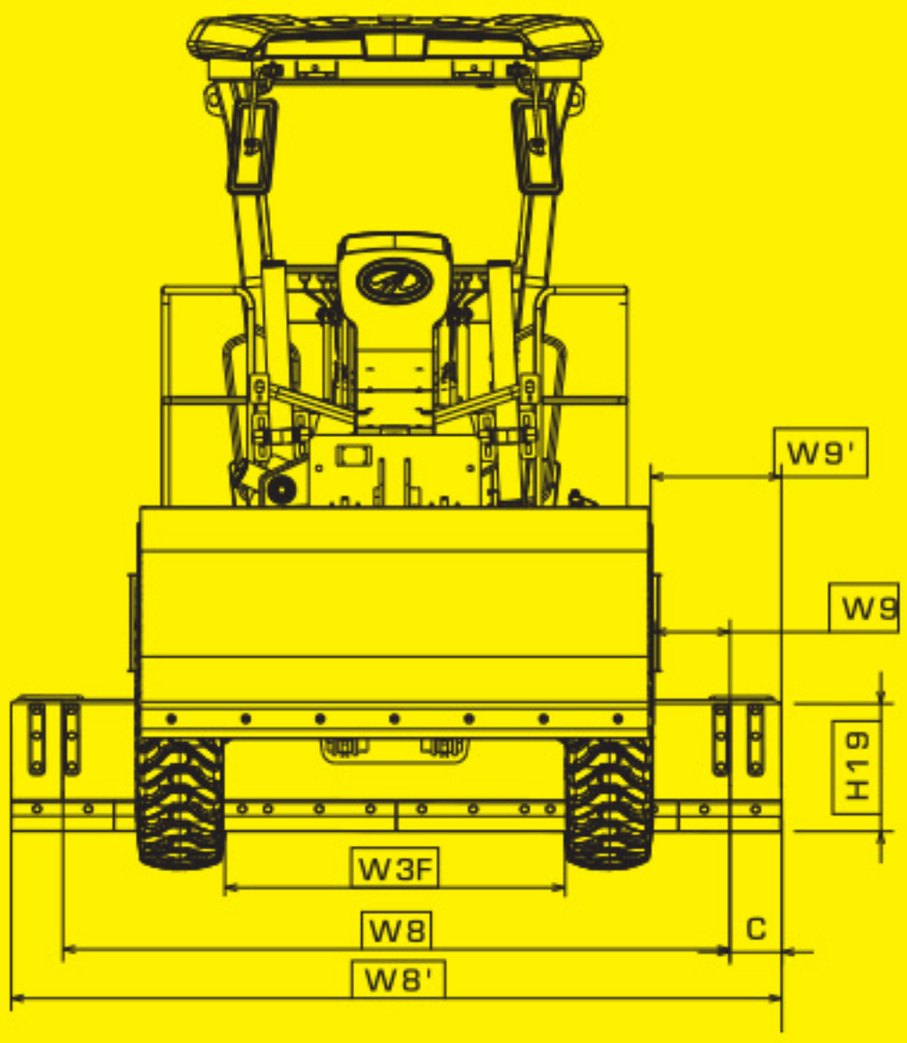
STEERING	
Type	Power Steering
Steering Valve	Load sensing with priority valve
Other feature	Emergency steering in case of pump failure

ELECTRICAL	
System Voltage	12 V
Battery Rating	12 V, 100 Ah
Alternator type	12 V, 90 A

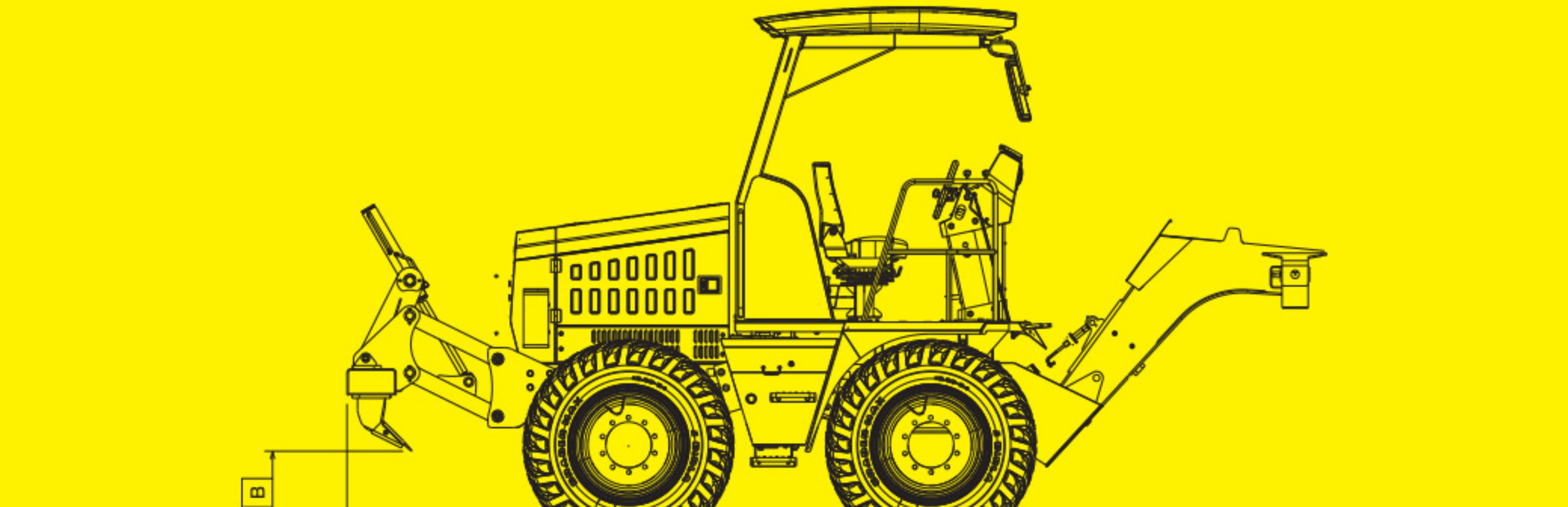
ROADMASTER

G907S DIY


H1
H4
A11
L12
A
L3
L1
H18


W9'
W9
H19
W3F
W8
W8'
C

B
L1'


L1
WW7'
W1R
W3R