

CARLISLE

Agricultural Semi-Pneumatic Tire & Wheel Assemblies





Carlisle Semi-Pneumatic Gauge & Closing Wheel Assemblies

Designed for the Rugged No-Till Field Conditions on Today's Farms

Carlisle Nylon/Steel Offset Gauge Wheel Assemblies



Product Code #	Description Assembly size in Inches	Metric Size mm
70664	3x16 Offset smooth crown gauge wheel tire on a nylon/steel wheel assembly (40mm bearing)	76.2x406.4
70668	3.5x16 Offset smooth crown gauge wheel tire on a nylon/steel wheel assembly (40mm bearing)	81.3x406.4
70598	4x16 Chevron tread gauge wheel tire on a nylon wheel assembly (40mm bearing)	101.6x406.4
70643	4x16 Smooth crown clincher base 800# ELR gauge wheel tire on a nylon wheel assembly (40mm bearing)	101.6x406.4
70594	4.5x16 Smooth crown offset gauge wheel tire on a nylon/steel wheel assembly (40mm bearing)	114.3x406.4
70641	4.5x16 Smooth crown offset gauge wheel tire on a black steel wheel assembly (40mm bearing)	114.3x406.4
70673	4.5x16 Smooth crown offset gauge wheel tire on nylon/steel wheel assembly with a 30mm cross drilled water pump bearing*	114.3x406.4
70675	4.5x16 Smooth crown offset gauge wheel tire on a nylon/steel wheel assembly with a 30mm groove style water pump bearing	114.3x406.4
70683	4.5x16 Smooth crown deep offset gauge wheel tire on a nylon/steel wheel assembly (40mm bearing)	114.3x406.4

All wheel assemblies have metric hardware and 40mm bearings are standard except where 30mm bearings are specified.

Features

- Nylon wheel half constructed with heavy duty ribs for extra strength
- Reinforced bearing area for longer bearing life
- Steel wheel on inside to provide adequate clearance for mounting arms & scraper brackets
- Fully demountable wheel assembly
- 11 bolt system with flanged locking nuts

Benefits

- Heavy duty ribs provides extra support under high load conditions
- Controlled press fit on bearings minimizes wheel wobble and increases bearing life field maintenance and down time
- 11 bolt system reduces fatigue on steel inner wheel half for longer service life





Carlisle Steel/Steel Gauge and Nylon Closing Wheel Assemblies



Product Code #	Description Assembly size in Inches	Metric Size mm
70744	2.5x16 Smooth crown offset gauge wheel tire on a steel wheel assembly (40mm bearing)	63.5x406.4
70697	4.5x16 Smooth crown offset gauge wheel tire on a 7 bolt black steel wheel with a 30mm groove style water pump bearing	114.3x406.4
70610	1x12 Smooth crown closing wheel tire on a nylon wheel assembly (40mm bearing)	25.4x304.8
70609	1x12 Smooth crown closing wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing	25.4x304.8
70612	1x12 Smooth crown closing wheel tire on a nylon wheel assembly with a 30mm cross drilled water pump bearing	25.4x304.8
70702	1x12 Smooth crown closing wheel tire on a heavy duty nylon 15 bolt wheel assembly (40mm bearing)	25.4x304.8

All wheel assemblies have metric hardware and 40mm bearings are standard except where 30mm bearings are specified.

Colors Available:



Black Yellow

Designed For:

Today's rugged Planter and Grain Drill Applications

All Carlisle Steel Wheels receive a powder coat paint finish which helps prevent rust and provides a brighter longer lasting finish.

