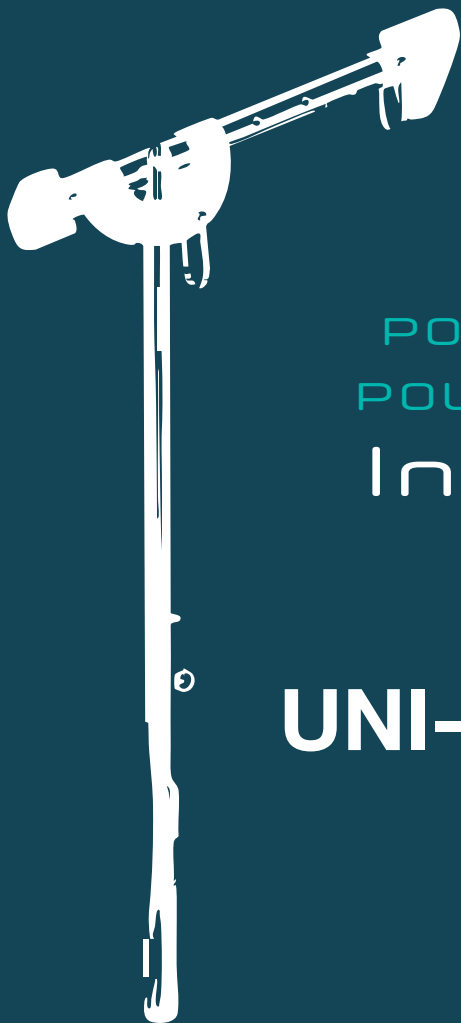




Safehold



COMPLETE
PORTABLE DAVIT &
POLE HOIST SYSTEM

Instruction Manual

UNI-HOIST 2.0™

Read and understand instructions before using this equipment.
Do not throw instructions away.

SHUM-132
Iss. 1

Designed & Made in the UK and USA under license by Safehold USA





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- 61.** Maintenance, Care, and Storage
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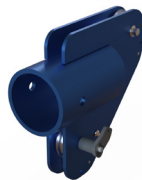
PRODUCT OVERVIEW

- **UNI-HOIST 2.0 Davit Mast** : A lightweight aluminium davit arm or long reach pole hoist assembly providing an overhead anchor point for fall arrest and lifting. It includes a central post, an upper mast with an offset boom, and built-in pulleys to route lifelines over the entry point. The davit can swivel to position the boom directly over a confined space such as a manhole or tank opening and is engineered for one-person setup while meeting the required strength for as a fall arrest anchorage.

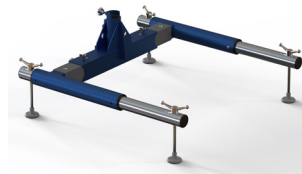
40900	SHUH-A01	UNI-HOIST 2.0 MAST ASSEMBLY
40901	SHUH-A02	UNI-HOIST 2.0 FRONT PULLEY ASSEMBLY
40902	SHUH-A03	UNI-HOIST 2.0 BACK PULLEY ASSEMBLY
40903	SHUH-A04	UNI-HOIST 2.0 PORTABLE FRAME
40904	SHUH-A05	UNI-HOIST 2.0 T SECTION EXTENSION NO.1
40906	SHUH-A07	UNI-HOIST 2.0 EXTENSION LEG
40907	SHUH-A08	UNI-HOIST 2.0 COUNTER WEIGHT TROLLEY (NO WEIGHTS)
40908	SHUH-A09	UNI-HOIST 2.0 T SECTION EXTENSION NO.2
40909	SHUH-A010	UNI-HOIST 2.0 BALL HITCH ASSEMBLY
40910	SHUH-A011	UNI-HOIST 2.0 RING HITCH ASSEMBLY
40911	SHUH-A12	UNI-HOIST CENTRE POST ASSEMBLY
40912	SHUH-A013	UNI-HOIST 2.0 MAST BASE
40913	SHUH-A014	UNI-HOIST 2.0 COMPLETE ADJUSTABLE LEG
40914	SHUH-A100	UNI-HOIST 2.0 BARREL MOUNT ASSEMBLY
40915	SHUH-A101	UNI-HOIST 2.0 ADJUSTABLE WALL ASSEMBLY
40916	SHUH-KIT1	COMPLETE FREE STANDING 5 PIECE DAVIT SYSTEM
40917	SHUH-KIT2A	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM 320KG COMPLETE
40918	SHUH-KIT2B	COUNTER WEIGHT PORTABLE DAVIT SYSTEM 240KG
40919	SHUH-KIT3	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT 0-152MM
40920	SHUH-KIT4	BOOM ARM TUBE
40921	SHUH-KIT5	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT. 0-52MM 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40922	SHUH-KIT6	COMPLETE PORTABLE DAVIT SYSTEM WITH WALL MOUNT. 50-630MM), 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40923	SHUH-KIT7	UNI-HOIST POLE HOIST
40924	SHUH-KIT7A	UNI-HOIST POLE HOIST - 1 X 20M SENTINEL HAND WINCH
40925	SHUH-KIT7B	UNI-HOIST POLE HOIST - 1 X 20M SENTINEL SRLR
40926	SHUH-KIT7C	UNI-HOIST POLE HOIST - EXTENDABLE FROM 1.6M-2.4M REACH & 1M-2.8M HEIGHT. INC 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40929	SHUH-KIT8A	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 1 BALL
40930	SHUH-KIT8B	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 2 BALL
40931	SHUH-KIT8C	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 1 RING
40932	SHUH-KIT8D	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 2 RING
40933	SHUH-KIT6A	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT. 50-630MM 1 X 20M SENTINEL RECOVERY FALL ARREST BLOCK C/W BRACKETS



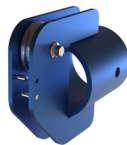
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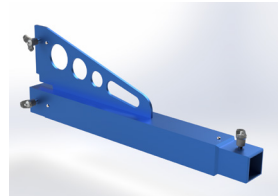
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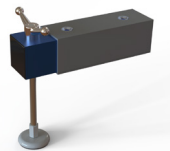
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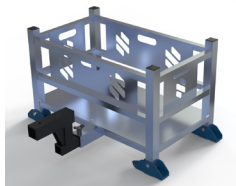
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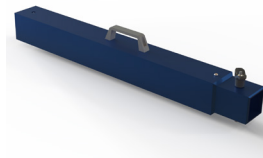
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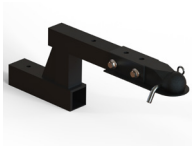
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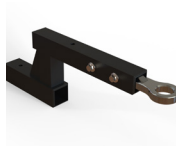
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PN 40908



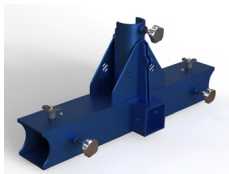
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PN 40910



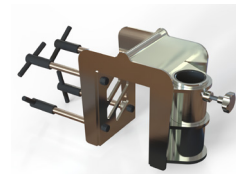
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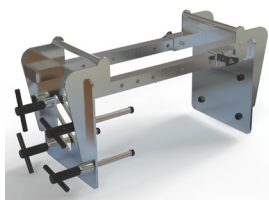
PN 40912



