BISH ENTERPRISES

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BISH DECORTICATOR





Product Overview

- **Purpose-built for research** — engineered specifically for academic and post-secondary programs (not adapted from a production machine).
- **Designed for research accuracy, safety, and efficiency** — every component supports controlled, repeatable testing and student-friendly operation.
- **Supports advancement of hemp fiber technology through consistent, high-quality decortication for R&D and pilot-scale innovation.** Optimized for safe, efficient processing with features that simplify operation while maintaining strict safety standards.
- **Ideal for research and small-scale industrial use** thanks to its reliable performance, repeatability, and user-friendly design.

Key Features

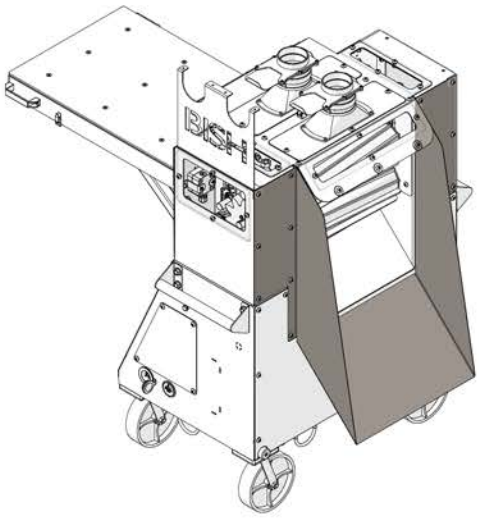
- **Research-Engineered Design**
  Built specifically for universities and R&D programs — not adapted from a production machine.
- **Dual-Motor Power System**
  Independent 1.5 HP decorticator + 0.5 HP feed motor for smooth, consistent throughput.
- **Largest Stalk Capacity in Its Class**
  Handles green, retted, and unretted stalks up to 1.75 inches.
- **Advanced Safety Package**
  Dual emergency stops, guarded infeed, and controlled feed speed.
- **Clean, Efficient Discharge**
  Anti-wrapping design reduces buildup and improves fiber quality.
- **Digital Research Monitoring**
  Real-time RPM, torque, and load data for precise, repeatable results.
- **Compact & Portable**
  Fits through standard doorways; multiple wheel configurations available.
- **Intuitive Operation**
  Simple, student-friendly controls for fast training.
- **110/120V Plug-and-Play Power**
  Runs on standard outlets — no special electrical setup required.
- **Adjustable Working Height**
  Swivel-lock wheels and riser options for ergonomic operation.
- **Custom Branding**
  Optional custom paint and logo application for program identity.

