ALMACO R1 Rotary Combine Specifications

Engine Package

Engine
- 173 HP Cummins QSB4.5 – turbo charged 4-cylinder
- Tier 4 Final emissions compliant

Cooling package
- Radiator, charge air, & hydraulic coolers
- Hydraulic driven reversible fan
- Auto set or manual reverser

Fuel tank - 66 gallons stainless steel

DEF (Diesel Exhaust Fluid) tank - 5 gallons

Multi-pad pump drive for efficient/compact hydraulic pump mounting
- Combination of gear, load sense, & closed loop piston pumps
- Manifold/cartridge style valves
- Hydraulic reservoir – 33 gallons

Cleaning System

Sieve
- Quick release, single sieve - 72” long x 20.75”
- 16mm fixed Graepel-style standard
- Fixed and adjustable sieves available for all crops

Shaker/air lock/conveyor drive
- Robust, compact, hydraulic driven mechanical drives to improve efficiency & reliability.

Cleaning slope fan
- Hydraulic driven
- Electronic speed adjustment from cab
- 450-1500 rpm

Sieve fan
- Hydraulic driven
- Electronic speed adjustment from cab
- 450-1700 rpm

Ground Drive - TorqueKing 4WD Optional

Wheel motors
- Poclain wheel motors
- Four-wheel parking brakes
- Two speed ranges, 12 MPH transport, 8 MPH work speed
- Capable of climbing slopes up to 30% grade

Tandem hydraulic pump with electronic control

Tires
- 14.9-24 (ag lug) for minimal ground compaction
- 12.5-15 (ag lug) for minimal ground compaction

Chassis

Machine dimensions
- Wheelbase - 99”
- Wheel track - 60” or 66”
- Ground clearance - 11”
- Break-over angle - 20°
- Gross vehicle weight
  - With 60” Floating Standard Header ~15,300lbs
  - With 60” Floating Standard Auger Header ~15,500lbs
  - With 2row Floating Row Crop Header ~15,100lbs
  - With 2row Corn Header ~15,200lbs
- Transport height – 127”

Steering
- Double rod steering cylinder for equal steering
- Turning circle - 30.5” diameter

Controls & Wiring

Operator interface
- 7” high resolution color display for machine feedback
- Single access point to all electronically adjustable features

Operator console
- Joystick
- Friction hold for stable machine operation
- Local hot keys for features frequently adjusted during harvest mode
- Encoder/button module
- Convenient/ergonomic access to HMI navigation

Control system
- Full electronic control with CAN bus communication
- Independent micro-controllers for cost effective/ﬂexible expansion
- Sensors provide real time feedback on all critical machine functions

Cameras
- Four camera system with multi-view screen standard (backup, grain tank, cyclone and seed tube).
- Up to 4 additional cameras may be added for user convenience

Threshing & Separation System

Rotor
- Diameter - 15.5”
- Length - 99”
- Hydraulic pump with electronic control/adjustment
- High torque 2 speed drive
  - 200-800 RPM low range
  - 800-1200 RPM high range
- Electronically reversible from cab
- Replaceable flighting edges & threshing elements
- Patent pending top feed design
- Integrated LED lights for easy inspection - Optional

Concaves
- Five removable/interchangeable sections
- Electric over hydraulic adjustable concave clearance from cab
- 1/8” to 1-1/4” opening
- Auto open upon threshing rotor reverse

Straw Chopper - Optional
- Hinged chopper design for easy access to rotor drive and sieve

Cab

Exterior features
- Curved windshield
- Windshield wiper with washer fluid
- Fiberglass roof cap
- Integrated LED lighting package
- Side mirrors
- Electronically actuated - Optional
- Cab access ladder
- Electronically actuated - Optional

Interior Features
- Increased glass surface area for maximized visibility
- Operator’s seat with air ride suspension
- Heated/cooled - Optional
- Adjustable seat mounted console for operator comfort
- Secondary seat with adjustable forward or rearward facing configurations; Flip up for compact storage
- Steering column - dual tilt & telescoping
- Radio with AM/FM/WB/CD/USB/Bluetooth/Aux In - Optional
- Automatic climate control
- Integrated cup holders

Subsampling
- Full bagging access from cab
- Subsampling access from cab

Product specifications are subject to change without prior notice

10.05.2018
ALMACO R1 Rotary Combine Specifications

Seed Delivery

Air lock
- Removable metering wheel for cleanout/inspection
Seed delivery blower
- Selectable speed settings for minimized grain damage in a variety of harvest conditions
Tubing/elbows
- 6” diameter for large capacity without excessive air velocity
- Transport grain to weigh system without the use of augers
Cyclone
- Electrically operated for easy transition from road to harvest

Grain Tank

40-bushel capacity
10'-6" unload auger discharge height
High speed unloading system designed for easy cleanout

Hydraulically Dumping Bag Tank- Optional

11-bushel capacity
72" discharge height

Safety / Maintenance

Safety compliant guarding
Prominently placed amber hazard warning lamps
Operator presence system
Two fire extinguishers
Centralized LOTO system
Easy access to common service points
Spare parts kit and toolbox mounted in cab for easy access - Optional
Air Compressor

Header Selection

Row crop header
- JD 50 A series row crop gathering chains with flap style belts
- 2 row 30” row spacing
- 2 row 40” row spacing
- 2 row 30”-40” adjustable
- Mechanical floating capability
  - Hydraulically driven with electronic control/adjustment
  - Reversible
Throat/pinch belt
- Hydraulically driven with electronic control/adjustment
- Reversible
Standard Header - Reversible
- Standard Floating Header with Forced Air Cleanout
- Standard Floating Auger Header with Forced Air Cleanout
- Multiple cutting width options
Corn Header - Reversible
- JD Row Units
  - 2,3,4 Row
Grain Analysis/Data Collection

Installed grain analysis system
- ALMACO SeedSpector LRX datacollection system
  or
- HarvestMaster data collection system

Additional Options

APx automated packaging technology
Air compressor
Seed devitalization system
Multiple electronic data collection systems
Multiple header options

Join the Revolution!

515-382-3506
Sales@almaco.com
WWW.ALMACO.COM