PN 40913



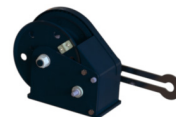
PN 40914



PN 40915



PN 31030



PN 40409



PRODUCT OVERVIEW



PN 40916



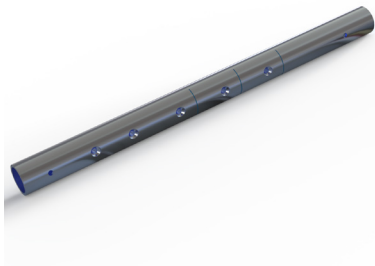
PN 40917



PN 40918



PN 40919



PN 40920



PN 40921





PN 40922



PN 40929



PN 40930



PN 40931



PN 40932



PRODUCT OVERVIEW



PN 40923



PN 40924



PN 40925



PN 40926

CONFIGURATIONS

- **Kit Configurations:** This manual covers all variants in the UniHoist range, including Kit1, Kit2B, Kit3, Kit4, Kit5, Kit6, Kit7 (and sub-variants 7A, 7B, 7C), and Kit8A/8B/8C/8D. While all kits share the same fundamental purpose – providing a secure anchorage and means of retrieval for one person – they differ in their base mounting method and included rescue devices. Below is a brief overview of the main components found across these kits:
- **Pole Hoist Assembly:** A compact, portable hoist arm used in the Kit7 series. This is an alternative to the full davit mast, intended for scenarios where a smaller, more lightweight device is advantageous. The pole hoist provides a short offset boom with an attachment point for lifelines, and typically includes an integrated clamp or mounting interface to attach to a suitable structure (such as a fixed anchor point, doorway, or tripod). Kits 7A, 7B, 7C combine the pole hoist with various retrieval devices (winch and/or SRL).
- **UniHoist V2 Davit Mast (PN 40900):** A two-piece davit arm and mast assembly forming the core of most kits (used in Kits 1, 2B, 3, 5, 6, 8 series). It consists of a vertical post and an offset swinging arm (boom) with an integrated pulley at the boom tip. The davit is designed to rotate, allowing the boom to be positioned directly over a confined space entry point.



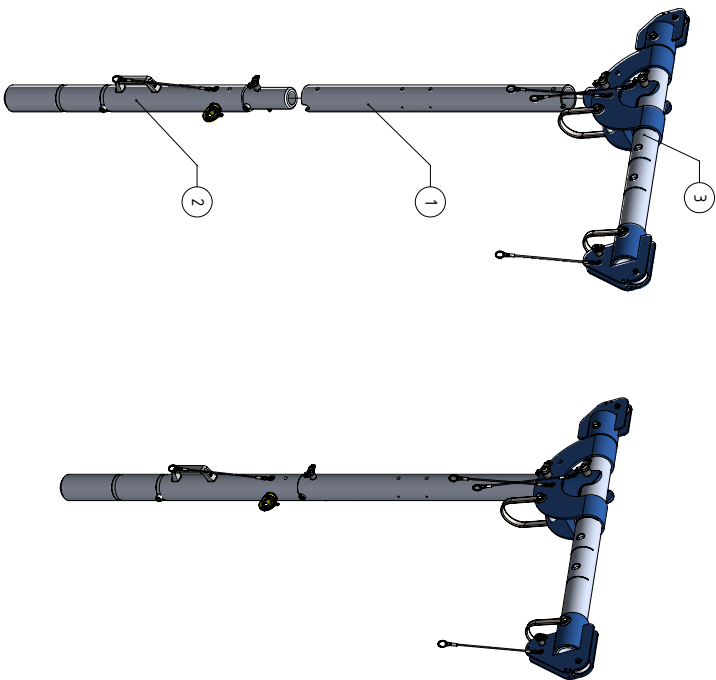


- **Mounting Base Assemblies:** Each kit includes a specific base or anchoring method to support the mast or pole hoist:
- **Floor/Base Plate Assembly (PN 40903) – Kit1:** A free-standing base designed to sit on a flat surface at the entry point. This base assembly has a wide footprint and adjustable levelling feet (or outriggers) to ensure stability. It provides a sleeve into which the UniHoist mast is inserted
- Use: Ideal for situations where the entry is surrounded by open flat ground (e.g. a rooftop or concrete pad) and where temporary anchoring or weighting is possible for stability.
- **Counterweight Trolley Base (PN 40907) – Kit2B:** A mobile base with wheels and an extended frame for counterweights. The UniHoist mast is mounted on a trolley that can be positioned next to an opening. Weights (not included, e.g. concrete blocks or sandbags) are loaded onto the trolley to counterbalance the person's weight.
- Use: Suitable for areas where you cannot clamp to an opening or drill anchors, for example, next to large open pits or tanks and need portability. The trolley's outriggers (extension legs) and weight stack prevent tipping when a person is attached.
- **Barrel Mount Sleeve Base (PN 40914) – Kit3, Kit5:** A clamp-on base that attaches to a strong structural edge, such as the rim of a manhole or hatch. It uses four heavy-duty screw clamps to grip the structure securely. The base has a sleeve socket that holds the davit mast.
- Use: Allows deployment on existing openings like manhole rims, tank lips, or other sturdy edges where a tripod would be impractical. (Kit5 is a complete system that includes this base plus retrieval devices, whereas Kit3 is the davit and barrel base without the devices.)
- **Adjustable Wall Adapter Base (PN 40915) – Kit6:** An adjustable bracket for anchoring the davit to vertical structures or irregular surfaces. This wall adapter can be fastened to or hooked over sturdy structures (for example, an doorway, an I-beam, or a thick parapet wall) and tightened in place. It provides a sleeve for the mast similar to the barrel mount.
- Use: Versatile for attaching to structures where horizontal surface area is limited but a strong vertical or
- **Vehicle Hitch Mount Bases – Kit8A, 8B, 8C, 8D:** A mounting system that connects to a vehicle's towing hitch receiver or hitch ball and uses adjustable extension legs for support. Two versions exist:
- **Ball Hitch Mount (PN 40909) used in Kit8A and 8B** – attaches to a standard towball hitch on a vehicle.
- **Ring Hitch/ Mount (PN 40911, SHUH-A11) used in Kit8C and 8D** – attaches to a pintle hook or ring-type hitch receiver.
- These kits allow a vehicle (such as a van or truck) to serve as the anchor support. The included extension leg assemblies (PN SHUH-A07) act as outriggers that rest on the ground to stabilise the mast and transfer load to the ground rather than the vehicle suspension.
- Use: Common for mobile confined space work, for example, a utility vehicle parked next to a manhole can mount the davit on the hitch and use outriggers to manage the load.
- Kit8A/8C include one extension section in the mast (for a moderate reach/height), whereas Kit8B/8D include two extension sections (first and second extension) to achieve greater reach or height over the entry. Extra extensions provide versatility in mast height but must be assembled correctly (see Installation).
- **Fall Arrest & Retrieval Devices:** Depending on the kit, one or both of the following may be included:
- Self-Retracting Lifeline (SRL) with Recovery Winch, 20 m (PN 31030 or similar): . (Note: The recovery winch function is intended strictly for rescue of a fallen worker; it is not meant for normal raising and lowering of personnel or materials.)
- **Manual Personnel Winch, 20 m (PN 40409):** A crank-operated drum winch with 20 m of steel wire rope, equipped with an automatic braking mechanism. This winch is man-rated for lifting a person (up to 140 kg) and can also be used to lift materials up to 250 kg (with a suitable safety factor).
-
- **Regardless of configuration,** each UniHoist system allows a worker to be attached to one or two lifelines anchored above the entry. In normal use, the worker is connected to an SRL for continuous fall protection while moving. If the kit includes a winch, the worker may also be connected to the winch line for controlled entry/exit. In the event of a fall or if the worker becomes incapacitated, the equipment enables a prompt rescue by either hoisting the person out using the winch or engaging the SRL's retrieval mode to wind them up. Having two independent systems (when both winch and SRL are present) provides redundancy: if one fails or cannot be used, the other is available as a backup method of rescue.





