Ooznest Limited
The Yard, Old Crown Lane
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CM145TA

www.ooznest.co.uk

Essential Health and Safety Requirements (EHSR) Checklist

Product: Belt Drive Linear Actuators (BDA**, MBDA**)

Classification: Partly Completed Machinery (PCM)

Regulatory Framework: Supply of Machinery (Safety) Regulations 2008

Document Number: EHSR000001

Assessed By: Ryan Lock

Date: 17/10/2026

EHSR 1.1.2 - Principles of safety integration

- **Status:** FULFILLED
- **Justification:** The actuator is designed to eliminate sharp edges, with all aluminium extrusions de-burred. Operating limits (speed and torque) are calculated and provided to the end-user via the Ooznest Interactive Load/Speed Calculator to prevent dangerous overloads or mechanical failure.

EHSR 1.3.2 - Risk of break-up during operation

- **Status:** FULFILLED
- **Justification:** All transmission hardware (timing belts, pulleys, V-wheels) is rated for the advertised working loads.

EHSR 1.3.7 - Risks related to moving parts (Guarding)

- **Status:** PARTIALLY FULFILLED / DEFERRED TO INTEGRATOR
- **Justification:**
    - *Fulfilled (Transmission):* Ooznest supplies dedicated plastic covers that physically guard the transmission machinery (pulley and idler interfaces) to prevent drawing-in and entanglement hazards.
    - *Deferred (Overall Enclosure):* As Partly Completed Machinery, the final full enclosure of the moving gantry system is deferred to the final machine builder. The final machine must be suitably guarded by the integrator before being put into service.

EHSR 1.5.1 - Electricity supply

- **Status:** FULFILLED
- **Justification:** Supplied NEMA stepper motors are CE/UKCA compliant, meeting applicable EMC and RoHS requirements. Standardized, tested wiring diagrams are provided to ensure safe electrical integration.

EHSR 1.6.1 - Machinery maintenance

- **Status:** FULFILLED
- **Justification:** Adjustment points (such as eccentric spacers and belt tensioning mechanisms) are designed to be easily accessible. Comprehensive maintenance documentation is provided.

EHSR 1.7.4 - Instructions

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- **Status:** FULFILLED
- **Justification:** Comprehensive integration instructions, wiring diagrams, maintenance schedules, and load calculators are hosted centrally on the Ooznest resources site. This documentation accompanies the hardware via an insert card placed in the physical packaging.

Note: All other EHSRs are deemed Not Applicable.