**Process**

**Hobbing**

**Gashing**

**Finish Gashing**
- Extra long, close tolerance involute form inserts cover the entire flank, eliminating mismatch
- Full effective root/half effective flank insert takes advantage of chip thinning to reduce cost & increase productivity

**Double Thread Hob**
- Cuts cycle time in half!

**Rough & Finishing Hobs**
- Higher cutting speed & axial feed means less machining time & more productivity
- Simple set-up & no regrinding necessary
- Inserts with up to four cutting edges
**Rough Gashing**
- Combined negative & double-positive geometry
- Negative root inserts provide stability for heavy chip removal at high feed rates
- Double-positive S-Max flank inserts reduce axial force

**Shaping**

**CNC Gear Cutting**

**CAPABILITIES**

**Shaper**
- Roughing at 3-4 times faster than HSS
- Higher speeds & feeds increase productivity
- Insert technology providing 2 cutting edges per insert

**CNC Tools**
- Ingersoll standard indexable tooling
- Ideal for low volume gear production
- Special form ground tips available
Ingersoll Cutting Tools for the Americas

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