

TAV50D-V3

Strength, stability and reliability

TAV

Strong
Nordic design.



TAV's dolly coupling is reliable and easy to use. Maintenance is quick and straightforward, and spare parts are readily available throughout Finland."

– Auramaa Group

A new level of durability and stability

Transport demands are constantly evolving. The TAV50D-V3 is a coupling device tested in demanding heavy-duty operation for more than four years, earning positive feedback for its durability and quality. Its modern design and stronger materials deliver reliable performance day after day, in the demanding conditions transport professionals face every day.

Tested in real-world conditions

Developed for HCT combinations and demanding transport applications, the TAV50D-V3 has proven its reliability across a wide range of vehicle combinations. Testing has demonstrated dependable performance with dollies fitted with a 50 mm drawbar eye, centre-axle trailers and trailers equipped with an articulated drawbar.

Stronger vertical load support for longer service life

The redesigned vertical load support is built to handle demanding loads without the risk of deformation or excessive structural stress. The result is longer service life, fewer maintenance interruptions and more time on the road.

Technical specifications

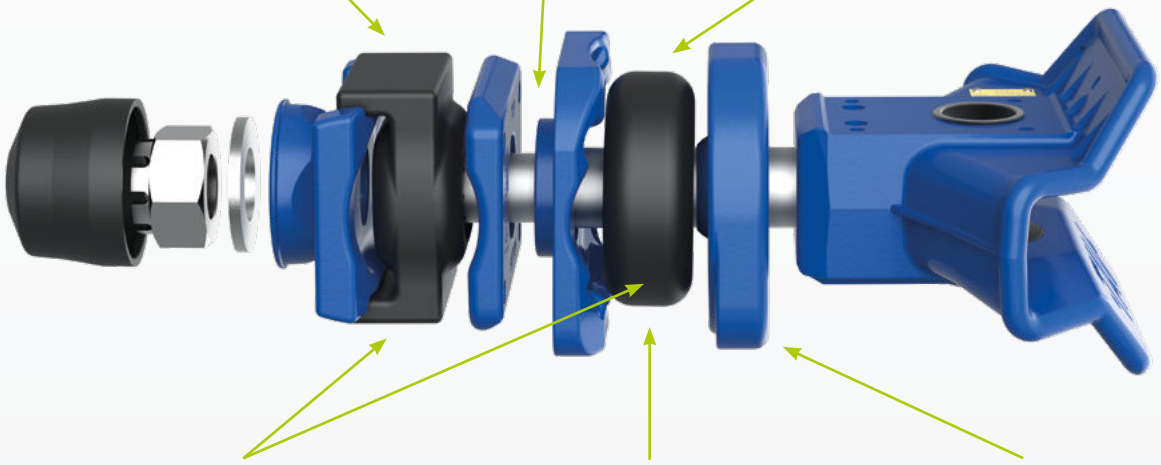
D value	220 kN
Dc value	160 kN
S value	1000 kg
V value	50 kN

Improved design for heavy-duty use

Optimised tilting stiffness
The support surface of the inner rubber has been redesigned and the distance between the rubber elements has been increased by 20%.

Increased shaft diameter 50 → 55 mm
+21% surface area
+33% bending resistance
+46% bending stiffness

Increasing the height of the outer rubber element by 45%
improves tilting stiffness.



Redesigned rubber elements and support
- Reduced stress in extreme operating conditions
- Lower risk of incorrect installation

The new design allows the same lateral movement as before while increasing vertical stiffness.

Measurable preload
- Improved installation accuracy

Better support surfaces for a smoother ride

Larger support surfaces distribute loads across a wider area, while a new and more durable rubber material increases service life. The result is improved stability, particularly on uneven roads. When the load remains under control, driving becomes smoother and more predictable.

Reinforced mounting shaft for demanding conditions

The mounting shaft has been strengthened to withstand greater pulling and bending forces. It keeps connections tight and helps prevent loosening, improving safety while reducing wear during heavy-duty operation.

Strength, stability and reliability

1 **Proven durability**
More than four years of testing in demanding heavy-duty operation.

2 **Enhanced vertical load support**
Designed to handle higher loads and extend service life.

3 **Optimised support surfaces**
Improved load distribution for greater driving stability.

4 **Reinforced mounting shaft**
Built to withstand higher forces while maintaining a secure connection.

TAV Finland Oy is a Nordic manufacturer of coupling devices designed for heavy-duty use and demanding conditions. We develop our TAV solutions together with transport professionals and manufacture them in Ylöjärvi, Finland, using the best materials available. A high level of Finnish content, strict quality control and continuous product development help keep our coupling devices reliable, safe and ready for the demands of tomorrow.

TAV Finland Oy

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