GENERAL ASSEMBLY



ITEM NO.		PART NUMBER	DESCRIPTION	QTY
1	SHUH-002 (4.0702)		UPPER MAST	1
2	SHUH-A12 (4.0911)		CENTRE POST ASSY	1
3	SHUH-A14 (4.0913)		HOIST ARM ASSY	1

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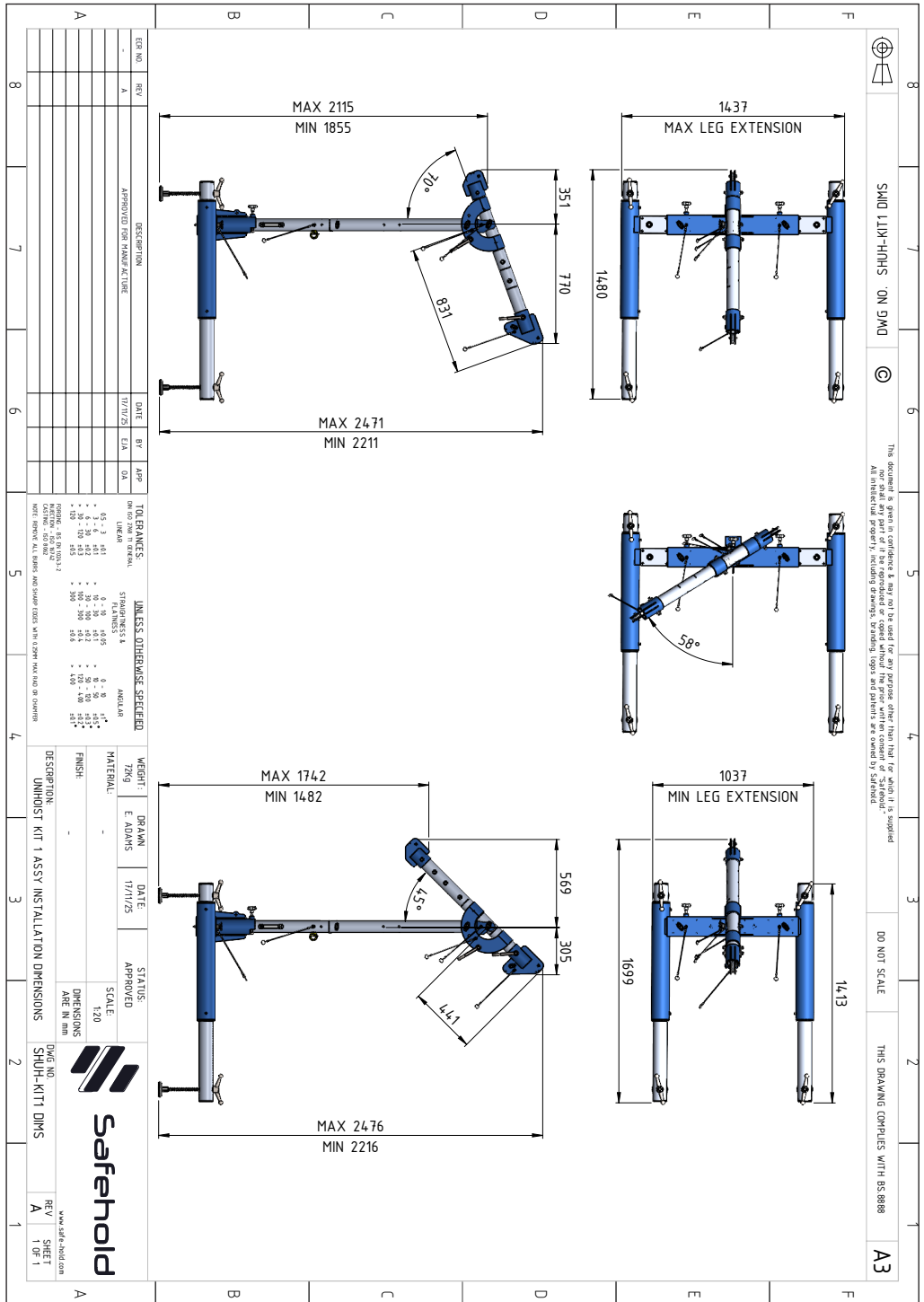
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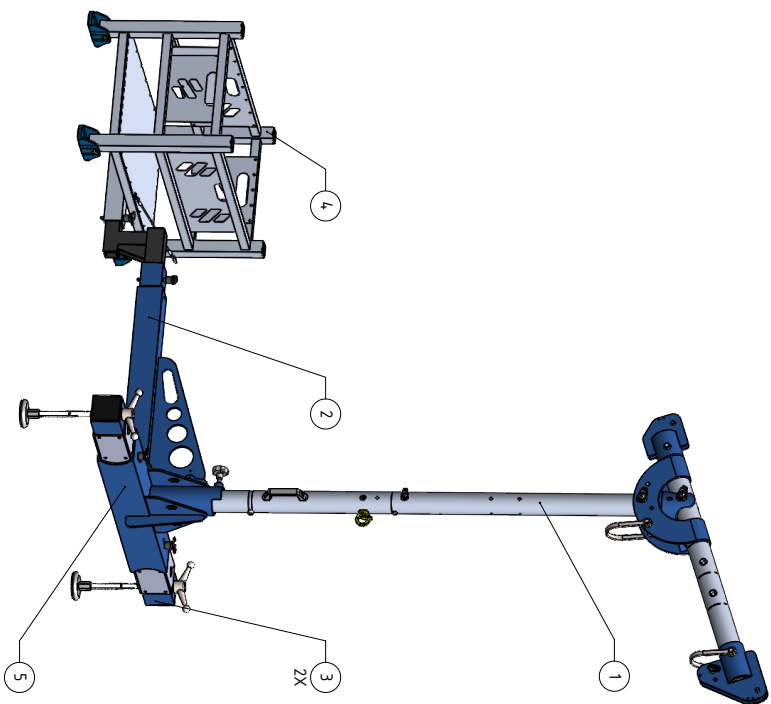
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2. PART WAS CREATED AS A 3D CAD MODEL, ALL TOOLING & PROCESS DEVELOPMENT TO BE BASED UPON CAD DATA.
3. SEE DRAWING FOR DIMENSIONS FOR QUALITY CONTROL & TOLERANCES.

