

# ***Heavy-Duty Tyre Changer Family***

***Optimized for truck, bus, and heavy industrial vehicle tires***



# TCX635HD

TCX635HD is optimized for over the road truck tires ranging from 14.5 to 24.5 inches, including super singles.



*TCX635PHD shown with optional jaw protectors and ramps*

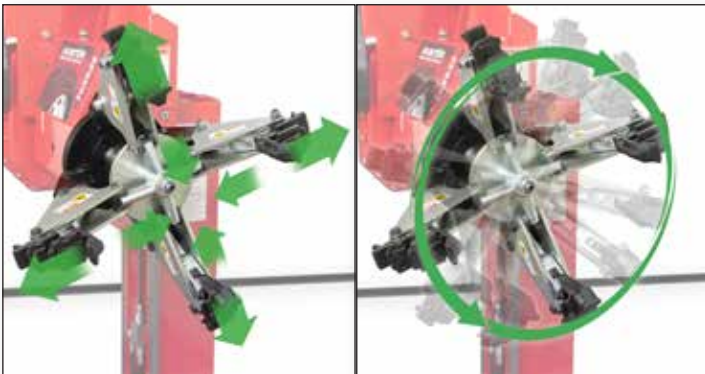
**TOTAL**  
**1:32**



## TCX635HD

CLAMP <b>0:18</b>	BEAD BREAK <b>0:22</b>	DEMOUNT <b>0:13</b>	MOUNT <b>0:22</b>	UNCLAMP <b>0:17</b>
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**17% faster than other models**



### Tulip-Style Clamping

- ✓ Innovative clamp expands and contracts quickly
- ✓ Fast mounting with no damage to the wheel



### Fast, Efficient, and Simple Controls

- ✓ Houses all user operations
- ✓ Pivots for easy access

# Fast and easy demounting and mounting

Roll the wheel onto the carriage and move the carriage inward



Easy mounting shown using optional lever



- ✓ Loosen the beads using the rollers and lube.
- ✓ No hammers needed!

- ✓ Use standard aluminum or steel rim clamps to assist mounting.



- ✓ Quickly slide the carriage and spin the tire, rolling both beads off of the rim. It's that easy.

**For many standard tyres, super-fast double bead mounting is possible.**

## Safety comes standard

The TCX635 functions close to the ground to keep heavy tyres at a safe height.



**NO HAMMERS**



**NO BARS**



**NO LIFTING**

## TCX635HD Wheel Serviceability

Wide-Based ✓



✓ Semi-Truck



✓ 19.5 in.  
✓ 17.5 in.

✓ Skid Steer

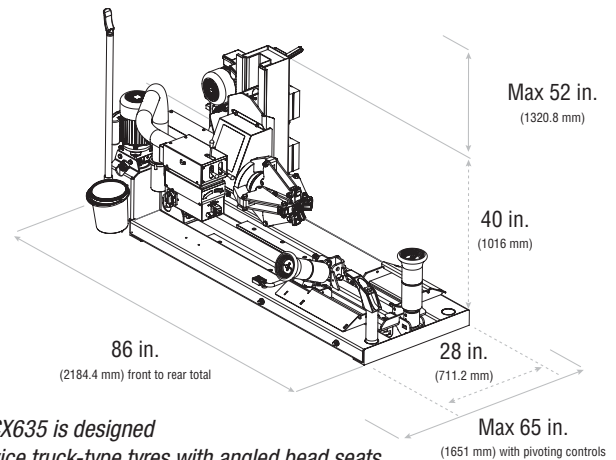


See TCX640/645HD for serviceability of implement and agricultural (loader) tyres.

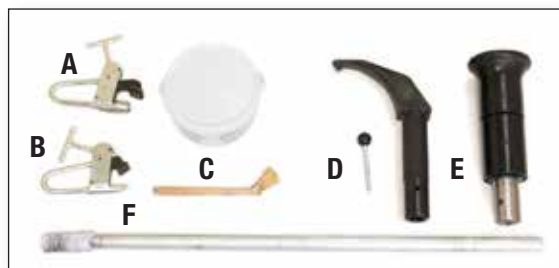
## TCX635HD Specifications

Heavy-duty tyre changer with 1-speed clamp rotation motor.

