

BM SERIES

117 - 135 HP



VATRA

YOUR WORKING MACHINE

THE NEW BM LINE

THE LEGEND RETURNS TO THE FIELD

The BM Generation 4 stays true to its heritage of simplicity, reliability, and sheer robustness. It is a heavy-duty workhorse purpose-built for the diverse demands of livestock, forestry, sugar cane, and grain production.

Designed for the farmer who values performance over complexity, the BM Series offers an intuitive, easy-to-use experience with just the right amount of technology to get the job done right.



BM GENERATION 1
2000



BM GENERATION 2
2007



BM GENERATION 3
2015



BM GENERATION 4
2022

POWER THAT WORKS AS HARD AS YOU DO

At the heart of the BM Gen 4 is the AGCO Power 4.9L engine producing 115 hp to 135 hp. Its mechanical injection system is specifically manufactured to generate high torque at lower engine speeds, a critical design choice that reduces internal wear and ensures your machine stays in the field for the long haul.

By optimizing combustion and reducing rpm requirements, the BM Series offers a proven economy that can save you up to 15% in fuel costs compared to other tractors in its class, ensuring your farm remains as profitable as it is productive.



WET LINER WITH ADDITIONAL CENTRAL SUPPORT

The intermediate support provides greater stability and rigidity, reducing the risk cavitation and vibration. It ensures greater cooling capacity where it is needed - in the combustion chamber.



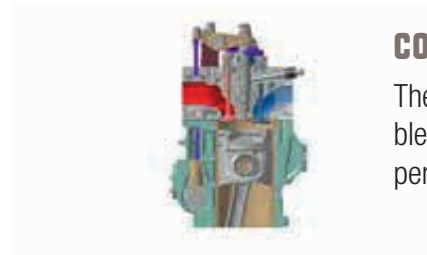
FRACTURED CONNECTING ROD

Fractured engine con rod ensures lower vibration and greater engine durability.



STRUCTURAL BLOCK

Cast-iron engine block with internal ribbing and greater wall thickness, ensuring higher rigidity, structural strength, reduced vibrations and engine noise.



COMBUSTION CHAMBER WITH OPTIMIZED FLOW

The cylinder head and piston design ensures a perfect blend of air and fuel, endowing the engine with higher performance and efficiency in combustion.

MULTITORQUE TRANSMISSIONS

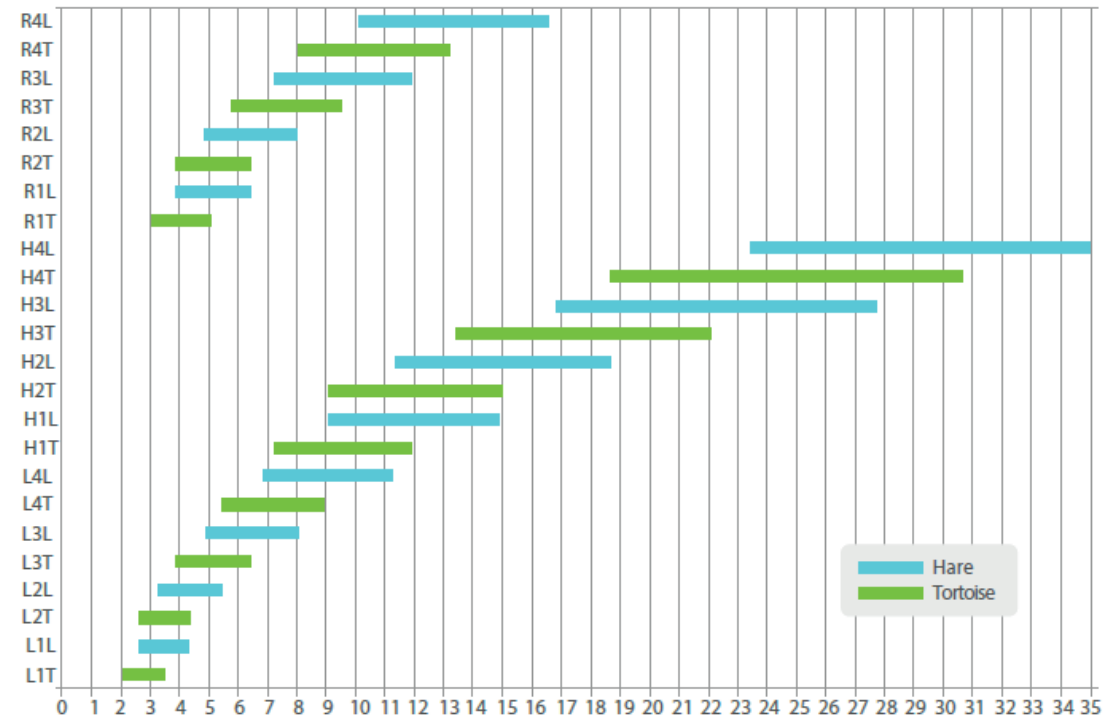
The transmission was designed with a special focus on efficiency. The fully synchronised 16+8 gearbox offers clutchless gear changes, allowing you to adapt to changing loads instantly without losing speed. The BM Gen 4 ensures you always have the perfect gear for the task at hand. This flexibility allows you to maintain the ideal engine RPM and working speed for every job, maximizing your performance while minimizing wear and fuel.

