

FACT SHEET

FIFTH WHEEL WITH INSTALLATION



The fifth wheel coupling provides the link between a semi-trailer and the towing truck.

The fifth wheel coupling is normally fixed to the tractor chassis by means of a mounting plate. Various mounting plates, fifth wheel mounting heights and fifth wheel leg heights are available to make an accurate match between the height of the fifth wheel and existing trailer systems possible.

The following areas are described below:

- Type
- Mounting
- Leg height
- King pin diameter
- Maintenance level
- Lubrication
- Trailer connection indicator
- Coupling height

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Sales variants

Type

5WT-FO14	Fontaine 150SP2
5WT-FO15	Fontaine 3000 series
5WT-JO8	Jost JSK 37C/E
5WT-JO9	Jost JSK 42
5WT-JO10	Jost JSK 36
5WT-JO11	Jost JSK 38G
5WT-JO16	Jost JSK 34H
5WT-JOHD	Jost JSK 38C
5WT-SH	SAF-Holland/+GF+ SK-S 36.20
5WT-SH2	SAF-Holland/+GF+ SK-S 38.36

Mounting

5WM-ASL	Mounting on an air-actuated slider and 4 mm L-profiles
5WM-ASM	Mounting on an air-actuated slider and 50 mm L-profiles
5WM-ISOL	Mounting on a low saddle plate and L-profiles
5WM-ISOM	Mounting on a medium saddle plate and L-profiles
5WM-ISOH	Mounting on a high saddle plate and Z-profiles
5WM-ISHD	Mounting on a high steel plate saddle and Z-profiles
5WM-LPRO	Mounting on L-profiles that are directly mounted on the frame
5WM-DH	Mounting with dual heights
5WM-MASL	Mounting on adjustable manual slider and low L-profiles
5WM-MASM	Mounting on adjustable manual slider and medium high L-profiles

Leg height

5WH140	Leg height 140 mm
5WH150	Leg height 150 mm
5WH160	Leg height 160 mm
5WH175	Leg height 175 mm
5WH185	Leg height 185 mm
5WH190	Leg height 190 mm
5WH195	Leg height 195 mm
5WH200	Leg height 200 mm
5WH205	Leg height 205 mm
5WH210	Leg height 210 mm
5WH220	Leg height 220 mm
5WH225	Leg height 225 mm
5WH230	Leg height 230 mm
5WH260	Leg height 260 mm
5WH290	Leg height 290 mm
5WH17D37	Dual leg heights, 167 and 367 mm

King pin diameter

KPSIZE50	King pin diameter 50 mm
KPSIZE90	King pin diameter 90 mm

Maintenance level

5WLM-B	Basic maintenance
5WLM-L	Low maintenance with plastic top plate

Lubrication

5WL-S1	Lubrication of the locking mechanism and top plate
5WL-S2	Lubrication of the locking mechanism

Trailer connection indicator

TCIND	Trailer connection indication with sensors for height, king pin and coupling lock
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Type

The following fifth wheel types are available:

5WT-FO14

Fontaine 150SP2 pressed steel fifth wheel. Mounted on outward facing L-profiles. Weight optimized. Available with a number of different heights above the frame depending on both fifth wheel mounting and fifth wheel leg height.



5WT-FO15

Fontaine 3000 series cast iron fifth wheel. Standard duty, 100% on motorway. Extra large king pin plate contact area (almost 360° contact area around king pin when closed) reduces wear, improves handling and provides added roll-over resistance.



5WT-JO8

Jost JSK 37C cast iron fifth wheel on fixed installations. Rubber mounting and shock absorbing rubber bearing. Suitable for poor quality roads.

Jost JSK 37E on sliding and dual height installation. Rubber mounting.

Both are available with a number of different heights above the frame depending on fifth wheel mounting and fifth wheel leg heights.



5WT-JO9

Jost JSK 42 weight-optimized cast iron fifth wheel. A plastic bearing protects the chassis due to its longitudinal elasticity (lateral movement). Suitable for the 5WM-LPRO mounting, providing a low weight solution. Available with a number of different heights above the frame depending on both fifth wheel mounting and fifth wheel leg height.