Models	Power req.
TCX635-2-1-6	230V, 1ph, 60Hz
TCX635-2-3-5	230V, 3ph, 50Hz
TCX635-2-3-6	230V, 3ph, 60Hz
TCX635-4-3-5	400V, 3ph, 50Hz
<b>Min. center hole diameter</b> 3.94 in.	
<b>Rim clamping capacity</b> 14.5-24.5 in.	
<b>Wheel assembly capacity</b>	
Max. diameter	58 in.
Max. width	27 in.
Max. weight	700 kg (1545 lbs.)
<b>Speed</b>	9 rpm clockwise & counter-clockwise
<b>Torque</b>	2203 Nm (1625 ft.-lbs.)
<b>Shipping weight</b>	658 kg (1450 lbs)



The TCX635 is designed to service truck-type tyres with angled bead seats. Passenger car and light-truck tyres cannot be serviced on this changer even if they are in the listed clamping range.



## TCX635HD Standard Accessories

<b>A</b>	<b>RP11-2306808</b>	Alloy wheel clamp
<b>B</b>	<b>RP11-2005957</b>	Steel wheel clamp
<b>C</b>	<b>RP11-8-11400034</b>	Mounting paste and brush
<b>D</b>	<b>RP11-2016652</b>	Hook and hook pin
<b>E</b>	<b>RP11-2016581</b>	Bead roller
<b>F</b>	<b>RP11-3006365</b>	Bead lever

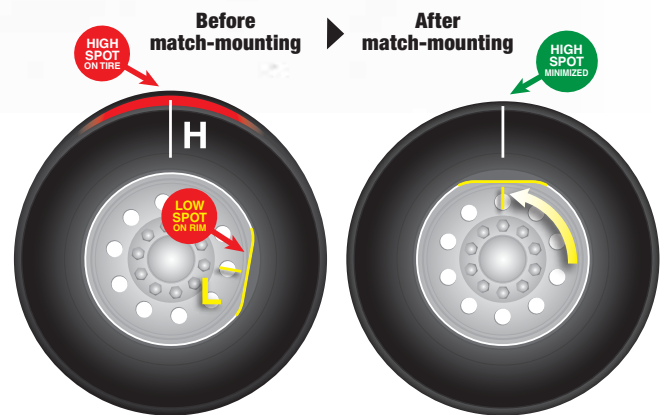
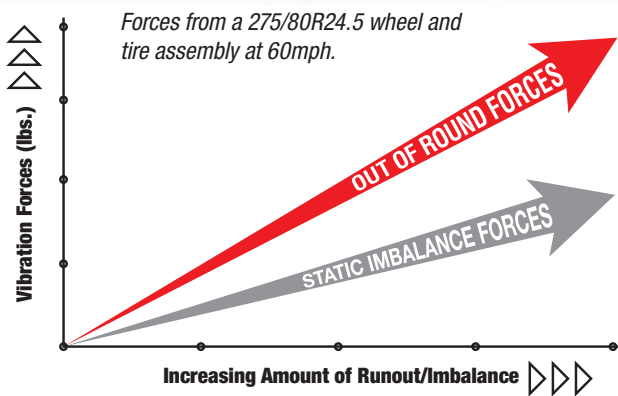
*optional accessories continued*

<b>RP11-8-12100156</b>	Alum. jaw covers (standard on TCX635PHD)
<b>RP11-2016908</b>	Disk roller

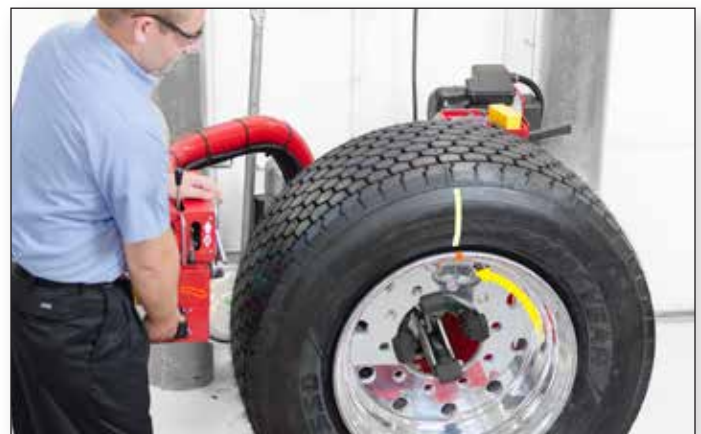
## TCX635HD Optional Accessories

<b>RP11-8-12100040</b>	Entry/exit ramps (standard on TCX635PHD)
<b>RP11-8-12100181</b>	Mounting lever (standard on TCX635PHD)

# TCX625HD Paired with ForceMatch® Makes Match-Mounting Easy!



- ✓ Match the high spot of tire to low spot of rim
- ✓ Makes assembly as round as possible



When combining ForceMatch® wheel balancer (left) with a heavy-duty tyre changer (right), their match-mounting capability achieves the smoothest possible ride.

