

With Continuous Improvement to Long Lasting Partnership

ONESTEEL 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 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.

Projects.	Trust.	Relationship.	Exceeding.
Expectations.	Partnership.		

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

OST Laverton ROD

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

OST Sydney BAR

- 2009 Plant Audit**
Benchmark & improvement concept
- 2010 Finishing End Upgrade**
Complete replacement of automation

OST Newcastle ROD

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

OST Waratah BAR

- 2011 Level1 Tying Machine**
Finishing End performance upgrade
- 2015 Tension & Loop Control**
Upgrade and implementation

OST Whyalla Heavy Section

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