



NEW HOLLAND

COMPACT WHEEL LOADERS



W50TC W80TC

 **NEW HOLLAND**

www.newhollandconstruction.com

INCREASED LIFT, REACH, SPEED AND, CONVENIENCE

New Holland compact wheel loaders pay their way on the jobsite with outstanding performance in a compact, maneuverable machine. The Universal Link design of the W50TC and W80TC offers a combination of increased versatility with increased operator comfort and control. The result? You get the job done more quickly and efficiently.

New Universal Link Design

- New boom design with one lift cylinder and one bucket cylinder
- Standard hydraulic quick-coupler is skid steer loader-attachment compatible*
- Less than two degrees horizontal lift deviation, so there's no need for manual correction during forklift operation
- Operators can focus more on load placement and increasing cycle times
- Increased Dump Reach
- Better visibility

Smooth hydrostatic transmission

- Precise speed control with minimum shifting
- Easy-to-use, integrated FNR (forward/neutral/reverse) lever and speed shift selector
- Two travel ranges to adapt to different work situations:
 - Heavy duty 0 to 3.7 mph (0-6 kph)
 - Fast 0 to 12.4 mph (0-20 kph)

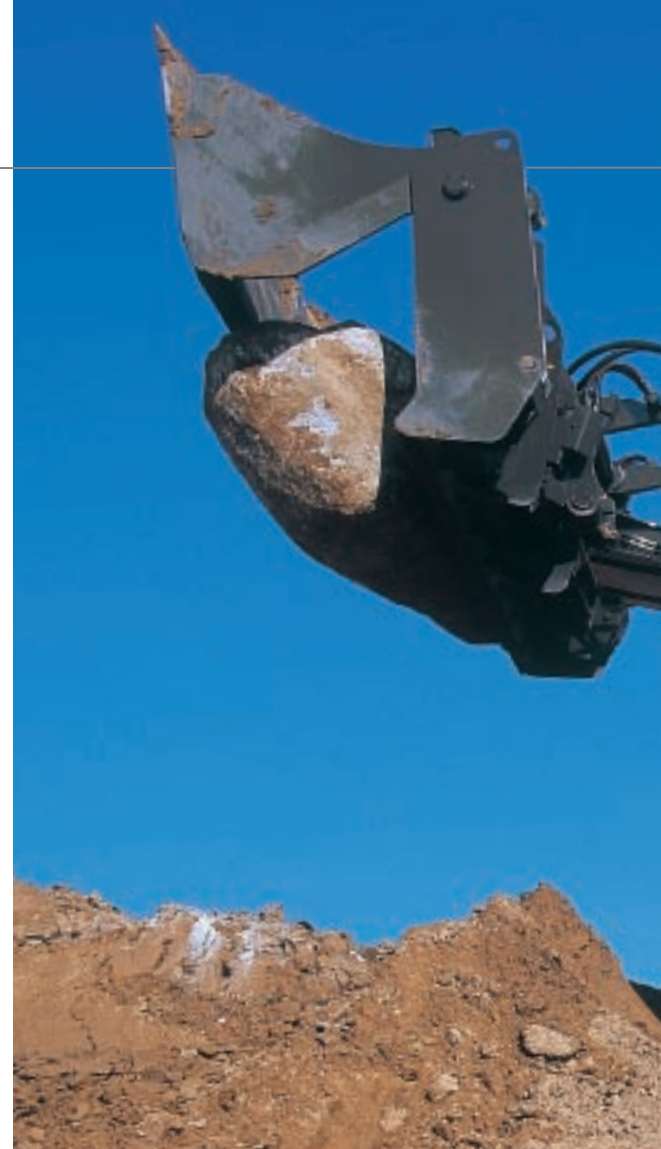
High-speed option

- Optional 21.7-mph (35 kph) transmission for the W80TC for faster travel on the job site
- Includes two electronic ranges: 0 to 3.1 mph (5 kph) and 0 to 9.9 mph (16 kph), plus the mechanical-gear, high-speed range of 0 to 21.7 mph (35 kph)
- Also features a limited slip differential on front axle and two outboard wet disc brakes on front axle

In-cab efficiency and comfort

- The most spacious cab in this class
- Comfortable, adjustable seat, steering column and armrest
- Main functions concentrated in one convenient joystick control
- Easy-read instruments
- High-performance heater/defroster with optional high-performance air conditioning comfort in all temperatures
- Door and right side window fold back 180 degrees for ventilation

*Note: Skid Steer Loader buckets not recommended.