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GENERAL ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SHUH-A01 (4.0900)	UNIHIST V2 ASSY	1
2	SHUH-A05	FIRST EXTENSION ASSY	1
3	SHUH-A07	EXTENSION LEG ASSY	2
4	SHUH-A08	COUNTERWEIGHT TROLLEY ASSY	1
5	SHUH-A13	MAST BASE ASSY	1

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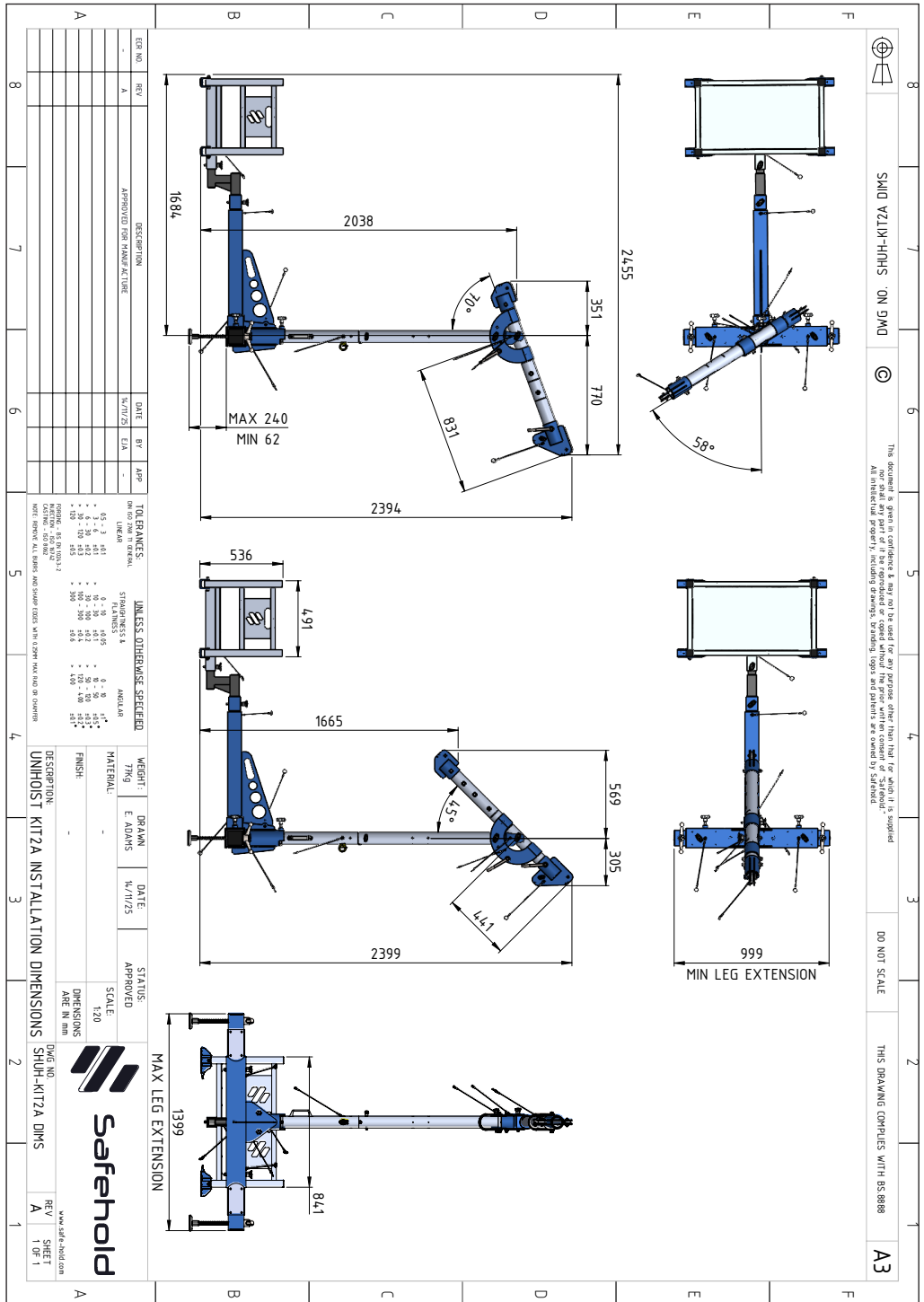
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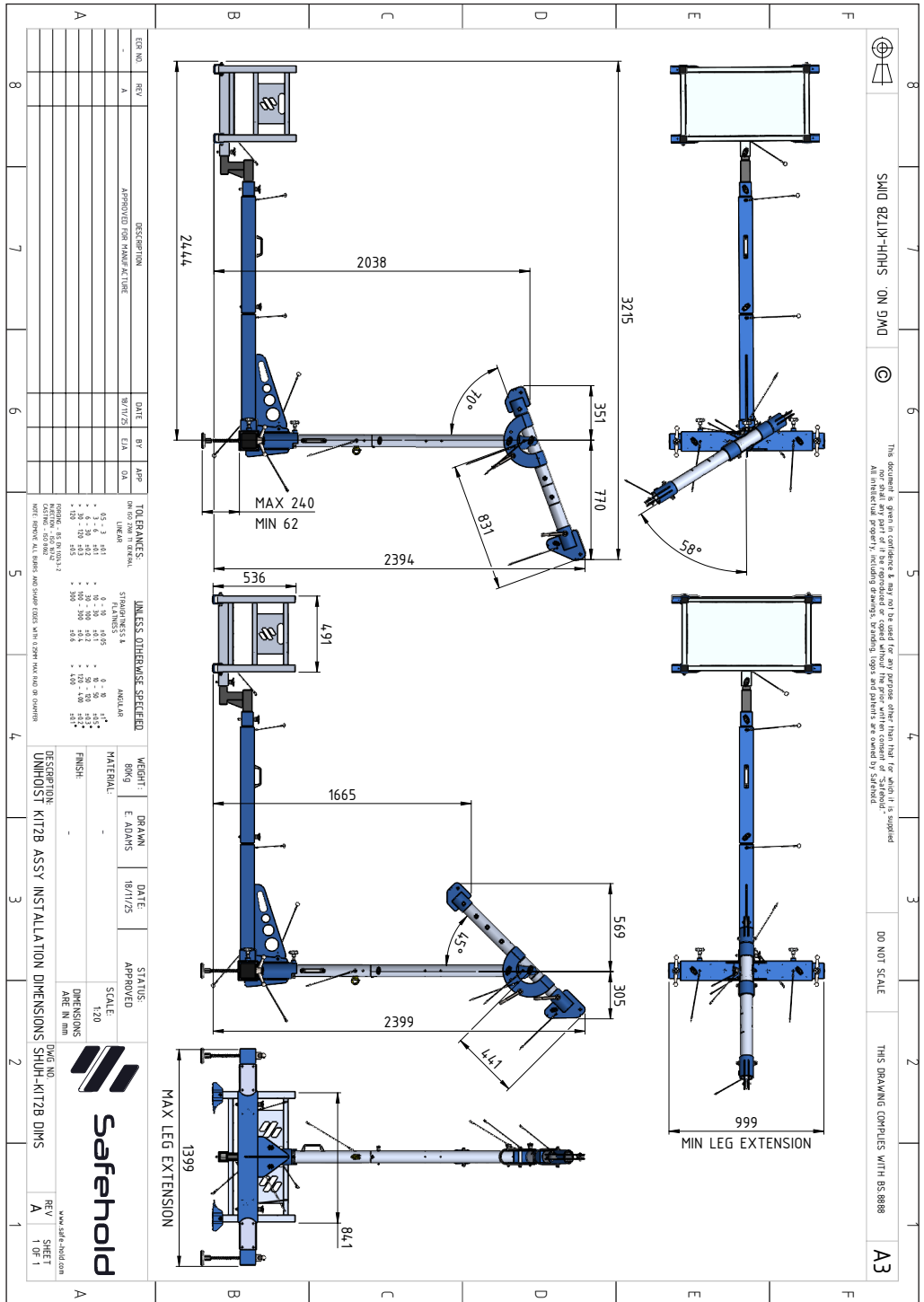
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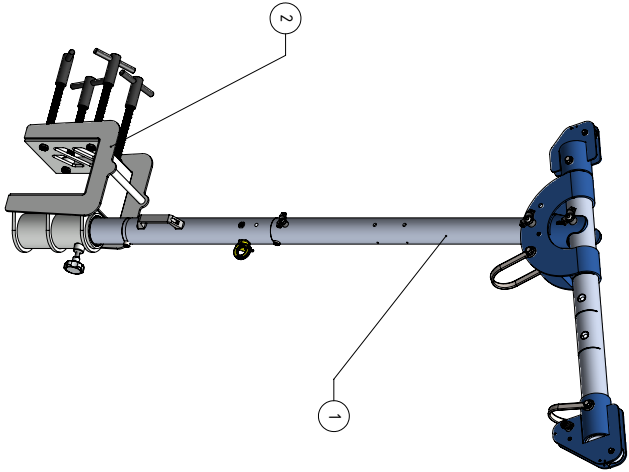


