SDS Speed Hoist





SDS Speed Hoist overview



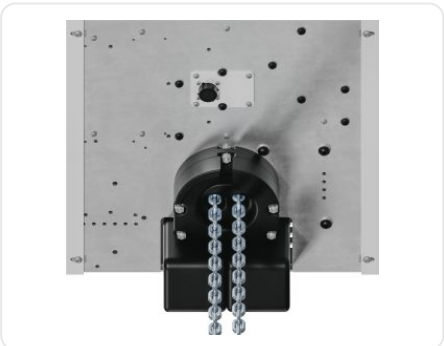
SDS Speed Hoist side view



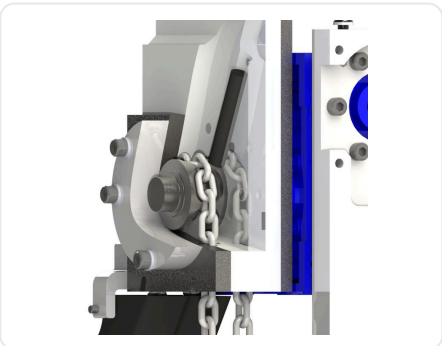
100 lbs Speed Hoist series



KCA1110 analog handle



Underside — SDS dual chain



Gearbox lubrication stick

SDS high-speed electric hoist

Model: KSH200SS / KSH400SS / KSH750SS / KSH1000SS / KSH100LS

The SDS Speed Hoist is the latest electric hoist from Knight and shares many features with the **D-Series Servo Hoist**, including the patented dual-chain safety system **"Safety Drop Stop" (SDS)**. It uses a simple analog handle with UP/DOWN buttons, so operators need minimal training. The handle provides jog control and adjustable acceleration/deceleration.

The Ethernet port on the handle connects to **Knight Servo Studio** software to set parameters: height limits, slow-down zones and hoist speed control. An integrated **graphite lubrication stick** in the gearbox keeps the chain continuously lubricated. Load capacity up to **453 kg** — maximum speed **50 in/sec** with no load.

***Specification:** "XXXX" = **2401** (240VAC, 1-phase) or **4803** (480VAC, 3-phase)

SDS Speed Hoist series: KSH200SS-2401-006 | KSH400SS-2401-006 | KSH750SS-2401-006 | KSH1000SS-2401-006
KSH200SS-4803-006 | KSH400SS-4803-006 | KSH750SS-4803-006 | KSH1000SS-4803-006

100 lbs Speed Hoist series: KSH100LS-1201-006

General information

Mechanical

- Redundant dual safety chain (SDS):
- Knight patented chain — longer service life
- Two separate chain containers
- Chain length: unlimited (standard 3.6–5.5 m)
- Sealed worm-style gearbox
- Speed: up to 73 m/min [241 fpm]
- Maximum capacity: up to 453 kg [1,000 lbs]
- Integrated graphite lubrication stick

Electrical

- Analog UP/DOWN thumb switch
- Input power: 240VAC 1-phase or 480VAC 3-phase
- Fault LED indicator; Run-Stop button, twist to release
- Ethernet port for Knight Servo Studio programming and fault diagnostics

100 lbs capacity series information

- Single-chain design
- Knight patented chain
- Single chain container
- Chain length: 3.65 m standard
- Sealed worm-style gearbox

- Speed: up to 58 cm/sec [23 in./sec]
- Maximum capacity: up to 45 kg [100 lbs]
- Integrated graphite lubrication stick
- Analog UP/DOWN thumb switch
- Input power: 120VAC, 15A, dedicated circuit
- Fault LED indicator; Run-Stop button, twist to release
- Ethernet port for Knight Servo Studio

SDS Speed Hoist specifications*

Part number*	Capacity lbs. [kg]	Max speed fpm. [mpm]	Hoist weight lbs. [kg]
KSH200SS-XXXX-006	200 lbs. [90 kg]	241 fpm. [73.5 mpm]	96 lbs. [43 kg]
KSH400SS-XXXX-006	400 lbs. [181 kg]	120 fpm. [36.5 mpm]	96 lbs. [43 kg]
KSH750SS-XXXX-006	750 lbs. [340 kg]	150 fpm. [45.7 mpm]	126 lbs. [57 kg]
KSH1000SS-XXXX-006	1,000 lbs. [453 kg]	105 fpm. [32 mpm]	126 lbs. [57 kg]

100 lbs Speed Hoist specifications

Part number	Capacity lbs. [kg]	Max speed	Voltage	Weight lbs. [kg]
KSH100LS-1201-006	100 lbs. [45 kg]	23 in./sec	120VAC	55 lbs. [25 kg]

Accessories

Controls



Analog handle — rocker style (standard) KCA1110 Weight: 2.5 lbs [1.13 kg] UP/DOWN rocker switch.; Illuminated Run/Stop button.; Lightweight 3D-printed plastic housing.; Ethernet port for parameter setup.



Electro-pneumatic rotary union (200–400 lbs) KSAA1068 / KSAA1069 Weight: 29.3 lbs [13.29 kg] Prevents twisting of electrical lines, air lines and SDS chains.; Voltage: 24VDC, 2A max.; Max load: 181 kg [400 lbs].; Includes KSAA1004 shackle.