Outstanding visibility

The new narrow loader arm design improves all around visibility, and provides a clear view to both coupler and attachment for fast, confident attachment changes. A front sun visor and front and rear wipers are standard.



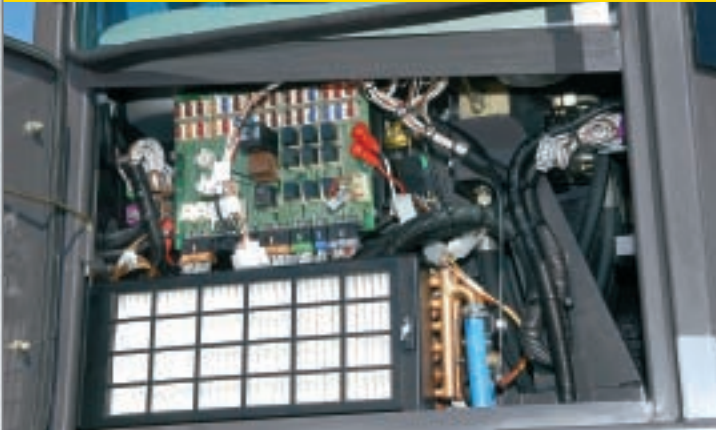
Improved forward reach allows you to place loads where you want them.



Precise, parallel forklift path eliminates the need for manual correction so operators can focus on load placement rather than load leveling.

An easy-open panel provides quick access to the cab air filter, electrical components and fuses.

Enjoy increased versatility with a broad range of attachments including a rock bucket, earth auger, snow push, snow blower, snow blade, loader boom, power rake, tree spade, bale hugger, bale spike and silage defacer.





Increased 54-degree rollback

New Holland has increased bucket rollback to 54° for excellent material retention. Operators can completely invert the bucket to grade or pull material away from walls and foundations.



POWER TO LIFT, LOAD, DIG, AND SCRAPE

New Holland compact wheel loaders do more than load. With increased engine and hydraulic power and a choice of buckets and attachments, you can easily scrape, grade, haul and more.

Dependable 4-cylinder engines

- Large 3.1-liter displacement and low 2300-rpm engine speed increase engine life
- Direct-injection diesel design features low fuel consumption, low emissions and low noise
- Oil cooling reduces corrosion to increase engine lifespan
- Compact engine measurements improve maneuverability and rear visibility

Fast servicing

- Fast, ground-level access to maintenance points
- Long service intervals—1000 hours for the W50TC, 500 hours for the W80TC
- Excellent access to engine oil drain & filter
- Access all service points from one side

