

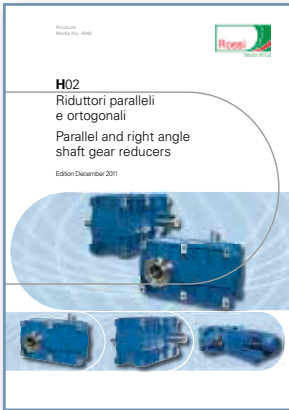
Mining industry

Know-how and solutions
for mining industry

Edition April 2016



Rossi gear reducers



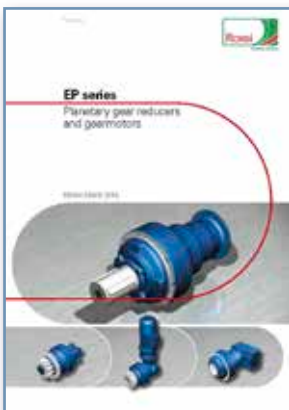
H series

- Torque rating 90 to 630 kNm
- Helical and bevel helical gear units with 2, 3 and 4 stages
- Ground helical and spiral bevel gearing
- Horizontally split cast iron gear casings
- Gear reducer size 400 to 712
- Output shaft size $\varnothing 190\text{mm}$ to $\varnothing 360\text{mm}$



G series

- Torque rating up to 90 kNm
- Helical and bevel helical gear units with 2, 3 and 4 stages
- Ground helical and spiral bevel gearing
- Monoblock cast iron gear casings
- Gear reducer size up to 360, $\varnothing 180\text{mm}$ output shaft
- Strong compact design with multiple special features
- Gearmotor design up to 185kW, without high speed coupling



EP series

- Torque rating up to 710 kNm
- Engineered solutions up to 3000 kNm
- Planetary and bevel planetary gearing units
- Modular cast iron design for multiple stages and high ratios
- Sizes 710 standard and customized up to size 3000
- Combined with G series units for compact/high torque applications

Drive unit features for mining



- Fluid couplings with delay fill and speed and temperature monitoring
- Gear couplings for foot mounted drive arrangements
- Low speed rigid couplings
- High speed couplings flexible elastomer / spring grid



- High speed disc caliper with hydraulic power unit
- High speed drum brake with electro-hydraulic failsafe thrustor
- Flywheels incorporating lay shaft
- Holdbacks internal with the gear reducer



- External holdbacks, multiple quantities, designs and sizes
- Torque limiters
- Ratcheting clutches
- Base frames
- Torque arms



- Alignment free HS coupling housing
- Safety guards
- Sun shields
- Shedder plates