# TCX630HD

Designed for mounting and demounting truck, bus, and heavy industrial vehicle tyres quickly, safely, and effortlessly, servicing rims with center grooves, ring rims, and with or without inner tubes



Hand Control



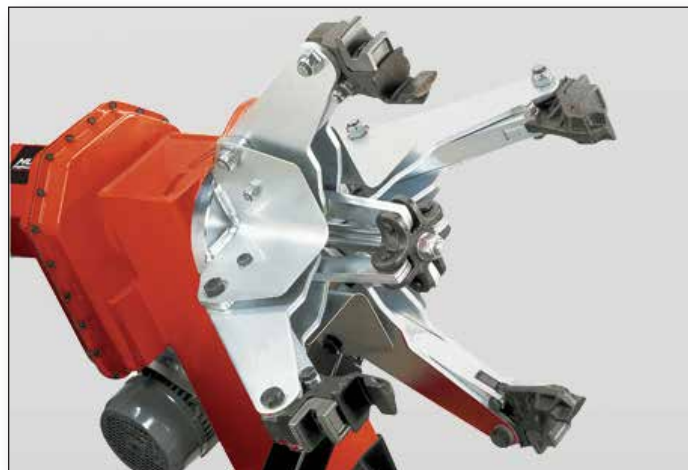
Foot Control

## Portable Controls

- ✓ Incorporates all the operating controls and permits the operator to choose the ideal working position
- ✓ Very sensitive and allow you to perform even small movements in the most precise way minimizing risk to the tire and rim
- ✓ Special safety protection prevents accidental use of the controls
- ✓ For maximum user safety, unit utilizes 24-volt low-tension electric power and is waterproof

## Bead Breaking Turning Arm

- ✓ Bead breaking and tire mounting/demounting tools are incorporated into a single patented turning arm
- ✓ Reduces need to constantly change tools
- ✓ Bead-breaking disk is mounted on special bushes enhancing operational smoothness and endurance



## Self-centering Clamping Spindle

- ✓ Hydraulic powered, two-way, all-wheel clamping spindle
- ✓ Can clamp any rim from 14 to 26 inches either through the center hole or on the inside
- ✓ Four clamping jaws grip any type of wheel in any position without slippage

## Moving Platform

- ✓ Makes handling of the tire simple and uncomplicated
- ✓ Wide range of the carriage movement
- ✓ Reduces tool positioning requirements which decreases work time

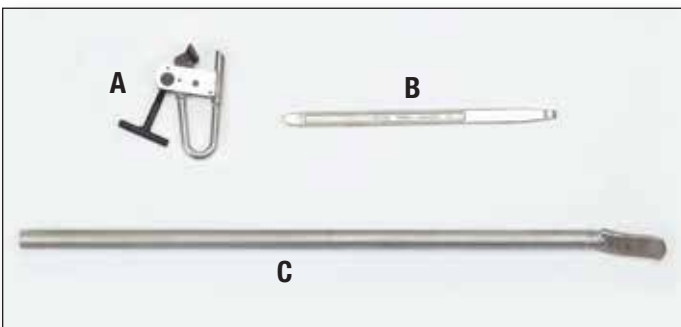
## Safety Mechanisms



- ✓ Non-return check valve on the self-centering clamp and a non-return check valve on the lifting cylinder — prevents wheel from falling if hydraulic circuit accidentally breaks down
- ✓ Mechanical device prevents tilting of the tool holding arm when the tool is removed
- ✓ Equipped with overload thermal switches to protect against overheating risk

## TCX630HD Standard Accessories

<b>A</b>	<b>RP11-2005957</b>	Steel wheel clamp
<b>B</b>	<b>RP11-2105954</b>	Standard lever
<b>C</b>	<b>RP11-3006365</b>	Bead lever