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5WT-JO10

Jost JSK 36 pressed steel fifth wheel. Pivot bearing protects the chassis due to its longitudinal elasticity (lateral movement). Available with a number of different heights above the frame depending on both fifth wheel mounting and fifth wheel leg height.



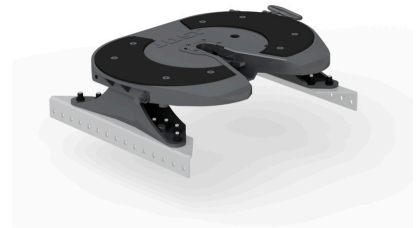
5WT-JO11

Jost JSK 38G cast iron heavy duty fifth wheel. Cardan bearing to allow roll between tractor and semi-trailer under off-road conditions. The lateral suspension can be disabled for on-road use. For 90 mm (3.5") king pin diameter.



5WT-JO16

Jost JSK 34H weight optimized cast iron fifth wheel. Suitable for long haul operations with 5WM-LPRO mounting providing a low weight solution. Features a hybrid bearing, which is a combination of a robust shock absorbing rubber bearing (as in JSK 37C) and a plastic bearing.



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5WT-JOHD

Jost JSK 38C cast iron heavy duty fifth wheel. Rubber bearing and suitable for poor quality roads. Available in two versions, for 50 mm (2") king pin or for 90 mm (3.5") heavy duty king pin.



5WT-SH

SAF-Holland/+GF+ SK-S 36.20 cast iron fifth wheel. Permanent maintenance-free bearing with rubber damper. Suitable for the 5WM-LPRO mounting, providing a low weight solution. Available with a number of different heights above the frame depending on both fifth wheel mounting and fifth wheel leg height.



5WT-SH2

SAF-Holland/+GF+ SK-HD 38.36 cast iron heavy duty fifth wheel. Permanent maintenance free bearing with rubber damper. Available in two versions, for 50 mm (2") king pin or for 90 mm (3.5") heavy duty king pin.



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Type specification

Sales variant		5WT-FO14	5WT-FO15	5WT-JO8	5WT-JO9	5WT-JO10	5WT-JO11	5WT-JO16	5WT-JOHD	5WT-SH	5WT-SH2
Manufacturer		Fontaine	Fontaine	Jost	Jost	Jost	Jost	Jost	Jost	SAF-Holland	SAF-Holland
Type designation		150SP2	3000	JSK 37C JSK 37E	JSK 42	JSK 36	JSK 38G	JSK 34H	JSK 38C	SK-S 36.20	SK-HD 38.36
D-value (kN)		152	150	152	152	152 ¹ / 135 ²	260	120	260/170	152	260/162
U-value ³ (tonnes)		20	20	20	20	20 ¹ /18 ²	36	16	36/28	20	36/23
Weight ⁴ (kg)		120	120	150	125	125	275	110	200	115	185
King pin diameter (mm)		50	50	50	50	50	90	50	90/50	50	90/50
Trailer connection indicator		-	-	○	○	-	-	-	-	○	-
Maintenance level	5WLM-L	-	-	○	○	-	-	●	-	○	-
	5WLM-B	●	●	○	○	●	●	-	●	○	●
Lubrication	5WL-S1	-	-	○	○	-	-	-	-	-	-
	5WL-S2	-	-	○	○	-	-	●	-	○	-

● Standard, ○ Option, - Not available

¹ For fifth wheel mountings 5WM-ISOL, 5WM-ISOM, 5WM-ASL and 5WM-ASM.

² For fifth wheel mounting 5WM-LPRO.

³ Maximum imposed load.

⁴ Approximate value for low spec, without installation, comparable heights.

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Mounting

The following fifth wheel mountings are available:

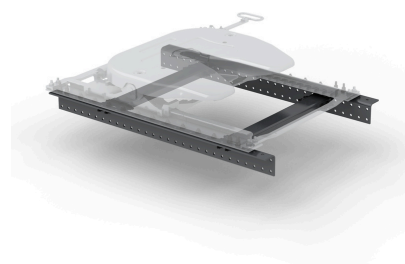
5WM-ASL

Mounting plate bolted to two low L-profiles with outward facing flanges and adjustable, air-actuated slider. Two crossmembers and L-profiles bolted to frame. 5WM-ASL has no saddle. The fifth wheel mounting has a self-locking mechanism and a pneumatically operated release mechanism (switch in instrument panel). Optimized for Volvo.



