Latch: EcoCut

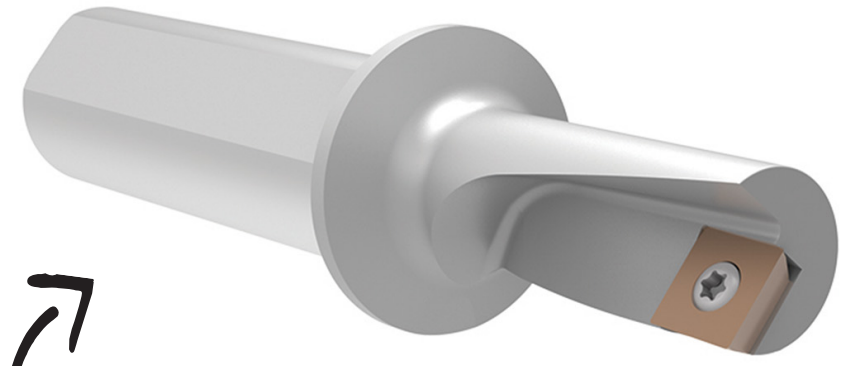
A contract machine shop manufactures components for the railroad industry using an Ecoca CNC lathe SJ-35 HT running with 100 PSI *(7 Bar)* coolant. They are machining a stainless steel latch.

The customer needed to reduce cycle time and lower the overall cost of production.

The **EcoCut** not only succeed in lowering cycle time, but they also lowered their cost of production.

Product: EcoCut
Objective: Decrease cycle time
Industry: General machining
Part: Latch
Material: Stainless steel

Measure	Competitor	EcoCut
	T-A® holder • Hole Ø: 1.1560" *(29.362 mm)* • Depth: 1.720" *(43.688 mm)* • Cycle time: 55 sec • Tool life: 100 parts **Boring bar with insert (4-pass program)** • Hole Ø: 1.270" *(32.258 mm)* • Depth: 1.620" *(41.148 mm)* • Cycle time: 2 min 34 sec • Tool life: 25 parts	**EcoCut insert w/ holder** • Depth: 1.620" *(41.148 mm)* • Hole Ø: 0.9900" *(25.146 mm)* • Cycle time: 37 sec **EcoCut insert w/ holder** • Depth: 1.620" *(41.148 mm)* • Hole Ø: 1.270" *(32.258 mm)* • Tool life: 40 parts • Cycle time: 25 sec **EcoCut holder w/ boring insert** • Depth: 1.620" *(41.148 mm)* • Hole Ø: 1.1560" *(29.362 mm)* • Cycle time: 9 sec • Tool life: 40 parts
Cycle Time	3 min 29 sec	1 min 11 sec



66% cycle time decrease

- EcoCut
  Holder: EC25R-2.25D-13-E
  Insert: XCNT 130408 EN CTP 2440
- EcoCut
  Holder: EC25R-2.25D-13-E
  Insert: XCNT 130408 EN CTP 2440
- EcoCut
  Holder: EC25R-2.25D-13-E
  Boring Insert: TCMT-2(1.5)1

The EcoCut provided:

- ✓ Decreased cost of production
- ✓ Decreased cycle time