CREEPER TRANSMISSION

The super creeper transmission reaches a minimum speed of 310 m/h at 1,860 engine rpm, which is ideal for low speed applications.



MULTITORQUE SPEED CHART



MAIN ADVANTAGES OF MULTITORQUE POWERSHIFT

- The ideal working speed can be achieved with varying working conditions
- Increased durability of the clutch and engine components.
- 50% of the gear ratios between 4 and 12 km/h
- Enhanced operator comfort.

VERSATILITY WITHOUT COMPROMISE

Whether you are preparing the soil, managing crops, or hauling heavy loads, the BM Series is your all-terrain partner. With a powerful hydraulic system and a high-capacity 3-point hitch, it handles everything from heavy-duty plows to precision seeding equipment with ease.

HEAVY-LIFT 3-POINT SYSTEM

With a robust lifting capacity of 4,760 kg, the BM Gen 4 is engineered to carry the heaviest implements in its class. Its geometry is optimized for stability, making it suitable for any type of implement, regardless of the terrain or task complexity.

HIGH-FLOW REMOTE CONTROL

The BM Series offers two hydraulic configurations to match your specific needs:

- Standard Flow: 52 l/min with 2 or 3 valves (including one with automatic release)
- High Flow: A massive 98 l/min (52+46) dual-pump system with 3 valves. This includes an automatic release valve plus a double-acting constant flow valve, perfect for running hydraulic motors or implements that require steady, high-volume oil delivery.

RELIABLE POWER TAKE-OFF (PTO)

The BM Line features a heavy-duty PTO system designed for seamless power transfer. Whether you're baling, spraying, or harvesting, the PTO delivers consistent torque, ensuring your implements run at peak performance while maintaining the tractor's overall fuel efficiency.



DESIGNED FOR THE OPERATOR

A productive day starts with a comfortable operating environment. The BM Gen 4 is built to be intuitive and easy to operate, ensuring that “simple” never means “basic.”

It is available in both Open Station and Cab versions to suit your climate and preference.

Everything is positioned where you need it, reducing fatigue during long working hours.