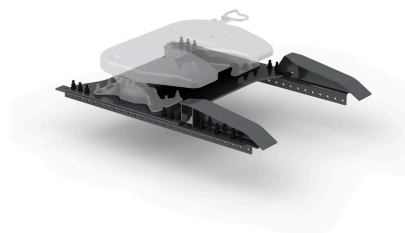
5WM-ASM

Mounting plate bolted to two medium high L-profiles with outward facing flanges and adjustable, air-actuated slider. Two crossmembers and L-profiles bolted to frame. 5WM-ASM has no saddle. The fifth wheel mounting has a self-locking mechanism and a pneumatically operated release mechanism (switch in instrument panel). Optimized for Volvo.



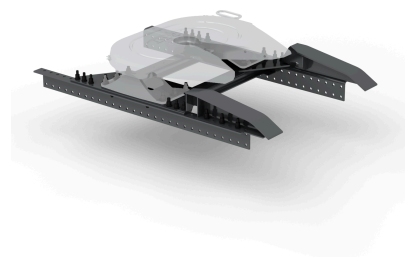
5WM-ISOL

Mounting plate bolted to two low L-profiles with outward facing flanges. Suitable for all kinds of fifth wheels. Sliding members are not included in the variant.



5WM-ISOM

Saddle with two crossmembers and two tie plates are bolted to two medium high L-profiles with outward facing flanges. Suitable for all kinds of operations. Sliding members are not included in the variant.

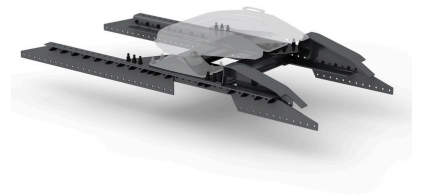


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FIFTH WHEEL WITH INSTALLATION

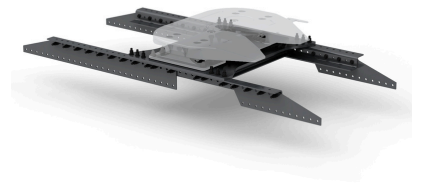
5WM-ISOH

Saddle with two crossmembers and two tie plates are bolted to two on top of frame mounted high Z-profiles with outward facing upper flanges. Optimized for T-ride rear axle installations. Sliding members are not included in the variant.



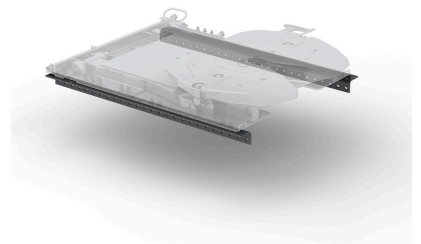
5WM-ISHD

High grade steel plate saddle with two crossmembers are bolted to two on top of frame mounted high Z-profiles with outward facing upper flanges. Available for both leaf and air suspended rear axle installations. Possibility to get a complete heavy haulage truck from factory.



5WM-DH

Mounting plate bolted to two low L-profiles with outward facing flanges. 5WM-DH has compressed air operated dual heights which improves flexibility. Height change must be done without trailer. When changing from low to high height, the fifth wheel moves 30 to 40 mm towards the cab. Handles both standard and mega trailers. Integrated pneumatic control box. Automatic lubrication of hinges.

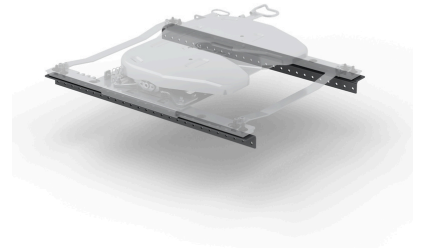


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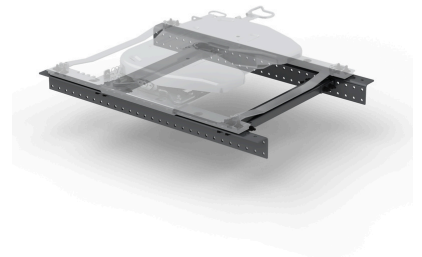
5WM-MASL

Mounting plate bolted to two low L-profiles with outward facing flanges and adjustable manual slide. Two crossmembers and L-profiles bolted to frame. 5WM-MASL has no saddle.