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GENERAL ASSEMBLY



DWG NO. SHUH-KIT3



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2	SHU-A100 (40914)		BARREL MOUNT SLEEVE ASSY	1

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<div><div><div><div>Safehold</div><div>www.safehold.com</div></div></div><div><div>REV A</div><div>SHEET 1 OF 1</div></div></div>									
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APPROVED FOR MANUFACTURE: 09/09/25									
DATE: 09/09/25									
BY: [Signature]									
REV: A									
EGR NO: -									



SHD KIT3 - HOOKS DWG

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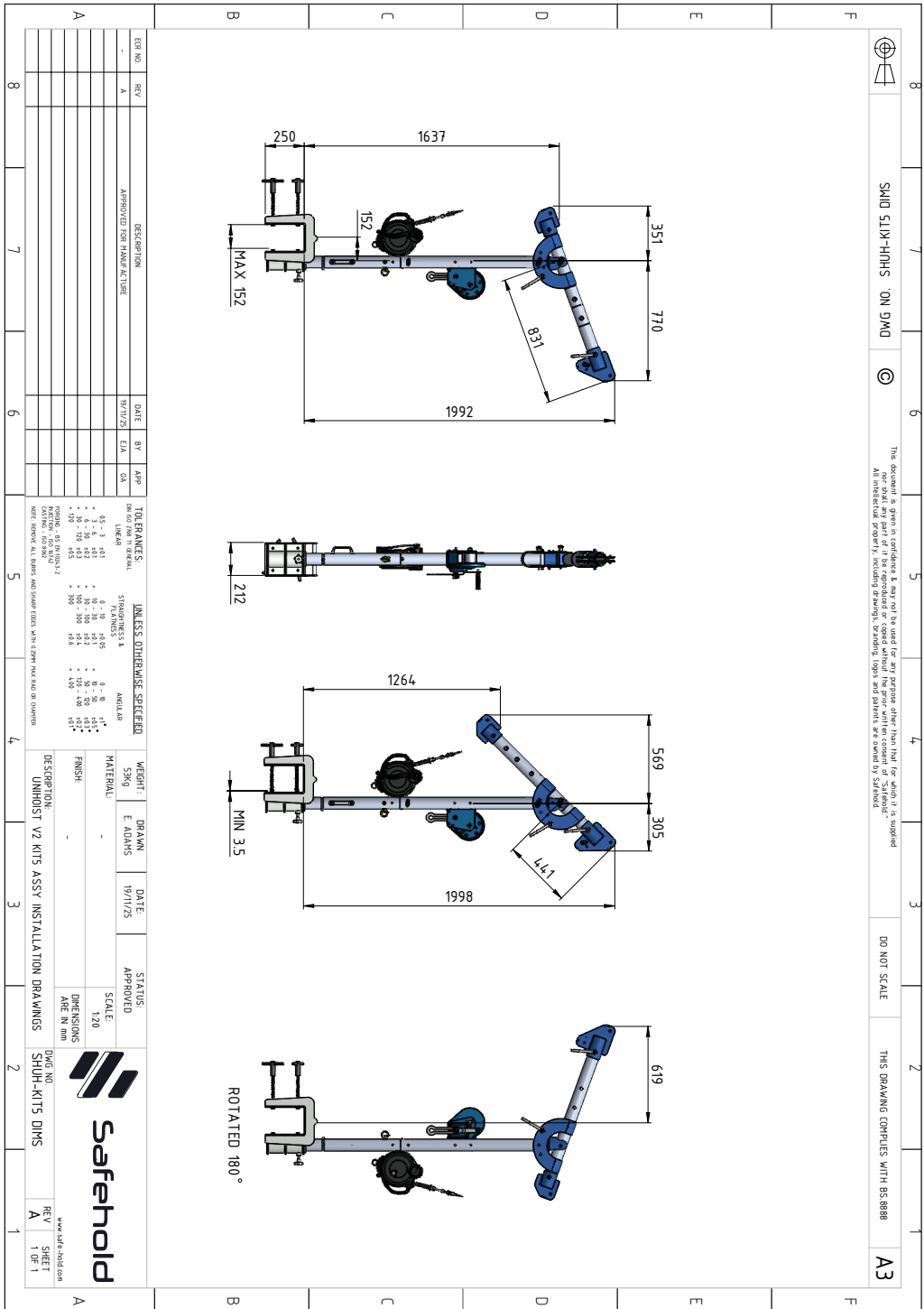
GENERAL ASSEMBLY