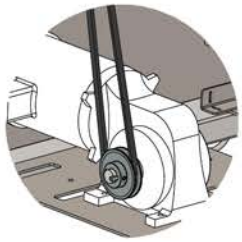
1 YEAR WARRANTY*
* except wear parts





Specifications



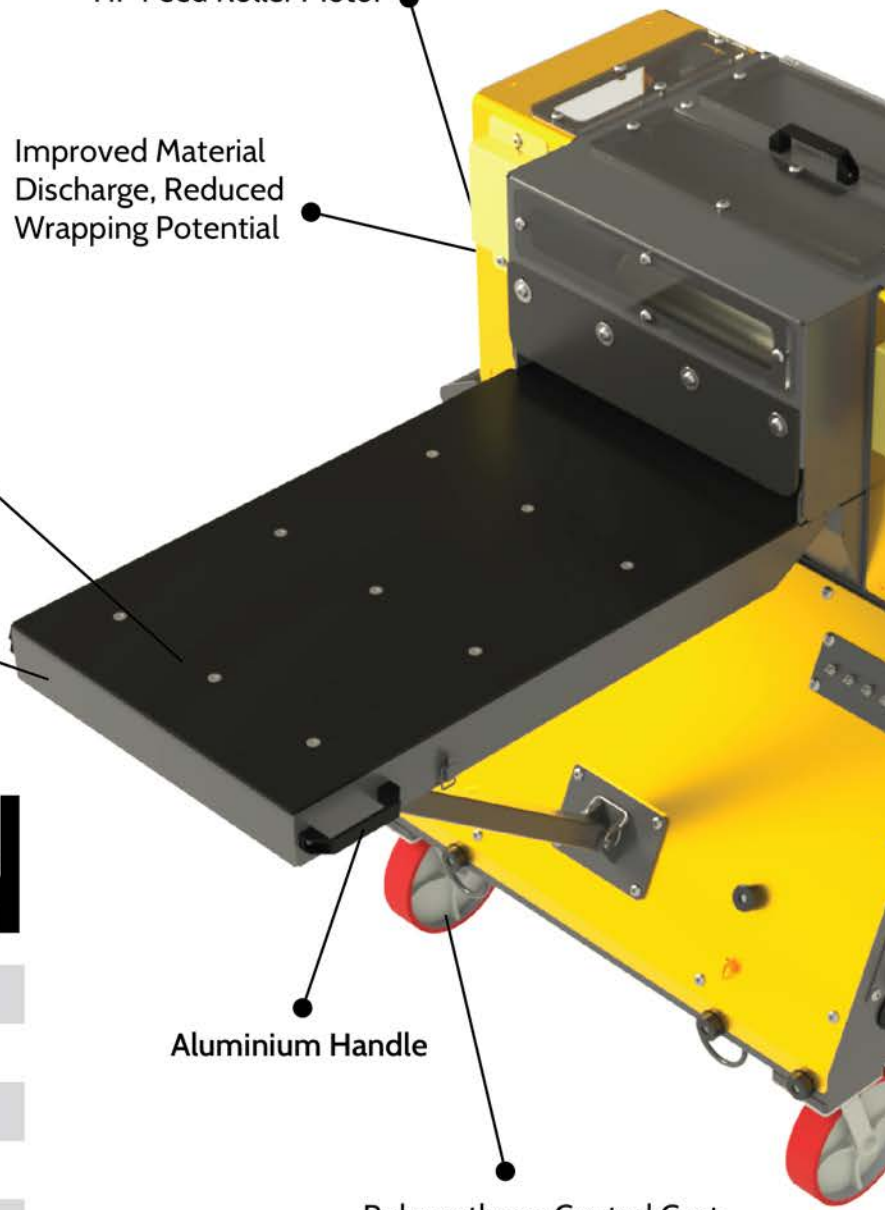


HP Feed Roller Motor

Improved Material Discharge, Reduced Wrapping Potential

Fiber Track Front Base Plate Plastic Cover

Fiber Track Feeding Table



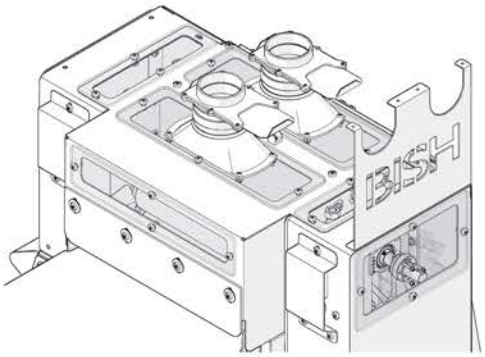
Aluminium Handle

Polyurethane Coated Cast Iron Wheels With Swivel and Side Brake

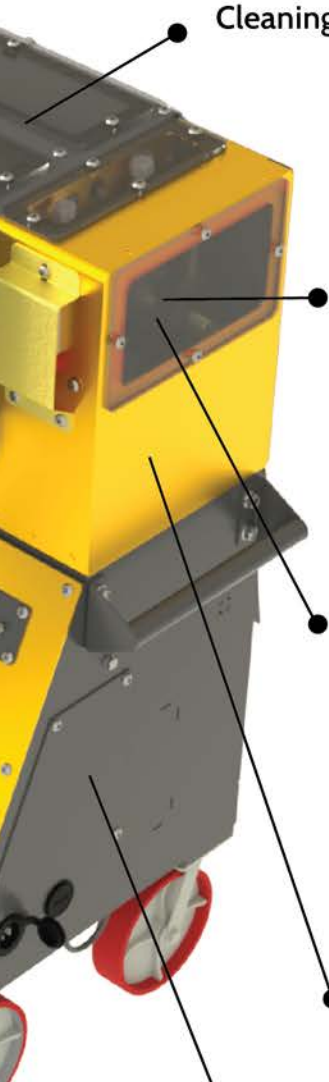


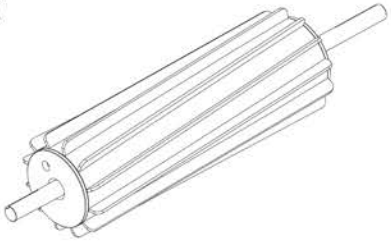
OPERATION

Stalk Capacity	Up to 1.75”