Powerful hydraulics

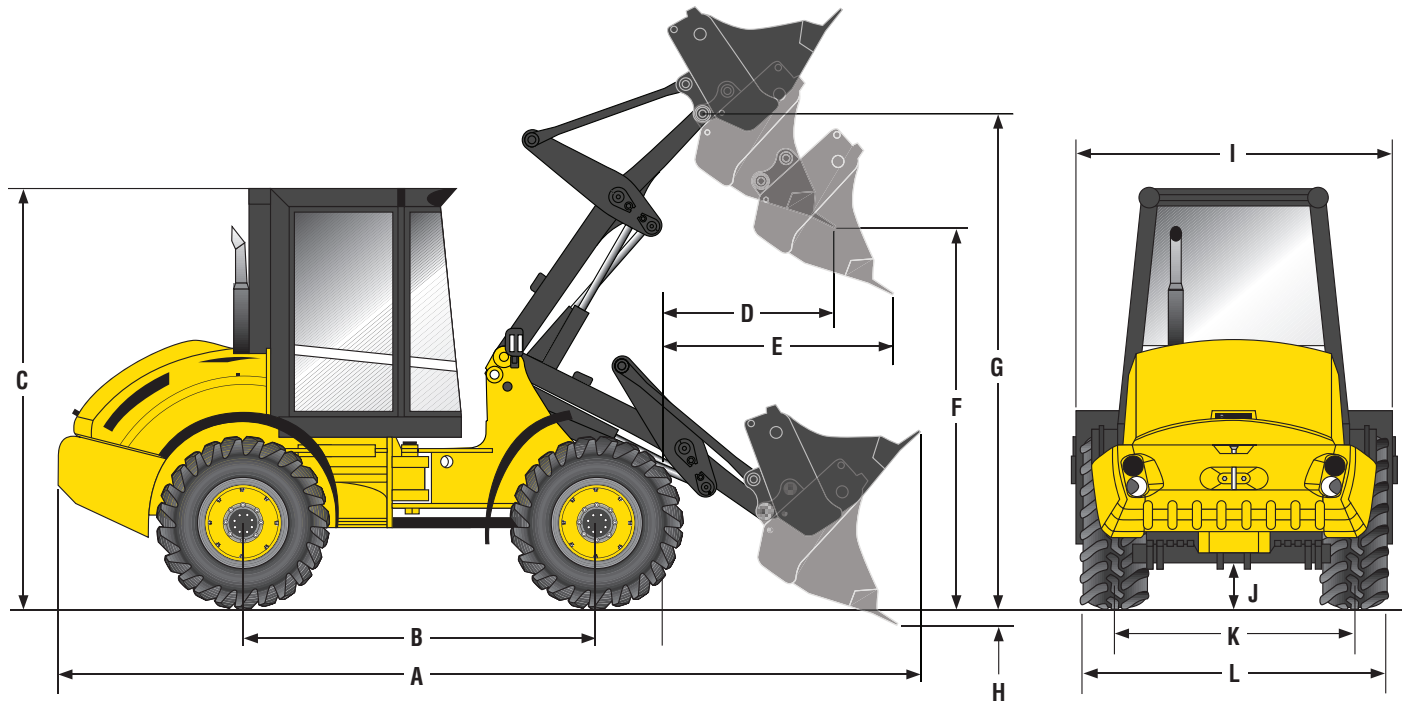
- Two separate pumps ensure fast cycle times and more output for hydraulic attachments
- One hydraulic pump for implement and steering with second pump for braking and hydraulic fan
- Excellent high lift force when using forks
- Standard third hydraulic function delivers full flow and pressure when needed
- Standard front limited slip differential, optional on rear
- Optional Ride Control load stabilizer improves material retention while traveling over rough ground
- Optional anti-drop valve prevents accidents in case of sudden loss of pressure

Outstanding stability

- Extra-long wheelbase for increased tipping loads
- Low center of gravity
- Smoother ride

W50TC W80TC Dimensions and Bucket Selection

DIMENSIONS



DIMENSIONS

W50TC

W80TC

| | | |
|--|--------------------|------------------|
| A. Overall length | 17' 5" ≤ (5329 mm) | 18' 8" (5753 mm) |
| B. Wheelbase | 85.9" (2182 mm) | 92.5" (2350 mm) |
| C. Height to top of ROPS/Cab | 8' 11" (2711 mm) | 9' 3" (2806 mm) |
| D. Dump reach at full height @ 45° | 33" (838 mm) | 34" (852 mm) |
| E. Dump reach @ 7° | 3' 10" (1172 mm) | 4' 3" (1300 mm) |
| F. Dump clearance at full height @ 45° | 8' 4" (2829 mm) | 8' 9" (2671 mm) |
| G. Hinge pin height | 10' 8" (3243 mm) | 11' 4" (3459 mm) |
| H. Dig depth below grade | 3.6" (92 mm) | 3.5" (89 mm) |
| I. Bucket width ≤ | 6' 3" (1905 mm) | 6' 11" (2100 mm) |
| J. Ground clearance under axle | 13" (530 mm) | 13" (530 mm) |
| K. Tread gauge | 4' 10" (1480 mm) | 5' 2" (1570 mm) |
| L. Width over tires | 6' 1" (1857 mm) | 6' 8" (1981 mm) |
| Bucket rollback: at carry | 51° | 52° |
| fully raised | 54° | 54° |
| Turning radius | 12' 7" (3847 mm) | 13' 8" (4154 mm) |



W50TC W80TC Base & Optional Equipment

W50TC BASE EQUIPMENT

POWERTRAIN

All-wheel drive with planetary axles
Oscillating rear axle
Articulated frame
Outboard planetary axles
Limited slip differential, front axle

