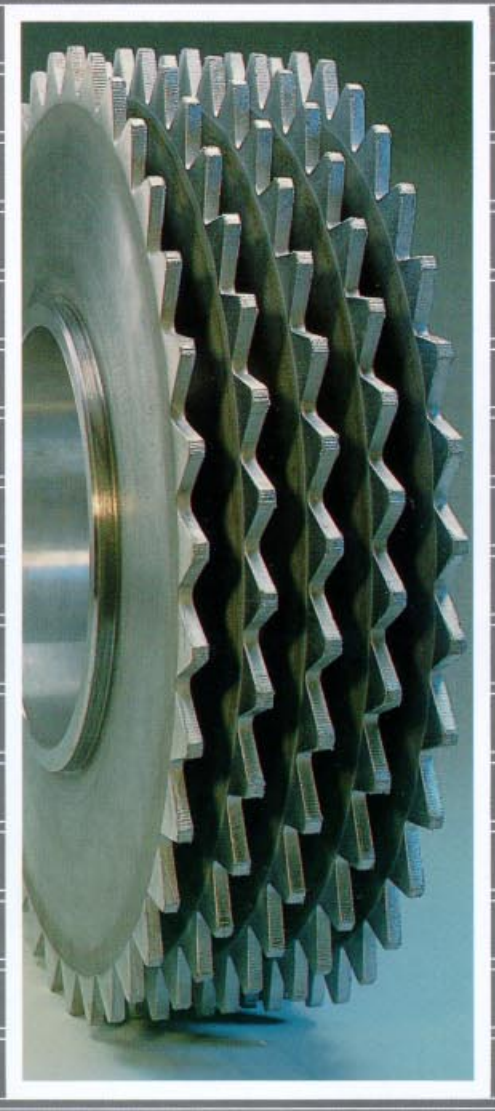
Raised Roll Disc Thickness Screens



ACROWOOD

Raised Roll Disc Thickness Screens

Raised Rolls means more selective overthick chip screening.
Highly selective thickness screening is achieved by efficiently rejecting the overthick chips without also rejecting acceptable chips.

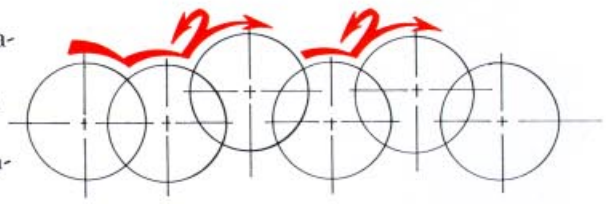
To meet this performance challenge Acrowood has developed a new disc screen: The Raised Roll. The Raised Roll configuration provides effective chip mat agitation, achieving both high overthick removal and low accepts carry-over. As a result, the Acrowood Raised Roll Screen maximizes chip yield, chip quality and chip uniformity, which, in turn, helps maximize the efficiency, quality and cost effectiveness of your entire pulping process.

90% to 97% overthick chip removal...10% to 18% accepts carry-over.
Raised Roll Disc Screens process chips differently than any other thickness screening method. And that's why they do a more complete and selective job of chip thickness separation.

On the Raised Roll Screen, chips travel across alternately elevated shafts in a sinusoidal path. This non-linear path "breaks" the chip mat, increases chip agitation and dwell time, while it spreads the chip feed evenly along the full shaft length. All these factors enhance screening performance.

In addition to the selective separation of overthick chips, the Raised Roll Disc Screen rapidly segregates and concentrates pin chips and fines, reducing the amount of screening area required for secondary processing.

