



**CAST STEEL
PRODUCTS**
Innovative Engineering

Mining & Mineral Processing Oil Sands Steel Aluminum Cement Rail Oil & Gas Power Ground Engaging & Heavy Equipment Crushing Smelters

High Pressure Grinding Rolls

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- > Design,
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We provide
worldwide
innovative
engineering,
custom solutions
and
superior service
and support.

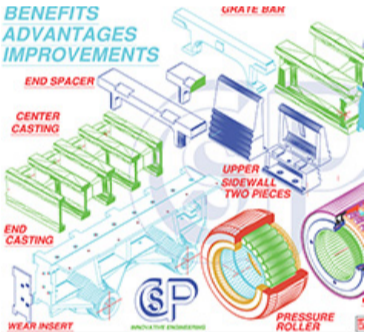
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About Us

Cast Steel Products LP (CSP) is a leading worldwide supplier to OEM and aftermarket of state of the art and innovatively engineered **cast**, **forged** and fabricated wear, abrasion and heat resistant products. We have a successful track record of supplying global **mining and mineral processing**, **oil sands**, **oil & gas**, **steel**, **aluminum**, **cement**, **power** and **railway** industries, **ground engaging & heavy equipment**, **smelting** and **crushing** application sectors. CSP has sales, engineering and fabrication facilities in Edmonton and Montreal, Canada, St. Petersburg, United States, Beijing, China and Brazil and South Africa. Our head office is in Edmonton.



For over 25 years our worldwide customers: designers, engineers, project managers, purchasing, production and maintenance departments and contractors have relied on CSP to deliver innovative engineered, market leading, quality cast, forged and fabricated wear, abrasion and heat resistant products with best in class performance and proven industry leading high wear, extended service life, ease of maintenance and significantly reduced operating and maintenance costs.



Our experienced sales and engineering departments work closely with the end user to determine exactly what is required in order to supply an innovative engineered custom solution manufactured to the highest industry standards including ISO 9000, ASTM, AISI, DIN, JIS, SAE or proprietary standards. In addition CSP cast, forged and fabricated products are designed to provide customers with fast lead times, high levels of safety, reliability, maintainability and to minimize downtime and withstand the harshest wear environments.

CSP is committed to meeting and exceeding our customer's expectations with excellence in supplying proven reliable quality custom cast, forged and fabricated wear, abrasion and heat resistant products and value pleasing service. We continually invest in research and development to take full advantage of industry advancements in order to supply market leading and innovative new products. In doing so; we shall adhere to the highest standards of integrity and commitment to our customers, employees and communities.

Cast Steel Products LP is committed to supplying innovatively engineered and market leading cast, forged and fabricated wear, abrasion and heat resistant products and services which will enhance the value of your project!



Please explore our web site to review our extensive product information and product and project photos and **contact us** via phone or email to discuss your custom requirements and to obtain pricing and delivery information for our extensive CSP product range.





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Products



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STEEL

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CEMENT

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SMELTERS

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CSP High Pressure Grinding Rolls (HPGR)



CSP is a leading worldwide supplier of HPGR Rolls to OEM and aftermarket. We have many successful working applications having supplied hundreds of sets of HPGR Rolls to a variety of worldwide mining and mineral processing operations including Iron Ore, Diamond, Molybdenum, Gold and Copper. With our innovatively engineered and proprietary edge, stud and roll design and unique and proprietary state-of-the-art wear technology, CSP HPGR Rolls deliver best in class performance and proven industry leading high wear, extended service life, ease of maintenance and

significantly reduced maintenance costs.

Our experienced sales and engineering departments work closely with the end user to determine exactly **what is required** in order to supply an innovative engineered custom solution manufactured to ISO 9000 or proprietary standards and designed to deliver to our customers proven industry leading reduced operating costs, reduced maintenance costs, and increased production yield. In addition CSP HPGR Rolls are custom designed to provide customers with fast lead times and high levels of safety, reliability and maintainability.

