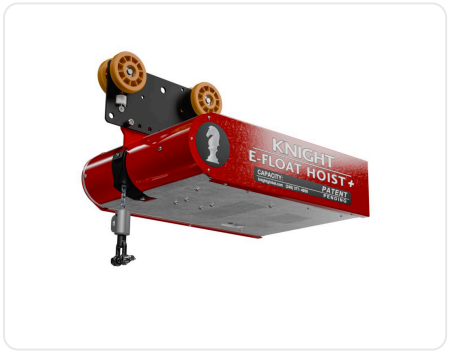
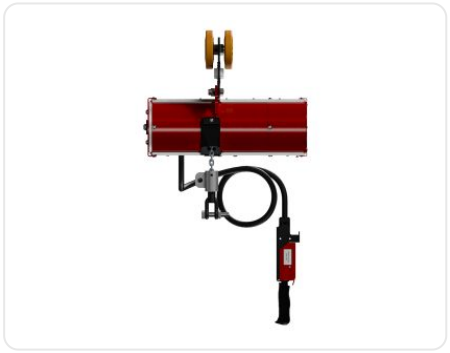
E-Float Hoist

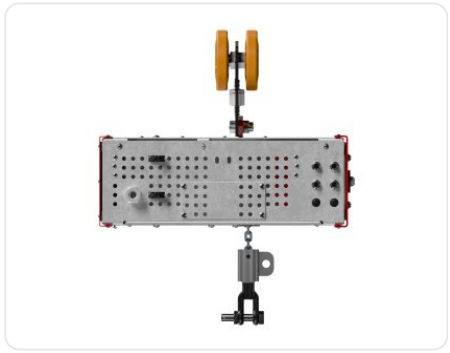




E-Float Hoist™



Front view



Rear view



Side view



Bottom view

Knight Global E-Float Hoist™

Series: KSBA150 / KSBC150 / KSBC300

The Knight E-Float Hoist™ is a **high-performance servo hoist** designed for flexible, efficient material handling. It features Knight's **exclusive Float Mode** without the need for an inline load cell.

Its extremely **low-profile** design reduces stack-up height, making it ideal for space-constrained environments. Maximum lifting capacity is up to **300 lbs [136 kg]**.

The sealed gearbox ensures durability and smooth operation. The **modular** construction allows quick access during inspection or maintenance. An **E-Float Hoist+** version is available with custom tooling integration, custom programming and full I/O capability.

***Note:** Models ending in **-P** are the **E-Float Hoist+** version with full I/O. Contact FULLSHARP for advice on the right configuration for your project.

General information — E-Float Hoist includes

Mechanical

- Low profile — reduced stack-up height.
- Available with **wire rope or link chain**:
- Holding Brake.
- Chain/rope travel — **80 in. standard**.
- Sealed Gearbox.
- Meets and exceeds industry standards.
- **H5** rating — continuous duty cycle.
- Modular design for fast maintenance (including rope/chain replacement).
- **CE and UL** compliant.
- Speed — up to **241 fpm [73.5 mpm]**.
- Maximum capacity — up to **300 lbs [136 kg]**.

Software

- Auto-Balance Mode up to 300 lbs.
- STO — Safe Torque Off.
- Enhanced user interface (UI).
- Ethernet connectivity.
- Programming / Diagnostic port.
- Speed Reduction Zones.
- Impact Limiting.
- Active Damping.
- Knight-exclusive **"Float"** Mode.
- Programmable Overload capability.

- Advanced Diagnostics and Fault Monitoring.

Electrical

- Load Sensing.
- **240V** operation.
- Status LED indicators: green and blue illuminated buttons.
- Fault LED: illuminated Run / Stop.
- Standard control handles:
- Standard power cable: straight cable (KCA1041-10).

Optional features **

**** E-FLOAT HOIST+ version only**

*Load trolley NOT included — see Accessories below

- Wireless control handle.
- Fixture Handle.
- Inline Handle.
- Balancer chain hook (BPA2113).
- Custom programming to user requirements. **
- 24 VDC, 2 AMP power for custom tooling: **
- I/O capability: **

E-Float Hoist specifications

	Model *	Max Capacity lbs [kg]	Max Speed fpm [mpm]
WIRE ROPE	KSBA150-80-S-2401-002	150 lbs [68 kg]	241 fpm [73.5 mpm]
	KSBA150-80-P-2401-002	150 lbs [68 kg]	241 fpm [73.5 mpm]
CHAIN	KSBC150-80-S-2401-002	150 lbs [68 kg]	241 fpm [73.5 mpm]
	KSBC150-80-P-2401-002	150 lbs [68 kg]	241 fpm [73.5 mpm]
	KSBC300-80-S-2401-002	300 lbs [136 kg]	241 fpm [73.5 mpm]
	KSBC300-80-P-2401-002	300 lbs [136 kg]	241 fpm [73.5 mpm]

* Models ending in **-P** are the **E-FLOAT HOIST+** version with full I/O | BA = Wire rope | BC = Link chain

Controls



Analog remote control handle — rocker style KCA1213 Weight: 2.5 lbs [1.13kg] UP/DOWN rocker switch.; Illuminated Run/Stop button.; Lightweight 3D-printed plastic housing.; Ethernet port for parameter setup.