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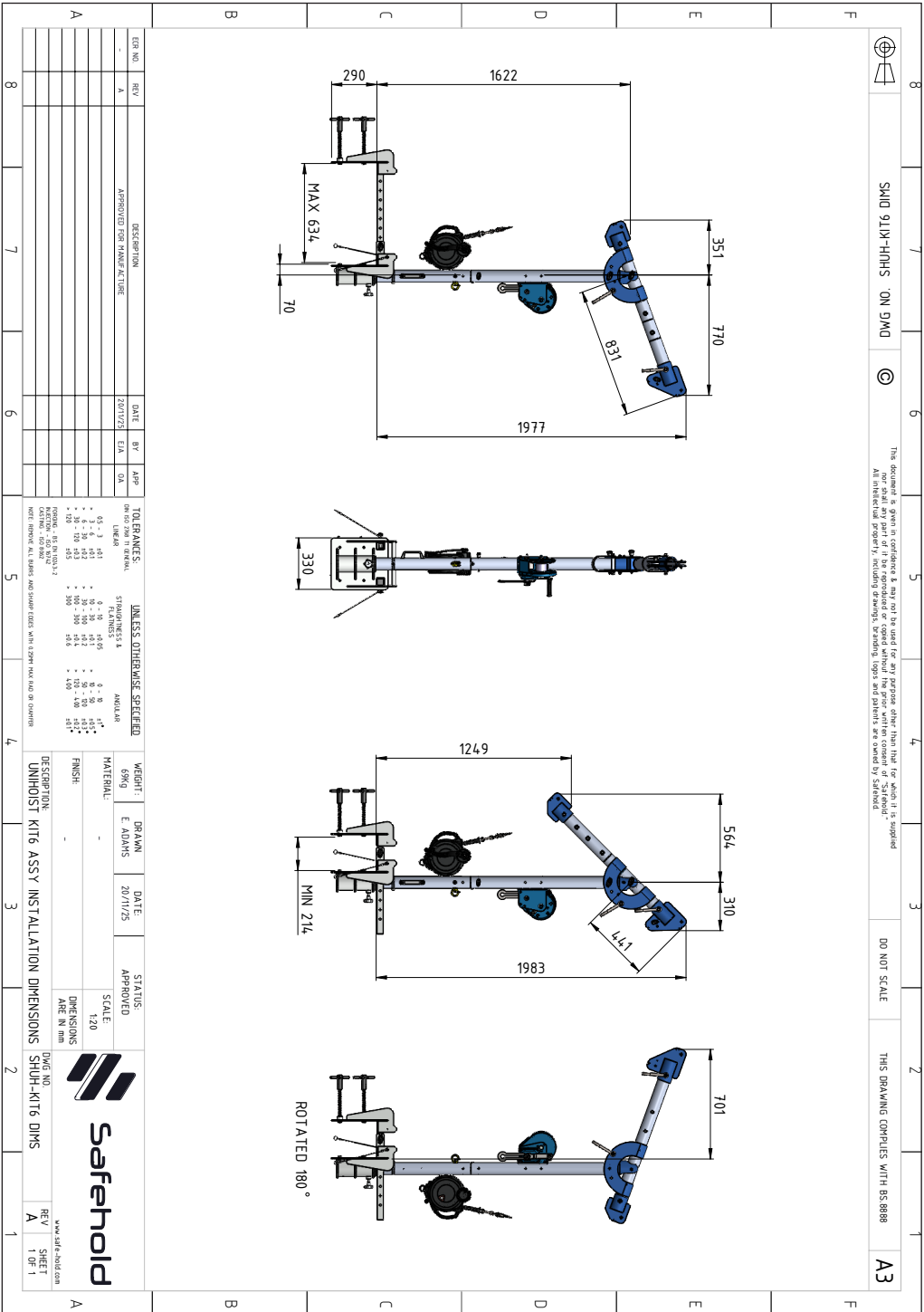
GENERAL ASSEMBLY



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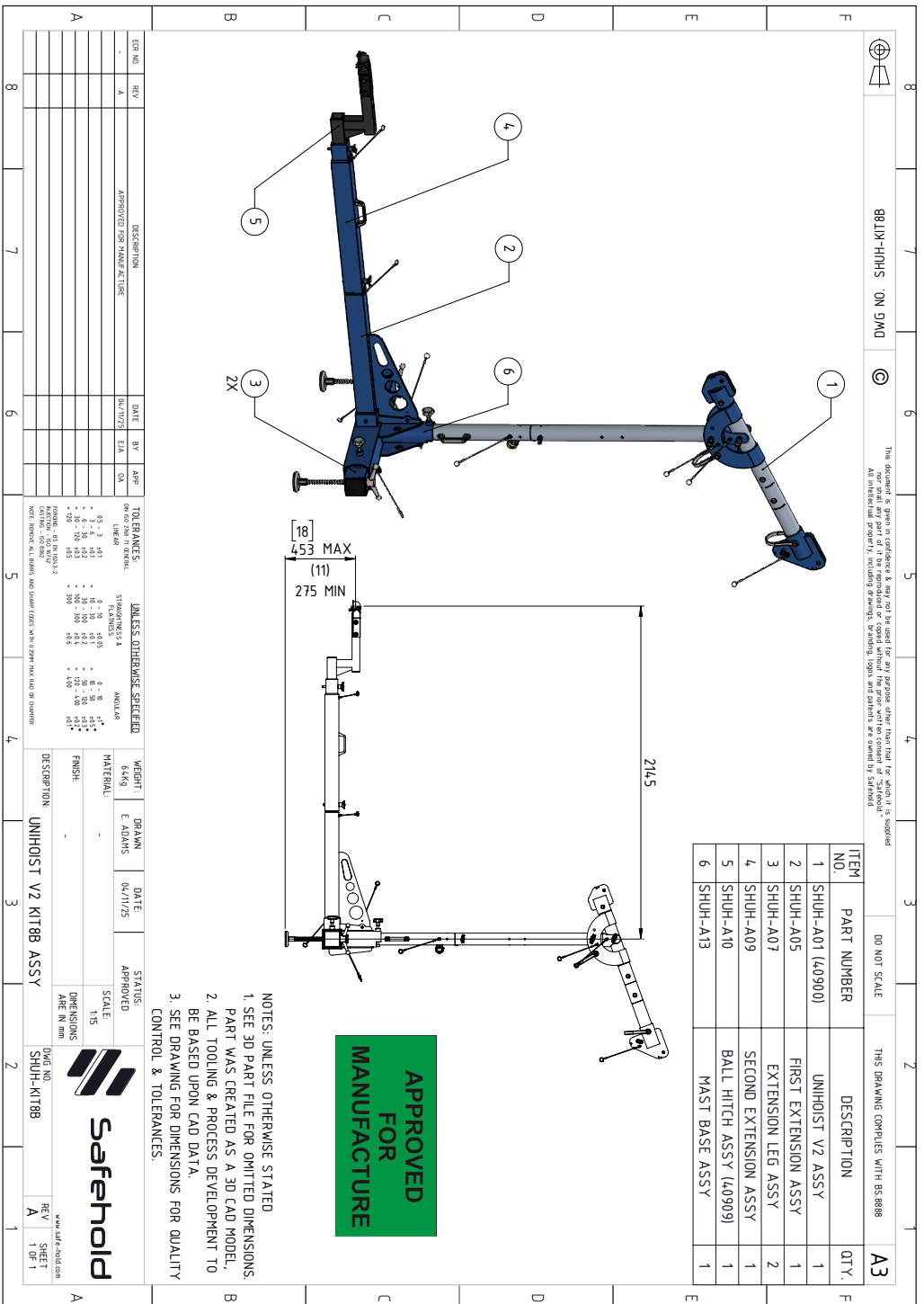