Radial Stacker



Stacker Slewing drive

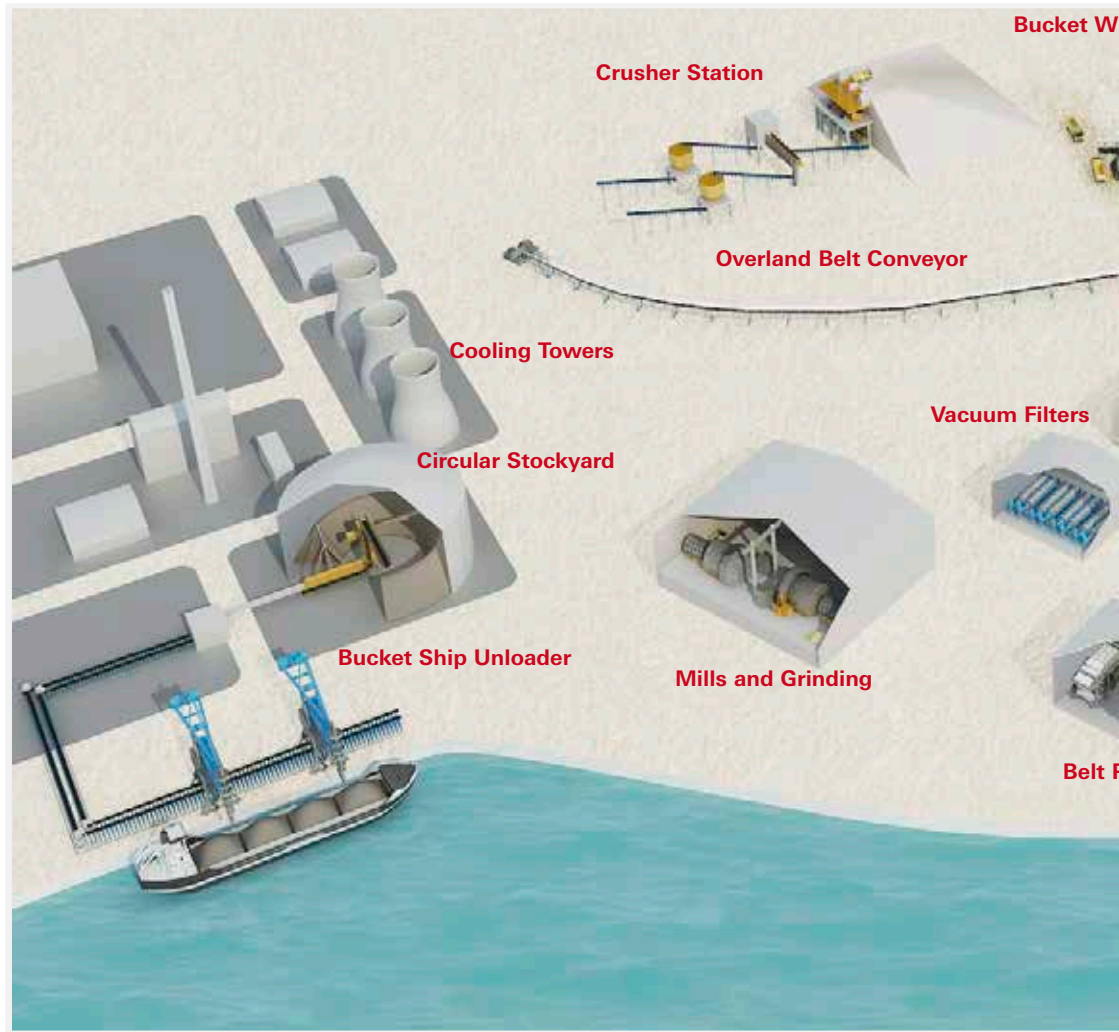


Reclaimer Dual drive



Classifier

Overland Conveyor



Cooling Tower



Circular Stockyard



Apron Feeder



Belt Conveyor Drive



Bogie wheel drive



Applications



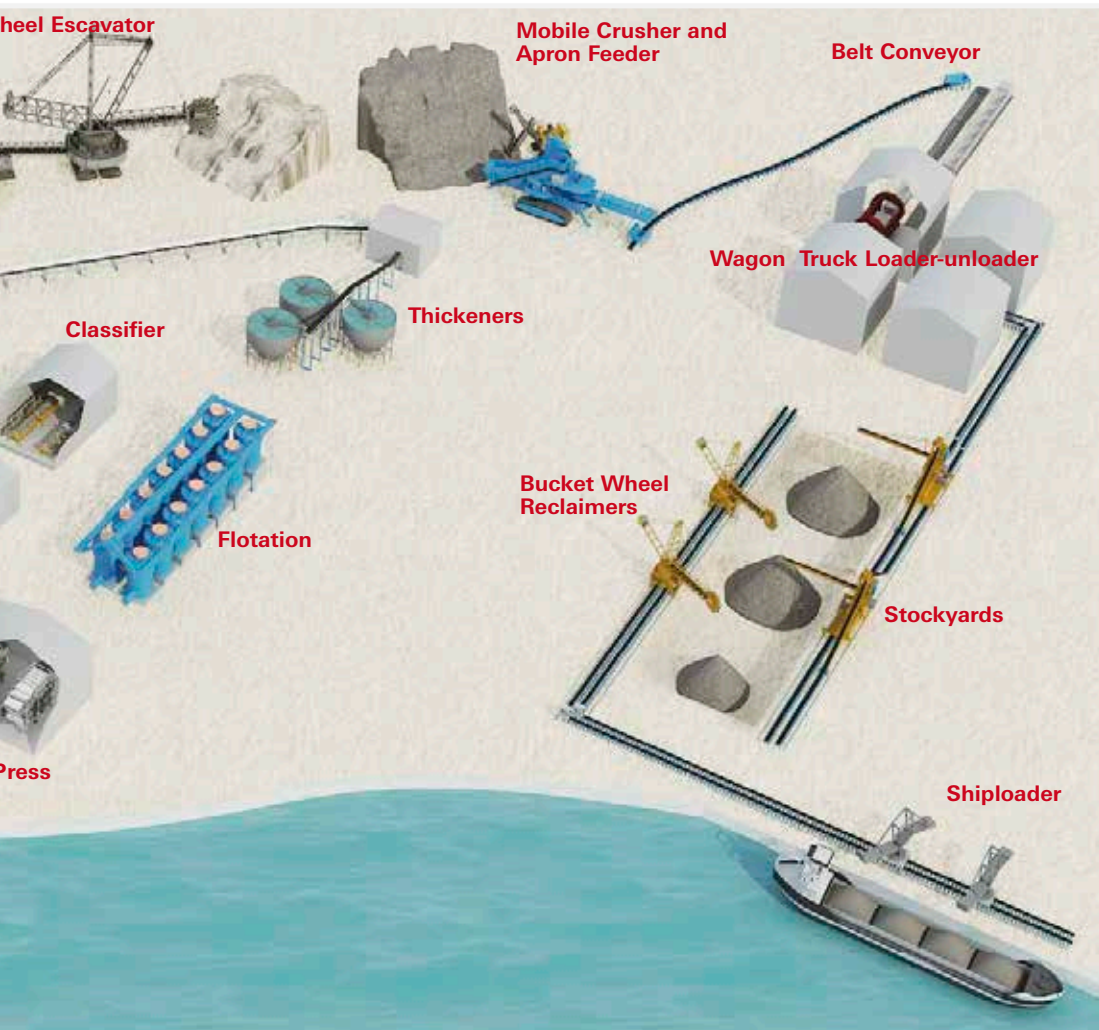
Conveyor Drive



Shuttle Drive



Thickener drive



Apron feeder



Wagon truck loader-unloader



Belt press feeder



Stacker Drive



Ship loader



Slewing drive



Gearbox accessories for mining



Solid cylindrical



Cylindrical with key



Hollow with shrink disc



Splined hollow



Splined solid with wheel flange

Planetary gearboxes

- Labyrinth / taconite seals with grease feed manifold
- Fan cooling / radial and axial fans
- Internal holdback devices
- External holdback devices
- Special protective coatings—2 pack epoxy paint
- Bearing vibration monitoring
- External oil coolers
- Oil heaters
- Forced lubrication with external motor pump
- Desiccant breathers
- Stainless steel identification tags
- Dipsticks
- Sight glasses
- Ball drain valves
- Oil expansion tanks
- Oil sample extraction points
- Magnetic & steel sump plugs
- PT100 oil & bearing temperature probes
- Secondary high speed shafts
- Intermediate pinion shaft extensions
- Low speed shaft options
- Others

Bevel Helical gearboxes



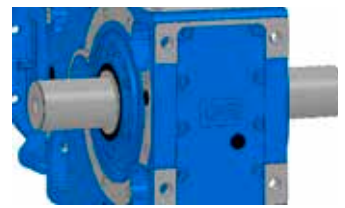
Hollow with keyway



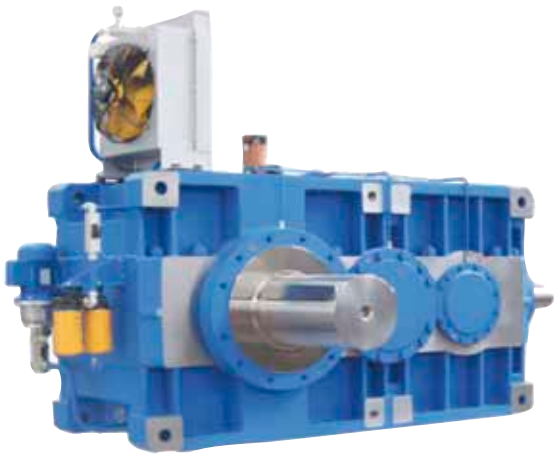
Hollow with shrink disc



Cylindrical with key



Cylindrical double extension



- Precision manufacturing and machining
- Quality assurance certification to ISO 9001
- Proven reliability for long life in the harshest mining applications
- Adaptable and diverse product range to meat all specification requirements
- Global representation and after sales support
- 25 years mining industry experience
- Customized engineered designs

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⁽¹⁾ The certification means that finished wood-based products in the marketplace have been handled by companies that have also been certified and that the paper has been handled in an environmentally-friendly manner.

