

NEW TECHNOLOGY - YOUR STEEL - THE RIGHT FIT

## ROBERTS G-16 LINC

900 | 1100 | 1400 | 1600

The Roberts® G-16 LINC Batch Centrifugal has many advantages over your existing G-8 style batch centrifuge by incorporating modern components borrowed from the latest technology of the TITAN® Batch Centrifuges. This machine is designed to fit in the structural steel of your existing G-8, effectively cutting the cost of building a new structure, linking the footprint of the past to the technology of today!

**Downward opening spring basket valve** which allows for unobstructed sugar discharging

**Precision paddle load control** ensuring accurate and consistent batches

**Duplex stainless steel ringless baskets** take less time to inspect

Locally mounted **Allen-Bradley Micrologix 1400 PLC** includes built-in diagnostics and troubleshooting

**RD-3 Discharger** robust design for minimal sugar loss

**Allen Bradley Panelview Plus Compact 1000** 10.4" color LCD touchscreen displays cycle information, help screens and tracks maintenance hour intervals, maintains alarm logs, and tracks centrifuge performance information

**Increase capacity** of the larger ringless baskets

48x30x7 743 Kg to 50.75x36x8.38 1097 Kg = 48%

48x36x7 889 Kg to 50.75x36x8.38 1097 Kg = 23%

54x40x7 1131 Kg to 54.00x40x9.00 1396 Kg = 23%

**Completely guarded** to meet OSHA standards

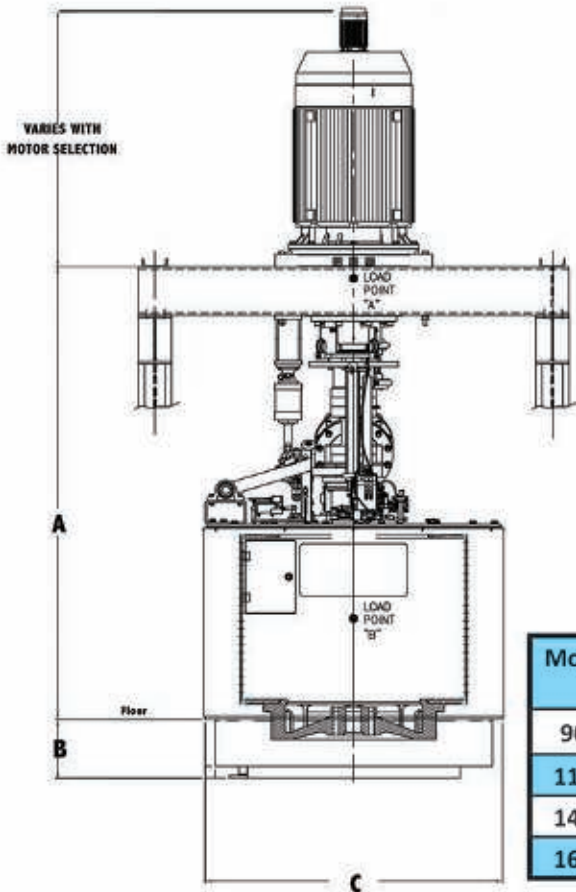


Model	Basket Size	RPM (Nominal)	Actual Volume	Static Volume (Kg/charge)	Dynamic Volume* (pre-purge) (Kg/charge)	Maximum Cycles/Hour	Hourly Rate	Basket % O.A.	No. Holes (0.3120")
900	50.75 x 30 x 8.38	1140	19.4 ft <sup>3</sup>	834	934	28	26.2	3.63%	2272
	1289 mm x 762 mm x 213 mm		0.55 m <sup>3</sup>						
1100	50.75" x 36" x 8.38"	1140	23.2 ft <sup>3</sup>	997	1117	28	31.3	3.64%	2736
	1289 mm x 914 mm x 213 mm		0.66 m <sup>3</sup>						
1400	54" x 40" x 9"	1140	29.5 ft <sup>3</sup>	1269	1421	28	39.8	3.63%	3234
	1372 mm x 1016 mm x 229 mm		0.84 m <sup>3</sup>						
1600	57 x 40 x 9.5	1100	32.8 ft <sup>3</sup>	1410	1579	28	44.2	3.63%	3402
	1448 mm x 1016 mm x 241 mm		0.93 m <sup>3</sup>						

\*12% NOTES: Final results will depend on machine options, type of sugar, process conditions and quality of massecuite

### Original G-8 to G-16 LINC Maintenance Comparison

System	Original G-8	G-16 LINC
Head	Oil lubrication system	Grease lubricated
	Mechanical brake each cycle - brake wear	VFD used to slow machine during operation
	Mechanical micro switch for gyration sensing	Electronic proximity switch for gyration sensing
Basket	Ringed – more time consuming for basket inspection	Ringless – higher capacity; less inspection time
Discharger	Narrow shoe tip for discharging	Wider plow blade for faster discharging times
	(N-11) Air and pressure switches for control Basket direction must be reversed to discharge	( RD-3) Electronic proximity switches for control No reversing to discharge – saves cycle time
TurnTork	TurnTork required for reverse operation	TurnTork is eliminated
Basket Valve	Valve operator mounted in the basket, must be removed to adjust	Valve operator mounted above the curb top, easy access for simple adjustments
	Air opened, gravity shut	Air opened, spring shut
	Bolted two piece valve with shorter life span	One piece valve with very long lifespan
Gate	Roller or wedge style gate with complex adjustments	Simple butterfly valve – no adjustments and safer
	Greased gate and water lubricated stellite	No routine maintenance
	Open system – possible contamination	Enclosed system – cleaner
Load Control	Mechanical servo system with many moving parts and complex adjustments	Paddle and proximity sensor system with few moving parts and simple calibration at the HMI
Electrical	2 speed motor with mechanical contactors	Standard motor with VFD control
	Push button station with mechanical switches, no information	Touchscreen HMI with troubleshooting and diagnostics information



## ROBERTS G-16 LINC CENTRIFUGALS OVERALL DIMENSIONS

Model	Floor to Top of Rail (A)	Floor to Bottom of Discharge Chute (B)	Footprint (C)
900	98.38 (2498.9 mm)	11.12 (282.5 mm)	62' x 62' (1574.8 mm x 1574.8 mm)
1100	104.38' (2651.1 mm)	11.12 (282.5 mm)	62' x 62' (1574.8 mm x 1574.8 mm)
1400	112.38' (2854.3 mm)	11.62 (295.1 mm)	69' x 69' (1752.6 mm x 1752.6 mm)
1600	112.38' (2854.3 mm)	11.62 (295.1 mm)	72' x 72' (1828.8 mm x 1828.8 mm)