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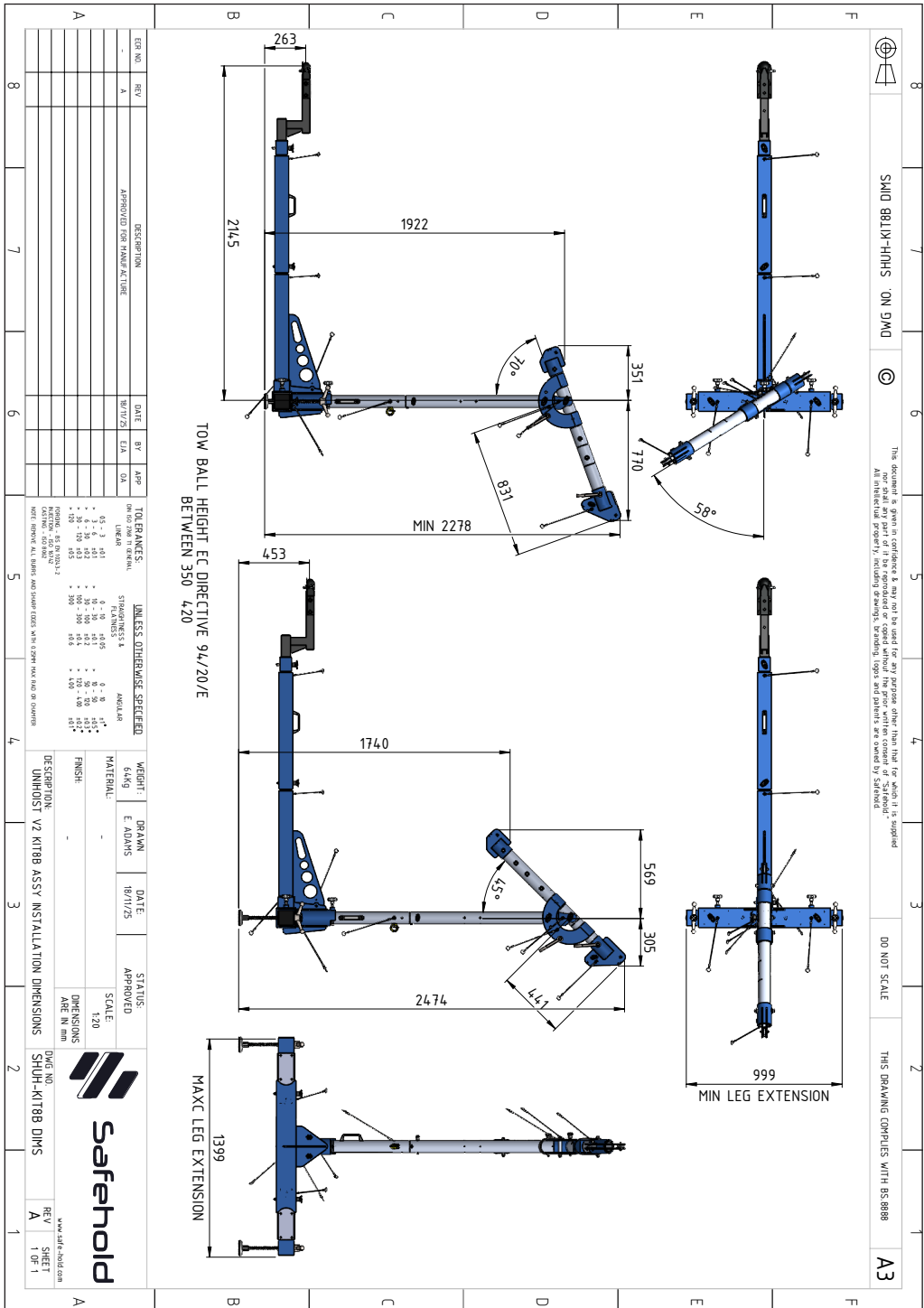
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GENERAL ASSEMBLY



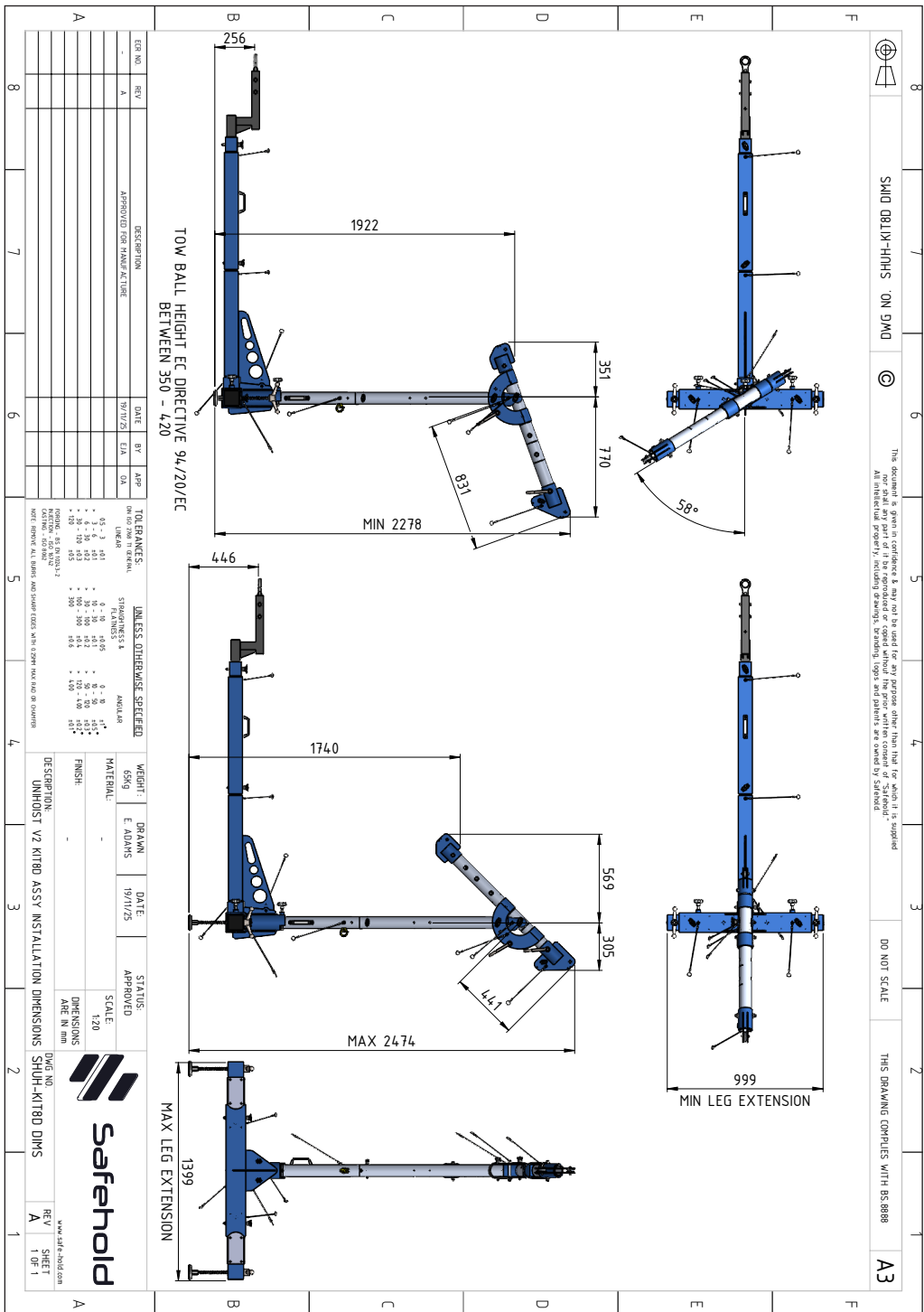
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GENERAL ASSEMBLY





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ITEM NO. PART NUMBER DESCRIPTION QTY.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SHH-A01	POLE HOIST ASSY	1

