



**FONTAINE®**  
FIFTH WHEEL

# APPLICATION GUIDE

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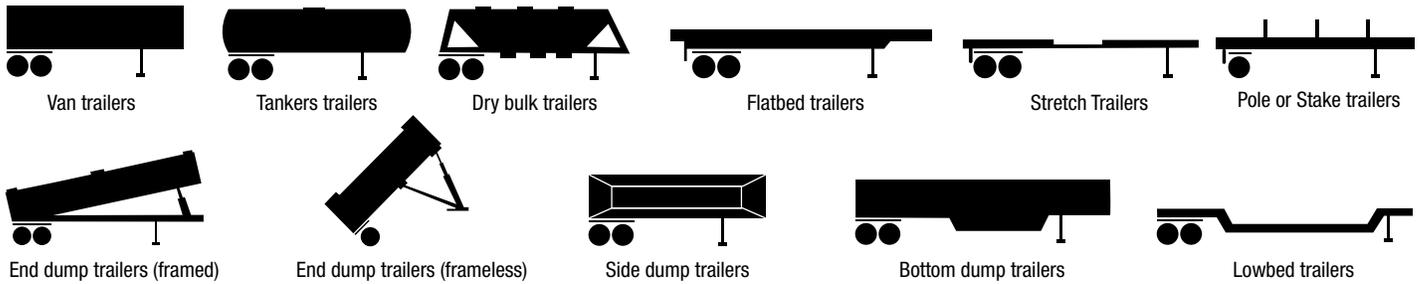
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# Important notes

## Top plate selection notes:

- For the Fontaine Top Plate selection guide see page 5. Air activated release styles are available on the No-Slack<sup>®</sup> 6000, 7000, 7000CC series top plates.

## Mount selection notes:

- See page 6 when choosing a Fontaine sliding mount or stationary mount for your top plate and application.
  - Stationary mount fifth wheels (plate or angle mounts) are an option and ideal for applications where the trailer kingpin position, kingpin weight, axle loading and vehicle length are constant or consistent when loaded. Stationary mount fifth wheels are usually lighter than sliding mount fifth wheels.
  - A sliding mount gives the owner more options. You can transfer weight between tractor axles, handle trailers with different kingpin settings, and vary vehicle combination lengths. A sliding mount fifth wheel also provides additional maneuverability, accommodates trailers with short landing gear clearance and allows the driver to extend the unit for maximum comfort when weight allows. If you choose a sliding mount, Fontaine offers a wide selection of slide lengths in both air activated and manual release styles. Air release is recommended for applications that require frequent adjustment. The flexibility of sliding mount fifth wheels should increase the resale value of your truck.

## Important application notes:

- If any single restriction factor within your application is surpassed within a given duty level, **the next duty level must be selected.**
- For more information on standard, moderate, heavy and severe duty, please review the **duty class restrictions** on page 4.
- When selecting a fifth wheel, if the application or vehicle usage places the maximum capacity on a certain fifth wheel, then the selection of a fifth wheel with a higher capacity is advised. For example, a tractor that is at a maximum vertical load of 50,000 lbs in a moderate duty application should be using a fifth wheel with a vertical load capacity of 55,000 lbs or greater. This additional capacity should give better service life over a longer period of time.

## Special applications:

- All logging, mining and oil field applications are considered severe duty. **Do not select assemblies in the standard, moderate or heavy levels when a special application is designated.**



### Minimum static load warning:

- Minimum static load warning!!! The trailer that is attached to the fifth wheel should impose a consistent vertical load. Repeated negative loading (trying to pull the fifth wheel off of the brackets with the kingpin) is not allowed. A minimum static load applied to the fifth wheel through the trailer is 10% of the gross trailer weight. See the load rating for the specific fifth wheel for maximum vertical load values.