HYDRAULICS

Gear type pump
Single-lever control for loader hydraulics
Integral hydraulic quick-coupler for attachments
3-spool loader control valve
Auxiliary hydraulics

TRANSMISSION

Hydrostatic transmission with variable placement
Two speeds forward and reverse
Electric shift-control lever

OPERATOR STATION

ROPS/FOPS enclosed cab
Variable-speed heater system
Sound suppression
Windshield wiper and washer (front and rear)
Tinted safety glass
Tilting steering column
Fully-adjustable cloth suspension seat with 2" seat belt
Dome light

INSTRUMENTS

Fuel gauge
Engine coolant temperature
Hour meter (near cab entrance)

WARNING LIGHTS

Alternator
Air filter restriction
Engine oil pressure
Master warning
Parking brake
Brake pressure
Full beam
Coolant temperature
Hydraulic oil temperature

ELECTRICAL

12-volt system
55-amp alternator
12-volt electrical socket
Backup alarm
Two headlights
Turn signals (two front/two rear)
Two stop lights
Two tail lights

W80TC BASE EQUIPMENT

POWERTRAIN

All-wheel drive with planetary axles
Oscillating rear axle
Articulated frame
Outboard planetary axles
Limited slip differential front axle

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Speedometer
Engine coolant temperature
Hour meter (near cab entrance)

WARNING LIGHTS

Alternator
Engine oil pressure
Air filter restriction
Master warning
Parking brake
Brake pressure
Full beam
Coolant temperature
Hydraulic oil temperature

ELECTRICAL

12-volt system
65-amp alternator
12-volt electrical socket
Backup alarm
Two headlights
Turn signals (two front/two rear)
Two stop lights
Two tail lights

W50TC OPTIONAL EQUIPMENT

BUCKET GROUP

Buckets with teeth
Four-in-one bucket
Buckets with bolt-on cutting edge

FORKLIFT PACKAGES

For carriage 57 inches wide
2 lift forks (100 x 45 x 47.25 inches)
Additional counterweighting
Additional protection fork carrier

OPERATORS STATION

Air conditioning

COUNTER WEIGHT

352 lb mounts on rear chassis

MISCELLANEOUS

Additional work lights (rear)
Beacon light
Rear multi-disc self-locking differential
Additional tool box
Limited slip, rear axle

W80TC OPTIONAL EQUIPMENT

BUCKET GROUP

Buckets with teeth
Four-in-one bucket
Buckets with bolt-on cutting edge

FORKLIFT PACKAGES

For carriage 57 inches wide
2 lift forks (100 x 45 x 47.25 inches)
Additional counterweighting
Additional protection fork carrier

OPERATORS STATION

A/C

COUNTER WEIGHT

400 lb mounts on rear chassis

MISCELLANEOUS

Additional work lights (rear)
Beacon light
Rear multi-disc self-locking differential
Additional tool box
(HTS) High travel speed 0-21.7 mph (0-35 km/h)

W50TC Specifications

ENGINE

| | |
|-------------------------------|----------------------|
| Model tier 2 certified | Deutz F4M2011 |
| Horsepower, gross | 55 hp (40.5 kW) |
| Horsepower, net | 51 hp (38 kW) |
| Rated rpm | 2,300 rpm |
| Torque, net (SAE J1349) | 136 lb-ft @ 1700 |
| Number of cylinders | 4 |
| Displacement | 190 cu. in. (3.11 L) |
| Aspiration | Natural |

CYLINDERS

| | |
|---------------------|-----------------------------------|
| Lift cylinder | 3.5" diam x 28.4" stroke x 2" rod |
| Dump cylinder | 3.5" diam x 18" stroke x 2" rod |

TRANSMISSION

| | |
|----------------------|----------------|
| Make and model | Rexroth A4VG40 |
| Type | Hydrostatic |
| Speeds | 2 F/2 R |
| 1st Gear | 3.7 mph |
| 2nd Gear | 11.6 mph |

STEERING

| | |
|---------------------------|-----------------|
| Pump type | Gear |
| Flow | 14 gpm (64 lpm) |
| Steering valve type | Orbital |
| Articulation angle | 41° |

