Koyo is recognized as an innovating market leader in Planet Shaft custom engineering and production. Our expertise in materials science and friction management solutions has contributed to long life planetary systems for over 50 years.

Our planet shafts are crafted from the highest quality steels within IATF 16949 / ISO 9001 and AS9100 certified manufacturing facilities.

State-Of-The-Art Manufacturing

Unique, in-house design and manufacturing capabilities (cold heading, machining, thermal treatment, and grinding) enable Koyo to provide cost effective solutions to satisfy a wide variety of application needs.

Our processing resources provide a broad range of sizes and configurations offering precision tolerances for diameter, roundness, straightness and more.

Features

Our expertise lies in the ability to match your unique requirements with our design for a truly custom product.

Koyo offers a variety of features to meet your most demanding applications:

- Soft end dimples
- Broached or conical ends
- Precision pinning holes and locating notches
- Formed partial or through-axial holes for cost-effective mass savings
- Bearing lubrication passages via radial or angled holes
Features (continued)

– Crowned raceway for bearing stress reduction
– Through-, case-, or induction-hardening of raceway
– Duracase™ long life advanced thermal treatment

Duracase™ is a specialized heat treatment and processing. This results in a bearing surface that reduces the opportunity for asperity welding and flaking, commonly known as fine grain spalling and decreases localized subsurface stress that can result in coarse grain spalling.

Koyo bench testing has shown that our Duracase™ enhanced heat treatment significantly extends life under typical planetary type bearing loading and lubrication conditions.

Common Applications

– Automatic transmission
– Input/output gear sets
– Axles, differentials
– Drives
– Transfer cases

<table>
<thead>
<tr>
<th>Planet shaft scope [in mm]</th>
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<tbody>
<tr>
<td>Diameter</td>
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<tr>
<td>Length</td>
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<tr>
<td>Thru hardening material</td>
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<td>Case hardening materials</td>
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To learn more, contact your sales representative or visit us online at:

www.JTEKT-NA.com

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