ROLLS & SHAFTS
Rolls are of the highest quality straight carbon clear chill cast iron. All rolls are cast, machined and ground to the highest technical specifications. Depth of chill is minimum of .025 inches (16 mm). Allows custom corrugating for specific product configurations.

Large diameter shafts are high strength alloy steel. Roll bodies and shafts are precisely machined to assure concentricity.

BEARINGS, HOUSINGS & SLIDE BLOCKS
Roll shaft bearings are self-aligning spherical roller bearings. Tapered bearing bore with adapter sleeve provides positive locking fit with shaft to prevent shaft fretting. All bearing hub ports are easily identified and accessible for maintenance. Bearing housing and slide blocks assure positive roll trim (maintaining rolls in the same horizontal plane) for positive particle size control and to assure the best roll life.

ROLL ADJUSTMENT
One-point roll adjustment is made by machine screw jacks. Rolls remain in parallel throughout the adjustment range. Optional full-feature design provides remote roll adjust with digital readout. Positive roll stop offers maximum protection against roll-to-roll contact.

INTER-ROLL DRIVES
V-Belt inter-roll drives allow for quiet operation in all applications (up to 100 H.P. per pair). Drive tension can be adjusted without removing the guard. Heavy-duty idler arrangement keeps belts positively tensioned.

MAIN DRIVE AND MOTOR BASE
The main drive (motor to rolls) is V-Belt design. A separate motor base arrangement is designed to accept standard motor frames and is available for single, double and triple motor applications.

ROLL HOUSING FRAME
Front and rear cast and machined pressure members with interlocking tension members contain the roll separating forces. Machine jack screws and engineered spring stacks fix rolls in position, yet open to bypass uncrushable materials to protect rolls and shafts. The robust design is a key element in the overall strength of the mill and provides the platform suited to any grinding application.

MODEL RM/HX 1200/1600 ROLLER MILL OPTIONS

HOPPER AGITATOR
A hopper agitator with separate drive is standard on RM models and features an adjustable feedgate for infinite feed rate control and positive shutoff. (Only available on RM models.)

ROLL FEEDER
A roll feeder with separate drive is combined with an adjustable feedgate for more precise feed rate control. Air actuated or manual feedgate options are available. An optional remote full-feature feedgate adjustment with digital readout of feedgate position is also available. A roll feeder is standard on HX models.

POCKET FEEDER
A volumetric rotary pocket feeder with separate drive is available as an alternative to a roll feeder. This allows flow rate control and positive shutoff through the use of a variable frequency drive. The pocket feeder can easily be adapted to automated load control.

FULL-FEATURE FEEDGATE AND ROLL GAP CONTROL
Optional full-feature units with quadrature ring sensors provide a digital readout of the feedgate and roll position. Feedgate and rolls can be remotely opened and closed with infinite adjustment. This option is highly recommended for customers producing a variety of finished products. Full-feature controls utilize NEMA 4/12 rated electrical enclosures, high-quality UL listed components and intrinsic safety barriers to provide safe and reliable control of the mill.

MAGNET
Heavy-duty permanent magnets remove tramp iron from the product stream. Magnets swing out of the feeder housing for ease of cleaning.

ROSKAMP CHAMPION’S STRATEGIC ADVANTAGE
The ability to deliver to the customer the best “Value Package.” In other words, in the long-term, when all things are considered, we offer customers equipment and services that represent the lowest operating cost solution.

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