

**Features &
Competitive
Comparisons
TN55D
TN65D
TN75D**

**PRODUCT
MANUAL**



NEW HOLLAND

TRAINING

1 Introduction

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1 Product Story

TND ALL PURPOSE TRACTORS

Part of the TN Family of tractors

THE TN FAMILY GROWS FOR SEASON 1999.... The TND Family of all-purpose tractors represent a big step forward in productivity and operator comfort. Three deluxe, all purpose models are available at 42, 52 and 62 PTO horsepower. Each feature **air-conditioned cabs** and are available with “Big Tractor” features like **electro-hydraulic Power Shuttle and four wheel differential lock**. Serviceability, performance and operator comfort set the industry standard.

TND....Customer driven design.

The TND is the culmination of over six years of research, development and testing. The research journey began with numerous **customer clinics** in which New Holland and competitive customers told product team members what they would like to see in a new family of all purpose tractors. **Guided by customer input, team members harnessed the global resources of New Holland, selecting the best components available for the development of the first TND prototypes.** Areas such as engine performance, operator comfort, reliability, serviceability and a host of others were addressed with the goal of producing a “**customer built**” tractor. Where available systems could not meet customer expectations new ones were developed, including a family of **state-of-the-art transmissions**. **Additional clinics** were held to solicit feedback on the prototype units yielding still further refinement.

TND....Extensive testing.

Thousands of hours of World Wide testing was conducted to ensure that the TND would live up to customer expectations for durability and reliability. North American testing was conducted throughout the United States in varying applications and climates. Testing sights in Minnesota, Southern California, North Carolina, Texas and others helped support core testing at New Holland’s North American Technical center in New Holland, PA.

TND....Part of New Holland’s TN Family of tractors.

The TND is the third addition to the TN family of tractors. The first member of the family, the TNF (Orchard tractor), was introduced in late 1997, the second member the TNS (All-purpose) was introduced in the third quarter of 98. The TND model lineup—

<u>MODEL</u>	<u>CYLINDERS</u>	<u>CU.IN.</u>	<u>P.T.O. HP</u>	<u>ENGINE TORQUE RISE</u>
TN55D	3	179	42	29%
TN65D	3	179	52	20%
TN75D	3	179	62	36%

1 Feature & Benefit

- **NEW HOLLAND STYLING...**With its sloping hood and rounded cab, there is no doubt the TND is part of New Holland's innovative line of tractors. Like the Genesis™, Gemini™, TS, 35, and Boomer™ Families before it, the TND proves that form adds to function.
- **EFFICIENT HORSEPOWER...** Quiet, smooth running, fuel efficient, New Holland-Iveco 3 cylinder engines deliver 42, 52, or 62 PTO horsepower at low rated speeds.
- **DURABLE PTO DRIVELINES...** All TND models feature fully independent, 540 RPM PTOs utilizing the **same 11 inch, cerametalic clutch found on the 80 PTO horsepower TN90F.** A centrally located lever permits engagement with either hand. Featherability is excellent.
- **VERSATILE TRANSMISSIONS...** The 8 x 8 or 16 x 16 (creeper) Synchro Command™ transmissions feature synchronized gears and a synchronized, left hand mechanical shuttle. The optional 8 x 8 or 16 x 16 (creeper) Synchro Command™ with **Power Shuttle** offer **clutchless forward/reverse shuttling** for superior operator convenience.
- **2WD AXLE...** A rugged, 8 position, adjustable axle gives the TND superior adaptability. Maneuverability is excellent with up to 55° of total turn angle.
- **FWD AXLE...** A heavy-duty, cast iron, axle housing is used on all TND FWD units. It benefits from **single piece casting** for increased strength. Maneuverability is excellent with up to 55° of total turn angle.
- **FOUR WHEEL DIFFERENTIAL LOCK...** To ensure maximum power to ground performance, all TND Power Shuttle models feature electro-hydraulically engaged four wheel differential lock.
- **POWERFUL HYDRAULIC SYSTEM...** Every TND model features an open center hydraulic system and a single open center remote as standard equipment. A 12.4 GPM pump is standard on the models TN55 and 65D with a 16.9 GPM pump (including hydraulic oil cooler) available as a factory installed option. The TN75D utilizes the 16.9 GPM pump and hydraulic oil cooler.
- **OPERATOR FRIENDLY 3-POINT HITCH...** All TND models feature telescoping stabilizers and flexible link ends for fast and easy implement hookup. New Holland's Lift-O-Matic system and height limiting feature combine to deliver convenient, precise control of 3-PT mounted equipment.
- **SUSPENDED PLATFORM...** The cab on TND models is suspended and fully encloses the driveline shielding the operator from vibration, noise and dirt.
- **INFORMATIVE ELECTRONIC INSTRUMENT CLUSTER...** Including fuel and coolant temperature gauges, 19 different displays and a multi-function Liquid Crystal Display .
- **SERVICEABILITY...** The flip-up hood makes accessing the engine quick and easy. **There are no side shield or panels to remove during daily servicing.**

1 Standard Equipment

ENGINE: TN55D

3 Cylinder Naturally Aspirated
179 cu. In. Displacement
42 PTO hp* @ 2300 RPM
Under Hood Muffler
Vertical Exhaust
Dual Element Air Filter
19.5 Gallon Fuel Tank
Electric Engine Shut-off
Thermostart Starting Aid