## TCX630HD Optional Accessories

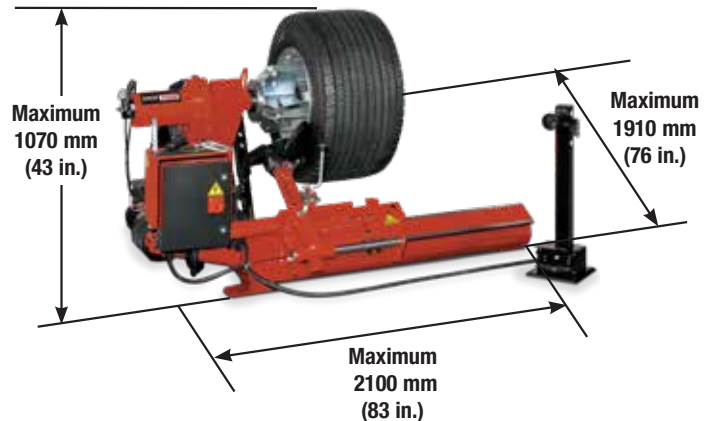
<b>RP11-2306040</b>	Tubeless Roller (truck and bus wheels)
<b>RP11-2105943</b>	Bead Guide Lever
<b>RP11-8-12100156</b>	Set of jaws for alloy rims
<b>RP11-2200040</b>	Pair of bead clamps
<b>RP11-2306808</b>	Pliers for alloy rims
<b>RP11-801237171</b>	Anti-rotation pin for alloy wheels

## TCX630HD Specifications

Heavy-duty tyre changer with 1-speed clamp rotation motor.

Models	Power req.
<b>TCX630-4-3-5</b>	400V-3ph-50hz
<b>TCX630-4-3-6</b>	400V-3ph-60hz
<b>TCX630-2-3-5</b>	230V-3ph-50hz
<b>TCX630-2-3-6</b>	230V-3ph-60hz

<b>Min. center hold clamping</b>	3.94 in.
<b>Rim clamping capacity</b>	14-26 in.
<b>Wheel assembly capacity</b>	
Max. diameter	63 in.
Max. width	30.7 in.
Max. weight	1200 kg (2646 lbs.)
<b>Speed</b>	4 rpm (single speed)
<b>Torque</b>	2400 Nm (1770 ft.-lbs.)
<b>Shipping Weight</b>	net: 600 kg (1323 lbs.) gross: 670 kg (1477 lbs.)



Some dimensions, capacities and specifications may vary depending on tire and wheel configurations.

# TCX640HD / TCX645HD

A versatile general purpose tire changer suited for over the road truck tires as well as implement and agricultural tires.



TCX645HD  
shown



## Tulip-Style Clamp

- ✓ Two-speed chuck rotation operates clockwise and counter-clockwise
- ✓ Standard clamping capacity of 14-46 in.



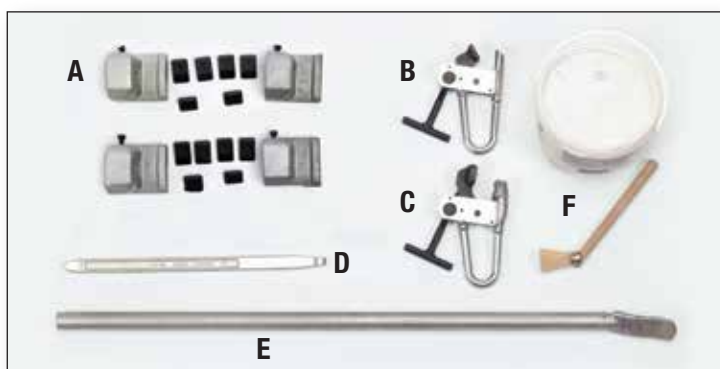
## Operator-Friendly

- ✓ Mobile pedestal control unit
- ✓ Safe and efficient



## Powerful and Efficient

- ✓ 1000-kg (2200-lb.) capacity spindle head lifts the wheel into position.
- ✓ Power pump runs only when the tyre changer is in use



## TCX640/645HD Standard Accessories

A	RP11-8-12100156	Alloy wheel clamping jaws
B	RP11-2005957	Steel wheel clamp
C	RP11-2306808	Alloy wheel clamp
D	RP11-2105954	Standard lever
E	RP11-3006365	Bead lever
F	RP11-8-11400034	Mounting paste and brush



## Productivity Features

### Wireless Pedestal Control (optional on TCX645HD)

- ✓ Eliminates tripping hazard
- ✓ Allows operator greater range of movement around tyre changer
- ✓ Safe and efficient