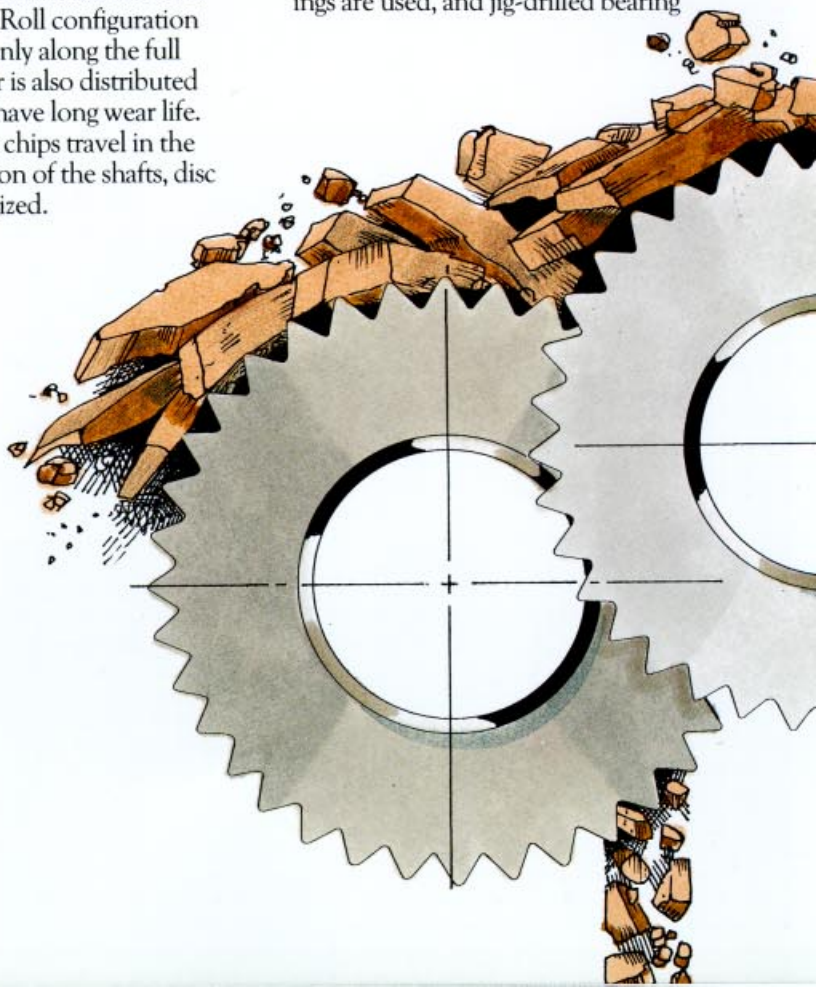
Longer life and less maintenance.
Since the Raised Roll configuration spreads chips evenly along the full shaft length, wear is also distributed evenly. So discs have long wear life. And because the chips travel in the rotational direction of the shafts, disc damage is minimized.



Chip feed enters screen...and is spread evenly across the full width. Accepts pass through the interfacing discs...overthick chips are over and off to the slicer.

The welded shaft assembly utilizes ¼" thick discs which have hard chrome plated teeth. This configuration provides long wear life and excellent IFO accuracy. A variety of shaft assembly designs and disc metalurgies are available to meet each application requirements.

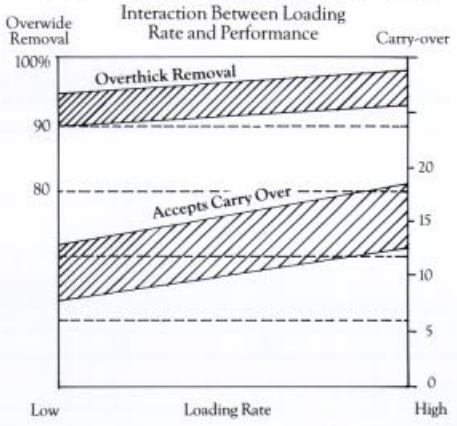
Spherical roller pillow block bearings are used, and jig-drilled bearing



housing bases assure proper shaft alignment and shaft interface. Stub shafts are threaded to allow lateral micro-adjustment. The hopper wall incorporates specially designed replaceable seals that provide dust containment. Optional dust covers make a virtually dust proof installation possible. The chain drive is completely enclosed in a sealed oil bath and isolated away from any chip contamination.

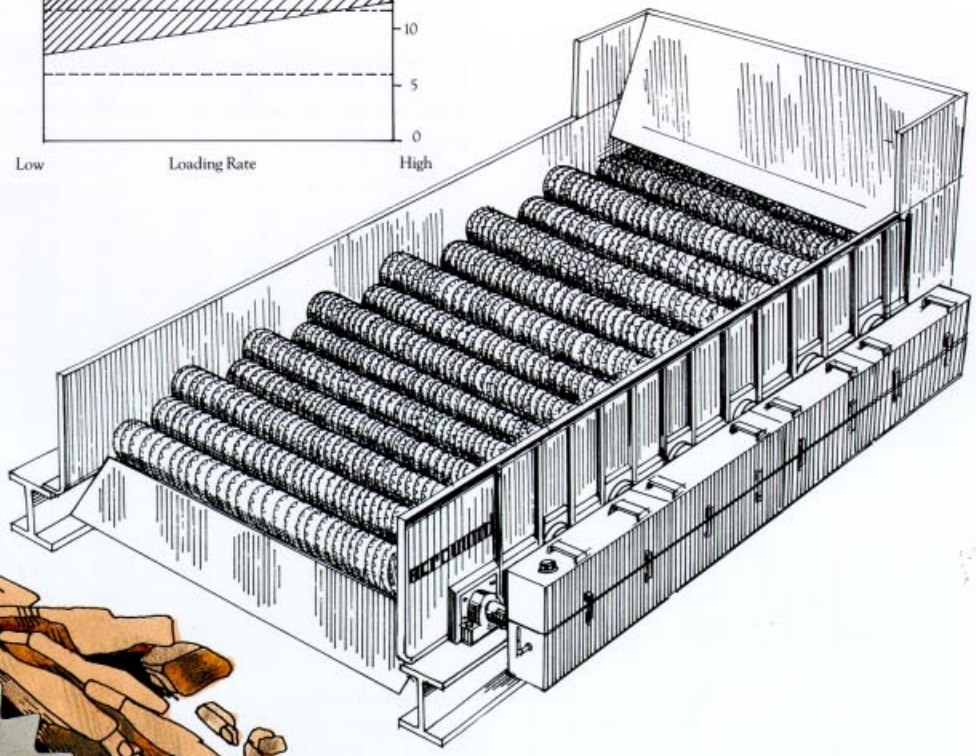
Better screening performance you should see for yourself.
The Raised Roll Primary Disc Screen has become the first choice of mills who technically compare long-term operating performance and durability. It's currently being used in systems running at up to 140 units per hour in a single line!

