

Safety Precautions Concerning Mounting, Demounting and Operation

WARNING

Tire and rim servicing can be dangerous, and should be performed only by trained personnel using proper tools and procedures. Failure to comply with these procedures may result in faulty positioning of the tire and/or rim, and cause the assembly to burst with explosive force, sufficient to cause serious physical injury or death.

Demounting

1. Before Demounting

- Always exhaust all air from a single tire and from both tires of a dual assembly prior to removing any wheel components such as nuts and rim clamps.
- A broken rim part under pressure can blow apart and cause serious injury or death.
- Make sure to remove valve core to exhaust all air from the tire. Remove both cores from a dual assembly. (When you remove the wheel lugs, if the tire is still under pressure, the assembly may fly apart.)
- Check the valve stem by running a piece of wire through the stem to make sure it is not plugged. (Foreign material may clog the valve stem during deflation or ice may form as the air leaves the tire, clogging the valve stem.)

2. During Demounting

- Demounting tools apply pressure to rim flanges to unseat tire beads, and keep your fingers clear. Always stand to one side and hold the tool with one hand when you apply hydraulic pressure. (If the tool slips off, it can fly with enough force to cause serious injury or death.)
- Do not use tools in the vicinity of the flange butt weld.

3. After Demounting

- Clean rims and repaint to stop detrimental effects of corrosion and facilitate checking and tire mounting. Be very careful to clean all dirt and rust from the lock ring and gutter. This is important to secure the lock ring in its proper position. A filter on the air inflation equipment to remove the moisture from the air line helps prevent corrosion. The filter should be checked periodically to see that it is working properly. (Parts must be clean for a proper fit – particularly the gutter section which holds the lock ring in its proper position.)

Mounting

1. Before Mounting

- Check rim components for cracks. Replace all cracked, badly worn, damaged and severely rusted components with new parts of the same size and type. When a components is in doubt, replace it. (Parts that are cracked, damage or excessively corroded are weakened. Bent or repaired parts may not engage properly.)
- Do not, under any circumstance, attempt to rework, weld, heat or braze any rim component that is cracked, broken or damaged. Replace with a new part that is not cracked, broken or damaged and which is of the same size and type. (Heating may weaken a part to extent that it is unable to withstand forces of inflation or operation.)
- Check type of rim and make sure all parts of such rim are being assembled properly. Follow instruction manual of rim or ask your distributor if you have any doubts (Mismatched parts may appear to fit, but when the tire is inflated they may fly apart with explosive force.)
- Mixing parts of one type rim with those of another is potentially dangerous. Always check rim with manufacturer for approval.
- Remove rust, dirt and other foreign matter from the rim surface, particularly on the bead seats and O-ring slot.
- Clean the inside of the tire.
- Make sure tube and flap are correct and not damaged for tube type tires.
- Always prepare a new O-ring for tubeless tires.

- Do not reinflate a tire that has been run flat or has been run at 80% or less of its recommended operating pressure, or when there is obvious or suspected damage to the tire or wheel components. (Components may have been damaged or dislocated during the time the tire was run flat or seriously underinflated.)

2. During Mounting and Inflation

- Do not try to seat rings or other components by hammering while tire is inflated or partially inflated.
- Double check to make sure all components are properly seated prior to inflation.
- Do not inflate tire before all components are properly in place. Place in safety cage or use a restraining device and inflate to approximately 0.35 kg/cm² (5 psi), recheck components for proper assembly. Observe that O-ring does not roll out of its groove. If assembly is not performed properly, deflate and correct. Never hammer on an inflated or partially inflated tire/rim assembly. If assembly is correct at approximately 0.35 kg/cm² (5 psi), continue to inflate fully to seat the tire beads.
- Never sit or stand in front of a tire and rim assembly that is being inflated. Always use a clip-on chuck with a sufficient length of hose to permit the person inflating the tire to stand clear of the potential trajectory of the wheel components, and use an in-line valve with gauge or a pressure regulator preset to a desired value when inflating a tire. When a tire is in a restraining device, do not lean any part of your body or equipment on or against the restraining device. (If parts are improperly installed they may fly apart with explosive force.)
- Never attempt to weld on an inflated tire/rim assembly or on a rim assembly with a deflated tire. (Heat from welding will cause a sudden, drastic increase in pressure, resulting in an explosion with the force of a bomb. Deflated tires can catch fire inside the air chamber.)