### Powered Shuttle Tool (standard on TCX645HD)



- ✓ Speeds service time
- ✓ Less operator effort

TCX640HD  
shown



## TCX640/645HD Optional Accessories

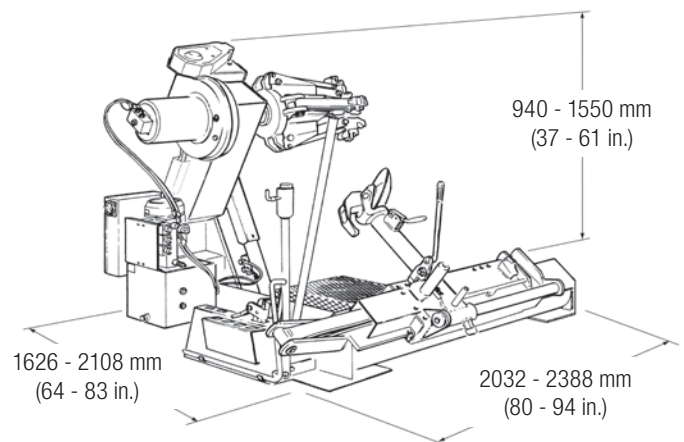
<b>RP11-2306040</b>	Tubeless roller
<b>RP11-8-12100155</b>	Clamp extensions to increase max. clamping size to 56 in.
<b>RP11-801251904</b>	Drop-center clamp
<b>RP11-2105943</b>	Bead guide bar
<b>RP11-801227195</b>	Aluminum wheel pliers
<b>RP11-801237171</b>	Anti-rotation pin for alloy wheels

## TCX640/645HD Specifications

Heavy-duty tyre changer with 2-speed clamp rotation motor.

Models	Power req.
<b>TCX640-4-3-5</b>	400V-3ph-50hz
<b>TCX640-4-3-6</b>	400V-3ph-60hz
<b>TCX640-2-3-5</b>	230V-3ph-50hz
<b>TCX640-2-3-6</b>	230V-3ph-60hz
<b>TCX645HD-235E</b>	230V-3ph-50hz
<b>TCX645HD-236E</b>	230V-3ph-60hz
<b>TCX645HD-435E</b>	400V-3ph-50hz

<b>Power rating</b>	
Pump motor	1.5 kW
Gearbox motor (2-speed)	1.3 - 1.8 kW
<b>Min. center hold clamping</b>	3.94 in.
<b>Rim clamping capacity</b>	14-46 in. or up to 56 in. with optional accessories
<b>Wheel assembly capacity</b>	
Max. diameter	90.5 in.
Max. width	42 in.
Max. weight	1000 kg (2200 lbs.)
<b>Speed</b>	
Low speed	4 rpm
High speed	8 rpm
<b>Torque</b>	
Low speed	4300 Nm (3172 ft.-lbs.)
High speed	3000 Nm (2213 ft.-lbs.)
<b>Shipping Weight</b>	net: 860 kg (1896 lbs.) gross: 940 kg (2073 lbs.)



# TCX660HD

*Large capacity for trucks, tractors, and other heavy-duty equipment*



- ✓ Self-centering, tulip-style standard clamping capacity of 14-56 in.
- ✓ Two-speed rotation operates clockwise and counter-clockwise



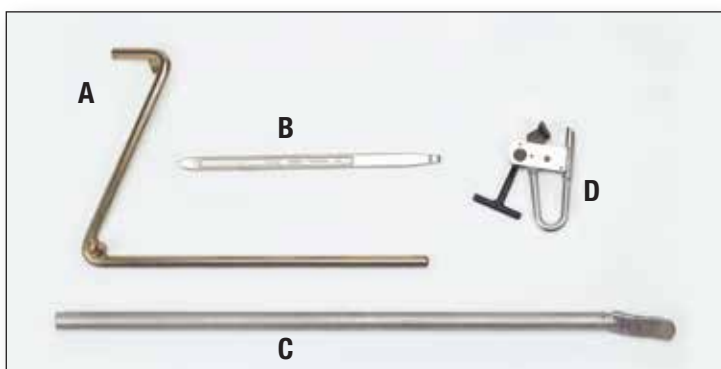
- ✓ Tulip-style clamp
- ✓ One- or two-speed chuck rotation operates clockwise and counter-clockwise