Carlisle Closing Wheel Assemblies



Standard 6 Bolt

Heavy Duty 15 Bolt

Nylon 1 x 12 Closing Wheels are available in standard duty 6 bolt & heavy duty 15 bolt systems for more rugged applications

Features

- Reinforced face at bearing area
- Tighter bore tolerances
- Stronger bolt boss area
- Flanged bolt and lock nut system eliminates the imbedded nut system used on competitors wheels and prevents premature failure in this critical area
- Available in a variety of bearing types



Carlisle Press Wheel Assemblies

A variety of Nylon Press Wheel Assemblies for grain drill and planter applications with a variety of bearing types

Features

- Reinforced face at bore area
- Tighter tolerances at bearing pocket
- Heavier bolt boss area
- Premium hardware to insure proper torque and nylon compression
- Shallow sidewall nylon wheel design

Benefits

- Outstanding performance with superior seed to soil contact ratios
- Designed to meet today's rugged farming practices
- Shallow sidewall design helps eliminate soil "rooster tailing" for more consistent crop stands
- Environmentally friendly due to reduced aeration of herbicides, insecticides, and topsoil



(A)



(B)



(B)



(C)



(D)



Product Code #	Description Assembly size in Inches	Metric Size mm
70630	2x13 Smooth crown press wheel tire on a nylon wheel assembly (40mm bearing) <i>Photo (D)</i>	50.8x330.2
70640	2x13 Smooth crown press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing	50.8x330.2
70650	3x13 Single rib press wheel tire on a nylon wheel assembly (40mm bearing) <i>Photo (C)</i>	76.2x330.2
70661	3x13 Single rib press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing	76.2x330.2
70602	4x12 Chevron tread press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing"	101.6x304.8
70606	4x12 Dual rib press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing	101.6x304.8
70607	4x12 Concave press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing	101.6x304.8
70608	4x12 Smooth crown press wheel tire on a nylon wheel assembly with a 30mm groove style water pump bearing"	101.6x304.8
70619	4x12 Dual rib press wheel tire on a nylon wheel assembly (40mm bearing)	101.6x304.8
70621	4x12 Smooth crown press wheel tire on a nylon wheel assembly (40mm bearing)	101.6x304.8
70623	4x12 Concave press wheel tire on a nylon wheel assembly (40mm bearing) <i>Photo (B)</i>	101.6x304.8
70753	4x12 Chevron tread press wheel tire on a nylon wheel assembly (40mm bearing)	101.6x304.8
70629	6.5x12 Single rib traction press wheel tire on a nylon wheel assembly (40mm bearing) <i>Photo (A)</i>	165.1x304.8

6 Bolt Flanged Lock Nut system

All wheel assemblies have metric hardware and 40mm bearings are standard except where 30mm bearings are specified.



Carlisle is the World's Largest Manufacturer of Agricultural Semi-Pneumatic Tire & Wheel Assemblies

Product lines offered:

- Gauge Wheel Assemblies
- Press Wheel Assemblies
- Closing Wheel Assemblies
- Associated Parts (*Tires, Wheel Halves, & Bearings*)



Carlisle Jackson, TN Manufacturing Plant

The Carlisle Advantage

1. New State of the Art Technology

Carlisle Semi-Pneumatic products produced in our Jackson, TN manufacturing facility incorporates the latest most efficient semi pneumatic tire & nylon wheel production equipment available today. In addition, Carlisle has developed state of the art assembly stations to insure the serviceability of our nylon and **patented** nylon/steel wheel assemblies.

2. Premium Quality/Optimum Field Performance

Each Carlisle designed nylon wheel features a reinforced bore area on the wheel face and a precision bearing pocket to help eliminate failure, and yield longer field performance. Carlisle nylon wheels also feature increased radii on the support wheel ribs for added strength and durability in rugged conditions.

Carlisle's shallow sidewall nylon wheels help prevent "rooster tailing" of top soil, herbicides, and insecticides caused by conventional deep faced steel wheels. *Rooster tailing* occurs when dirt collects in deep dish steel wheels and is thrown on opposing rows causing delayed plant penetration, resulting in uneven crop stands and reduced yields. Carlisle's shallow sidewall wheels offer the best option for optimum performance.

Carlisle's Press, Gauge, and Closing Wheel tires feature superior tire compounds offering improved ozone protection, reduced stubble damage, and better tire flex capability for optimal shedding characteristics in sticky soil conditions.

3. Semi-Pneumatic Experience & Technical Support

With years of experience in the design and development of Semi-Pneumatic Tire and Wheel Assemblies, Carlisle assists customers in developing products to improve overall field performance. For technical support, please email tires@carlisle.com



Carlisle Tire Tread Guide

Standard Tread Designs Available to Fit Your Applications



Smooth Crown: Provides even pressure over seed bed.