3. After Inflation

- Make sure no air leakage can be suspected, especially in tubeless tires.

Operation

- Do not use underinflated tires.
- Do not bleed or reduce air pressure to compensate for the increase in pressure resulting from operation.
- Do not use under-sized rims. Use recommended rim for the tire.
- Do not overload or overinflate tire/rim assemblies. Check for adequate rim strength if special operating conditions are required. (Excessive overload can cause damage to the tire and rim assembly.)
- Never run a vehicle on one tire of a dual assembly. (The carrying capacity of the single tire and rim is dangerously exceeded, and operating a vehicle in this manner can result in damage to the rim and tire or cause a tire fire.)
- Never use a tube in a tubeless tire/rim assembly where the rim is suspected of air leakage. (Loss of air pressure through fatigue cracks or other fractures in a tubeless rim warns you of a potential rim failure. This safety feature is lost when tubes are used with leaking rims. (Continued use may cause the rim to burst with explosive force.)
- Always inspect rims and wheels for damage during tire checks. (Early detection of potential rim failure may prevent serious injury.)
- Never add or remove an attachment or otherwise modify a rim (especially by heating, welding or brazing) unless the tire has been removed and approval has been received from the rim manufacturer. (Modification or heating of a rim or one of its parts may weaken it so that it cannot withstand forces created by inflation or operation.)
- Never mount bias tire and radial tire on the same axle. Follow vehicle manufacturer's recommendation.
- Never use tire under unintended service conditions for the tire. Please consult YOKOHAMA if vehicle operation requires specialized tire fitment.



Industrial Tire Catalogue

YOKOHAMA INDUSTRIAL TIRE



Forklift Deep Tread

Y-520

The Y520 is designed specially for forklifts. This tire provides long service life with deep tread and large ground contact area.

Y-520 Tube Type		
Inch	Tire Size	PR
8	5.00-8	8
	18X7-8	14
9	6.00-9	10
	21X8-9	10
	21X8-9	14
	6.50-10	10
10	7.00-12	12
15	5.50-15	8
	6.00-15	10
	7.00-15(IR)	10
	7.00-15(IR)	12
	8.25-15	12
	8.25-15	14
	28X9-15	12
	300-15	18
16	7.50-16	12

(IR):INTERIM (Flat Base Rim). Please apply 5.50S or 6.00S rim for 7.00-15(IR) tire, not apply SDC rim such as 5.50F rim.

STEEL BREAKER

Y-520 Tube Type		
Inch	Tire Size	PR
8	5.00-8	8
9	6.00-9	10
10	6.50-10	10
12	7.00-12	12
15	5.50-15	8
	6.00-15	10
	8.25-15	14
	28X9-15	12
16	7.50-16	12

Steel Breakers
The steel breaker tire has steel cord breakers that give it very high cut resistance.



Forklift Deep Tread

Y-520A

The Y520A is designed of smaller diameter than the Y520 with deep tread.

Y-520A Tube Type		
Inch	Tire Size	PR
10	6.50-10	10
	6.50-10	12
12	4.50-12	8
	7.00-12	12
15	8.25-15	18
	28X8-15	12
	250-15	16
	32X12.1-15	20

STEEL BREAKER

Y-520A Tube Type		
Inch	Tire Size	PR
15	8.25-15	16



Forklift

Y-20

The Y20 is designed specially for forklifts and special duty industrial vehicles. This tire provides well-balanced performance with good durability, braking and traction.