Important: Contact your OEM or Fontaine Fifth Wheel for more information on the right fifth wheel for your application. Please refer to the Fontaine Fifth Wheel warranty statement for important warranty information. Selecting assemblies in conflict with this application guide without prior written approval from Fontaine engineering voids all warranties.

# Duty Class Restrictions



With the Fontaine Fifth Wheel complete product line you can easily select the perfect fifth wheel for your application. We offer top plates and mounting options in a wide variety of sizes to handle even the most demanding applications.

To specify the right fifth wheel for your application two factors must be considered: load capacity and service conditions.

“Weight” refers to the amount of weight that a fifth wheel can handle. “Road type” refers to the operating environment and the type of equipment used in an application. “Travel type” refers to mileage between stops.

You don’t choose a top plate based on “weight” only. Consider service conditions because a heavy load pulled on a paved road places less stress on a fifth wheel than a lighter load pulled in severe off-highway conditions. See application charts (pages 7-10).

The duty class restriction chart, top plate styles chart (page 5), and mounting options chart (page 6) can be used as a guide to help you select the right fifth wheel.

If you need further assistance contact Fontaine Fifth Wheel at: 800-874-9780.



On-line selection guide is available. Scan code or go to: [www.fifthwheel.com](http://www.fifthwheel.com)  
Choose “Support” then choose “Spec My Truck”

Standard Duty	
<b>Weight:</b>	Less than 95,000 lbs (43,000 kgs) gross combination weight (GCW)
<b>Road type:</b>	100% on-highway application on maintained concrete or asphalt roads
<b>Travel type:</b>	More than 30 miles between each couple
<b>Axle limitation:</b>	Maximum number of towed axles equals 3

Moderate Duty	
<b>Weight:</b>	Less than 115,000 lbs (52,000 kgs) gross combination weight (GCW)
<b>Road type:</b>	Less than 10% off-highway application on maintained concrete, asphalt, gravel or crushed rock roads
<b>Travel type:</b>	No minimum mileage between couples
<b>Axle limitation:</b>	Maximum number of towed axles equals 4

Heavy Duty	
<b>Weight:</b>	Less than 140,000 lbs. (63,500 kgs) gross combination weight (GCW)"
<b>Road type:</b>	Less than 10% off-highway application on maintained concrete, asphalt, gravel or crushed rock roads
<b>Travel type:</b>	No minimum mileage between couples.
<b>Axle limitation:</b>	No axle limitations

Severe Duty	
<b>Weight:</b>	More than 115,000 lbs. (52,000 kgs) gross combination weight (GCW)
<b>Road type:</b>	Any off-highway application on all road types including non-maintained roads
<b>Travel type:</b>	No minimum mileage between couples
<b>Axle limitation:</b>	No axle limitations
<b>Special applications:</b>	All logging, mining and oil field applications fall into this category regardless of anticipated weight, road type or number of axles

# Choosing the right fifth Wheel – top plate styles

## No-Slack® 6000 series

50,000 pounds vertical load.

150,000 pounds drawbar pull.

The new Fontaine 6000 Series Fifth Wheel cuts weight without cutting performance or load rating. The proven design was made possible by Finite Element Analysis technology and strategic placement of high strength alloy steel. This lighter 6000 Series No-Slack® fifth wheel combined with NWB mounting bracket is approximately 60 lbs lighter with no reduction in load ratings. The new 6000 features the same legendary No-Slack® locking technology. Lock automatically self-adjusts to the trailer kingpin for a smoother ride, lower maintenance costs and longer component life. Rated for standard to moderate duty on-highway use only, including tankers. Some restrictions may apply, please see application charts on pages 7-9.



## No-Slack® 7000 series

55,000 pounds vertical load.

150,000 pounds drawbar pull.

The 7000 series offers all the benefits of our 6000 series, but in a cast design rather than pressed steel. It features the self-adjusting No-Slack® locking mechanism. The 7000 series is rated for standard to heavy duty applications. Some restrictions may apply, please see application charts on pages 7-9.