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Australia

Rossi Gearmotors Australia Pty. Ltd.
e-mail: info.australia@rossi-group.com
www.rossi-group.com/australia

Benelux

Rossi BeNeLux B.V.
e-mail: info.benelux@rossi-group.com
www.rossi-group.com/benelux

Brazil

Rossi do Brasil LTDA
e-mail: info.brazil@rossi-group.com
www.rossi-group.com/brazil

China

Rossi Gearmotors China P.T.I.
e-mail: info.china@rossi-group.com
www.rossi-group.com/china

France

Rossi Motorréducteurs SARL
e-mail: info.france@rossi-group.com
www.rossi-group.com/france

Germany

Rossi GmbH
e-mail: info.germany@rossi-group.com
www.rossi-group.com/germany

India

Rossi Gearmotors Pvt. Ltd.
e-mail: info.india@rossi-group.com
www.rossi-group.com/india

Malaysia

Rossi Gearmotors South East Asia Sdn Bhd
e-mail: info.malaysia@rossi-group.com
www.rossi-group.com/malaysia

Poland

Rossi Polska Sp.z o.o.
e-mail: info.poland@rossi-group.com
www.rossi-group.com/poland

Spain, Portugal

Rossi Motorreductores S.L.
e-mail: info.spain@rossi-group.com
www.rossi-group.com/spain

South Africa

Rossi Southern Africa
e-mail: info.southafrica@rossi-group.com
www.rossi-group.com/southafrica

Taiwan

Rossi Gearmotors Co. Ltd.
e-mail: info.taiwan@rossi-group.com
www.rossi-group.com/taiwan

Turkey

Rossi Turkey & Middle East
e-mail: info.turkey@rossi-group.com
www.rossi-group.com/turkey

United Kingdom

Rossi Gearmotors Ltd.
e-mail: info.uk@rossi-group.com
www.rossi-group.com/unitedkingdom

United States, Canada, Mexico

Rossi North America
e-mail: info.northamerica@rossi-group.com
www.rossi-group.com/northamerica

Global Service

Rossi S.p.A.
e-mail: aftersales@rossi-group.com

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Rossi S.p.A.

Via Emilia Ovest 915/A
41123 Modena - Italy
Phone +39 059 33 02 88
fax +39 059 82 77 74
e-mail: info@rossi-group.com
www.rossi-group.com

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