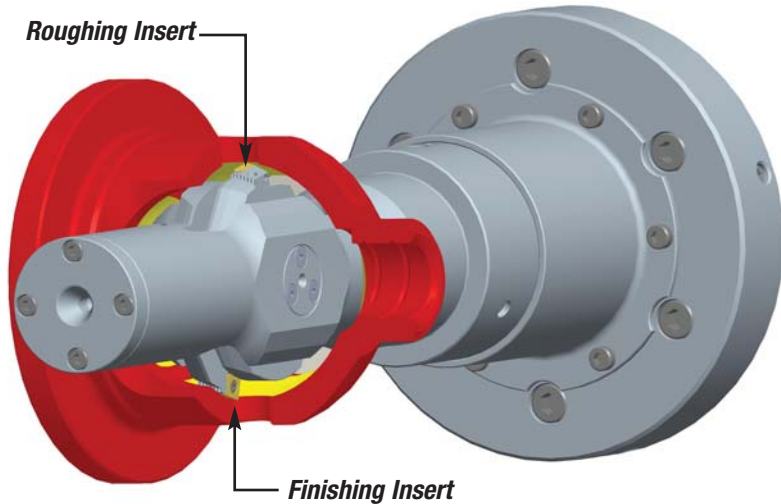


JPT® “Full-Sphere and Fixturing System”

for Machining Differential Case Housings

CNC Machine or Special Machine “Full-Sphere” Style Motion Tool and Fixturing.

Beginning In 2008, JPT® invented the Patent Pending “Full-Sphere Motion Tool & Fixture” Diff-Case solution for Manufacturing Full Sphere Diff-Cases “The JPT® Way”.



Designed and Manufactured:

Since 1973, JPT® has designed and manufactured Diff-Case tooling evolving into our "Best Practices" or “The JPT® Way”.

Our specialty application experience covers Many, Many different types of parts and associated materials that require exacting tolerances.

Differential Cases are a PRIME FOCUS of JPT®.

During this time JPT has established a great library of application knowledge...Including (70) Diff-Case part prints in the past five years alone.

As a result of this, JPT has developed insert-style "Full-Sphere" Diff-Case tooling and Fixturing that provides extremely high quality workpieces and tool life.

This success is due to VERY SPECIFIC JPT design and manufacture focus on;

- Fixture design.
- Insert material, geometry and tolerancing.
- Recommended speeds and feeds.
- Workpiece material and process.
- Machine Tool Specifications.
- Part "In" condition.....prior operations.
- Locate and clamping points / method.
- Tool Setting Offset Gaging.
- Run-off requirements.



Joint Production Technology

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Choosing the Machine Tool for Inside Machining of Differential Case Housing

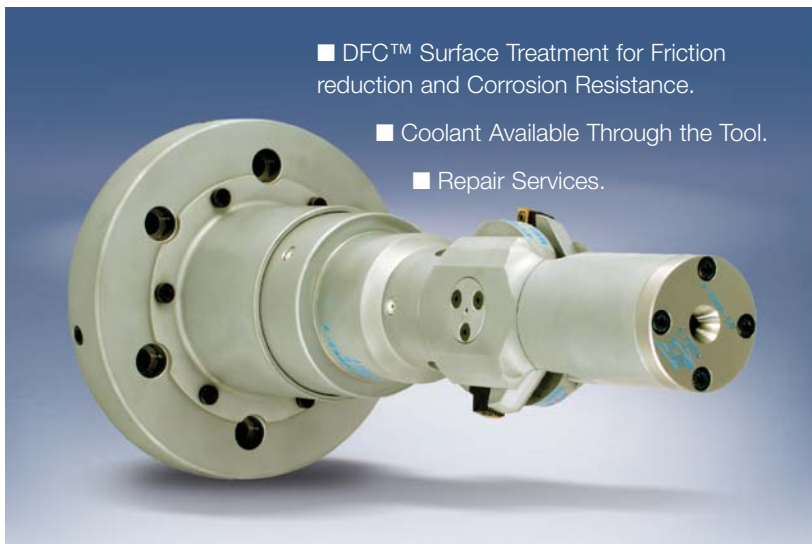
JPT® is frequently involved in the process and fixture concepts as well as the machine tool application and maintenance. Our involvement in all of the mentioned elements produces very successful applications.

So successful are these that a number of elements have United States and International patents (and Patents Pending)...including the JPT PASS™ Cutter Insertion System utilized by Machine Tool Builders for converting new or existing equipment into Diff-Case machining cells.

When we are asked to "quote a tool" along with "back-up" inserts...without the aforementioned involvement...the outcome is generally poor and all involved have generally been displeased. We are certain that this is due to the "Manufacturing Marketplace" viewing this type of tooling as a "COMMODITY" (such as a standard catalog toolholder or insert) and fairly often not understanding the discipline required and the complexities involved.

Subsequently, JPT's increased involvement in all areas of Diff-Case manufacturing has grown out of necessity as needed by our customers.

Tool Shown in Start Position



Product Features & Capabilities:

- Rough and Finish Sphere in One-Pass.
- Adjustable Roughing Insert & Micro-Adjustable Finishing Insert.
- Greater Tool Life over other Methods.
- 300 to 500 (%) Percent Work Cycle Reduction over other Methods.
- Can be Mounted on CNC Sub-Spindle Lathes.
- Can be Used on CNC Machining Centers.
- Part Quality Built into each Tool.
- Tool Always in Balance.
- Tool Supported for Maximum Stability.
- Tool Setting Gages



About Joint Production Technology

The JPT® Way

We are Joint Production Technology, known worldwide as “**JPT**”.

Our name means we Jointly collaborate with you and your Production needs, utilizing "Best Practices" metal-removal tooling, process sequencing and fixture development technologies.

We are NOT a "me-too", non-innovative supplier. Those companies come and go.

We truly desire to be your "partner". When you need answers...you think of **JPT**...because you know that we have the experience to provide creative solutions.

Let **JPT** help you with your Differential Case Housings project today!

For more information, please contact us:

- Call: 586.786.0080 or Fax: 586.786.0088
 - Visit our website: www.jptonline.com
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