



Since 1883

# Roller Mills

## ROSKAMP SERIES



• STRONG •

• FLEXIBLE •

• BETTER MEAL STRUCTURE •

• LOW-NOISE •

• HIGH CAPACITY •

• RELIABLE •

## *Efficient* **THE CPM ADVANTAGE**

The CPM ROSKAMP Roller Mill has established a strong market position as a machine for the production of mash feed with an extraordinary good structure.

The rugged construction guarantees **maximum performance** around the clock.

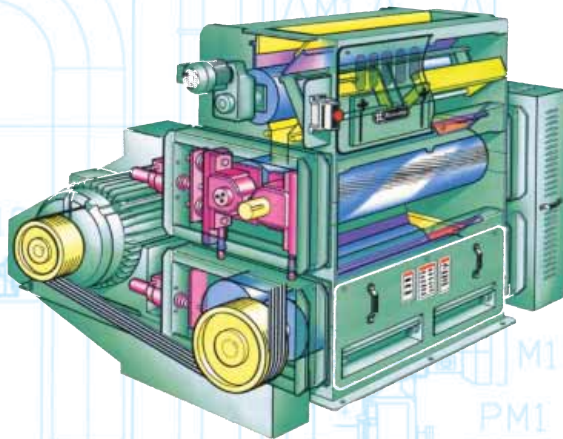


Since 1883

# Your partner

## CPM ROSKAMP ROLLER MILLS *Energy efficient grinding*

The CPM/ROSKAMP Roller Mill has established a strong market position as a machine for the production of layer mash feed with an extraordinary good structure. The CPM/ROSKAMP Roller Mill series have a heavy duty design and are available with 1, 2 or 3 roller pairs. A roller pair is driven at one side by an electrical motor, while at the other side a speed difference between the rollers is created by V-belt reduction. Due to the cutting action of the rollers a 40 to 60 % energy saving can be achieved in relation to the traditional Hammer mill. Also a most homogeneous mash structure with reduced fine content is acquired, without the presence of unbroken grains. This results into improved mash feed flow characteristics.



### NEW APPLICATIONS:

The CPM/ROSKAMP Roller Mill is being applied in a wide range of particle reduction applications outside the Feed Milling Industries. Within the feed milling industries developments can be found where the efficiency in particle reduction by means of the roller

mill is further explored. In the combined grinding process the Roller Mill is being applied in two ways. First for the production of layer mash feed with an excellent structure and secondly pre-grinding the mash feed for the Hammer mill. The pre-grinding increases the capacity of the Hammer mill between 40 and 60% and at same time reduces the total energy consumption by 20%.

The CPM Roskamp Roller mill is designed for the most demanding cracking and grinding operations. Roll corrugations and roll speed differential ratios are available to match any operating conditions. Unique bearing slides assure accurate, consistent production. All machine functions adapt easily to full-automation. The rugged construction guarantees maximum performance around the clock.

### FEATURES

#### ROLLS & SHAFTS

Rolls are of the highest-quality straight carbon clear chill cast iron. All rolls are cast, machined, and ground to the best technical specifications. Depth of chill is minimum of 16 mm (.625 inches). Allows custom corrugating for specific product configurations. Large diameter shafts are high tensile, high yield alloy steel. Roll face and shafts are cylindrically ground to assure concentricity.

#### BEARINGS

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. Bearings and housings need not be removed during recorrugation. All bearing lube ports are easily accessible for maintenance.

#### BEARING HOUSINGS & SLIDE BLOCK

Bearing housings and slide block assure positive roll tram (maintain rolls in same horizontal plane for positive particle size control and assures best roll life). External tension and pressure members contain roll separating forces and maintain parallel and tram.