- ✓ Includes standard disk and hook tool head



- ✓ Operator-friendly mobile pedestal control unit
- ✓ Safe and efficient



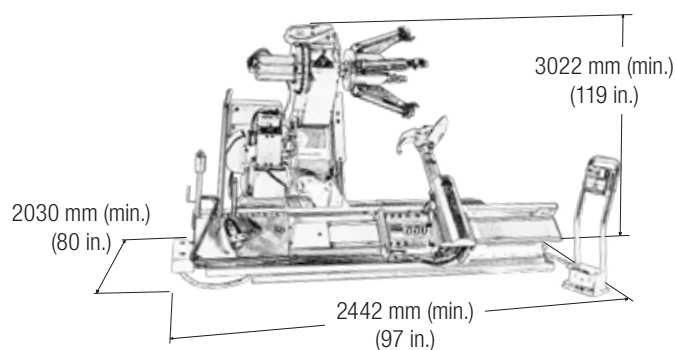
## TCX660HD Standard Accessories

A	RP11-2105943	Bead guide lever
B	RP11-2105954	Standard lever
C	RP11-3006365	Bead lever
D	RP11-2005957	Steel wheel clamp

# TCX660HD Specifications

Heavy-duty tyre changer with 2-speed clamp rotation motor.

Models	Power req.
TCX660-2-3-5	220V-3ph-50hz
TCX660-4-3-5	400V-3ph-50hz
<b>Power ratings</b>	
Pump motor	4.4-5.9 hp
Gearbox motor (2-speed)	2.5-3.4 hp
<b>Min. center hold clamping</b>	3.94 in.
<b>Rim clamping capacity</b>	14-56 in.
<b>Wheel assembly capacity</b>	
Max. diameter	102.4 in.
Max. width	59 in.
Max. weight	2500 kg (5511 lbs.)
<b>Speed</b>	5.25-10.5 rpm
Low speed	5.25 rpm
High speed	10.5 rpm
<b>Torque</b>	5150 Nm (3799 ft.-lbs.)
<b>Shipping Weight</b>	net: 1410 kg (3109 lbs.) gross: 1610 kg (3550 lbs.)



## TCX660HD Optional Accessories

<b>RP11-801280918</b>	Tubeless roller
<b>RP11-8-12100155</b>	Clamp extensions to increase max. clamping size to 56 in.
<b>RP11-801251904</b>	Drop-center clamp
<b>RP11-801227195</b>	Aluminum wheel pliers
<b>RP11-8-12100156</b>	Alloy wheel clamping jaws
<b>RP11-801237171</b>	Anti-rotation pin for alloy wheels

## Mount and Demount with Ease

*Tractor, implement, and other specialty wheel assemblies are serviced using the same tools and techniques on TCX630HD, TCX640/645HD, and TCX660HD models.*



Position the wheel pliers and roll the first bead onto the rim. Reposition the pliers and roll the second bead on.



Bead loosening and demounting can be as easy as rolling the tyre off of the rim in a single step.



The standard hook tool is used to mount and demount tubed and super single tyres or more difficult-to-handle wheel assemblies.

# Heavy-Duty Tyre Changer Family Overview



## TCX635HD

- ✓ Designed to service truck tyres with angled bead seats and functions close to the ground to keep heavy tyres at a safe height
- ✓ Innovative roller design provides fastest service for over-the-road truck tyres

### Rim clamping capacity

14.5-24.5 in.

### Wheel assembly capacity

Max. diameter	58 in.
Max. width	27 in.
Max. weight	700 kg (1545 lbs.)



## TCX630HD

- ✓ Mount and demount truck, bus, and heavy industrial vehicle tyres quickly, safely, and effortlessly
- ✓ Services rims with center grooves, ring rims, and with or without inner tubes

### Rim clamping capacity

14-26 in.

### Wheel assembly capacity

Max. diameter	63 in.
Max. width	30.7 in.
Max. weight	1200 kg (2645 lbs.)



## TCX640/645HD

- ✓ Tractor, implement, and other specialty wheel assemblies are serviced using the same tools and techniques
- ✓ Two-speed clamp rotation motor and hydraulic-powered carriage to shuttle wheel toward clamp

### Rim clamping capacity

14-56 in.\*

### Wheel assembly capacity

Max. diameter	90.5 in.
Max. width	42 in.
Max. weight	1000 kg (2200 lbs.)



## TCX660HD

- ✓ Largest capacity for trucks, tractors, and other heavy-duty equipment
- ✓ Self-centering, tulip-style clamp)
- ✓ One- or two-speed rotation operates clockwise and counter-clockwise

### Rim clamping capacity

14-56 in.

### Wheel assembly capacity

Max. diameter	102.4 in.
Max. width	59 in.
Max. weight	2500 kg (5511 lbs.)

\*with optional accessories

Because of continuing technological advancements, specifications, models and options are subject to change without notice.

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