Smooth Clincher Base: Additional grip provided by the clinching wheel to the undercut tire base. The clincher base on the tires and rims helps eliminate dirt infiltration and tire roll off.



V-Tread: When it is desired that the seed be placed deeper into the opening.



Offset: Designed for depth/gauge control. The offset tire lip shoulders helps prevent soil from building up on openers.



Chevron: For positive traction. This unique tread design moves a small amount of soil underneath the tire with each rotation to help eliminate bulldozing. Available with regular or clincher base.



Concave: This tire combines the most important features of the flat and crown treads. Its higher profile provides dependable good flex and cleaning capabilities while the center area provides relief for less pressure immediately above the seed.

Carlisle Semi-Pneumatic Associated Parts

Product Code #	Description	Metric Size mm	Product Code #	Description	Metric Size mm
Agricultural Bearings			General Line Tires*		
AG301K	40mm Double row ball bearing		541059	1X10 Smooth Crown Clincher base press wheel tire for steel wheel	25.4x254
AG302	30mm Groove style water pump bearing		541030	1x12 Smooth Crown Clincher base closing Wheel tire	25.4x304.8
AG303	30mm Cross drilled water pump bearing		541031	2X13 Smooth Crown Offset Gauge wheel tire	50.8x330.2
AG305	30mm Groove style water pump bearing mounted inside a 40mm 1.575 OD sleeve		541032	2X13 Smooth Crown Clincher Base press wheel tire for Nylon wheel	50.8x330.2
AG306	30mm Cross drilled water pump bearing mounted inside a 40mm 1.575 OD sleeve		545003	2X13 Smooth Crown standard base press wheel tire for steel or nylon wheel	50.8x330.2
AG602	30mm Cross drilled water pump bearing mounted inside a 1.582 OD sleeve for larger bore wheel halves		541113	2.5X16 Smooth Crown offset gauge wheel tire	63.5x406.4
AG603	30mm Cross drilled water pump bearing mounted inside a 1.582 OD sleeve for larger bore wheel halves		541035	3x13 Single Rib press wheel tire for nylon clincher base wheel	76.2x330.2
Agricultural Steel Wheels*			541049	3x13 Concave press wheel tire for nylon clincher base wheel	76.2x330.2
1971900014X	4x16 Steel wheel half 40mm (11 Bolt Hole Black) 1.570/1.575 bore ID	101.6x406.4	541050	3x16 Smooth Crown Offset gauge wheel tire	76.2x406.4
1997300014X	4x16 Steel wheel half (11 Bolt Hole Black) 1.585/1.590 bore ID for water pump bearing in a sleeve	101.6x406.4	541060	3.5x16 Smooth Crown Deep offset gauge wheel tire	79.0x406.4
1970400014X	4x16 Steel wheel half (7 Bolt Black) 1.585/1.590 bore ID for water pump bearing in a sleeve	101.6x406.4	256310412P	4x12 Chevron Tread press wheel tire for nylon clincher base wheel	101.6x304.8
1970600014X	4x12 Steel wheel half (7 Bolt Black) 1.181 bore ID for water pump bearing	101.6x304.8	541056	4X12 Smooth Crown press wheel tire	101.6x304.8
			541057	4X12 Concave press wheel tire	101.6x304.8
			541055	4x12 Dual Rib press wheel tire	101.6x304.8
			248770414	4x12 "V" Tread press wheel tire	101.6x304.8
			145190416	4x16 Chevron tread gauge wheel tire	101.6x406.4
			258560416	4x16 800# ELR Smooth crown tread clincher base gauge wheel tire for nylon clincher base wheel	114.3x406.4
			541034	4.5x16 Smooth Crown offset gauge wheel tire	114.3x406.4
			541054	4.5x16 Smooth Crown Deep offset gauge wheel tire	114.3x406.4
			541058	6.5x12 Rib Traction Clincher base press wheel tire for nylon clincher base wheel	165.1x304.8

*Assembly sizes in inches



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