Y-20 Tube Type		
Inch	Tire Size	PR
8	4.00-8	6
	5.00-8	8
9	5.00-9	8
	6.00-9	10
10	6.50-10	10
	4.50-12	8
12	7.00-12	12
	5.50-15	8
15	6.00-15	10
	6.00-15	10
	8.25-15	12
	8.25-15	14
16	7.50-16	8
	9.00-16	14
20	8.25-20	12
	8.25-20	14
	9.00-20	12
	9.00-20	14
	10.00-20	14
	10.00-20	16
	11.00-20	14
	11.00-20	16
	12.00-20	16
	12.00-20	18
24	13.00-20	20
	12.00-24	16



Battery Forklift

Y-555

The Y555 is designed specially for battery forklifts. This tire provides good operating efficiency with low rolling resistance by rib-lug pattern and low rolling resistance tread compound.

Y-555 Tube Type		
Inch	Tire Size	PR
8	5.00-8	8
	5.00-8	10
9	6.00-9	10
	21X8-9	10
	21X8-9	14
	6.50-10	10
12	7.00-12	12



Forklift Snow

Y-733

The Y733 is designed specially for forklifts. This tire provides excellent steering stability on snowy ground surface with good tread wear resistance and less uneven tread wear.

Y-733 Tube Type		
Inch	Tire Size	PR
8	5.00-8	8
	6.00-9	10
10	6.50-10	10
	5.50-15	8
15	6.00-15	10



Forklift Snow

Y-420

The Y420 is designed specially for forklifts. This tire provides excellent steering stability on snowy ground surface with good traction and braking performance and good side slip resistance.

Y-420 Tube Type		
Inch	Tire Size	PR
12	7.00-12	12
15	8.25-15	12
16	9.00-16	14



Towing Tractor Snow

Y-538

The Y538 is designed specially for towing tractors. This tire provides excellent steering stability on snowy ground surface with good traction performance and good abrasion resistance.

Y-538 Tubeless Type		
Inch	Tire Size	PR
25	16.00-25	32



Towing Tractor

Y-553

The Y553 is designed specially for towing tractors. This tire provides excellent steering stability with good side slip resistance and good tread wear resistance.

Y-553 Tube Type		
Inch	Tire Size	PR
15	28X8-15	12

Y-553 Tubeless Type		
Inch	Tire Size	PR
25	16.00-25	32



Towing Tractor Regroovable

Y-573

The Y573 is designed specially for towing tractors with regroovable tread. This tire provides excellent wear resistance and good traction performance.

Y-573 Tubeless Type		
Inch	Tire Size	PR
25	17.5-25	36



Forklift, Terminal Tractor Radial IND-4

RL43

The RL43 is designed for use by forklift and terminal tractors. This tire provides better stability in heavy load operations.

RL43 Tube Type				
Inch	Tire Size	Star Mark	Load Index	Speed Symbol
24	14.00R24	★★★	186	A5



Straddle Carrier Radial IND-4

RR41

The RR41 is designed for yard service vehicles especially straddle carrier.

RR41 Tubeless Type				
Inch	Tire Size	Star Mark	Load Index	Speed Symbol
25	16.00R25	★★★	203	A5



Towing Tractor, Straddle Carrier, Transfer Crane, Forklift IND-3

Y-67

Designed for towing tractors at airports and straddle carriers that require better traction than smooth tread tire.

