

New Holland Tf 78 Specifications

new holland tf 78 specifications When it comes to modern agricultural machinery, the New Holland TF 78 combines power, efficiency, and versatility to meet the demanding needs of farmers and contractors worldwide. Designed with advanced technology and robust construction, this tractor is a popular choice for various farming operations, including tillage, hauling, and fieldwork. In this article, we will provide a comprehensive overview of the New Holland TF 78 specifications, covering its engine, dimensions, performance features, transmission, and more. Whether you're an agricultural professional or a tractor enthusiast, understanding these specifications can help you make an informed decision about this reliable piece of machinery.

Overview of the New Holland TF 78

The New Holland TF 78 is part of the company's TF series, renowned for its high-performance features tailored to mid-range farming needs. With a focus on productivity and operator comfort, the TF 78 is suitable for a variety of tasks, from plowing and cultivating to transport and light construction work. Its design emphasizes durability and ease of maintenance, making it an excellent investment for farmers seeking a durable and efficient tractor.

Engine Specifications

One of the key aspects of any tractor is its engine performance. The New Holland TF 78 is equipped with a powerful yet fuel-efficient engine designed to deliver optimal performance across different applications.

Engine Type and Model

- 3.4-liter four-cylinder diesel engine - Water-cooled, turbocharged with intercooler - Common rail direct injection system

Engine Power

- Gross power: 78 horsepower (HP) - Rated PTO power: 70 HP - Max torque: Approximately 290 Nm

Performance and Fuel Efficiency

- The engine is designed to provide high torque at low RPM, ensuring effective power delivery during heavy workloads. - Fuel consumption optimized for long hours of operation, reducing operating costs. - Meets latest emissions standards, including Tier 4A (if applicable), ensuring environmentally friendly operation.

Dimensions and Weight

Understanding the size and weight of the TF 78 is essential for transportation, storage, and operational planning.

Dimensions

- Length: approximately 4.2 meters (14 feet) - Width: around 2.1 meters (6.9 feet) - Height: approximately 2.6 meters (8.5 feet)

Weight

- Operating weight: 3,200 kg (7,055 lbs) These dimensions make the TF 78 suitable for working in various field sizes and terrains while maintaining stability and maneuverability.

Transmission and Drivetrain

A robust transmission system is vital for efficient power transfer and operational flexibility.

Transmission Type

- 12 forward + 12 reverse gears - Synchro shuttle for easy gear shifting

Gear System

- Mechanical or electro-hydraulic shift options - High and low-range settings for different working conditions

Drive Type

- 4WD (Four-Wheel Drive) for enhanced traction and stability - Optional two-wheel drive configuration for lighter tasks

Hydraulics and Lifting Capacity

Hydraulic systems power implements and attachments, making the tractor versatile.

Hydraulic Pump

- Type: Load-sensing hydraulic pump - Flow rate: Up to 50 liters per minute (L/min)

Lifting Capacity

- Front lift capacity: approximately 2,200 kg (4,850 lbs) - Rear lift capacity: approximately 3,500 kg (7,716 lbs)

Hydraulic Controls

- Multiple remote valves for implements - Adjustable flow and pressure settings

Cabin and Operator Comfort

Operator comfort directly impacts productivity, and the TF 78 is designed with this in mind.

Cab Features

- Spacious, ergonomic cabin with good visibility - Adjustable seat and steering wheel - Climate control options (air conditioning and heater)

Instrumentation

- Digital dashboard displaying speed, fuel level, engine temperature, and more - Easy-to-access controls for lights, hydraulics, and transmission

Wheels and Tires

Suitable tire options enhance traction and minimize soil compaction.

Standard Tire Sizes

- Front tires: 11.2-24 or 12.4-24 - Rear tires: 16.9-30 or 18.4-30

Optional Features

- Dual wheel setups for increased stability - Wide tires for specific soil conditions

Additional Features and Accessories

The New Holland TF 78 offers several optional features to customize the tractor for specific tasks.

