

High-capacity chip thickness screening without rotating wear surfaces.



Features/Advantages

High Efficiencies Improve Pulping Benefits and Enhance Fiber Quality in Downstream Processing

With DynaGage, screening performance is no longer a trade-off between over-thick removal and accept carryover. At wide ranging flow rates, DynaGage will remove over 90% of over-thick chips from chip furnish. Equally as important, accept carryover will be under 10%.

DynaGage has the largest open area available in a thickness screen, allowing for impressive, high-capacity performance and superior quality. The open areas run uninterrupted, in line with the chip flow, the full length of the unit.

The unique tipping action created by the oscillating motion of the Gagebars increases the opportunity for accepts to find and pass through the openings. The tight control and accuracy of the openings, plus the absence of rotating nip points, assures over-thick retention.

Better Selectivity, Greater Flow-Rate Control in Less Space with Less Energy

The development by Jeffrey Rader of the DynaGage Bar Screen represents the most significant advancement in chip screening to date. No other device can match the DynaGage screen's ability to remove over-thick chips at such high efficiencies with little to no accept carryover. Most importantly, this screen can be installed, operated, and maintained at the lowest possible cost.

The DynaGage was created using technological advances that go far beyond simply changing

disc configurations or cutting grooves in shafts. In fact, rotating wear surfaces have been completely eliminated. This means operating performance is no longer dependent on expensive maintenance and replacement of worn screening surfaces. It also means better selectivity, greater control over a wide range of flow rates, and a significant reduction in energy and space requirements.

Technologically Advanced Operating Principal

Time and opportunity are the essential requirements for efficient chip screening. The DynaGage design principle maximizes these criteria and provides operating performance superior to conventional screening methods.

The DynaGage's robust design consists of flat steel bars alternately attached to eccentric shafts. These Gagebars™ are accurately preset and locked in place so that the slots between the bars establish the maximum thickness that will pass the screen. When activated, the eccentricity of the shafts causes the bars to alternatively rise and fall in a circular pattern.

During the screening process chips are repeatedly tipped and tumbled by the oscillating motion of the alternating height bars. Chips of acceptable size pass through the slots while over-thick material is retained on the decks and carried over the end.



DynaGage™ Bar Screen

DynaGage™ Bar Screen

Features/Advantages (continued from other side)

Operating Performance is No Longer Dependent on Costly Maintenance and Replacement of the Screening Surface

The longer a thickness screen can maintain its performance without replacement of the screening surface, the more cost effective its operation.

Experience has shown that the abrasive action of chips and the wedging of contaminants can severely wear rotating disc and roll screen surfaces. The effective performance life of the DynaGage screening surface is significantly greater than conventional screens because of the gentle oscillating action of the screen decks.



Independently-driven, stair-stepped modules allow variable oscillation speeds to meet specific performance objectives.

If replacement does become necessary, sections of the screening surface can be removed and replaced without removing the shafts, thereby eliminating extended downtime. In addition, the replacement costs per square foot of screen area are substantially less when compared to disc shaft

assemblies or grooved rolls. The compact, flexible footprint can accommodate any layout.

Low Cost Installation and Operation in New or Existing Screen Rooms

The DynaGage is a true primary screen designed to be installed in new screen rooms or as a replacement in existing operations.

Because of its high efficiency and long wear life, pre-thickness screening with gyratories or disc screens is never required.

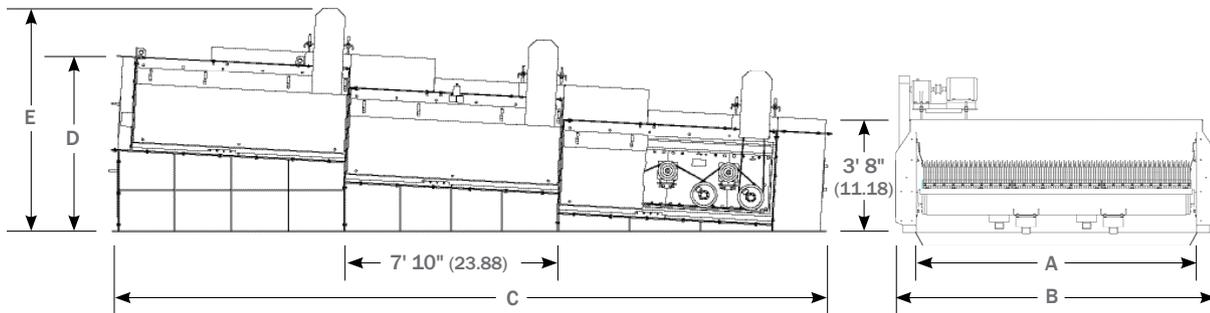
The small footprint, low profile, and low vibration levels allow easy positioning without complicated support structures or chute work.

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Operational and Sizing Guidelines

- Even material distribution provides maximum efficiency.
- Bar spacing and module speed are the only adjustments that effect separation efficiency.
- Control system must be designed to clear material from the screen in a normal shutdown sequence.
- Capacity depends on chip thickness distribution.

Dimensions and Weights



APPROXIMATE LAYOUT DIMENSIONS* AND SHIPPING WEIGHTS

MODEL NO.	MOTORS	A	B	C	D	E	LBS (KG)
816	2 @ 75 HP	8' 5" (25.65)	10' 0" (30.48)	21' 8" (66.04)	5' 9" (17.53)	7' 6" (22.86)	33,100 (15,014)
824	3 @ 10 HP	8' 5" (25.65)	10' 0" (30.48)	27' 0" (82.30)	6' 6" (19.81)	8' 3" (25.15)	48,600 (22,045)
1016	2 @ 10 HP	10' 5" (31.75)	12' 0" (36.58)	21' 8" (66.04)	5' 9" (17.53)	7' 6" (22.86)	37,400 (16,964)
1024	3 @ 10 HP	10' 5" (31.75)	12' 0" (36.58)	26' 0" (79.25)	6' 6" (19.81)	8' 3" (25.15)	55,100 (24,993)
1032	4 @ 10 HP	10' 5" (31.75)	12' 0" (36.58)	34' 0" (103.62)	7' 8" (23.37)	9' 5" (28.70)	69,000 (31,298)

*Certified drawings will be furnished for installation. Installation supervision is available.



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