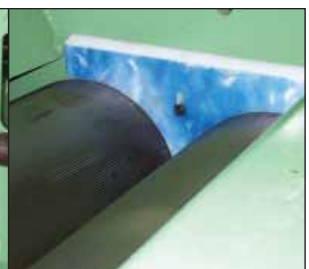
Sample Port



Magnet



Jack Screw



Cheek Plates

# in productivity

## ROLL ADJUSTMENT

Roll adjustment is made by machine screw jacks. It provides accurate, repeatable gap adjustment and assures parallelism of rolls. Air motors provide rapid roll adjustments. Manual handwheel is standard for fine control. Optional full feature design provides remote roll adjust with digital read out. Remote roll stop offers maximum protection.

## INTER-ROLL DRIVES

V-Belt Inter-Roll drives for silent operation in lower horsepower applications (up to 37 kW per pair). Belt tension can be adjusted without removing the guard. Heavy duty idler arrangement keeps belts positively tensioned.

Gear Box Inter-Roll Drives for higher horsepower applications (up to 75 kW per pair). V-belt drive to input shaft of gearbox provides shock absorbing action.

## MAIN DRIVE & MOTOR BASE

The main drive (motor to rolls) is 5V section V-Belt design. The motor base is modular to accept standard motor frames.

Rigid Roll Housing is precision fabricated for maximum strength. Machined slide block ways assure roll parallelism and tram. Each housing is of dust tight construction with sample ports. Roll end seals are externally adjusted.

## ROLL HOUSING

The modular roll housing is all welded construction and allows decks to be installed one at a time, when required. Machined slide block ways assure roll parallelism and tram. Each housing is of dust tight construction with sample ports. Roll and seals are externally adjusted.

## OPTIONS

### ROLL FEEDER

The roll feeder is standard. It features a steeply angled housing for cleanliness. Feed roll is corrugated to fit products processed. Independent drive and positive gate action easily adapt to full automation control. (see separate product sheet).

Roll Feeder with Adjustable Gate Jack screw arrangement provides a simple means of adjusting the feed gate position. Feed rate can be accurately controlled either locally, or from a remote location. Digital read out of feed gate position allows the mill to be controlled from any location. Can be fit with

load controller to automatically adjust the feed rate to changing conditions.

### VIBRATORY FEEDER

Optional Vibratory Feeder controls feed rate and distribution across the roll length. Vibratory feeders are recommended for hard to feed materials with poor flow characteristics. Feeder controls can be fitted with mA (milliamp) sensitive control circuits in process plants employing multiple machines.

### INFINITE GAP CONTROL WITH DIGITAL READ OUT

Optional full feature units are fit with optical encoders, provide a digital read out of the roll position. Rolls can be remotely opened and closed, and different grinds selected with the turn of a switch. This option is highly recommended for all fine grind applications.

### MAGNET

Heavy Duty permanent magnets pick tramp iron from the product stream. Magnets swing out of the feeder housing for ease of cleaning.

### CONTROLS AND CONSOLE

Prewired control panel simplifies mill installation. Panel includes roll feeder controls and roll position controls. Feeder roll motor starter is included. Prewired control panels do not include mill motor starters or push button operators.

Optional console provides a convenient location to mount the electrical controls.



Feeder Gate Adjuster



Roll Adjustment



Inter Roll Drive



Feeder Drive



Destoner



Roller Pair

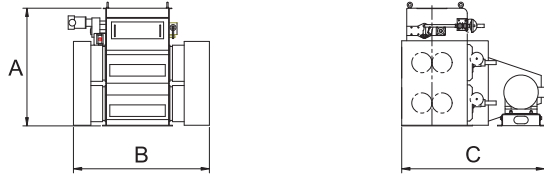


Since 1883

# Roller Mills

## CPM ROSKAMP SERIES

CPM Roskamp Roller mills are made in a wide variety of sizes. For special applications additional models are available.