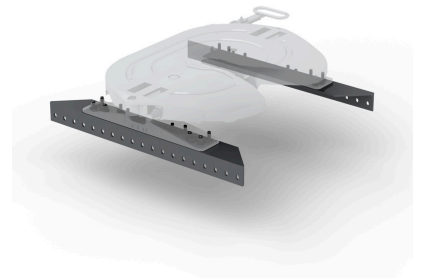
5WM-MASM

Mounting plate bolted to two medium high L-profiles with outward facing flanges and adjustable manual slide. Two crossmembers and L-profiles bolted to frame. 5WM-MASM has no saddle. Usable for heavy duty ramps with 220 mm fifth wheel leg height.



5WM-LPRO

Mounted directly to the chassis frame with two inverted L-profiles (facing inward). 5WM-LPRO has no saddle and no mounting plate which allow for low coupling heights. Light fifth wheel alternative making it perfect for weight sensitive operations.



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Mounting specification

Sales variant		5WM-ASL	5WM-ASM	5WM-ISOL	5WM-ISOM	5WM-ISOH	5WM-ISHD	5WM-DH	5WM-MASL	5WM-MASM	5WM-LPRO
Fifth wheel manufacturer	Jost	•	•	•	•	•	•	•	•	•	•
	Fontaine	•	•	•	•	•	•	-	•	•	-
	SAF-Holland	-	-	•	•	•	•	-	-		•
Type		Air actuated slider	Air actuated slider	Fixed	Fixed	Fixed	Fixed	Fixed	Adjustable manual slide	Adjustable manual slide	Fixed
D-value (kN)		152	152	152	152	152	269	110	150	150	- ¹
U-value ² (tonnes)		20	20	20	20	20	36	15	20	20	- ¹
Height above chassis frame+ saddle (mm)		4	50	4+12	50+10	80+10	80+16	4	4	50	0 ³
Travelling length/increment (mm)	Jost	610/50.8	610/50.8	-	-	-	-	-	610/50.8	610/50.8	-
	Fontaine	487/37.5	487/37.5	-	-	-	-	-	487/37.5	487/37.5	-

• Applicable, - Not applicable

¹ See fifth wheel specification table.

² Maximum imposed load.

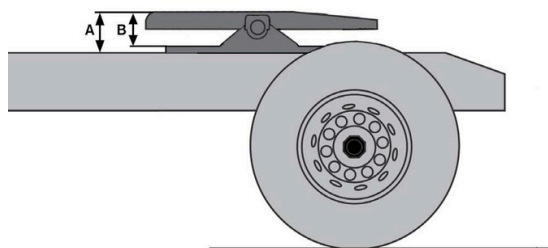
³ For 5WM-LPRO, the 8 mm L-profile is included in the total fifth wheel height.

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Leg height

Fifth wheel height in mm from foot, upper edge of mounting, to the top of the fifth wheel in horizontal position (B). An exception is the fifth wheel mounting 5WM-LPRO, that is measured from the upper edge of the frame to the top of the fifth wheel in horizontal position (A).



Simplified sketch of the measuring, where A is the measurement for 5WM-LPRO and B is the measurement for the other fifth wheel mountings.

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Leg height overview for fifth wheel type and fifth wheel mounting