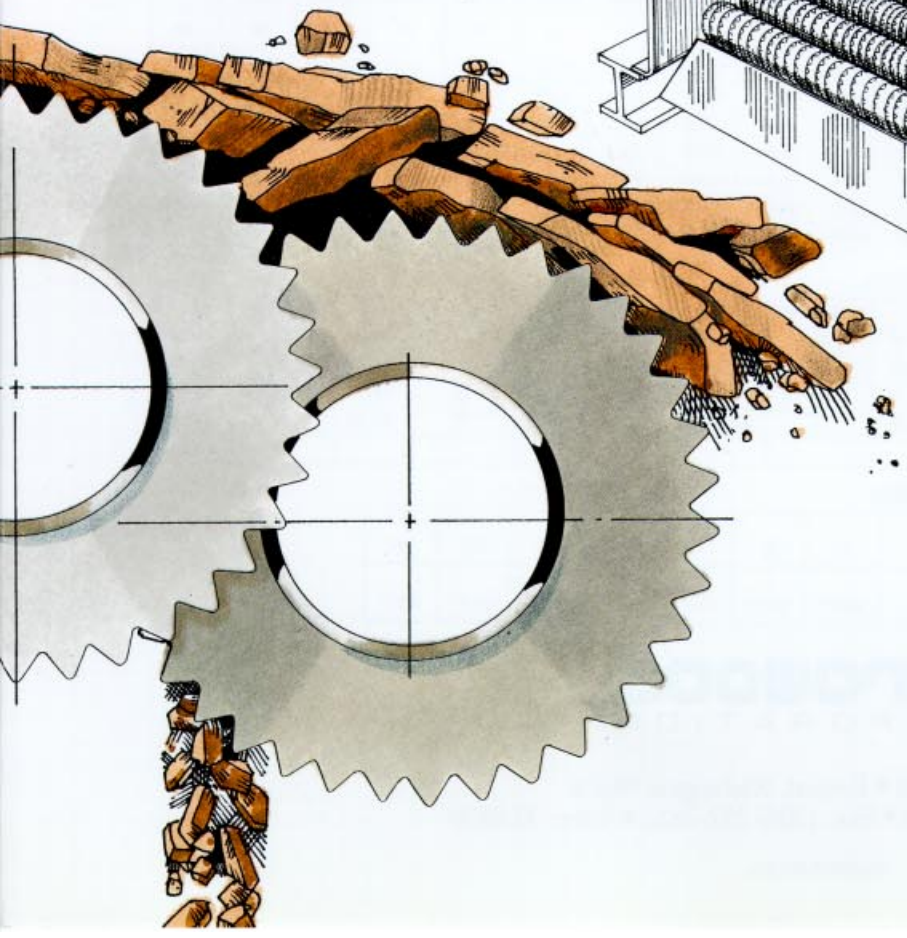
Raised-Roll Disc Screen Performance



One of the best ways to judge the raised roll screen's performance is to see it in action for yourself—screening your chips—in the Acrowood Development Center. All it takes to make arrangements is a call to Acrowood.

