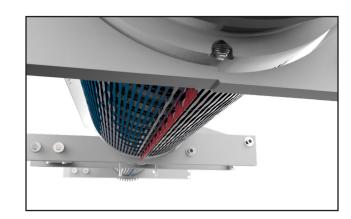# ADR EXOS™ Upgrade
For ADR®5

Increase Recovery Enhance Performance Improve Reliability

ADR EXOS™ is the latest advance in Key's nearly 40-year history of automatic defect removal technology for the potato industry. As the only vision system on the market designed specifically to cut out defects from potato strips, ADR recovers french fries with defects and turns them into "good" product, directly increasing yield. Featuring a new cutterwheel design and intelligent software, the next-generation ADR EXOS better manages strip quality and length while improving product recovery to maximize process profitability.

ADR EXOS improves your bottom-line through increased recovery, more throughput, increased cutting precision, higher reliability, lower maintenance costs and more uptime.

New Features

- 90% more knives to cut closer to the defect
- Variable Aggression Cutting (VAC)
- Cutterwheel twist compensation and improved indexing accuracy
- New smart diagnostics
- Improved knife position management
- New carousel material offering less friction and enhanced detectability in case of accidental breakage
- New drive system

Benefits

- **Increase Recovery** - Increase average strip length by 2mm; make shorts acceptable and make minimum numbers for length grades.
- **Increase Recovery** - Dynamic management of the cut location relative to defect position on the strip.
- **Enhance Performance** - Higher precision of cut location.
- **Improve Reliability** - Ability to correct knife issues (stuck out knives, failed deployment), improving defect removal performance and reducing losses due to incorrect cuts.
- **Improve Reliability** - Prevent accidental knife deployment and unintended cuts.
- **Improve Reliability** - Reduced risk of failure; reduced risk of product stream contamination in case of breakage.
- **Improve Reliability** - Improved machine availability; reduced maintenance costs.

Included in the upgrade:

- Two complete EXOS cutterwheels* - 1 left-hand and 1 right-hand (includes manifolds, diagnostic sensors, spray bars and lifting fixture)

- New drive system kits - 1 left-hand and 1 right-hand (includes motors, gear boxes, pulleys, belts, brackets, safety covers, etc.)

- Templates, alignment tool, fittings and cables to modify the ADR5 frame for the larger cutterwheels and connect them to G6.**

- G6 software – Version 2.3 or newer (includes ADR EXOS 1.0.1 KeyWare®). Windows® based ADR EXOS Diagnostics Tool available upon request

- ADR EXOS Upgrade manual

Suggested Extras:

- ADR EXOS Spares Kit
- Spare Cutterwheels
- Knife Extraction Tool
- CleanBelt Upgrade
- Brushback Upgrade
- New Cutterwheel Rebuild Stand
- New Ejector Manifold Rebuild Stand

Shipping frames can be re-used as storage racks for spare and rebuilt cutterwheels

** *Requires two customer-supplied Ethernet cables from control panel to superstructure*

Cutterwheel Comparison ADR EXOS™ and ADR®5

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