

**The *PTS* Team: At Your Service**



**Russ Fox** holds a BSMe from Michigan Technological University and has over 22 years experience as a Senior Designer for paper machine drive and other components. His background includes field studies & troubleshooting, reverse engineering, and creative problem solving.



**Randy Gilsoul** has spent the last 37 years as a paper machine field technician with significant experience in machine mechanical drives, gearing, shafts & pulleys. His background also includes pattern making, foundry, machinist and customer service.



**Scott Soleski** is a paper machine specialist with over 17 years experience troubleshooting, field measuring, applications, & problem solving. His background includes work with gearing, gearboxes, line shafts, clutches, bearings and bearing housings.



**Dave Gause** holds a BSMe from the Univ. of Wisconsin, Madison. With 13 years experience in industrial equipment design, Dave performs applications engineering, estimating, field measurements, product engineering, and customer service.

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# ***PTS* POWER TRAIN SERVICES LLC**



***Providing Today's Services  
Powering Tomorrow's Solutions***

# It Starts With Expertise

Combining more than 80 years of experience in paper machine problem solving, **PTS** is your best source for fast, reliable and cost efficient solutions. With a balanced mix of engineering, applications, field technical service, and field mechanical service, the **PTS** team has the experience and knowledge to understand your equipment and design the components you need for operation and production improvements.



## Dryer Gearing

**PTS** is the industry leader in the design and supply of paper machine dryer gears.

Metal spur and helical gears are available in cast & ductile iron, steels, and forgings.

Nylon gears and replacement rings available in a variety of compositions for high heat and/or high torque applications.

The "captured ring" nylon gear delivers improved performance for high speed open gear machines.

Gear shafts and shaft installation available.

Specialty and custom designed gears.

## Gear & Drive Inspections

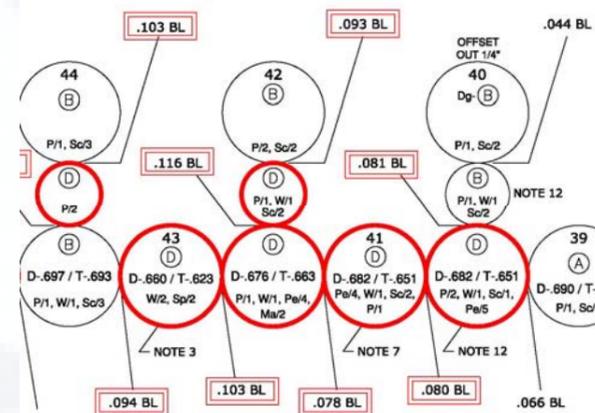
A **PTS** inspection is the key to keeping your drive train running well, and solving problems when they occur. An inspection includes:

- Dynamic and/or static inspection
- Accurate measurement of tooth caliper & backlash
- Inspection and recording of tooth form, wear patterns and damage
- Consultation with operations, vibration, and maintenance personnel



Gear wear and vibration are often symptomatic of other problems in the machine. Conditions like flooded dryers, bearings at or near failure, misaligned dryers or bearing housings, and overdrive & back drive are some of the problems that can be pinpointed during a **PTS** gear inspection.

You receive a full report and CAD drawing afterward detailing the measurements and findings. If non-gear problems are uncovered they are also addressed. Recommendations for corrective action and on-going preventive maintenance are included.



We perform field measurements, project engineering, manufacturing and installation. **PTS** builds many products such as gearing, pulleys, roll heads, and bearing housings. But the real value is the expertise we bring to bear on every project. From one gear to custom designed components to a complete machine audit or drive rebuild.

## Drive Pulleys & Line Shaft Design



**PTS** has more experience designing and trouble shooting line shaft drive systems and supplying components than any other company in North America.

We provide replacement components and design new pulleys for changes in your process such as increased machine speed, changes in roll diameters, or installation of new equipment.

Field service, field measurements and system safety audits are also available

## Bearing Housings

From one to one-hundred, **PTS** is your source for all types of bearing housings including:



Supercalender Rolls: Press Rolls, Dryers, Felt Rolls; Couch Rolls and Reel Drums.

Designed and machined in cast iron, ductile iron, forgings, steel and stainless steel according to the application requirements.

Direct replacements or custom designed from your drawing, sample, or our field measurements.

## Roll Heads

With our engineering and manufacturing expertise, **PTS** can provide heads for all types of rolls used in paper making:

- Felt Rolls
- Press Rolls
- Dryer Cans
- Couch & Wire Turning Rolls
- Reel Drums

Heads are machined from cast or ductile iron, steel forgings, and bar stock.



## GEARING

- Iron Spur Gears
- Nylon Spur Gears
- Nylon Gear Rings
- Helical Gears
- Nylon Helical Gears
- Custom Gears
- Gear Cases



- ## DRIVE PARTS
- Taper Cone Pulleys
  - Flat Belt Pulleys
  - Crown Pulleys
  - V-Groove Sheaves
  - Fly Wheels
  - Clutch Parts
  - Shafts



- ## MACHINE PARTS
- Roll Heads
  - Bearing Housings
  - Machine Frames
  - Cast Parts
  - Machined Parts
  - Custom Parts



- ## FIELD SERVICES
- Gear Train Inspections
  - Drive Inspections
  - Root Cause Analysis
  - Videoscopic Inspection
  - Field Measurements
  - Field Trouble-shooting
  - Installation Supervision