## No-Slack® 7000CC series Clean Connect™

55,000 pounds vertical load.

150,000 pounds drawbar pull.

The 7000CC series Clean-Connect™ offers all the benefits of the 7000 series fifth wheels plus the added benefit of a grease free top plate surface. With Clean-Connect™ technology the fifth wheel no longer requires grease to lubricate between the top plate surface and the trailer coupling plate. This eliminates the labor costs, materials and downtime associated with greasing the top plate surface. The 7000CC series is rated for standard to heavy duty applications. Some restrictions may apply, please see application charts on pages 7-9.



## No-Slack® H7 Heavy Duty Series

**Rating on AWB mounts**    **Rating on PS5 mounts**

62,500 lbs vertical load

70,000 lbs vertical load

150,000 pounds drawbar

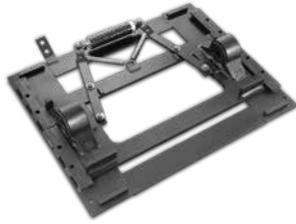
200,000 pounds drawbar pull

The H7 Series offers all the benefits of No-Slack® technology in a steel reinforced cast housing. This rugged workhorse is rated for standard to severe duty applications. Some restrictions may apply, please see application charts on pages 7-9. It's also available as a blocked fifth wheel to accommodate frameless dump applications.



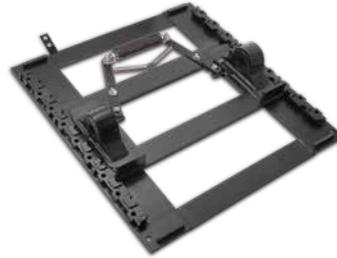
## Fontaine Air Slide Mounting Brackets

**NWB**



**Standard duty air slide**  
Model 6NWB (6000 top plate)

**LWB**



**Moderate duty air slide**  
Model 6LWB (6000 top plate)  
Model 7LWB (7000 top plate)  
Model CLWB (7000CC top plate)

**AWB**



**Heavy duty air slide**  
Model 7AWB (7000 top plate)  
Model H7AWB (H7 top plate)

**Blocked (no-tilt) AWB**



**Blocked heavy duty air slide**  
Model BLH7AWB (H7 top plate)

## Fontaine Stationary Mounts

**FMA**



**Brackets for converter dollies**  
Model 6FMA (6000 top plate)  
Model 7FMA (7000 top plate)  
Model CFMA (7000CC top plate)

**PML**



**Plate mount light**  
Model 6PML (6000 top plate)  
Model 7PML (7000 top plate)  
Model CPML (7000CC top plate)

**PS5**



**Reinforced stationary short plate**  
Model H7PS5 (7000 top plate)  
Model H7PS5 (H7 top plate)

**Blocked (no-tilt) PS5**



**Blocked reinforced stationary short plate**  
Model BLH7PS5 (H7 top plate)

# Standard Duty

<b>Weight:</b>	Less than 95,000 lbs (43,000 kgs) gross combination weight (GCW) <sup>1</sup>
<b>Road type:</b>	100% on-highway <sup>2</sup> 0% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type:</b>	More than 30 miles between each couple
<b>Axle limitation:</b>	Maximum number of towed axles equals 3

<sup>1</sup> GCW = gross combined weight of tractor, trailer, and maximum payload

