

# With **Continuous Improvement** to Long Lasting Partnership

**onesteel**



**ONESTEEL / INFRABUILD** is a manufacturer of steel products and is the leading metals distribution company in Australia. It maintains over 200 operational sites and 13 offshore facilities, serves more than 30,000 customers and employs approximately 10,000 people.

ONESTEEL / INFRABUILD operates 5 long rolling mill plants within Australia: Laverton Bar and Rod Mill, Sydney Bar Mill, Newcastle Rod Mill, Waratah Bar Mill and Whyalla Heavy Section Mill.

**GEVA automation** first approached ONESTEEL / INFRABUILD as far back as 1998 on the occasion of a first Feasibility Study, when it was still trading as Smorgon Steel. Further studies were carried out 10 years later, amongst other things, in association with BSE Rolling Mill Consultancy. The period in between has seen the implementation of an ever- growing number of process packages: small but valuable, and invariably achieving enhanced standards of efficiency.

A complete GEVA automation system was installed in 2013 at the MILL CONTROL

System for Bar and in 2014, at the Wire Rod Mill in Laverton/Australia.

GEVA automation is an acknowledged partner when it comes implementing improvement projects at ONESTEEL / INFRABUILD; it also is rated as highly efficient in terms of the cost-benefit ratio achieved. The relationship is ongoing and bears all the hallmarks of a WIN-WIN situation for both companies.

## Performance example at OST Waratah Bar Mill:

**Step 1:**  
Finishing End performance with existing automation system boosted by 9%

**Step 2:**  
Replacement of automation system produced an increase in performance of 29%

**Overall improvement stood at 41% (!):**  
without changes in mechanics

## Projects at a glance:

### OST Laverton BAR

2007	<b>Development Study</b> Long term modernization strategy
2007	<b>Combi Link Installation</b> Level 0+1 for link between Rod and Bar Mill
2008	<b>Redesign Plant Network</b> Fast remote I/O via Ethernet and IP cameras
2008	<b>Pinch Roll / Laying Head</b> Entire electrical equipment - Level 1
2009	<b>Plant Audit</b> Benchmark & improvement concept
2010/11	<b>Implementation CIP</b> Phase 1+2 implementation and coaching
2013	<b>New Mill Control</b> Complete replacement of Mill Control
2015	<b>Implementation CIP</b> Phase 4 implementation and coaching

### OST Laverton ROD

2007	<b>Development Study</b> Long term modernization strategy
2009	<b>Plant Audit</b> Benchmark & improvement concept
2010	<b>Implementation CIP</b> Phase 1 implementation and coaching
2010	<b>Drives for Roughing Mill</b> Replacement of main drives
2011	<b>Implementation CIP</b> Phase 2 implementation and coaching
2014	<b>New Mill Control</b> Complete replacement of Mill Control

### OST Whyalla Heavy Section

2010	<b>Study Reheat Furnace</b> Concept study for walking hearth furnace
2013	<b>PLC Expansion</b> Upgrade of existing GEM80 automation with new Profibus I/O using GEVA ICR-1000

### OST Newcastle ROD

2009	<b>Plant Audit</b> Benchmark & improvement concept
2011	<b>Implementation CIP</b> Phase 2 implementation and coaching
2011	<b>Pinch Roll / Laying Head</b> Implementation Accurate Coil Presentation
2012	<b>Upgrade of 2 Shears</b> Using GEVA mechatronics package
2014	<b>Finishing End Upgrade</b> Complete replacement of automation
2014	<b>Waterbox Upgrade</b> Implementation of automation upgrade
2014	<b>Upgrade of 2 Shears</b> Replacement of automation & drives

### OST Waratah BAR

2011	<b>Level II Tying Machine</b> Finishing End performance upgrade
2015	<b>Tension &amp; Loop Control</b> Upgrade and implementation

### OST Sydney BAR

2009	<b>Plant Audit</b> Benchmark & improvement concept
2010	<b>Finishing End Upgrade</b> Complete replacement of automation