Safety	Dual Emergency Stops
Operators Needed	Single Operator
Feeding Method	Automatic feed rollers
Noise Level	Low-Noise induction motor
Mobility	Compact, Easy to Move
Output	110–220 lbs/hr
Hemp Varieties	Handles all stalk types (green, retted, unretted)
Easy to operate	Intuitive controls + controlled feed speed

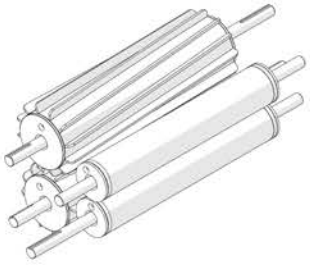


Additional Vacuum Attachments for Material Cleaning

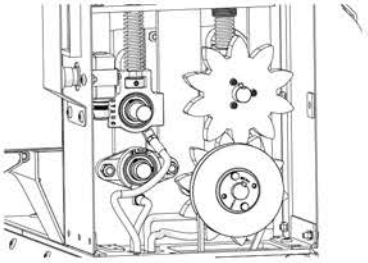




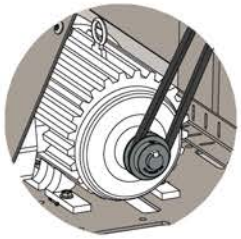
5" Decorticator Roller Diameter



Decortication Rollers (continued)