<sup>2</sup> On-highway = maintained asphalt or concrete roads only

<sup>3</sup> Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

<sup>4</sup> Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate		6000		7000		7000CC	
<b>Maximum Vertical Load</b>		50,000 lbs. (22,700 kg.)		55,000 lbs. (25,000 kg.)		55,000 lbs. (25,000 kg.)	
<b>Maximum Drawbar Pull</b>		150,000 lbs. (68,000 kg.)		150,000 lbs. (68,000 kg.)		150,000 lbs. (68,000 kg.)	
<b>Mounting Style</b>		<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>
<b>Trailer Type</b>							
Van Trailers 		PML	NWB	PML	NWB	PML	NWB
Tanker & Dry Bulk Trailers 		PML	NWB	PML	NWB	PML	NWB
Flatbed, Stretch & Pole Trailers 		PML	NWB	PML	NWB	PML	NWB
End Dump (Framed Trailers) 		SEE MODERATE, HEAVY OR SEVERE DUTY					
End Dump (Frameless) Trailers 							
Side Dump Trailers 							
Bottom Dump Trailers 							
Lowboy Trailers 		–	–	PML	NWB	PML	NWB
<b>B-Trains</b>							
Van, Flatbed & Stretch Trailers 		PML	NWB	PML	NWB	PML	NWB
Tank & Dry Bulk Trailers 		PML	NWB	PML	NWB	PML	NWB
End, Bottom Dump Trailers 		SEE MODERATE, HEAVY OR SEVERE DUTY					
Side Dump Trailers 							
<b>Conversion Trailers</b>							
Converter Dollies 		FMA	–	FMA	–	FMA	–

# Moderate Duty

<b>Weight:</b>	Less than 115,000 lbs (52,000 kgs) gross combination weight (GCW) <sup>1</sup>
<b>Road type:</b>	90% on-highway <sup>2</sup> 10% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type:</b>	No minimum mileage between couples
<b>Axle limitation:</b>	Maximum number of towed axles equals 4

<sup>1</sup> GCW = gross combined weight of tractor, trailer, and maximum payload

<sup>2</sup> On-highway = maintained asphalt or concrete roads only

<sup>3</sup> Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

<sup>4</sup> Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate	6000		7000		7000CC		
<b>Maximum Vertical Load</b>	50,000 lbs. (22,700 kg.)		55,000 lbs. (25,000 kg.)		55,000 lbs. (25,000 kg.)		
<b>Maximum Drawbar Pull</b>	150,000 lbs. (68,000 kg.)		150,000 lbs. (68,000 kg.)		150,000 lbs. (68,000 kg.)		
<b>Mounting Style</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	
<b>Trailer Type</b>							
Van Trailers 	PML	LWB	PML	LWB	PML	LWB	
Tanker & Dry Bulk Trailers 	PML	LWB	PML	LWB	PML	LWB	
Flatbed, Stretch & Pole Trailers 	PML	LWB	PML	LWB	PML	LWB	
End Dump (Framed Trailers) 	—	—	PML	LWB	PML	LWB	
End Dump (Frameless) Trailers 	SEE HEAVY OR SEVERE DUTY						
Side Dump Trailers 							
Bottom Dump Trailers 	—	—	PML	LWB	PML	LWB	
Lowboy Trailers 	—	—	PML	AWB	PML	AWB	
<b>B-Trains</b>							
Van, Flatbed & Stretch Trailers 	PML	LWB	PML	LWB	PML	LWB	
Tank & Dry Bulk Trailers 	PML	LWB	PML	LWB	PML	LWB	
End, Bottom Dump Trailers 	—	—	PML	LWB	PML	LWB	
Side Dump Trailers 	—	—	—	—	—	—	
<b>Conversion Trailers</b>							
Converter Dollies 	FMA	—	FMA	—	FMA	—	

# Heavy Duty

<b>Weight:</b>	Less than 140,000 lbs. (63,500 kgs) gross combination weight (GCW) <sup>1</sup>
<b>Road type:</b>	90% on-highway <sup>2</sup> 10% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type:</b>	No minimum mileage between couples
<b>Axle limitation:</b>	No axle limitations

<sup>1</sup> GCW = gross combined weight of tractor, trailer, and maximum payload