1. Front and rear weights for better stability
2. Power Take-Off (PTO) options: 540/1000 RPM
3. Front loader compatibility
4. Implement hydraulic connections
5. Lighting packages for extended working hours

Performance Summary

| Specification | Details | | | | Engine Power | 78 HP | | Max Torque | 290 Nm | | Transmission | 12F + 12R, Synchro shuttle | | Fuel Tank Capacity | Approximately 110 liters | | Operating Weight | 3,200 kg | | Hydraulic Flow Rate | Up to 50 L/min | | Front Lift Capacity | 2,200 kg | | Rear Lift Capacity | 3,500 kg |

Conclusion

The New Holland TF 78 stands out as a reliable, versatile, and efficient tractor designed to meet a broad spectrum of agricultural needs. Its well-balanced specifications ensure high performance, durability, and operator comfort, making it an excellent choice for medium-sized farms and contracting services. With its powerful engine, advanced transmission, and robust hydraulic system, the TF 78 can handle various implements and tasks with ease. Whether you require a tractor for tillage, hauling, or light construction, understanding these detailed specifications can assist you in evaluating whether the New Holland TF 78 aligns with your operational requirements. Investing in a machine like the TF 78 can significantly improve productivity and profitability, backed by New Holland's reputation for quality and innovation in agricultural machinery. For the most accurate and region-specific information, always consult your local New Holland dealer or official product brochures to ensure you get the latest specifications and available options.

New Holland TF 78 Specifications: An In-Depth Guide to a Versatile Agricultural Tractor

When it comes to modern farming machinery, the New Holland TF 78 stands out as a robust and versatile tractor designed to meet the diverse needs of farmers and agricultural professionals. Renowned for its powerful performance, innovative features, and reliable build, the TF 78 series offers a compelling blend of efficiency and comfort. This comprehensive guide explores the specifications of the New Holland TF 78, providing an in-depth look at its engine, dimensions, performance capabilities, and technological features to help you understand what makes this tractor a valuable asset in the field.

Overview of the New Holland TF 78

The New Holland TF 78 is part of the TF series, which is recognized for its high horsepower, advanced hydraulics, and user-friendly design. Crafted for tasks ranging from tillage and hauling to planting and harvesting, this tractor combines power with precision, making it suitable for various farming operations.

Engine Specifications

Engine Type and Power

1. Engine Model: New Holland T8.390
2. Type: 6-cylinder, turbocharged diesel engine
3. Displacement: Approximately 8.4 liters (512 cubic inches)
4. Maximum Power: Around 78 horsepower (which is indicative of the model name, although actual rated power may vary slightly based on specific configurations and markets)
5. Rated Power: Typically close to 75-78 HP, ensuring ample torque for demanding tasks

Performance and Efficiency

1. Fuel System: Common rail direct fuel injection for improved combustion and efficiency
2. Turbocharging: Variable geometry turbocharger for optimal power delivery across RPM ranges
3. Cooling System: Heavy-duty radiator and cooling fan to maintain optimal engine temperature during prolonged operation
4. Emission Compliance: Meets modern emissions standards, often with Tier 3 or Tier 4A specifications, depending on the model year

Transmission and Drivetrain

Transmission Type

1. Type: Powershuttle or synchronized gear transmission
2. Gear Speeds: Typically 12 forward and 12 reverse gears, allowing smooth shifting and flexibility
3. Operational Range: Low-range for heavy-duty work, high-range for transport and fast travel

Drivetrain and Axles

1. Drive Type: 4WD (Four-wheel drive) for enhanced traction
2. Axle Configuration: Front and rear axles designed for durability and load-bearing capacity
3. Differentials: Limited-slip or locking differentials available for challenging terrains

Hydraulic and PTO Features

Hydraulic System

1. Hydraulic Pump Capacity: Usually around 55-70 liters per minute (L/min), providing sufficient flow for multiple implements
2. Hydraulic Control: Load-sensing hydraulics for precise control
3. Number of Remote Valves: Typically 2 to 4, enabling operation of various hydraulic implements simultaneously

Power Take-Off (PTO)

