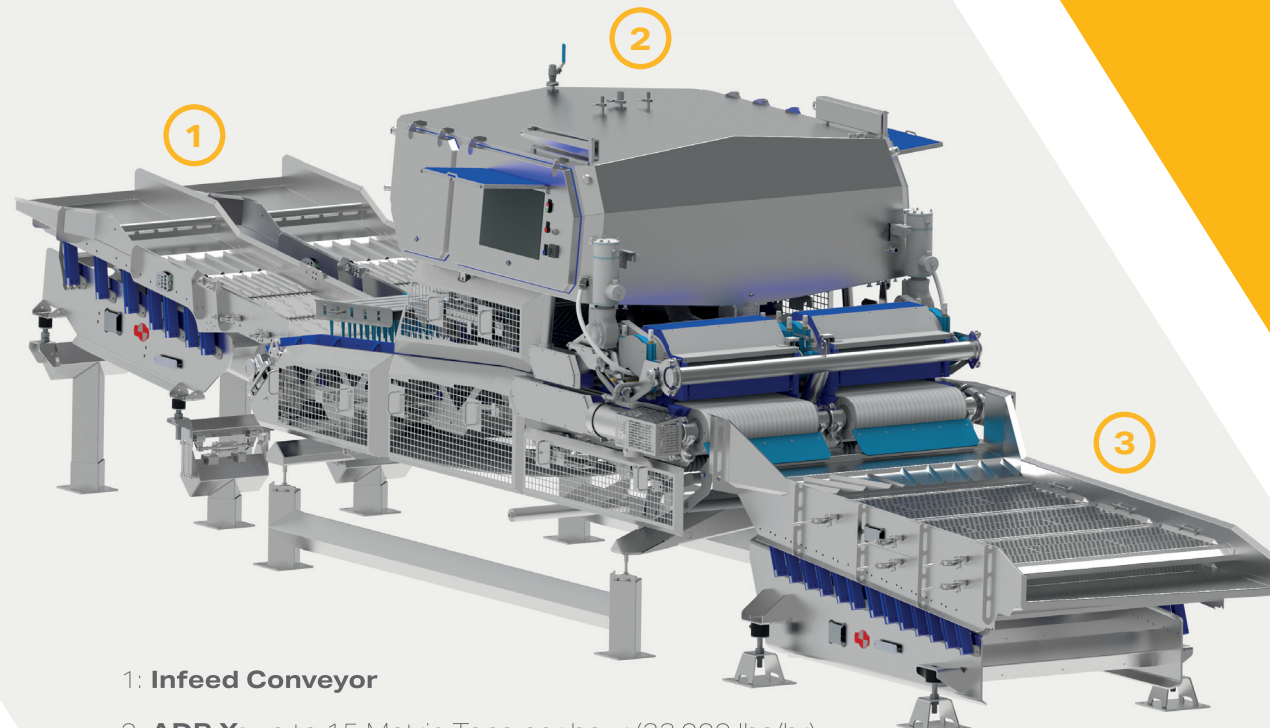
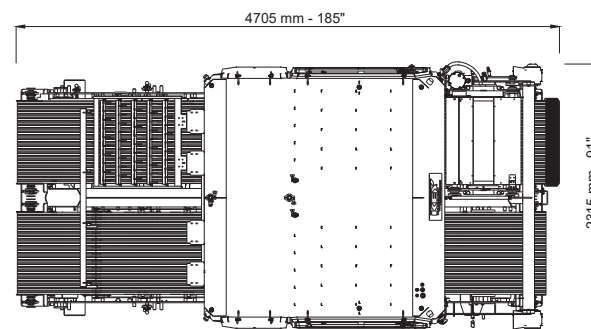




1: **Infeed Conveyor**

2: **ADR X:** up to 15 Metric Tons per hour (33,000 lbs/hr)

3: **Nubbin grader:** optimizes nubbin removal and recovery of good product

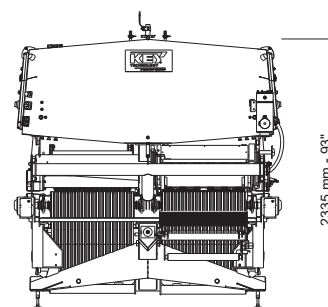
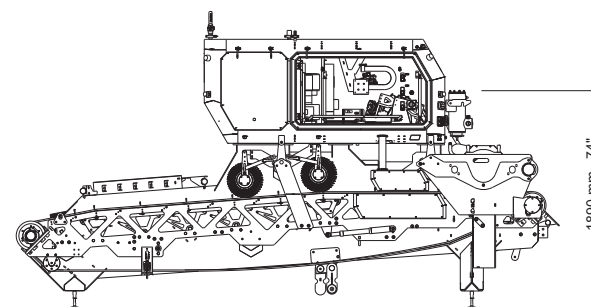


Capacity: up to 15 Metric Tons per hour
(33,000 lbs/hr)

Air Consumption: Typical: 42,5 M³/h (25 SCFM)

Water Usage: Typical: 38 LPM (10 GPM)
@ 3,4 BAR (50 PSI)

Power Consumption: 9 KW/h



ADR X

NEXT-GENERATION
AUTOMATIC DEFECT REMOVAL SYSTEM
FOR POTATO STRIPS

ADR X: A proven system — re-engineered for today's processing demands

ADR X is the latest generation of the well-established ADR system. It is designed to meet higher capacity requirements, stricter hygiene standards, and increased demands for reliability, while building on more than 40 years of ADR expertise and a large global installed base. ADR X combines proven mechanical principles with modern detection technology, automated functions, and an integrated hygienic design.