Adjustable Rollers Height



1.5 HP 3- Phase Induction Motor

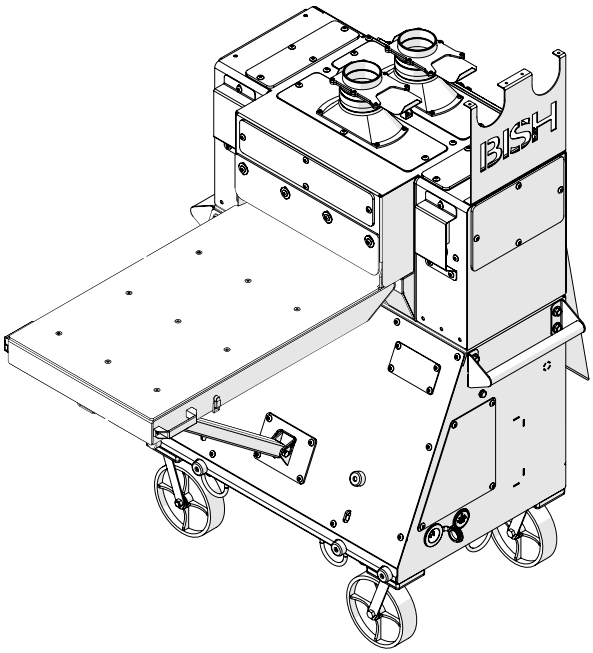
Up to 1.75" Stalk Capacity

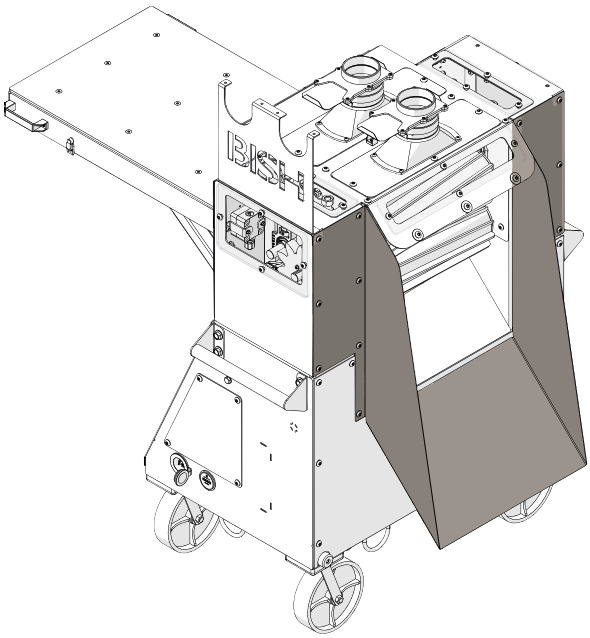
TECHNICAL SPECIFICATIONS

Dimensions (L x W x H)	42.85 x 62.08 x 51.75
HDPE Replaceable Tabletop Dimension (inches)	20.5 x 39.5 x 0.25
Decortication Roller Motor HP	1.5
Decortication Roller Motor RPM	1800
Feed Roller Motor HP	0.5
Feed Roller Motor RPM	1750
Decortication Roller Diameter (inches)	5
Roller Tooth Height (inches)	0.75
Feed Roller Diameter (inches)	3.5
Roller Shaft Length (inches)	30.25
Decorticator Finishing	Powder Coated
Decorticator Roller Finish	Zinc Plated
Wheels Diameter (inches)	8
Harvesting Shoot length (inches)	34.253
Remote Zercs Qty	8
PLEXIGLASS thickness (inches)	0.25
Emergency Stop Switches	2
Wheels with Swivel Lock	YES

Competitive Advantages

Feature	Bish Decorticator	Competing Models
Motor Power	**DUAL MOTOR SYSTEM:** 1.5 HP decortication motor + 0.5 HP feed motor	Single motor (1 HP, 2 HP, or 5 HP gas)
Stalk Capacity	Up to 1.75”	Typically 1” or less
Emergency Stop	Dual emergency stops	0–1 button
Material Discharge	Optimized anti-wrapping design	High fiber wrapping risk
Research Monitoring	Digital readout & torque display	No digital tracking
Power Requirements	110/120V standard outlet	Requires 220/240V or gas
Portability	Fits through standard doorways; wheel options	Bulky, stationary
Maintenance	Easy access + replaceable tabletop	Hard to service / limited access
Training Needed	Intuitive controls — minimal training	Can require operator experience
Customization	Custom colors + logos	Not offered





One Machine. Two Markets.

BENEFITS FOR RESEARCH INSTITUTIONS

Built for accuracy. Designed for repeatability. Trusted in education.

- **Purpose-engineered for research environments** — not adapted from a production machine.
- **Digital monitoring** (RPM, torque, power load) enables data collection, experimentation, and analysis.
- **Consistent, clean separation** ideal for process trials, fiber testing, breeding programs, and material science studies.
- **Safe for students and new operators** with dual emergency stops, guarded infeed, and controlled feed speed.
- **Handles more stalk types** for wide experimental flexibility:
  Unretted stalks: up to 1.15”
  Retted stalks: up to 1.5”
  Green stalks: up to 1.75”
- **Compact, wheeled, plug-and-play 110/120V design** fits easily into labs, universities, and research facilities.
- **Perfect for curriculum integration**, demonstration labs, and hemp education programs.

This machine supports rigorous academic work while remaining intuitive and safe enough for hands-on learning.

BENEFITS FOR COMMERCIAL OPERATIONS

A precision tool for evaluating, grading & optimizing material.

- **Material Grading & Quality Control**
  Quickly evaluate fiber quality, hurd characteristics, retting level, moisture behavior, and stalk condition before feeding full loads into large industrial machines.
- **Dial-In Machine Settings Before Production**
  Digital power-load and torque data reveal how stalk varieties behave — helping operators fine-tune tension, roller pressure, and feed speed on their big machines.
- **Prevent Expensive Slowdowns**
  Identify problem batches before they enter a large decorticator, reducing risks of wrapping, clogs, and production delays.
- **Optimize Farmer Deliveries**
  Use it as a grading tool to classify purchased material from growers based on performance, retting consistency, or maturity.
- **Small-Batch R&D for New Product Lines**
  Perfect for testing new cultivars, new farming partners, or new fiber/hurd product mixes without stopping commercial lines.
- **Fast, Operator-Friendly Setup**
  No 220V, no complex wiring — roll it into place, plug into a standard outlet, and begin evaluating material.

Commercial teams can use the Bish Decorticator as a pre-processing diagnostic tool, bringing laboratory-level insight into the production environment.



Serving The Agricultural Community Since 1976.

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1976

MADE IN THE USA

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