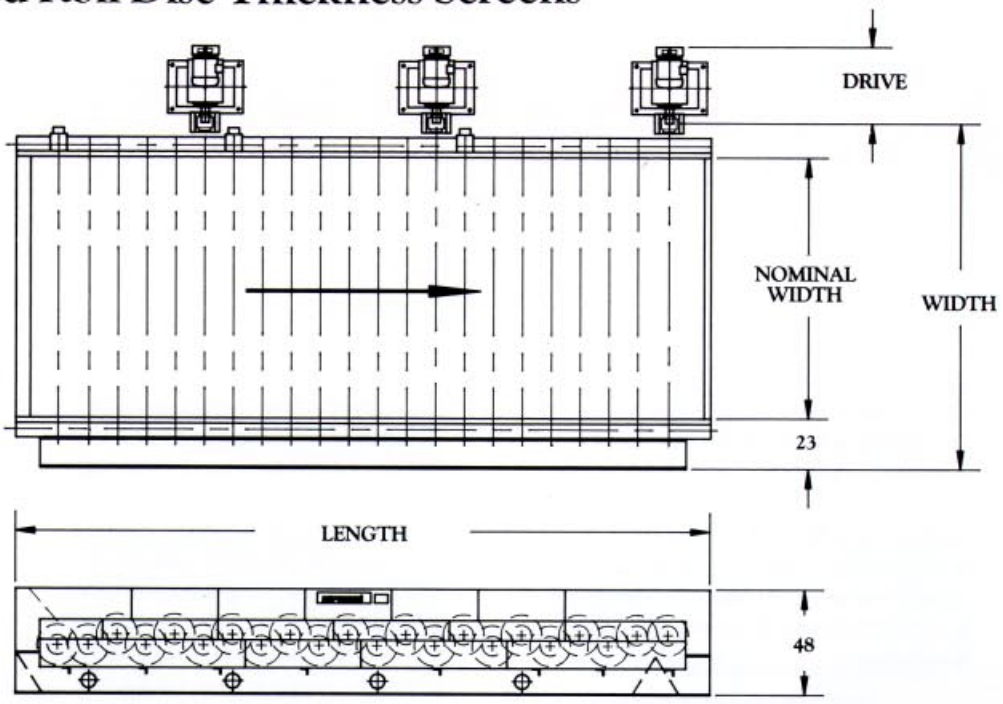
The Raised Roll Screen has shown superior screening capability at the Acrowood Development Center and in mill installations.





Raised Roll Disc Thickness Screens

Only one part of Acrowood's complete line of chip screening equipment.
No matter what type of chips you process, no matter what capacity you want to run, we can engineer a system to meet your needs. In addition to the Raised Roll Disc Screen, we offer SpiRoll™ and DiamondRoll™ screens, chip slicers, rotary screens, air density separation systems, discalpers and chippers. Each is designed for maximum processing efficiency. And all are built to deliver longer life with trouble-free performance.



WEIGHT (LBS.)

NOMINAL WIDTH (INCHES)	NUMBER OF SHAFTS										
	10	11	12	13	14	15	16	17	18	19	
72	20,400	22,000	23,800	25,500	27,300	30,500	32,300	34,000	35,800	37,400	
84	22,500	24,300	26,300	29,600	31,500	33,600	35,600	37,400	39,400	40,200	
96	24,600	26,600	30,200	32,200	34,400	36,700	38,900	40,900	43,000	45,100	
108	28,100	30,300	32,700	34,900	37,300	39,800	42,100	44,400	46,700	50,300	
120	30,200	32,600	35,200	37,600	40,100	42,800	45,400	47,800	51,800	54,200	
132	32,300	34,900	37,600	40,300	43,000	45,900	50,100	52,700	55,400	58,000	
144	34,400	37,200	40,100	42,900	45,800	50,400	53,400	56,200	76,600	61,900	
	20	21	22	23	24	25	26	27	28	29	30
72	39,400	41,100	42,800	44,500	46,200	48,200	49,900	51,600	54,800	56,400	58,400
84	43,400	45,300	47,300	49,100	51,100	54,600	56,600	58,400	60,400	62.200	64.400
96	47,500	49,500	53,100	55,200	57,300	59,600	61,800	63,800	66,000	68,000	70,500
108	53,000	55,200	57,600	59,800	62,200	64,700	67,000	69,300	73,000	75,300	77,900
120	57,100	59,500	62,000	64,400	67,000	69,700	73,700	76,100	78,600	81,100	83,900
132	61,100	63,700	66,500	70,500	73,200	76,200	78,900	81,500	84,200	86,900	89,900
144	65,200	68,000	72,300	75,100	78,000	81,200	84,100	86,900	89,900	92,700	95,900

LENGTH (INCHES)

#SHAFTS	L	#SHAFTS	L	#SHAFTS	L	#SHAFTS	L	#SHAFTS	L
10	157.44	14	209.69	18	261.94	22	314.19	26	366.44
11	169.56	15	221.81	19	274.06	23	326.31	27	378.56
12	183.56	16	235.81	20	288.06	24	340.31	28	392.56
13	195.69	17	247.94	21	300.19	25	352.44	29	404.69
								30	418.69

WIDTH (INCHES)

NOMINAL WIDTH	72	84	96	108	120	132	144
O.A. WIDTH (LESS DRIVE)	110.5"	122.5"	134.5"	146.5"	157.5"	170.5"	182.5"

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