HYDRAULICS

| | |
|------------------------------|-----------------|
| System type | Open center |
| Pump type | Gear |
| Valve type | 3 spool |
| Pump capacity | 14 gpm (64 lpm) |
| System relief pressure | 3,335 psi |
| Cycle times: | lift |
| 6.0 sec | |
| lower | 3.0 sec |
| dump | 1.0 sec |

ELECTRICAL

| | |
|------------------------------|----------|
| System voltage | 12 Volts |
| Alternator output | 55 Amps |
| Battery capacity – std | 750 CCA |

PERFORMANCE - BUCKET WITH QUICK COUPLER

| | |
|--|---|
| Bucket capacity heaped | 1 yd ³ (.76 m ³) |
| Bucket capacity struck | .73 yd ³ (.56 m ³) |
| Breakout force | 8,386 lbs. (3804 kg) |
| Static tip load straight | 7,377 lbs. (3346 kg) |
| Static tip load full turn | 6,489 lbs. (2944 kg) |
| Operating weight | 10,173 lbs. (4615 kg) |
| Dump height | 8'4" (2529 mm) |
| Dump reach | 33" (825 mm) |
| *Note: Machine equipped with bucket, bolt on cutting edge and coupler. | |

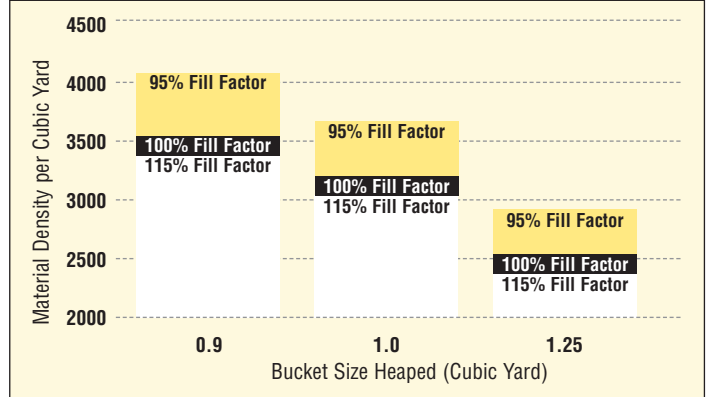
PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)

| | |
|---|----------------------|
| Static tip load straight | 5,176 lbs (2348 kg) |
| Static tip load full turn | 4,524 lbs (2052 kg) |
| Operating weight | 10,258 lbs (4653 kg) |
| Reach, fully raised | 23" (595 mm) |
| Fork height, fully raised | 9'11" (3031 mm) |
| Reach, ground level | 34" (850 mm) |
| Maximum reach | 4'4" (1331 mm) |
| *Note: Machine equipped with fork, d additional counterweighting and coupler. | |

CAPACITIES

| | |
|----------------------------------|-------------------|
| Fuel tank | 26.4 gal (100 L) |
| Cooling system | 3.0 gal (11.4 L) |
| Engine crankcase & filter | 2.6 gal (10 L) |
| Axles, front | 2 gal (7.5 L) |
| Axles, rear & transfer box | 2.4 gal (8.9 L) |
| Hydraulic tank reservoir | 10.5 gal (39.8 L) |
| Hydraulic system | 14.8 gal (56 L) |

BUCKET SIZES



W80TC Specifications

ENGINE

| | |
|-------------------------------|------------------------|
| Model tier 2 certified | Deutz BF4M2011 |
| Horsepower, gross | 75 hp (56 kW) |
| Horsepower, net | 72 hp (53.5 kW) |
| Rated rpm | 2,300 rpm |
| Torque, net (SAE J1349) | 158 lbs-ft @ 1,600 rpm |
| Number of cylinders | 4 |
| Displacement | 190 cu. in. (3.11 L) |
| Aspiration | Natural |

CYLINDERS

| | |
|---------------------|-----------------------------------|
| Lift cylinder | 3.5" diam x 28.4" stroke x 2" rod |
| Dump cylinder | 3.5" diam x 18" stroke x 2" rod |

TRANSMISSION

| | |
|--|----------------|
| Make and model | Rexroth A4VG71 |
| Type | Hydrostatic |
| Speeds | 2 F/2 R |
| 1st Gear | 3.7 mph |
| 2nd Gear | 12.4 mph |
| High travel speed (HTS) option engaged | 21.7 mph |