Electric rotary union (200–400 lbs) KSAA1078 Weight: 27.6 lbs [12.52 kg] Prevents twisting of electrical lines and SDS chains.; Voltage: 24VDC, 2A max.; Max load: 181 kg [400 lbs].; Includes KSAA1004 shackle.



Electro-pneumatic rotary union (750–1,000 lbs) KSAA1070 / KSAA1071 Weight: 30 lbs [13.6 kg] Prevents twisting of electrical lines, air lines and SDS chains.; Voltage: 24VDC, 2A max.; Max load: 453 kg [1,000 lbs].; Includes KSAA1004 shackle.

General accessories



Speed Hoist chain hook KSAA1066 Weight: 2.4 lbs [1.08 kg] Connects 4mm chain to the SDS Speed Hoist.; Crosby® Bullard hook — self-closing gate.; 360° swivel, 1-ton rated.; Connects the anti-drop safety chain.



Speed Hoist chain shackle KSAA1065 Weight: 2.7 lbs [1.24 kg] Connects 4mm chain to the SDS Speed Hoist.; Crosby® Bullard hook — self-closing gate.; Quick connection, 360° swivel.; Anti-drop safety chain.



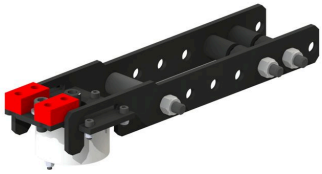
SDS servo hoist replacement chain kit KDSA1010 / KDSA1011 KDSA1010 (4mm): 200–500 lbs capacity.; KDSA1011 (5mm): 350–1,000 lbs capacity.; High-strength, heat-treated, zinc-plated steel.; Includes end clamp and connecting link.



Precision chain wear gauge KSAA1003 Weight: 0.87 lbs [0.39 kg] Measures wear on Knight 4mm & 5mm zinc-plated chain.; Durable steel construction.



Shackle KSAA1004 4140 steel housing, heat-treated to Rock C 38–42.; Connects the load to the servo chain.; Secured by two M6 steel pins.; Max load: 453 kg [1,000 lbs].



Servo hoist rail brake KSAA1011 Weight: 6.0 lbs [2.72 kg] Locks the hoist against travel along the rail.; Pneumatic brake — front or rear mounting.; Works as a parking brake or drag brake.; Replaceable brake pads.

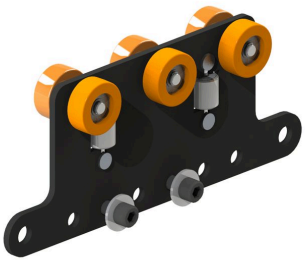
Load trolleys



Load trolley — RAD7510 rail KSAA1050 Max load: 1,134 kg | Weight: 4.31 kg High-impact glass-filled nylon wheels.; Double-shielded bearings, no lubrication required.; -29°C to +120°C.



Load trolley — RAD6110 rail KSAA1059 Max load: 725 kg | Weight: 3.45 kg High-impact glass-filled nylon wheels.; Double-shielded bearings, no lubrication required.; -29°C to +120°C.



Load trolley — RAD4110 rail KSAA1048 Max load: 408 kg | Weight: 2.04 kg High-impact glass-filled nylon wheels.; Double-shielded bearings, no lubrication required.; -7°C to +120°C.

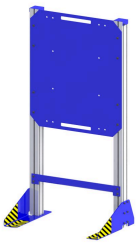
Electrical enclosures & disconnects



3KVA disconnect enclosure KCA1018 Converts 480VAC → 240VAC.; Finger-safe 3KVA transformer.; 15A primary & secondary breakers.; For KSH250S–KSH1000S.



5KVA disconnect enclosure KCA1055 Converts 480VAC → 240VAC.; Finger-safe 5KVA transformer.; 25A primary & secondary breakers.; For dual/triple servo systems.



Disconnect enclosure stand KCA1001 Holds the enclosure at an ergonomic height.; Multiple height adjustments.; Floor mounted, M10×1.5 Nylock bolts.; Standard blue — custom colors on request.



Straight electrical cable KCA1041 Connects the handle to the servo hoist.; 19-pin military-style connectors.; Lengths: 2 ft to 15 ft.

***Note:** All accessories are compatible with the SDS Speed Hoist series. Contact FULLSHARP for help selecting the right accessories for your application.

Technical documents

Catalogs

- SDS Speed Hoist Brochure PDF
- 100 lbs Capacity Speed Hoist Brochure PDF
- Servo Systems Brochure PDF
- Industry 4.0 Capabilities PDF
- Knight Rotary Union Brochure PDF

Spec sheets

- 100 LBS Speed Hoist — KSH100LS-1201-006 Spec Sheet PDF

Manuals

- Speed Hoist Servo System Operation Manual — Rev006-202201 PDF

Installation guides

- Knight Rotary Union Installation Guide PDF

Software

- Knight Servo Configuration Software (Knight Servo Studio) ZIP

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Authorized distributor of Knight Global lifting equipment in Vietnam — VSIP Hai Phong
Contact FULLSHARP for a quotation and advice on the right system configuration for your project.

Contact us for consultation and a quotation

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