ENGINE: TN65D

3 Cylinder Naturally Aspirated
179 cu. in. Displacement
52 PTO hp* @ 2300 RPM
Under Hood Muffler
Vertical Exhaust
Dual Element Air Filter
19.5 Gallon Fuel Tank
Electric Engine Shut off
Thermostart Starting Aid

ENGINE: TN75D

3 Cylinder Turbo Charged
179 cu. in. Displacement
62 PTO hp* @ 2300 RPM
Under Hood Muffler
Vertical Exhaust
Dual Element Air Filter
19.5 Gallon Fuel Tank
Electric Engine Shut-off
Thermostart Starting Aid

CLUTCH & TRANSMISSION: TN55D & TN65D

11 in. **Organic** Driveline Clutch
Synchro Command™ 8 x 8 (2 ranges of 4
synchronized gears and synchronized
mechanical shuttle)

CLUTCH & TRANSMISSION: TN75D

11 in. **Cerametallic** Driveline Clutch
Synchro Command™ 8 x 8 (2 ranges of 4
synchronized gears and synchronized
mechanical shuttle)

HYDRAULIC SYSTEM: TN55D & TN65D

Open Center System
Tandem Gear Pumps
Maximum Pump Flow at rated speed:
 Implement Pump: 12.4 GPM
 Steering Pump: 7.2 GPM
One Open Center Remote Valve with Quick
Release Couplers

HYDRAULIC SYSTEM: TN75D

Open Center System
Tandem Gear Pumps
Hydraulic Oil Cooler
Maximum Pump Flow at rated speed:
 Implement Pump: 16.9 GPM
 Steering Pump: 7.2 GPM
One Open Center Remote Valve with Quick
Release Couplers

INSTRUMENTATION: ALL MODELS:

Electronic Instrument Cluster with Multi-Function
LCD Display

LIGHTING: ALL MODELS

Two Halogen Front Headlights
Two Front Mounted Halogen Cornering Lights
Two Parking Lights
Two Cab Mounted Adjustable Halogen Lights
(Front)
Two Cab Mounted Adjustable Halogen Lights
(Rear)
Flashing Safety Lights
Two Brake Lights

DELUXE CAB: ALL MODELS

Heater and Air Conditioner
Integral ROPS
Suspended Platform & Cab
Two Doors with Locks
Tinted Glass
Hinged Rear Window
Rear window Access Panel
Front & Rear Wipers and Washers
Interior Light

*Manufacturers estimate

1 Standard Equipment

PTO: ALL MODELS

11 in. Cerametallic PTO Clutch
Independent, Live, 540 RPM

DIFFERENTIAL LOCK: ALL MODELS

Mechanical Rear

BRAKES: ALL MODELS

10.2 in. Wet Disc – Self Equalizing & Self
Adjusting
Independent Wet Disc Parking Brake

STEERING SYSTEM: ALL MODELS

Hydrostatic Power Steering

FRONT AXLE: ALL MODELS

ADJUSTABLE 2WD
55° Total Turn Angle
11° Oscillation

3-POINT HITCH: ALL MODEL

Category II Flexible Link Ends
Telescopic Stabilizers
Two Lever Controls (Position & Draft)
Fast Raise & Lower Switch

ELECTRICAL: ALL MODELS

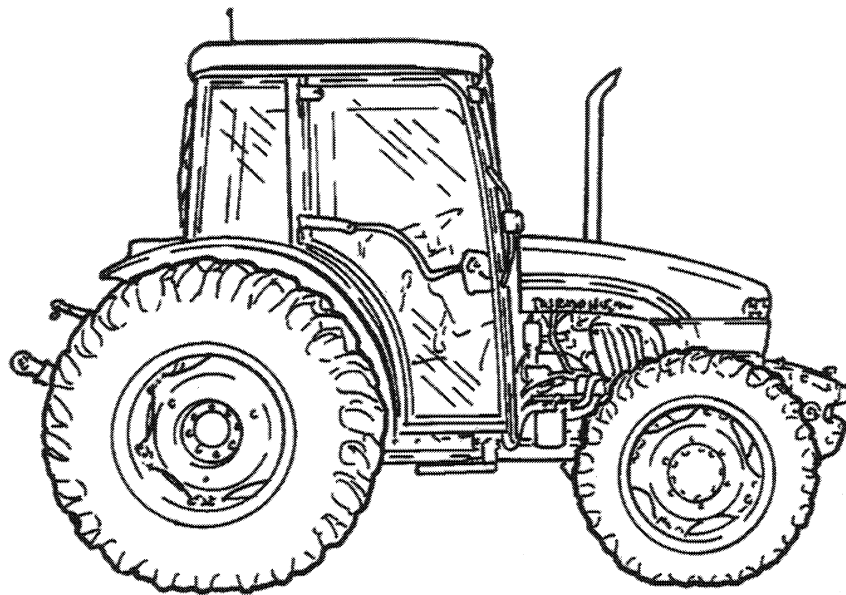
12 - volt Battery (730 CCA)
65 - amp Alternator

SEAT: ALL MODELS

Cloth Seat Cover with Operator's Presence
Sensor
Retractable Seat Belts

WARRANTY: ALL MODELS

New Holland Standard Warranty Applies



1 Notes

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