Analog remote control handle — lever style KCA1214 Weight: 2.9 lbs [1.3kg] UP/DOWN thumb lever.; Illuminated Run/Stop button.; Lightweight 3D-printed plastic housing.; Ethernet port for parameter setup.



Inline handle with trigger KLCA1080 Weight: 15 lbs [6.81kg] Load Monitoring Module (LMM).; 500 lbs load cell.; M12 Ethernet port.; Enhanced feedback, high productivity.

General accessories



Air balancer chain hook BPA2113 2.4 lbs [1.08kg] Crosby® self-closing gate hook.; Fast, secure connection.; 360-degree swivel.



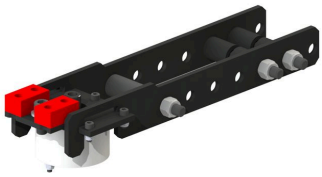
Safety chain shackle BPA2410 2.7 lbs [1.23kg] 360-degree swivel.; Steel construction.; Safety cable connection.



Hook with Bail and Latch BPA2020 0.8 lbs [0.36kg] Lif-Lok® latch.; Max load: 2,000 lbs [907kg].; Keeps load in line with the chain.



Precision chain wear gauge KSAA1003 0.87 lbs [0.39kg] Steel construction.; Measures 4mm & 5mm zinc-plated chain.



Servo Hoist rail brake KSAA1011 6.0 lbs [2.72kg] Parking or drag brake.; Replaceable brake pads.; Mounts in front of or behind the hoist.

Load trolley

General features

- High-impact glass-filled nylon wheels.
- Side guide rollers with integrated bearings.

- Double-shielded wheel bearings — no lubrication required.
- Continuous operating temperature: **-29°C to 120°C**.
- Compatible with Knight RAD4110 / RAD6110 / RAD7510 aluminum rail systems.

Matching trolley models

- **KSAA1050** — RAD7510 rail | Max: 2,500 lbs [1,134kg] | 9.5 lbs [4.31kg]
- **KSAA1059** — RAD6110 rail | Max: 1,600 lbs [725kg] | 7.6 lbs [3.45kg]
- **KSAA1048** — RAD4110 rail | Max: 900 lbs [408kg] | 4.5 lbs [2.04kg]

***Note:** The load trolley is **NOT included** in the standard hoist package — it must be ordered separately. Contact FULLSHARP to select the correct trolley model for your existing rail system.

Cables & disconnects

Power cables

- **KCA1041 — Straight Cable** (E-Float Hoist standard):
- **KCA1040 — Coiled Cable**:

Disconnects

- **KCA1018 — 3KVA box**: 480VAC → 240VAC, for single servo hoist strings.
- **KCA1055 — 5KVA box**: for double/triple servo hoist strings.
- **KCA1001 / KCA1102 — Disconnect stands**: adjustable height, floor-mounted.
- **KCA1100 — I-Beam Column Mount Kit**: no column drilling required, multiple mounting orientations.

Technical documents

Brochures

- E-Float Hoist™ — Product Brochure PDF
- Servo Systems Brochure — Knight Global servo line overview PDF
- Knight Global Industry 4.0 Capabilities PDF
- Rotary Union Brochure — Cable/hose anti-tangle devices PDF
- Knight Servo Configuration Software ZIP

Installation guides

- Eye Bolt Safety Cable Installation Instructions PDF
- Knight Rotary Union Guide PDF
- Safety Cable — End Trucks, Hangers, Trolleys PDF
- Servo System Inspection Checklist PDF

FULL-SHARP AUTOMATIZED VN (FULLSHARP)
Authorized distributor of Knight Global servo lifting equipment in Vietnam
For help selecting the right E-Float Hoist for your project, please contact a FULLSHARP representative for a

quotation and detailed technical advice.

Contact us for consultation and a quotation

Vietnam factory: Workshop A1-1, VSIP Hai Phong, Nam Trieu Ward, Hai Phong City · +84 817 888 198
Taiwan factory: Zhongli District, Taoyuan City · +886 3-451-8806
Email: sales@fullsharp.com.vn · **Website:** www.fullsharp.com

Specifications may vary with the ordered configuration. Please contact FullSharp for exact details.