<sup>2</sup> On-highway = maintained asphalt or concrete roads only

<sup>3</sup> Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

<sup>4</sup> Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate		7000		7000CC		H7	
<b>Maximum Vertical Load</b>		55,000 lbs. (25,000 kg.)		55,000 lbs. (25,000 kg.)		70,000 lbs. (31,750 kg.)	62,500 lbs. (28,350 kg.)
<b>Maximum Drawbar Pull</b>		150,000 lbs. (68,000 kg.)		150,000 lbs. (68,000 kg.)		200,000 lbs. (90,700 kg.)	150,000 lbs. (68,000 kg.)
<b>Mounting Style</b>		<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>
<b>Trailer Type</b>							
Van Trailers 		PS5	AWB	PS5	AWB	PS5	AWB
Tanker & Dry Bulk Trailers 		PS5	AWB	PS5	AWB	PS5	AWB
Flatbed, Stretch & Pole Trailers 		PS5	AWB	PS5	AWB	PS5	AWB
End Dump (Framed Trailers) 		—	—	—	—	PS5	AWB
End Dump (Frameless) Trailers 		—	—	—	—	Blocked PS5	Blocked AWB
Side Dump Trailers 		—	—	—	—	PS5	AWB
Bottom Dump Trailers 		—	—	—	—	PS5	AWB
Lowboy Trailers 		—	—	—	—	PS5	AWB
<b>B-Trains</b>							
Van, Flatbed & Stretch Trailers 		PS5	AWB	PS5	AWB	PS5	AWB
Tank & Dry Bulk Trailers 		PS5	AWB	PS5	AWB	PS5	AWB
End, Bottom Dump Trailers 		—	—	—	—	PS5	AWB
Side Dump Trailers 		—	—	—	—	PS5	AWB

# Severe Duty

<b>Weight:</b>	More than 115,000 lbs. (52,000 kgs) gross combination weight (GCW) <sup>1</sup>
<b>Road type:</b>	Any off-highway <sup>2</sup> application on all road types including non-maintained roads
<b>Travel type:</b>	No minimum mileage between couples
<b>Axle limitation:</b>	No axle limitations
<b>Special applications:</b>	All logging, mining and oil field applications fall into this category regardless of anticipated weight, road type or number of axles

<sup>1</sup> GCW = gross combined weight of tractor, trailer, and maximum payload

<sup>2</sup> Off-highway = Poorly and un-maintained Roadways - No Restrictions



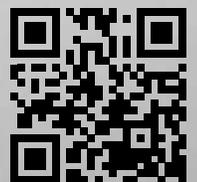
Top Plate	H7	
<b>Maximum Vertical Load</b>	70,000 lbs. (31,750 kg.)	62,500 lbs. (28,350 kg.)
<b>Maximum Drawbar Pull</b>	200,000 lbs. (90,700 kg.)	150,000 lbs. (68,000 kg)
<b>Mounting Style</b>	<b>Stationary</b>	<b>Sliding</b>
<b>Trailer Type</b>		
Van Trailers 	PS5	AWB
Tanker & Dry Bulk Trailers 	PS5	AWB
Flatbed, Stretch & Pole Trailers 	PS5	AWB
End Dump (Framed Trailers) 	PS5	AWB
End Dump (Frameless) Trailers 	Blocked PS5	Blocked AWB
Side Dump Trailers 	PS5	AWB
Bottom Dump Trailers 	PS5	AWB
Lowboy Trailers 	PS5	AWB
<b>B-Trains</b>		
Van, Flatbed & Stretch Trailers 	PS5	AWB
Tank & Dry Bulk Trailers 	PS5	AWB
End, Bottom Dump Trailers 	PS5	AWB
Side Dump Trailers 	PS5	AWB

# Get the APP!

Everything you need to know about Fontaine fifth wheels ...  
at your fingertips.



[www.fifthwheel.com/app](http://www.fifthwheel.com/app)



Scan or go to  
[fifthwheel.com/app](http://fifthwheel.com/app)

# Helpful Information

## What is the warranty coverage?

Fontaine's warranty is for five years covering parts for material and workmanship. There are a few exceptions. See our existing warranty statement or call us at 800-874-9780 for more information. Warranty document is at [www.fifthwheel.com](http://www.fifthwheel.com) (Choose "Support" and then "Warranty").

