

# Reel - Primary Arm Replacement Wear Parts

The paper machine reel plays an important role in the papermaking process. If replaceable wear parts are not kept in like new condition, they can adversely impact the stability of the process and the quality of paper produced.

## Benefits

- Improved turn-up efficiency
- Reduced waste at spool
- Less paper wrinkling
- Uniform caliper paper
- Rolls with reduced tendency of hard/soft edges



## Ensure good reel building

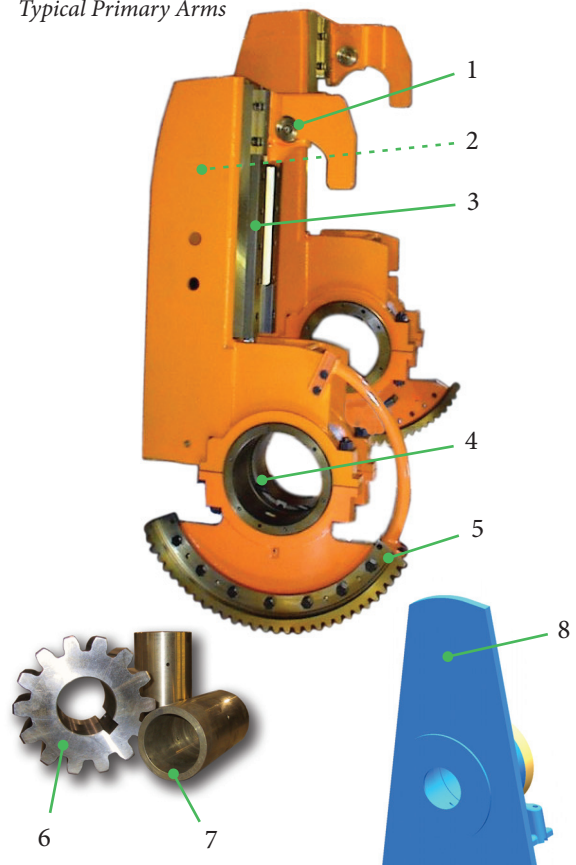
True to their name, the primary arms of a reel are a primary component of good reel building. Replacement of wear parts that are worn or damaged assures optimum reel building capabilities.

## Replaceable wear parts

These are the usual parts of a reel primary arm system that will require periodic replacement because of normal wear or operational damage.

1. Spool rollers
2. Spool load and relieve air cylinders (inside arms)
3. Slide wear plates
4. Primary arm bushings
5. Gear segments
6. Pinion gears (drive cross shaft)
7. Bushing bearings (drive cross shaft)
8. Reel spool supports (mount to reel drum bearing housing - 36" and 48" reel drums)

Typical Primary Arms



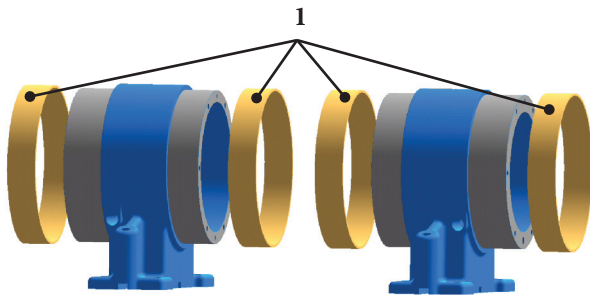
Reel secondary arm and framework replacement wear parts are illustrated on a separate flyer.

## Modernizing primary arms

There are many earlier vintage reels that do not have primary arm bushings. With similar cast iron metal mating surfaces of the primary arms and reel drum bearing housings, they can eventually wear to the point that design clearances may increase, thereby causing non-uniform operation of the arms. This potential problem can be avoided in different ways by either:

Machining existing primary arms and reel drum bearing housings to accept new:

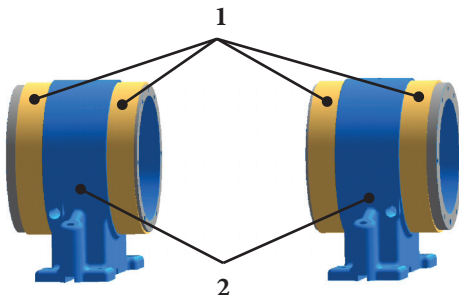
1. Primary arm bushings



... or ...

Machining existing primary arms, and providing new:

1. Primary arm bushings
2. Reel drum bearing housings

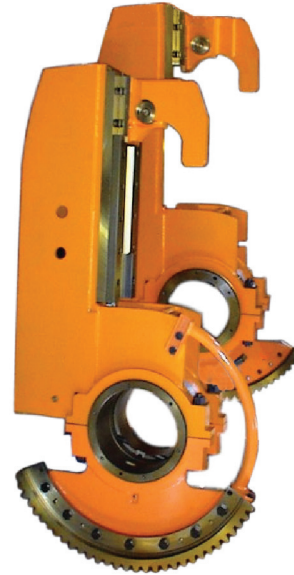


... or ...

A complete set of spare primary arm assemblies

## Spare primary arms

To maintain primary arms in optimum operating condition, it is now common practice to have a complete spare set of primary arms.



Changing primary arms as complete units can minimize down time for maintenance purposes, permitting replacement of wear parts of the arms removed from the machine as routine maintenance work. A spare set of primary arms may also permit incorporating newer features and materials to improve operational performance.

## Valmet OEM parts

Valmet provides value by insuring each OEM part is made to exacting dimensional and material specifications to perform like original parts. Valmet stocks over 5,000 genuine OEM parts, and will help you identify the specific parts used on your machine.

## Service/maintenance

Inspection and careful evaluation of the reel primary arm system is recommended as a routine preventative maintenance practice. Optimize your paper machine reel. Your Valmet service representative can help.