

THE ORIGINAL DUALVEE® GUIDE WHEEL

INVENTED IN 1967 BY BUD WISECARVER

DUALVEE IS A TYPE OF LINEAR MOTION BEARING.

To learn more about these types of technologies, check out Design World's Motion Control Handbook webisode on Youtube at bit.ly/linearmotion



SEVEN SIGNATURE TRAITS

- o Designed for dirty, debris-laden environments and extreme climates
- o Capable of running on their inner or outer 90 degree vee surfaces
- o The internal double row, angular contact ball bearing design supports radial and axial loads
- o Precision-made components provide smooth, quiet, low-friction motion
- o Internal elements protected from contamination by shield/seal features
- o Supports speeds up to 5.5m/s and accelerations up to 5 g's
- o Available in carbon or stainless steel materials

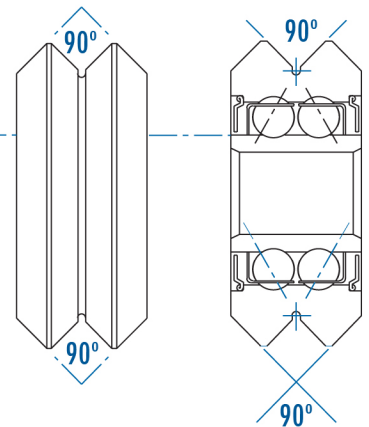
TWO MOST COMMON VEE GUIDE WHEEL TYPES: 70 & 90 DEGREES

The difference in vee angle causes each type of wheel to have advantages and disadvantages over the other.

70 DEGREE: Better suited for applications where a low profile wheel and precise wheel-track alignment are required

90 DEGREE (DUALVEE): Better suited for applications where a small wheel diameter and high load capacity are required

DualVee guide wheels are available in sizes 0, 1, 2, 3, 4 & 4XL, with outside diameters ranging from .584 to 2.968 inches



HOW DID THIS DUALVEE LINEAR GUIDE WHEEL DESIGN COME TO BE?

In the late 1960s, someone asked American Toolmaker Bud Wisecarver to design a fertilizer packaging machine for an oil company. He built the machine using flat rollers, but quickly noticed how falling debris jammed the machine's moving parts. He knew there must be a better way, and while watching a Raider's football game on television with this challenge on his mind, inspiration struck. That realization led to the invention of DualVee Motion Technology®.