



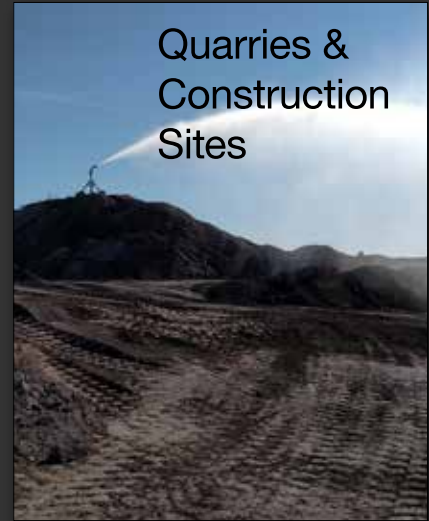
# DUST CONTROL FOR EXTREME ENVIRONMENTS

## INDUSTRIAL GRADE IRRIGATION PRODUCTS

- Big Gun® Sprinklers
- 800 Series & 1000 Series Control Valves
- TWIG® Wireless Controls
- R75M Debris Sweeping Sprinkler
- PC-R3000 Rotator® Sprinkler



Nelson Irrigation Corporation has a full line of water application solutions that are ideal for **DUST AND DEBRIS CONTROL** in industrial settings.



The Part-Circle R75M Debris Sweeping Sprinkler keeps walkways & critical areas clear in coal processing.



Haul road dust control is essential for mine safety and regulation compliance.

**BIG GUN®  
SPRINKLER  
WITH 1000  
SERIES VALVE  
AND TWIG®**





Nelson's complete Industrial-Grade Control Package consists of Big Gun® Sprinklers, Control Valves and the TWIG® Wireless Control System.

(See separate product brochures for performance and detailed information.)



SRA150 Big Gun®  
(Adjustable Trajectory  
15-45°) with 800  
Series Control Valve

Big Gun® Sprinklers are the preferred watering device because of the ability to move a large amount of water in a short period of time. The large nozzle is less likely to plug and the filtration requirements are minimal. All bearings on the gun are sealed ball bearings. High trajectory Big Gun sprinklers (fixed 43° and adjustable 15-45° models available) can achieve the necessary stream height to reduce tower height and clear the top of the piles.

### **SPECIAL OPTIONS TAKE THE BIG GUN TO EXTREME PERFORMANCE LEVELS.**

- Anodized, powder coated and stainless steel options for corrosive water conditions.
- Counterbalance kit available for operation with a tilted riser.
- Wedge insert for modified trajectory.
- Heavy-duty bronze brake for operation in environments with airborne, abrasive, dust particles.
- Vaneless barrel for passage of larger solids.



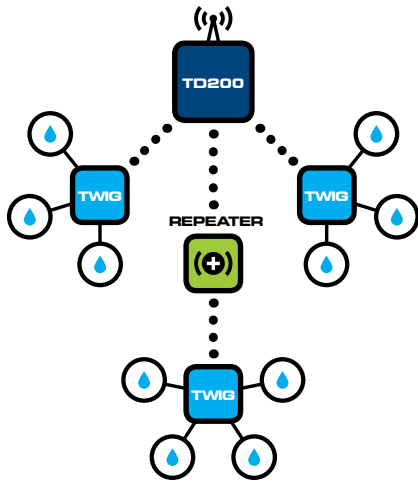
Anodized,  
Powder Coated  
or Stainless  
Steel Options  
Available

Using Nelson Big Gun® Sprinklers in conjunction with Nelson Control Valves and the TWIG® Wireless Control System provides a complementary design that uniquely improves efficiency and reliability. System automation with TWIG Wireless Controls is an invaluable tool in dust control settings — it's simple, reduces labor requirements, and allows you to put the right amount of water where you need it most. Spend less time worrying about dust and more time at the task at hand.



In addition to being used under a Big Gun, Nelson's rugged 800 Series Control Valves have a field-proven record of success in headworks and zone control applications. The modular design of the new 1000 Series Control Valve provides ultimate flexibility in valve style and connection type while simplifying installation, trouble-shooting and maintenance.

# TWIG WIRELESS CONTROLS FOR SIMPLE AUTOMATION



The Nelson Wireless TWIG Control System basically consists of a TD200 Controller capable of controlling up to 100 TWIGs in a programmed sequence. The TWIGs are located in the field on solenoid operated valves. The system operates like a conventional hard-wired automated irrigation system except the underground wires have been eliminated and replaced by two-way wireless radio signals between the TD200 and the TWIGs. The TD200 and the TWIGs that it controls are referred to as a “network”. The TWIG system operates in the 900 MHz range and does not require a license.

Nelson Irrigation products are also used in the land application of highly corrosive water.



PC-R3000



ROTATOR® SPRINKLER WITH PART-CIRCLE ROAD GUARD



BIG GUN® SPRINKLER FOR COPPER TAILING DUST SUPPRESSION

**WARRANTY & DISCLAIMER:** Nelson Irrigation products are warranted for one year from the date of original sale to be free of defective material and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty nor to make any representations or warranty not contained herein.

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848 Airport Rd., Walla Walla, WA 99362 U.S.A.  
 Tel: +1 509.525.7660 / Fax: +1 509.525.7907  
[info@nelsonirrigation.com](mailto:info@nelsonirrigation.com) / [nelsonirrigation.com](http://nelsonirrigation.com)