CSP has many successful global working applications of our industry leading HPGR Rolls including the following countries and mining and mineral processing operations:

- Australia - Gold and Iron Ore
- Botswana - Diamonds
- Brazil - Copper
- Canada - Diamonds
- China - Copper, Gold, Iron Ore & Molybdenum
- Germany - Pilot Plant
- Mexico - Gold
- Russia - Diamonds
- South Africa - Platinum

Benefits to our customers of CSP's HPGR Rolls

PROVEN MARKET
LEADING REDUCED
PLANT OPERATING
COSTS, LONGER
SERVICE LIFE AND
REDUCED
MAINTENANCE COSTS

CSP's proprietary carbide edge design, studs and roll surface system has delivered proven industry leading longer service cycles and lower maintenance requirements. CSP's HPGR Rolls are uniquely designed and built for maximum performance and durability. They reduce plant operating cost per ton and cost per hour. Longer service cycles leads to significantly reduced maintenance costs and our unique HPGR Rolls design enables them to be withdrawn efficiently and replaced when wore down. Worn down carbide edges can be replaced in five minutes!!

LONGER WEAR SURFACE LIFE AND ABILITY TO PROCESS DIFFICULT MATERIAL

Recognizing that the cost of wear is a major economic cost in the mining and minerals processing industry, CSP has undertaken full scale industrial testing of studs to line the surface of the HPGR Rolls and has developed a proprietary highly wear resistant carbide stud-lining of the rolls. As these carbide studs are in direct contact with the material to be pressed under varying pressures, they offer the best wear protection. We have supplied working HPGR Rolls around the world with high wear surface life of 36,000 hrs. In addition our proprietary studs and design have proven to economically process difficult material such as moist pellet feed – up to 6%.

ENERGY EFFICIENT

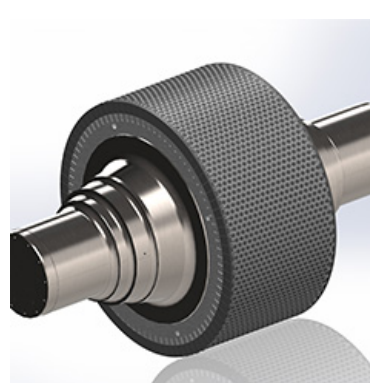
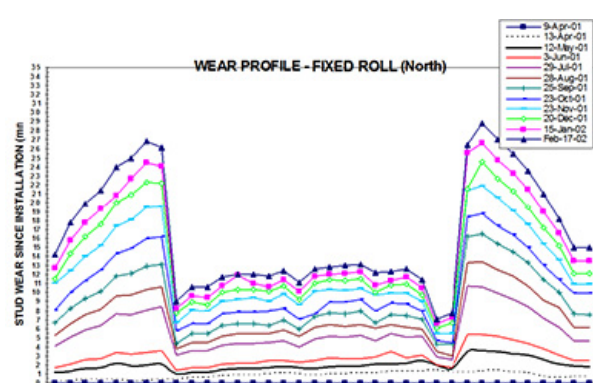
Our HPGR Rolls utilizes the principle of high pressure inter particle comminution to grind various types of ore, industrial minerals, or clinker for cement production. Using our proprietary edge, stud and roll design and unique state-of-the-art wear technology, a CSP HPGR Roll consumes less energy resulting in reduced operational costs and exceptional long term reliability.

CUSTOM DESIGN AND PRODUCTION CAPABILITIES

Our experienced sales and engineering departments work closely with the end user to determine exactly what is required in order to supply an innovative engineered custom HPGR Roll solution manufactured to ISO 9000 or proprietary standards. CSP can supply HPGR Rolls from a lab size of 300mm x 75mm to the largest in operation today 2400mm x 1700mm.

RELIABLE AND PREDICTABLE PERFORMANCE

Our commitment to meeting and exceeding our customer's expectations with excellence in supplying reliable quality custom HPGR Rolls includes conducting full scale industrial testing of our edge, studs and roll surface designs and system. Our program for testing is supported by research and laboratory facilities around the world. This testing provides a wealth of operating data to ensure reliable and predictable industry leading HPGR Roll performance.



Contact us via phone or email to discuss your custom requirements and to obtain pricing and delivery information for our extensive CSP HPGR Roll product range.

To enable us to better respond to your needs please complete the attached **HPGR Roll questionnaire**.

- Click on the link above and save the questionnaire to your desktop by clicking File > Save As
- Fill out the fields on the form and save your document
- Please email the completed form to us at info@cspinnovative.com

High Pressure Grinding Rolls