## What is the recommended maintenance procedure?

Recommended maintenance is at least every 90 days or 30,000 miles. All recommended practices are located in the Fifth Wheel Handbook supplied with every unit shipped or may be obtained at [www.fifthwheel.com](http://www.fifthwheel.com) (Choose "Support" and then "Helpful information" LT-001 Instruction Handbook).

## What if my fifth wheel is hard to open?

Make sure a pre-service lubrication has been completed before unit is put in service. Make sure the driver is backing tight against the trailer after setting the trailer brakes. This will reduce any tension or pressure on the locking jaw and wedge. **DO NOT dump chassis air bags before uncoupling from trailer.** Make sure the wedge-stop rod is properly set to the recommended gap. Make sure the truck and trailer are not in a bind or twist (No daylight between top plate and trailer plate). Check for any lower mount obstructions or interference underneath the wheel. Check for damage to the fifth wheel.

## Can I change the height of my fifth wheel?

Changing fifth wheel height can be as simple as changing the brackets. It all depends on the type of application, style of fifth wheel and the type of existing base. These factors will determine just how high or low you can go.

## How much wear is allowed for a kingpin?

According to SAE J2228 - Kingpin Wear Limits, if the upper shoulder which is 2.875" new or the smaller 2" diameter is worn more than .125 (1/8)" the kingpin should be replaced.

## Does Fontaine provide a kingpin tool?

Yes! Go to "[www.fifthwheel.com/wtb](http://www.fifthwheel.com/wtb)" to find out where you can purchase the No-Slack® test kingpin tool near you (part number KITKPT).



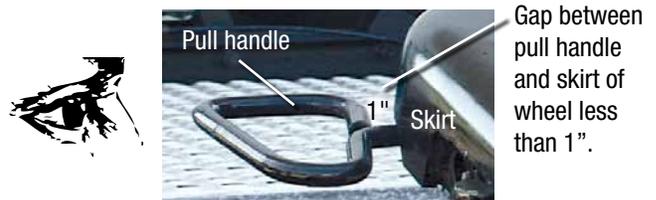
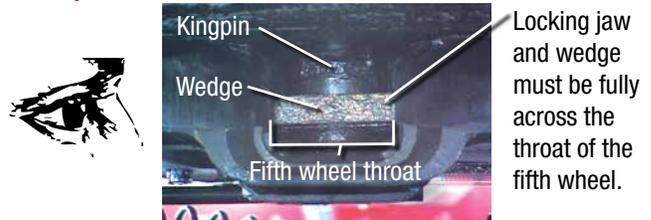
## How can I tell if my fifth wheel is properly locked?

Verify secure coupling with a "tug test", by easing the tractor forward, with the trailer brakes on, to feel resistance of the load. Set the parking brakes on the tractor and trailer and get out of the tractor and visually inspect, using a flashlight, that the fifth wheel is properly closed.

**IMPORTANT: Improperly coupled fifth wheel may in some circumstances be able to pass a "tug test". A visual inspection is always required.**

**The locking jaw and wedge must be fully across the throat of the fifth wheel, there must be no gap between the fifth wheel and the trailer plate, and the pull handle must be within 1" or less from the skirt of the fifth wheel. All three areas of the fifth wheel must be inspected to ensure that the fifth wheel is properly coupled.**

**Below are three critical areas of visual inspection that drivers must perform after every couple.**



**If the visual inspection indicates that you failed to obtain a proper couple, open the fifth wheel, inspect for damaged components, and repeat the coupling sequence.**



[www.fifthwheel.com](http://www.fifthwheel.com) • 800-874-9780 • Email: [parts@fifthwheel.com](mailto:parts@fifthwheel.com)

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