



OUR HYDROVAC IS THE TOOL

**WHENEVER
DIGGIN
IS THE JOB.**



GET THE NEXT-GENERATION IN
HYDROVAC TECHNOLOGY

DIG SAFER | DIG FASTER | DIG SMARTER | DIG BETTER

- DIG SAFER -

Tornado's commitment to enhancing safety is an ongoing and proactive exercise. For decades, we've been conducting thought experiments involving dangerous "what if?" scenarios, to unearth and pre-emptively solve otherwise "inconceivable" safety risks. Our work in advancing product safety not only benefits our customers but the entire industry, as improvements are inevitably adopted, and new standards are born.

Automatic Dump Door Safety Latches

Our automatic self-latching dump door locks solves the need for operators to precisely position the door at 90° and then ascend the truck ladder to engage the door safety pin, prior to dumping, maintenance or cleaning.

Comprehensive E-Stop Hydraulic Isolation

In addition to disabling radio remote controls, the E-Stop now disables all hydraulic oil flow to the control valves (including the boom and dump door) to reduce safety risks.

Rear Ladders

Our new ladder design features fiberglass grading with embedded grips to noticeably increase traction. To make mounting and dismounting the vehicle safer, we've also introduced partial ladders on both sides.

- DIG FASTER -

Tornado Hydrovacs already feature the strongest blowers on the market. This means gains in suction force must involve optimizing airflow pathways throughout the hydrovac system. After years of research and development into airflow dynamics, our engineers have achieved massive efficiency gains in flowrate. Ultimately delivering operators a first-in-class vacuum suction force that dramatically accelerates dig speed.

Why Include 2 Bi-directional Cyclones?

Dual cyclones in conjunction with larger air ducts reduce airflow resistance (without compromising on filtration performance), which significantly optimizes your dig speed.

Why External vs Internal Cyclones?

An external design eases access to the Cyclones which assists operators and mechanics when servicing various components over the lifetime of the product.



- DIG SMARTER -

Tornado routinely conducts design overhauls on vehicle component designs and manufacturing processes, all in effort to increase product durability, extend longevity and reduce maintenance. Informed by decades of analysis on it's use, Tornado's engineers have fully redesigned the Boom to improve durability, maintenance and longevity with virtually no increase in the Boom weight!

Increased Durability Without Added Weight

To extend the boom and turret longevity, we added larger turret connecting pins and improved the boom geometry to enhance its strength and withstand stress forces. This was all achieved without a net increase in weight.

An Improved Turret Cover & Lid Design

An easier to access turret cover allows operators to remove clogs and obstructions near the deflector plate. As well, a new lid design provides a better, uniform seal that prevents leaks from occurring over time.

A Wider Boom Design Reduces Risk of Clogs

We've increased the overall width of the boom and the deflector plate to improve the flow of debris through the boom channel. This design update eases operations by reducing the frequency of clogs.

- DIG BETTER -

Operators often need interior access to the debris tank in order to verify levels or view the distribution of debris without opening the dump door and spilling their load. To ease operation, an **8" inspection port** now offers this limited tank access. Through direct-feedback channels with our customers, Tornado has made dozens of similar improvements impacting the truck operation, performance, maintenance and longevity.

A Maximized Debris Tank

The new debris tank now includes two elevated float balls to maximize a 12-yard fill capacity.

A New Washing Station

A dedicated valve to the main water line routes water to a washing station instead of using the water tank drain valve.

New Stainless Steel Sight Glasses

Our sight glasses are now leak, rust, and corrosion resistant; helping extend the longevity of your tank.



- TRUCK SPECS -

Tank Configuration:

- Tank Size: 12 Yards
- Tank Capacity: 1250 US Gallons
- Floor Angle: 20 Degrees
- Tank Style: Notched with a concealed larger manway

Blower

- Model: Jurop Helix 2000
- Airflow: 6400 CFM
- Vacuum Breaker: 10" I.D. for optimized vacuum breaking efficiency

Vanbody

- Size: 70" Standard heated and insulated van body
- Microwave: Standard installation
- Toolbox: Standard toolbox included

Water System

- Pump: CAT 3560, 25 GPM at 3000 PSI
- Wilden GPS1 Air Operated Double Diaphragm Pump Recirculation Pump: Included
- External Hand Wash: Included

Boiler

- Model: Tornado 690 Inferno

Cyclone Design

- Cyclones: Twin bi-directional 18" barrel cyclones
- Self-Sufficiency: Fully independent from the debris tank
- Construction: Modular design with removable and replaceable components
- Clean-out System: Dual cyclone clean-out for independent, controlled maintenance

- TRUCK SPECS -

Debris Float Manifold System:

- Floats: Two elevated float balls for maximum debris capacity

Cyclones:

- Airflow Distribution: Efficiently directs airflow to the air filter housing
- Performance: Contributes to improved system performance and longevity

Air Filter Housing:

- Material: Aluminum construction for reduced weight
- Inlet Ports: Dual 9" I.D. ports for flexible setup and optimal airflow distribution
- Protection: Includes air deflector to prevent filter damage and ensure long-term durability

Bumper:

- Rating: Bumper rated for 40,000 lbs towing with optional pintle hitch attachment

Boom:

- Design: A new boom featuring an over-centering turret cover and removable deflector plate
- Reach: Maintains the same reach as the current model
- Suction Hose: Includes an 8" suction hose for efficient debris collection

Rear Toolboxes:

- Driver's Side Rear Box: Heated and illuminated cabinet for convenient storage location
- Passenger's Side Rear Box: Includes hydraulic PVG valve bank and E-Stop

Safety Features:

- Hinges and Hardware: Self-pinning new hinges and hardware for enhanced door safety
- Safety Package: Retains all the safety features included with current F4 models



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