

CNC BGG SERIES PECAN CRACKER

Smart electric cracking systems for commercial pecan processing

- AI-assisted size sensing
- No compressed air required
- Protective stop logic
- Low-maintenance electric drive
- No pre-sizing needed*

BGG-4 | BGG-13 | BGG-26

*Within supported pecan size range. See compatibility notes.



ADJUSTABLE CRACKING		INDEXED POSITIONING	ELECTRIC DRIVE	COMMERCIAL CAPACITY
Built for Pecan Processors Consistent feeding, positioning, and controlled cracking for commercial workflows.		Adjustable for Real Product Cracking depth and movement range can be adjusted for pecan condition and target result.	Designed for Simple Utilities Electric cracking system with no compressed air requirement for standard operation.	

Product Overview

The CNC BGG Series is designed for automated pecan cracking with controlled electric movement, indexed nut positioning, and motor-driven cracking heads. Pecans are guided into individual slots, sensed before the cracking stroke, and cracked with adjustable depth/movement settings to support consistent results.

- Automatic feeding into indexed slots
- AI-assisted size sensing before cracking
- Controlled cracking stroke for better kernel protection
- Designed to improve halves recovery and reduce breakage

1	2	3	4
FEED	POSITION	SENSE & CRACK	DISCHARGE
Pecans enter feeding area	Nuts settle into slots	Drive senses before stroke	Cracked pecans exit

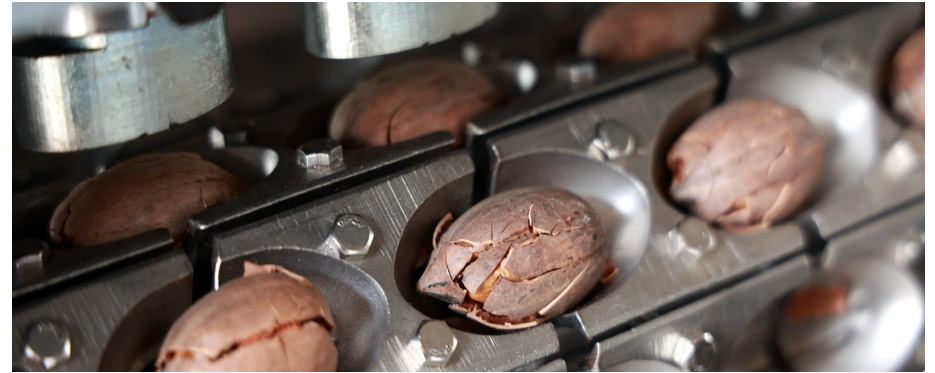
AI-Assisted Size Sensing Drive response sensing helps confirm nut contact/position before the cracking stroke.	Protective Stop Logic Abnormal resistance from stones, sticks, or foreign objects can trigger protective stopping.
Electric Driven No compressed air supply is required for standard operation.	Low Maintenance Simple electric drive layout and accessible processing areas support easy daily upkeep.
No Pre-Sizing Needed* Within the supported slot range, separate pre-sizing is generally not required.	Easy Operation Operators mainly adjust cracking depth/movement range based on the cracking result.

Feeding, Positioning & Cracking

INDEXED SLOTS GUIDE EACH PECAN INTO THE CRACKING ZONE



Feeding Area & Indexed Slots



Motor-Driven Cracking Heads

Why It Matters

- Indexed slots present pecans consistently under the cracking heads.
- Controlled cracking stroke helps reduce uncontrolled shell breakage.
- Electric drive control allows process adjustment without compressed air.

Operator Adjustment

- Set cracking depth / movement range based on pecan condition.
- Fine-tune speed and timing from the touchscreen interface.
- Use manual pages for setup and troubleshooting.

Performance Focus

- Monitor halves percentage and breakage.
- Adjust gradually for different shell condition and moisture.
- Review out-of-range pecans before purchase.

Model Lineup

SELECT THE RIGHT CAPACITY FOR YOUR PRODUCTION WORKFLOW



BGG-4

COMPACT / TESTING



BGG-13

MEDIUM PRODUCTION



BGG-26

HIGH-CAPACITY LINES

Cracking heads	4
Capacity	6,000-8,400 nuts/hr
Approx. capacity	150-200 lb/hr
Dimensions	33.86 x 23.63 x 43.31 in
Weight	286.6 lb
Rated power	0.5 kW
Rated voltage	110-220 V

Cracking heads	13
Capacity	30,000-35,000 nuts/hr
Approx. capacity	400-500 lb/hr
Dimensions	44.89 x 43.31 x 55.12 in
Weight	837.8 lb
Rated power	1.5 kW
Rated voltage	110-220 V

Cracking heads	26
Capacity	56,000-65,000 nuts/hr
Approx. capacity	750-1,000 lb/hr
Dimensions	51.97 x 49.61 x 56.30 in
Weight	1247.8 lb
Rated power	4 kW
Rated voltage	110-220

*Actual throughput may vary depending on pecan variety, moisture, nut size distribution, feeding condition, and desired cracking result.

BGG-4	BGG-13	BGG-26
Small batch, testing, sampling, and lower-volume production.	Balanced choice for commercial processors needing compact capacity.	High-capacity operation and integration into processing lines.

Compatibility, Technical Notes & Quotation

REVIEW NUT SIZE, TARGET PERFORMANCE, AND INSTALLATION REQUIREMENTS BEFORE ORDERING

Pecan Slot Requirements

Max. pecan length	57 mm / 2.24 in
Min. pecan diameter	18 mm / 0.71 in
Pre-sizing	Generally not required within range
Out-of-range pecans	Confirm before ordering

Special Notes

- Wild pecan cracking applications are currently under development and testing.
- Very small, unusually shaped, or mixed-size nuts should be reviewed with sample testing when possible.

Technical Configuration

Drive type

Electric motor-driven cracking system.

Cracking method

Motor-driven cracking heads apply controlled movement to pecans held in indexed slots.

Smart protection

AI-assisted size sensing and protective stop logic help protect from foreign objects.

Control interface

Touchscreen HMI for start-up, parameter adjustment, automatic/manual operation, and troubleshooting.

Maintenance

Low-maintenance design with simple cleaning access and routine inspection.

Information Needed for Quotation

- Required capacity in lb/hr or nuts/hr.
- Pecan variety, shell condition, moisture level, and size range.
- Whether product is wild, standard, or mixed-size pecan.
- Available floor space and upstream/downstream integration needs.
- Electrical supply and destination location.

CNC BGG SERIES

For model selection, quotation, sample testing, and line integration support:
info@acefoodsystems.com

Specifications are subject to change based on configuration and customer requirements. Capacity and performance may vary by pecan variety, size distribution, moisture condition, feeding consistency, and operating setup.