WATSON & CHALIN
Manufacturers of truck and trailer, steer and non-steer, auxiliary lift axles, trailer air ride and mechanical suspensions and loose trailer axles.

FULL LINE PRODUCT BROCHURE

Watson & Chalin is a brand of Hendrickson
Watson and Chalin (W&C) is a pioneering, global supplier of truck and trailer lift axle systems; trailer suspension systems; specialty suspension systems; loose axles and components to the medium- and heavy-duty transportation industry. With a market focus and customer-driven approach, W&C is committed to delivering custom engineered ride solutions that are durable and reliable for demanding heavy-haul applications in the industry.

W&C is committed to the industry and invests in comprehensive research and development to help trucks and trailers benefit from improved uptime. Our operational excellence is guided by leadership principles in product development, quality workmanship and dedicated customer service. With this philosophy, we will create and sustain added value to exceed the demands of our customers.
Watson and Chalin’s (W&C) business spans for more than 30 years and has been a brand of Hendrickson since 2006. Since then our product offering and capabilities have expanded with manufacturing excellence initiatives and a state-of-the-art R&D facility fostering new product development. We are dedicated to providing engineered ride solutions, ensuring low life-cycle cost and maximum uptime for our customers.
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SL — STEERABLE LIFT AXLES

• Capacities from 8,000 - 20,000 lbs.
• Parallelogram design for a constant axle caster
• Versatile, adjustable ride height and frame width features
• Minimized packaging space up to 22.1 in.
• Configurations available for all authorized lift axle applications

• Custom engineering available for specific customer requirements
• Backed by a 5-year limited warranty*

* Contact your local Watson & Chalin representative for complete warranty terms, conditions and limitations.

SL8K
Lightweight compact design, steerable lift axle suspension system

• Capacity of 8,000 lbs.
• Ride heights up to 19 in.
• Six stud hub for 17.5 in. wheels

Literature reference - W&C126

SL10K
Lightweight compact design, steerable lift axle suspension system

• Capacity of 10,000 lbs.
• Ride heights up to 19 in.
• Eight stud hub for 19.5 in. wheels

Literature reference - W&C100

SL13K
Our most popular capacity steerable lift axle suspension system

• Capacity 13,500 lbs.
• Ride heights up to 19 in.
• Ten stud hub for 19.5, 22.5 and 24.5 in. wheels
• Air disc brakes available

Literature reference - W&C106
**SL20K**

*Robust and innovative steerable lift axle suspension system*

- Capacity of 20,000 lbs.
- Ride heights up to 14 in.
- Compatible with 445/65R22.5 tires
- Hub face of 89 in. for better body clearance

*Literature reference - W&C180*

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**SL25K**

*Steerable lift axle suspension system designed for use with dual or super single tires*

- Capacity of 25,000 lbs.
- Ride heights up to 14 in.
- Compliant with Ontario, Canada "SPIF" regulations

*Literature reference - W&C105*

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**AL — NON-STEERABLE LIFT AXLE**

**AL25K**

*Lift axle suspension system with outstanding performance and proven durability*

- Capacity of 25,000 lbs.
- Ride heights up to 15 in.
- Two-pin axle connection with rubber bushings
- Positive axle stop straps
- Straight or drop axles

*Literature reference - W&C101*
**Pre-Plumbing System**
- Fewer fittings reduces leak potential
- Better response when air is engaged
- Saves time and money during the installation
- 100 percent leak tested at the factory

**Air Disc Brake**
- Better stopping power
- Improved vehicle safety
- Higher and consistent brake torque output
- Increased service intervals (depending on the application)
- Better uptime while servicing brake pads