SYSTEM DESCRIPTION

ADR X is a fully automated defect removal system designed for continuous operation in wet potato processing environments. The system is delivered as a single assembled unit, with an integrated monocoque frame, on-board electronics, and simplified utility connections. Sloped surfaces and reduced exposed components help minimize product buildup and support efficient cleaning. ADR X can be installed as part of a new line or as a 1:1 replacement for existing ADR systems with minimal layout changes.

CAPACITY AND PERFORMANCE

ADR X is engineered to deliver industry-leading capacity while maintaining stable and repeatable sorting performance. Compared to ADR 5 EXOS, ADR X offers a substantial boost in capacity, depending on product quality, feed conditions, and recovery strategy. Higher throughput per hour enables improved line efficiency and higher yield per ton.

DETECTION AND SORTING

ADR X features an updated detection architecture featuring next-generation multispectral LED V2 lighting, multi-channel camera technology, and NEXT platform electronics. This combination improves color separation and defect sensitivity while maintaining consistent performance during long production runs, with active background lighting.

OPERATION AND ADJUSTMENT

A remote interface remains available if required. Key mechanical adjustments have been simplified, with fewer cutter wheel height adjustment points, an improved brush-back system, and an automated, recipe-driven bed shift — enabling streamlined, automated setup.



MECHANICAL DESIGN

The ADR X mechanical architecture has been redesigned to improve hygiene, reliability, and serviceability. It features a monocoque frame construction, sloped surfaces, reduced exposed utility piping, integrated electronics, and fewer components above the product stream. Dedicated gearmotors streamline the drive system and enhance long-term reliability.

TRANSPORT BELTS AND BRUSH-BACK

ADR X uses endless urethane transport belts with internal fiber reinforcement for improved durability, faster replacement, and minimal belt stretch. The brush-back system is driven by an oil-free hygienic motor with integrated bearings, offering low energy consumption and high performance.

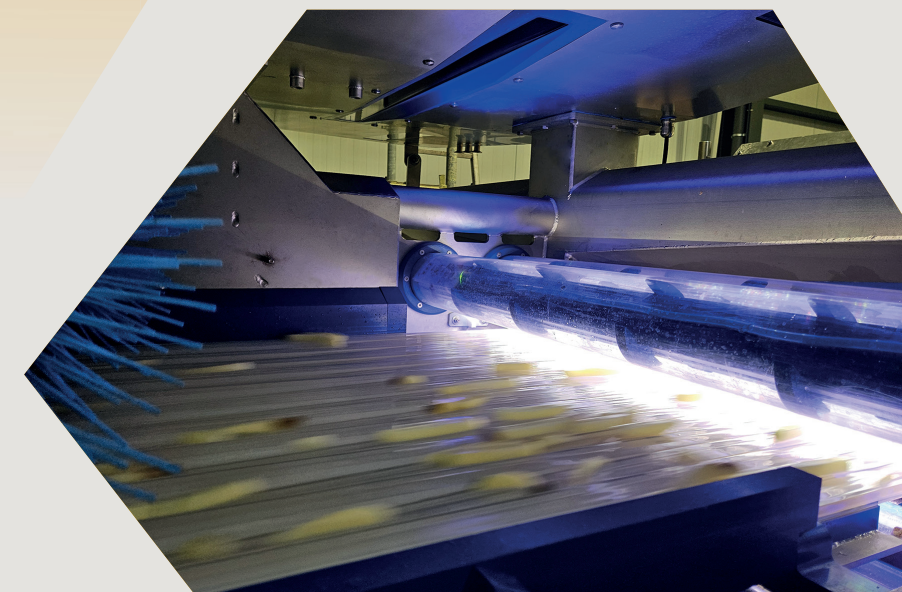
CLEANING AND HYGIENE (CIP)

ADR X advances ADR cleaning concepts with a redesigned approach that improves effectiveness and uptime. The system includes Clean-Belt CIP systems on both sides, spray bars for head and tail pulleys, cutter-wheel spray bars, and an advanced scraper system cleaning belt tops and sides.

INSTALLATION AND UTILITIES

ADR X is supplied as a compact, plug-and-play unit designed to reduce installation time.

KEY'S CUTTING EDGE TECHNOLOGY



LOW-RISK PATH TO HIGHER PERFORMANCE

ADR X combines next-generation detection and automation with an improved mechanical platform, delivering higher performance with minimal operational risk.