	5WT-FO14	5WT-FO15	5WT-JO8	5WT-JO9	5WT-JO10	5WT-JO11	5WT-JO16	5WT-JOHD	5WT-SH	5WT-SH2
5WM-ASL	-	5WH175 5WH195 5WH220	5WH175 5WH205 5WH260	-	-	-	-	-	-	-
5WM-ASM	-	5WH175 5WH195 5WH220	5WH175 5WH205 5WH260	-	-	-	-	-	-	-
5WM-ISOL	5WH185	-	5WH150 5WH185	5WH150 5WH185 5WH225	5WH185	-	-	-	5WH150 5WH185	-
5WM-ISOM	5WH210	-	5WH150 5WH185	5WH150 5WH185 5WH225	5WH185	-	-	-	5WH150 5WH185	-
5WM-ISOH		-	5WH150 5WH185	-	-	5WH290	-	5WH190	5WH150 5WH185	5WH150 5WH190
5WM-ISHD	-	-	-	-	-	5WH290	-	5WH190	-	5WH150 5WH190
5WM-DH	-	-	5WH17D 37	-	-	-	-	-	-	-
5WM-MASL	5WH175 5WH195 5WH220	-	5WH175 5WH205 5WH260	-	-	-	-	-	-	-
5WM-MASM	5WH175 5WH195 5WH220	-	5WH175 5WH205 5WH260	-	-	-	-	-	-	-
5WM-LPRO	-	-	-	5WH160 5WH200 5WH230	5WH160 5WH200 5WH230	-	5WH160 5WH200	-	5WH140 5WH160 5WH200 5WH230	-

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FIFTH WHEEL WITH INSTALLATION

King pin diameter

KPSIZE50

King pin diameter 50 mm (2 inches).

KPSIZE90

King pin diameter 90 mm (3.5 inches).

Trailer connection indicator

TCIND

Fifth wheel equipped with sensors for height, king pin and coupling lock. Trailer connection indication is shown in the instrument display (+1 kg).

Maintenance level

5WLM-B Basic fifth wheel maintenance level (for locking mechanism and top plate).

5WLM-L Low fifth wheel maintenance level (for locking mechanism). Plastic slide plates and wear ring.

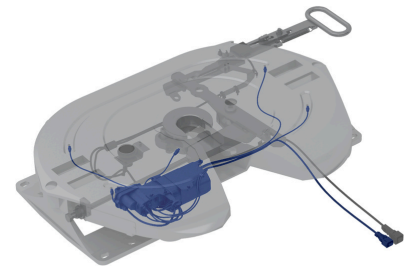
Lubrication

5WL-S1 Locking mechanism and top plate lubrication(+2 kg).

5WL-S2 Locking mechanism lubrication (+1 kg).

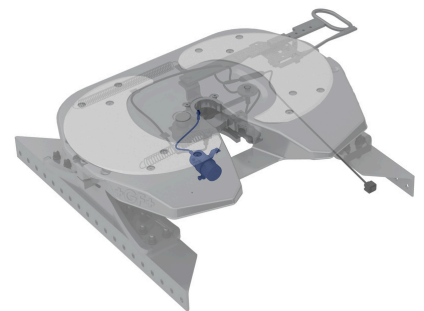
5WLM-B, 5WL-S1

For applications with many couplings/uncouplings. Requires no manual greasing. Refillable system. Level of lubrication can be adjusted depending on need.



5WLM-L, 5WL-S2

For applications with few or very couplings/uncouplings. Automatic greasing of lock jaw. Battery driven, non-refillable. Canister to be replaced at same time as the lock jaw is replaced.



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Coupling Height (examples for air suspended vehicles)

Axle arrangement	Chassis height	Rear axle installation	Frame height	Fifth wheel leg-height + flange, mm	Tyre	Min. coupling height (approx), mm (A)	Nominal drive height (approx), mm (A)
4x2	X-Low	RAD-GR	266	140+0	295-55	867	912
			266	140+0	295-60	887	932
	Low	RAD-GR	266	140+0	315-60	955	1015
	Med	RAD-GR	266	140+0	315-70	1014	1075
			300	140+0	315-70	1031	1092
	High	RAD-GR	266	140+0	315-80	1056	1147
			300	140+0	315-80	1090	1164
6x2	Low	RADT-GR	266	160+0	315-60	975	1035
	Med	RADT-GR	266	160+0	315-70	1034	1095
			300	160+0	315-70	1051	1112
	High	RADT-GR	300	150+60	315-80	1160	1234
	Med	RAPD-GR	266	160+0	315-70	1034	1095
			300	160+0	315-70	1051	1112
6x4	High	RADD-GR	266	160+0	315-80	1076	1167
			300	160+0	315-80	1110	1184