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**SL / AL SERIES QUICK REFERENCE (STANDARD MODELS)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY (LBS)</th>
<th>WEIGHT (LBS)</th>
<th>RIDE HEIGHT (IN)</th>
<th>LIFT (IN)</th>
<th>PACKAGE SPACE (IN)</th>
<th>HUB FACE (IN)</th>
<th>BRAKE SIZE</th>
<th>STUDS</th>
<th>WHEEL SIZE (IN)</th>
</tr>
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<tbody>
<tr>
<td>SL8K</td>
<td>8,000</td>
<td>672</td>
<td>13 - 19</td>
<td>8</td>
<td>22.1</td>
<td>86</td>
<td>325 × 100mm</td>
<td>6</td>
<td>17.5</td>
</tr>
<tr>
<td>SL10K</td>
<td>10,000</td>
<td>719</td>
<td>13 - 19</td>
<td>8</td>
<td>22.1</td>
<td>89</td>
<td>325 × 100mm</td>
<td>8</td>
<td>19.5</td>
</tr>
<tr>
<td>SL13K</td>
<td>13,500</td>
<td>819</td>
<td>8 - 19</td>
<td>9</td>
<td>22.1</td>
<td>92</td>
<td>15 × 4, 16.5 × 5, Disc</td>
<td>10</td>
<td>22.5</td>
</tr>
<tr>
<td>SL20K</td>
<td>20,000</td>
<td>1,297</td>
<td>8 - 13</td>
<td>8.8</td>
<td>26.5</td>
<td>89</td>
<td>16.5 × 6 in.</td>
<td>10</td>
<td>22.5</td>
</tr>
<tr>
<td>SL25K</td>
<td>25,000</td>
<td>1,500</td>
<td>7 - 14</td>
<td>5</td>
<td>25</td>
<td>71.5 Track</td>
<td>16.5 × 7 in.</td>
<td>10</td>
<td>22.5</td>
</tr>
<tr>
<td>AL25K</td>
<td>Up to 25,000</td>
<td>1,222</td>
<td>8 - 15</td>
<td>7</td>
<td>25</td>
<td>71.5 Track</td>
<td>16.5 × 6 in.</td>
<td>10</td>
<td>22.5</td>
</tr>
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Ride Height Adjustability

- Accomplished through interchangeable lower air spring plate
- Can also be used to limit lift if run height and driveline clearance fall within allowable criteria

Ride Height Measurement Concept

A. Loaded Ground To Frame (GTF) Measurement
B. Static Loaded Radius (SLR) of tire
C. Ride Height (A - B = C)
TA — TRAILER AIR SUSPENSIONS

- Proven technology for a wide range of applications
- Capacities of 25,000 - 30,000 lbs.
- Ride heights up to 24 in.
- Available as suspension kit or as an assembly with axles
- Special axle tracks available
- ALIGN-TRAC™ – Quick, easy alignment system
- 5-year limited warranty*

Literature reference - W&C107 and W&C109

* Contact your local Watson & Chalin representative for complete warranty terms, conditions and limitations.
**SP — SINGLE POINT SUSPENSIONS**

- Strong spring trailer suspension for on- and off-highway trailer applications
- Capacity: 50,000 thru 80,000 lbs.
- Straddle or trunnion mount
- Severe-duty straddle plate available
- Optional trunnion lengths available
- Available as suspension kit or as an assembly with axles
- 5-year limited warranty*
- Applications: End Dump, Side Dump, Belly Dump, Logger, Container Chassis and more

*Literature reference W&C104 and W&C181*

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**MS — MULTI-SPRING SUSPENSIONS**

- Rugged multi-spring trailer suspension for on- and off-highway applications
- Capacities up to 30,000 lbs. per axle
- Up to 49 in. axle spacing
- Single, tandem or tridem axle configuration
- Fabricated hangers and equalizers
- 5 in. diameter axle seats
- 1-year limited warranty*

*Literature reference W&C102*

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* Contact your local Watson & Chalin representative for complete warranty terms, conditions and limitations.
LOOSE AXLES

Offering a full line of axles which helps to finalize the full line of trailer suspensions such as the TA, Single Point and Multi-Spring families.

- Axle capacity up to 25,000 lbs.
- Straight, 6- or 9-in. drop
- Axle tracks: 71.5- and 77.5-in. standard
- N or P spindles
- Air disc brakes available
- Special axle tracks available
- Tire inflation system available

Literature reference - W&C157

TRAILER LIFT KITS

- Different designs depending on specific applications
- Configurations for limited ground clearance or frame space
- Air control kits available for correct operation
Manufacturers of truck and trailer, steer and non-steer, auxiliary lift axles, trailer air ride and mechanical suspensions and loose trailer axles.

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ENGINEERED RIDE SOLUTIONS