

## Winters New Product Info Sheet

# INDEPENDENT QUICK CHANGE

## PERMANENT MOLD CENTER/FORGED SIDE BELL



Winters Base P/N WP1958  
10-Inch Independent Quick Change

Winters Performance has set the standard of quality and performance in racing driveline components for over 66 years, and has been serving the drift racing community for nearly 20. Now we're raising the bar with an all-new independent diff that's the strongest production quick change on the market.

### Features of the new WP1958 quick change:

- **Permanent Mold A356-T6 Aluminum Center Section Castings**—a quick change industry first. The Permanent Mold process uses H13 tool steel molds, not sand-based molds, so castings are stronger, denser and more consistent than sand castings. Our Permanent Mold castings exceed ASTM Sand Cast A356-T6 aluminum by 13% tensile strength, 35% yield and 43% elongation; they exceed ASTM Sand Cast AZ91E-T6 Magnesium by 13% tensile, 103% yield, 67% elongation. *Independent laboratory test results available on request.*
- **Near Net Shape (NNS) Forged 2014-T6 Aluminum Side Bells**—NNS means only the mounting surfaces are machined—the rest of the forging, like the critical crown of the bell, remain as-forged for increased strength. (Machining a forged surface cuts into the metal's grain structure as established by the forging process, exposing the grain ends and making the parts susceptible to cracking and fatigue.) Also, **2014-T6 aluminum exceeds ASTM 6061-T6 aluminum by 56% tensile strength, 50% yield and 8% elongation.**

### Design improvements:

- **Thicker and longer internal ribs** that extend into the front snout and rear gear cavity
- **Larger fillets** (i.e., thicker metal) at the bell mounting flanges for added torsional strength
- **Dual support ribs** between the change gear cavity and the ring gear cavity
- **Side bell oil fill and breather ports** for standard and invert-mounted diffs

Plus, all diffs are equipped with the tried-and-true Winters internals drift racers have relied on for the better part of the last two decades (see list at left).

### Standard Equipment and Options on All Winters Independent Quick Change Diffs:

\* indicates a quick change industry exclusive

- Permanent Mold A356-T6 center section\*
- Near Net Shape\* Forged 2014-T6 side bells
- Forged 4340 steel output flanges (standard 31-spline 930 or optional 35-spline 930 and 934-style)
- Ground 9310 ring & pinion\*
- Timken or NTN bearings
- ARP ring gear bolts
- Steel-lined forged 7075 aluminum spools\* (standard 31-spline or optional 35-spline)
- Forged 1310 or 1350-series yoke
- Hardened steel or optional 350M\* lower shaft
- Standard As-Cast finish or optional Black Thermal Coated



For technical questions or to place an order, please call us at  
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