1. Gear Levers
2. Range Lever
3. Multitorque drive
4. PTO activation
5. Rear windscreen wiper
6. Auxiliary valve control
7. Hydraulic lift position control
8. Lift sensitivity control
9. 4WD engagement
10. PTO speed selection



5

4

3



BM GEN4 SERIES TECHNICAL SPECIFICATIONS

| MODELS | | BM115 | BM 135 |
|--------|--|-------|--------|
|--------|--|-------|--------|

| ENGINE | | | |
|----------------------|------------|----------------------|--------------------|
| Engine Model | | AGCO Power 49 DTC3 | AGCO Power 49 DTC3 |
| Maximum power HP(HW) | @ 2200 rpm | 117 | 135 |
| Maximum torque (Nm) | @ 1500 rpm | 477 | 518 |
| Number of cylinders | | 4 | |
| Displacement | CC | 4900 | |
| Aspiration | | Turbo Intercooler | |
| Injection system | | Mechanical Injection | |

TRANSMISSION

| | | | |
|------------------------|--|--------------------------|--|
| Type | | Synchronized Multitorque | |
| Power shift | | 2-step Electro-hydraulic | |
| Transmission Ratios | | 16 Forward + 8 Reverse | |
| Optional Super Creeper | | 16 Forward + 8 Reverse | |
| Clutch Type | | Single Disc / Mechanical | |

POWER TAKE OFF

| | | | |
|---------------|-----|-------------------|--|
| Type | | Independent | |
| Activation | | Electro-hydraulic | |
| Speed Options | rpm | 540 / 540 + 1000 | |

HYDRAULIC SYSTEM

| | | | |
|----------------------------|--------|----------------------|--|
| Pump Type | | Gear Pump | |
| Max Flow Rate | | 52 or 52+46 L/min | |
| Max Pressure | | 180 bar | |
| Max Lift Capacity (at Eye) | Tonnes | 4.7 | |
| Auxiliary Control Valves | | 2 or 3 Double-acting | |

TYRES

| | | | |
|--------------|--|-----------------------------|--|
| Standard 4x4 | | 14.9 - 26 R1 / 23.1 - 30 R1 | |
| Optional 4x4 | | 14.9 - 28 R1 / 18.4 - 34 R1 | |

BRAKES/STEERING

| | | | |
|---------------|--|-------------------------|--|
| Brake Type | | Oil-immersed Multi-disc | |
| Steering Type | | Hydrostatic | |

| MODELS | | BM115 | BM 135 |
|--------|--|-------|--------|
|--------|--|-------|--------|

WEIGHTS & DIMENSIONS: 4X4 W/ STD TYRES

| Operating Station | | Platform or Cab | |
|------------------------|--------|-----------------|--|
| Fuel Tank Capacity | Liters | 180 | |
| Wheelbase | mm | 2522 | |
| Total Length | mm | 5430 | |
| Total Height | mm | 2670 | |
| Max Permissible Weight | kg | 7392 | |
| Ground Clearance | mm | 410 | |

THEORETICAL SPEEDS (KM/H)

| 18.4 - 34 R1 @ 2300 rpm | | | | |
|-------------------------|-----------------------|------|------------------------|------|
| Gear | Multi-torque (16F+8R) | | Super Creeper (16F+8R) | |
| | Tortoise | Hare | Tortoise | Hare |
| L1 | 3.1 | 3.9 | 0.39 | 3.9 |
| L2 | 3.9 | 4.9 | 0.49 | 4.9 |
| L3 | 5.8 | 7.3 | 0.72 | 7.3 |
| L4 | 8.1 | 10.2 | 1.00 | 10.2 |
| H1 | 10.8 | 13.5 | 1.33 | 13.5 |
| H2 | 13.5 | 16.9 | 1.67 | 16.9 |
| H3 | 19.9 | 25.1 | 2.47 | 25.1 |
| H4 | 27.7 | 34.8 | 3.43 | 34.8 |
| R1 | 5.1 | 6.4 | 0.63 | 6.4 |
| R2 | 6.4 | 8.0 | 0.79 | 8.0 |
| R3 | 9.5 | 11.9 | 1.18 | 11.9 |
| R4 | 13.2 | 16.6 | 1.63 | 16.6 |

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AGCO South Africa
 16 Pomona Road, Kempton Park, Gauteng, 1619

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