



Specifications for Test Equipment for Tractor Diesel Engine Performance Tests According to OECD Tractor Test Code

1. ITEM DESCRIPTION

Item: PTO Test Equipment for Tractor Diesel Engine Performance Tests According to OECD Tractor Test Code 2

Quantity: 1 (One) Complete Set

2. GENERAL REQUIREMENTS

The test bench shall be suitable for tractor PTO shaft power testing in accordance with the OECD Tractor Test Code 2.

Key Specifications:

Engine Power Range: 30–100 kW

Dynamometer Type: DC Electric

Energy Dissipation Method: Resistance Box

Dynamometer Height Adjustment: Electric Lift

Test Output Parameters:

- PTO and engine rotational speeds (rpm)
- Torque
- Power
- Fuel consumption and specific fuel consumption.
- Smoke analytics.

3. TECHNICAL REQUIREMENTS

The supplied system shall include all necessary components and accessories for complete functionality.

- Industrial computer with data logger, oil temperature sensor, fuel consumption meter, and smoke meter to measure and record all output parameters.
- Software package for data logging, analysis, and report generation.
- Torque calibration device for dynamometer.

PTO Torque: 0–1700 N·m

PTO Speeds: 540 / 760 / 1000 rpm

Dynamometer Height Adjustment Range: 480–900 mm

4. COMPULSORY REQUIREMENTS

- Installation and commissioning at **ARC – Agricultural Engineering**
- On-site training on system operation and maintenance
- **Warranty:** Minimum 24 months

5. DELIVERY AND SUPPORT

Suppliers must include:

- Lead time for delivery and installation.
- Details of after-sales technical support and calibration services
- Compliance certificates or documentation relevant to OECD Tractor Test Code