STEERING

| | |
|---------------------------|-----------------|
| Pump type | Gear |
| Flow | 19 gpm (86 lpm) |
| Steering valve type | Orbital |
| Articulation angle | 41° |

HYDRAULICS

| | |
|------------------------------|-----------------|
| System type | Open center |
| Pump type | Gear |
| Valve type | 3 spool |
| Pump capacity | 19 gpm (86 lpm) |
| System relief pressure | 3,335 psi |
| Cycle times: lift | 6.6 sec |
| lower | 3.5 sec |
| dump | 1.1 sec |

ELECTRICAL

| | |
|------------------------------|----------|
| System voltage | 12 Volts |
| Alternator output | 65 Amps |
| Battery capacity – std | 750 CCA |

PERFORMANCE - BUCKET WITH QUICK COUPLER

| | |
|---------------------------------|--|
| Bucket capacity heaped | 1.44 yd ³ (1.1 m ³) |
| Bucket capacity struck | 1.18 yd ³ (.90 m ³) |
| Breakout force | 11,241 lbs (5099 kg) |
| Static tip load straight | 9,744 lbs (4420 kg) |
| Static tip load full turn | 8,277 lbs (3755 kg) |
| Operating weight | 12,727 lbs (5773 kg) |
| Dump height | 8'8" (2635 mm) |
| Dump reach | 35" (889 mm) |

*Note: Machine equipped with bucket, bolt on cutting edge and quick-coupler.

PERFORMANCE - CONSTRUCTION UTILITY FORK (48 INCH)

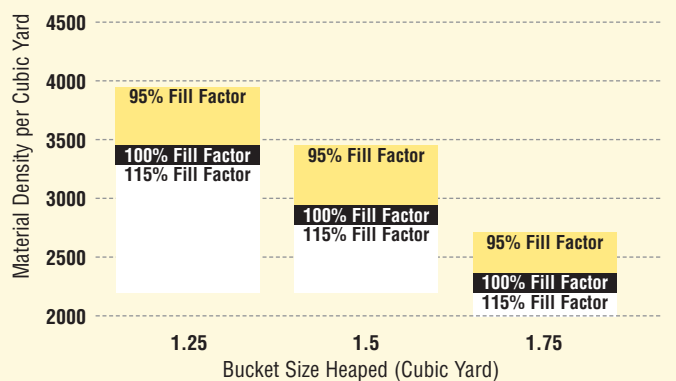
| | |
|---------------------------------|----------------------|
| Static tip load straight | 7,197 lbs (3265 kg) |
| Static tip load full turn | 6,106 lbs (2770 kg) |
| Operating weight | 12,544 lbs (5690 kg) |
| Reach, fully raised | 22" (555 mm) |
| Fork height, fully raised | 10'8" (3258 mm) |
| Reach, ground level | 32" (822 mm) |
| Maximum reach | 4'5" (1348 mm) |

*Note: Machine equipped with fork, additional counterweighting and quick-coupler.

CAPACITIES

| | |
|----------------------------------|-------------------|
| Fuel tank | 26.4 gal (100 L) |
| Cooling system | 3.4 gal (12.87 L) |
| Engine crankcase & filter | 2.6 gal (10 L) |
| Axles, front | 2.4 gal (8.9 L) |
| Axles, rear & transfer box | 2.5 gal (9 L) |
| Hydraulic tank reservoir | 10.5 gal (40.0 L) |
| Hydraulic system | 19.5 gal (74 L) |

BUCKET SIZES



COMPACT WHEEL LOADERS

W50TC

Horsepower
Net 51 hp (38 kW)

Operating weight
10,173 lbs (4615 kg)

Bucket capacity
1 cu. yd. (.76 m³)

W80TC

Horsepower
Net 72 hp (54 kW)

Operating weight
12,727 lbs (5773 kg)

Bucket capacity
1.44 cu. yd. (1.1 m³)



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Your New Holland construction equipment dealer can match you with the best equipment for your operation. Your productivity is their goal and your profitability is their priority.

But providing dependable, efficient construction equipment is only the beginning. Your dealer can also make it easier to put New Holland construction equipment to work on your job site by tailoring low-rate financing, lease programs and insurance plans to meet your needs.

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 **NEW HOLLAND**

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.

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