Y-67 Tube Type		
Inch	Tire Size	PR
20	11.00-20	16
	11.00-20	18
	12.00-20	18
	12.00-20	20
24	12.00-24	20
	13.00-24	18
	13.00-24	20
	14.00-24	20
	14.00-24	24
	14.00-24	28
25	14.00-25	24
	16.00-25	28
	18.00-25	28
	18.00-25	32
	18.00-25	36

Y-67 Tubeless Type		
Inch	Tire Size	PR
20	44X18-20	36
	50X20-20	36
24	14.00-24	28
	14.00-25	20
25	14.00-25	24
	14.00-25	28
	16.00-25	28
	16.00-25	32
	16.00-25	36
	18.00-25	32
	18.00-25	36
	18.00-25	40
	21.00-25	36
	21.00-25	40
	23.5-25	36
	24.00-29	36
29	24.00-29	42
	29.5-29	40
	33.25-29	38
	21.00-35	40
35	24.00-35	42
	33.25-35	44
39	37.5-39	60

STEEL BREAKER

Y-67 Tube Type		
Inch	Tire Size	PR
20	11.00-20	16

Y-67 Tubeless Type		
Inch	Tire Size	PR
25	14.00-25	24



Yard Service Industrial Vehicle at steel mills IND-3

Y-532

The Y532 is designed for yard service vehicles at steel mills. This tire provides excellent steering stability and minimises uneven tread wear.

Y-532 Tube Type		
Inch	Tire Size	PR
20	10.00-20	14
	12.00-20	18
	13.00-20	20
	14.00-24	24

Y-532 Tubeless Type		
Inch	Tire Size	PR
25	14.00-25	24

STEEL BREAKER

Y-532 Tube Type		
Inch	Tire Size	PR
20	12.00-20	20
	13.00-20	20



Yard Service Industrial Vehicle IND-3

Y-543

The 543 is designed for yard service vehicle. This tire provides excellent abrasion resistance.

Y-543 Tube Type		
Inch	Tire Size	PR
20	12.00-20	18
	12.00-20	20
24	12.00-24	18
	12.00-24	20
	14.00-24	20
	14.00-24	24
	14.00-24	28



Industrial Vehicle IND-3

Y-38

This tire provides excellent cut resistance and good traction performance.

Y-38 Tube Type		
Inch	Tire Size	PR
20	8.25-20	12



Container Handler, Forklift, Log Stacker, Reach Stacker IND-4

Y-523

Designed with deep tread for abrasive conditions.

Y-523 Tubeless Type		
Inch	Tire Size	PR
25	16.00-25	36
	18.00-25	32
	18.00-25	36
	18.00-25	40
33	18.00-33	36
	18.00-33	40
35	24.00-35	42
49	27.00-49	42
51	33.00-51	58
	36.00-51	58
57	40.00-57	68
	40.00-57	76

STEEL BREAKER

Y-523 Tubeless Type		
Inch	Tire Size	PR
33	18.00-33	36
	18.00-33	40
57	40.00-57	68



Container Handler, Reach Stacker IND-3, 4

Y-505

The Y505 is designed specially for reach stackers and container handlers. This tire provides excellent durability performance with good tread wear resistance and less uneven tread wear.

Y-505 Tube Type			
Inch	Tire Size	PR	TRA Code
24	12.00-24	20	IND-3

Y-505 Tubeless Type			
Inch	Tire Size	PR	TRA Code
25	18.00-25	40	IND-4

*Not available yet and will be informed when available.



Container Handler, Forklift, Log Handler, Towing Tractor IND-4

Y-69

The Y69 is suited for vehicles such as straddle carriers for container handling and towing tractors used at airports. This tire has a large tread width and ground contact area for good traction on paved ground surfaces.

Y-69 Tube Type		
Inch	Tire Size	PR
25	18.00-25	36

Y-69 Tubeless Type

Inch	Tire Size	PR
25	18.00-25	28
	18.00-25	32
	18.00-25	36
	18.00-25	40
	21.00-25	40
	21.00-35	42



Straddle Carrier, Towing Tractor IND-3

Y-69PS

The Y69PS is suited for vehicles such as straddle carriers for container handling and towing tractors used at airports. This tire has a large tread width and ground contact area for good traction on paved ground surfaces.

Y-69PS		Tube Type
Inch	Tire Size	PR
25	16.00-25	28
	16.00-25	32