1. PTO Type: Independent, rear-mounted PTO
2. PTO Speed: Standard 540 RPM, with optional 1000 RPM for heavy-duty equipment
3. PTO Engagement: Mechanical clutch or electro-hydraulic engagement depending on configuration

Dimensions and Weight

Physical Dimensions

1. Overall Length: Approximate 4.2 meters (13.8 feet)
2. Width: Around 2 meters (6.6 feet), depending on tire configuration

3. Height: Approximately 2.8 meters (9.2 feet) with cab

Weight and Load Capacity

1. Operating Weight: Typically in the range of 4,700 to 5,200 kg (10,362 to 11,464 lbs)
2. Front Axle Load Capacity: Designed to support heavy implements
3. Rear Axle Load Capacity: Suitable for pulling large equipment and heavy loads

Cabin and Operator Comfort

Cabin Features

1. Design: Ergonomically designed cabin with excellent visibility
2. Seating: Adjustable suspension seat for operator comfort
3. Controls: Intuitive layout with easy-to-reach controls and modern instrumentation

Technology and Convenience

1. Dashboard: Digital display showing speed, engine RPM, fuel level, and diagnostic information
2. Climate Control: Air conditioning and heating systems for operator comfort
3. Sound Insulation: Reduced noise levels for less operator fatigue

Additional Features and Options

Tire Options

1. Wide range of tire sizes and types available to suit different terrains and applications

Attachments and Implements

1. Compatibility with a variety of implements such as loaders, plows, cultivators, and more

Safety Features

1. Roll-over protective structures (ROPS)

2. Safety lighting and reflective markings

Summary of Key Specifications

| Specification | Details |

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| Engine Power | ~78 HP |

| Engine Type | 6-cylinder turbocharged diesel |

| Displacement | ~8.4 liters |

| Transmission | 12F/12R synchronized or powershift transmission |

| Hydraulic Pump | 55-70 L/min |

| PTO Speeds | 540 and 1000 RPM |

| Overall Length | ~4.2 meters |

| Width | ~2 meters |

| Height | ~2.8 meters |

| Operating Weight | ~4,700 - 5,200 kg |

| Fuel Tank Capacity | Approximately 180 liters |

Final Thoughts

The New Holland TF 78 is a prime example of a modern, reliable, and efficient tractor tailored to meet the demands of contemporary agriculture. Its balanced combination of engine power, hydraulic capacity, and operator comfort makes it suitable for a variety of tasks, from fieldwork to transportation. Understanding the detailed specifications of the TF 78 can help farmers and equipment managers make informed decisions about their machinery and ensure they leverage the full potential of this versatile tractor.

Whether you're considering purchasing the TF 78 or simply want to deepen your knowledge of its features, the specifications outlined above provide a comprehensive overview of what this tractor has to offer. With its durable build and advanced features, the New Holland TF 78 remains a valuable asset in the modern farmstead.

Questions & Answers About new holland tf 78 specifications

No	Question	Answer
1	What are the key engine specifications of the New Holland TF 78?	The New Holland TF 78 is equipped with a powerful 4.5-liter diesel engine that delivers approximately 78 horsepower, ensuring efficient performance for various farming tasks.
2	What is the maximum lifting capacity of the New Holland TF 78 loader?	The New Holland TF 78 features a robust loader with a maximum lifting capacity of around 1,600 kg, making it suitable for handling heavy loads and attachments.
3	What are the dimensions and weight specifications of the New Holland TF 78?	The tractor has an approximate length of 4.2 meters, a width of 2.1 meters, and a weight of about 2,800 kg, providing stability and maneuverability on various terrains.
4	Does the New Holland TF 78 come with any notable transmission features?	Yes, it is equipped with a synchronized multi-speed transmission that offers multiple gears for smooth operation, typically ranging from 12 forward and 12 reverse gears.
5	What are the notable hydraulic features of the New Holland TF 78?	The tractor includes a hydraulic system with a flow rate of approximately 40 liters per minute, enabling efficient operation of various attachments and implements.

New Holland, TF 78, tractor specifications, agricultural machinery, tractor engine power, hydraulic system, transmission details, tire options, fuel capacity, model features