Rollermill Series	Rollermill Type	Roll Dimensions					Motor P (kW) 1500 rpm	Capacity Maize 1200	Rollermill Dimensions		
		Roll Pairs	Roll ø (inch)	Roll length (inch)	Roll ø (mm)	Roll Length (mm)			A	B	C
900	SP900-12	1	9	12	229	305	5,5	2,9	889	1178	1486
	SP900-18	1	9	18	229	457	7,5	4,3	889	1330	1486
	SP999-24	1	9	24	229	610	11	5,7	889	1483	1486
	SP999-30	1	9	30	229	762	15	7,1	889	1635	1486
	SP999-36	1	9	36	229	914	18	8,0	889	1788	1486
RM 1200	SPRM1200-24	1	12	24	305	610	22	9,2	1143	1829	2159
	SPRM1200-30	1	12	30	305	762	30	12,0	1143	1981	2159
	SPRM1200-36	1	12	36	305	914	37	14,0	1143	2133	2159
X 1200	SPX1200-52	1	12	52	305	1321	37	20,0	1168	2832	2235
900	DP900-12	2	9	12	229	305	11	6,4	1270	1178	1638
	DP900-18	2	9	18	229	457	15	8,4	1270	1330	1638
	DP999-24	2	9	24	229	610	22	12,6	1270	1483	1638
	DP999-30	2	9	30	229	762	30	16,8	1270	1635	1638
	DP999-36	2	9	36	229	914	37	19,6	1270	1788	1638
RM 1200	DPRM1200-24	2	12	24	305	610	45	25,0	1778	1829	2159
	DPRM1200-30	2	12	30	305	762	55	30,0	1778	1981	2159
	DPRM1200-36	2	12	36	305	914	75	39,0	1778	2133	2159
X 1200	DPX1200-52	2	12	52	305	1321	75	53,0	1778	2832	2235
900	TP900-12	3	9	12	229	305	5,5+11	8,3	1651	1178	1638
	TP900-18	3	9	18	229	457	7,5+11	9,3	1651	1330	1638
	TP999-24	3	9	24	229	610	11+22	16,0	1651	1483	1638
	TP999-30	3	9	30	229	762	15+30	22,0	1651	1635	1638
	TP999-36	3	9	36	229	914	18+37	27,0	1651	1788	1638
RM 1200	TPRM1200-24	3	12	24	305	610	22+45	32,0	2473	1829	2159
	TPRM1200-30	3	12	30	305	762	30+55	39,0	2473	1981	2159
	TPRM1200-36	3	12	36	305	914	37+75	47,0	2473	2133	2159
X 1200	TPX1200-52	3	12	52	305	1321	37+75	68,0	2388	2832	2235

## WORLDWIDE

CPM offers service through a worldwide network of local agents in nearly every country. They get supported directly from the regional headquarters by teams of pelleting technology specialists.

## SALES DEPARTMENTS

Our establishments are staffed with qualified sales, engineering and service personnel and are well stocked with dies, parts and accessories. This ensures prompt efficient processing of all customer service requirements.

## CONTACT

Please feel free to contact your local agent, our offices or our Internet sites [www.cpmeurope.nl](http://www.cpmeurope.nl) or [www.cpmroskamp.com](http://www.cpmroskamp.com).



**CPM/Europe BV**  
Distelweg 89  
1031 HD Amsterdam  
The Netherlands  
+31 20 494 61 11 Phone  
+31 20 636 42 94 Fax  
[info@cpmeurope.nl](mailto:info@cpmeurope.nl)

**Roskamp Champion**  
2975 Airline Circle  
Waterloo, IA 50703 - USA  
+1 319 232-8444 Phone  
+1 319 236-0481 Fax  
800 366-2563  
[sales@cpmroskamp.com](mailto:sales@cpmroskamp.com)

**California Pellet Mill Co.**  
1114 E. Wabash Avenue  
Crawfordsville, IN 47933-USA  
+1 765 362-2600 Phone  
+1 765 362-7551 Fax  
800 428-0846  
[sales@cpmroskamp.com](mailto:sales@cpmroskamp.com)

**CPM/Pacific Private Ltd.**  
21, Gul Drive  
Singapore 629470  
Republic of Singapore  
+65 6 265 07 01 Phone  
+65 6 268 64 28 Fax  
[cus.svc@cpmasia.com](mailto:cus.svc@cpmasia.com)