POLE HOIST KIT7 ASSY

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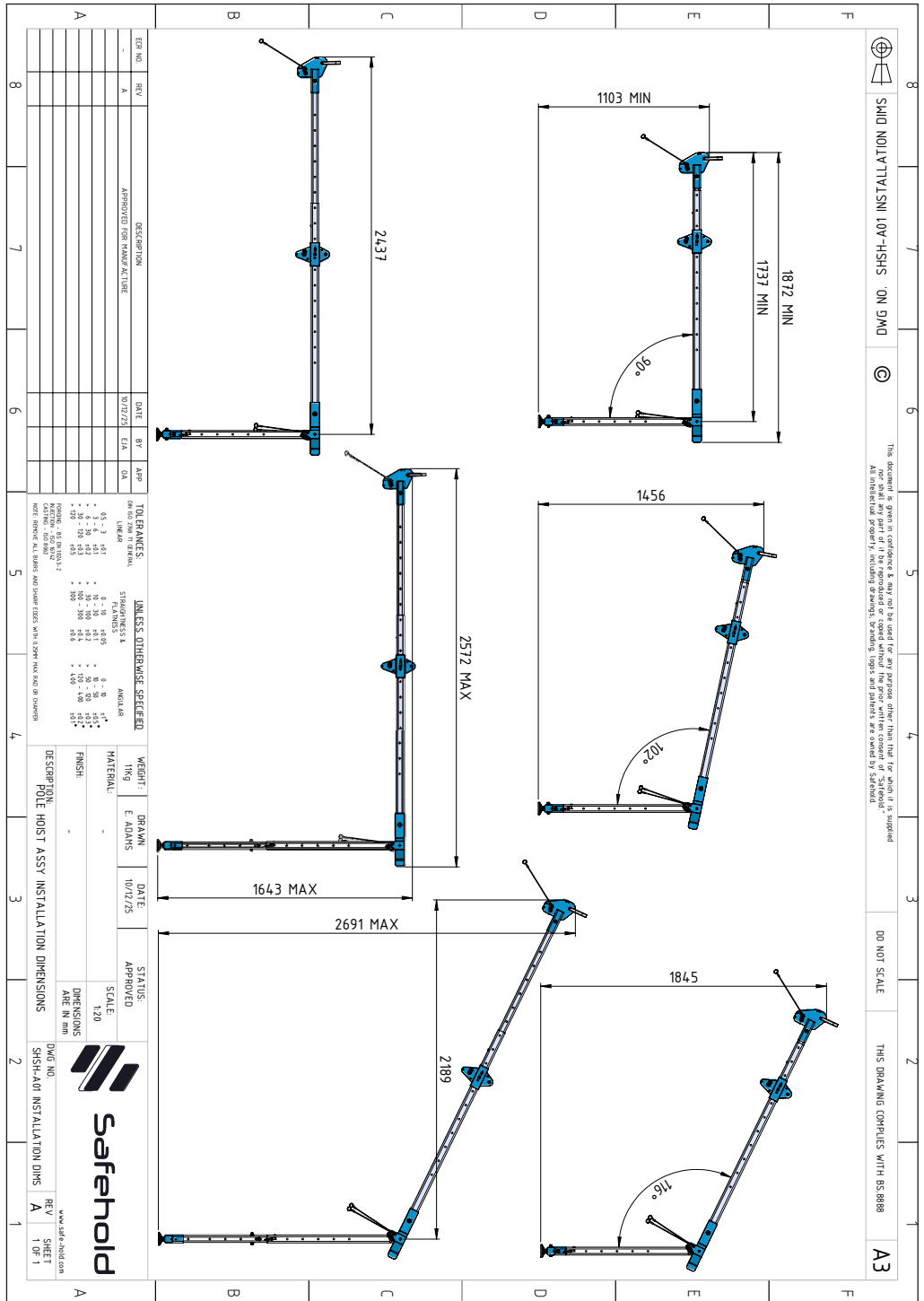




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WARNINGS AND SAFETY INFORMATION

Standards & Compliance: The Davit system conforms to EN795:2012 Type B and OSHA 1910.140. The SRL component conforms to EN 360:2002 (Personal fall arresters) and EN 1496:2017 (Rescue lifting devices). ANSI/OSHA. The winch is designed to meet Machinery Directive 2006/42/EC requirements for lifting persons (comparable to EN 13157). All components are CE marked where applicable. Each device is supplied with product labels and documentation including the declaration of conformity. Users must read this manual and all component instructions before use, and ensure the system is used by trained personnel in accordance with local regulations for fall protection and rescue.

Working at height and confined space entry are extremely hazardous activities which can lead to serious injury or death if equipment is misused or fails. All users of this davit system must be trained, competent, and authorized in its correct use, inspection, and emergency procedures. Read and understand this entire instruction manual and the individual component manuals before using the equipment. If you have any questions or doubts about the system or its use, stop and consult a supervisor or Safehold Ltd. For guidance.

Failure to heed warnings or follow instructions can result in a fall, injury, or fatality.

Provide Warnings to Users: Ensure all warnings and instructions are passed on to any worker using this system. The employer or safety supervisor must verify that the operator understands the equipment's limitations and safe use.

Health and Capacity: This equipment is designed for use by adults in good health, with a combined body weight (including clothing and tools) at or below the rated limits (140 kg for one person). Do not exceed the capacity. Users with medical conditions that could affect their ability to safely endure fall arrest forces (e.g. heart conditions, high blood pressure, pregnancy, etc.) must seek medical advice before using fall protection equipment. Pregnant women and minors should not use this system.

General Precautions: Always inspect the work area and eliminate or control hazards before setting up the davit system. Ensure the area below is clear of obstructions or protrusions in the potential fall path and that sufficient clearance exists to avoid the user striking a lower level during a fall. Be mindful of hazards such as moving machinery, electrical lines, sharp edges, or hazardous atmospheres in the work area. Implement appropriate controls (lockout/tagout, ventilation, etc.) as part of your work planning. A risk assessment and rescue plan must be completed and documented before any work at height or confined space entry begins. All necessary rescue equipment and personnel should be on standby and reachable in an emergency.

Compatibility and System Integrity: Use only the components and subsystems approved by the manufacturer (Safehold) as part of this davit system. Safehold kits are designed to work together; do not substitute or add foreign components that could jeopardise compatibility or safety. Any alteration or modification of the equipment is strictly prohibited. Do not attempt to improvise connections or use the davit, SRL, or winch for purposes they are not designed for. For example, never use the SRL or winch to lift materials unless they are specifically designed and certified for material handling (this system's SRL is not intended for material lifting). Always ensure all connectors are compatible, locking type, and properly positioned to prevent accidental disengagement or side-loading. Connectors (carabiners, snap hooks, D-rings) must be self-locking and have at least 22.2 kN (5,000 lb) strength as required by EN standards. A competent person should verify that all connections in the system will remain secure and will not unintentionally release or distort under load. If any part of the system does not function correctly or if any connector does not properly lock, remove the system from service until the issue is corrected.

Inspection Before Use: Prior to every use, the authorised user or rescue attendant must inspect all components of the davit system for damage, deterioration, or missing parts. (See Inspection section for details on what to check.) In addition, a competent person other than the user should perform a thorough inspection at regular intervals (at least every 6 months, (LOLER) or more frequently if required by regulations or heavy use) and record these in the equipment log. Never use any component that is damaged, that has arrested a fall, or that fails inspection – remove it from service immediately for repair or disposal. "When in





doubt, throw it out." Any device that has been subjected to the forces of a fall arrest must not be used again until re-certified in writing by the manufacturer or an authorised service centre.

Rescue Plan: Always have a written rescue plan and the means to implement it readily available whenever this equipment is used. The plan must account for a fallen or incapacitated worker and prompt retrieval to prevent suspension trauma. All users and attendants should be trained in these rescue procedures. Keep in mind that rescue operations are beyond the scope of this manual – specialised training may be required.

Authorised Personnel and Use: Never allow an untrained or unauthorised person to use this equipment. The davit system should be installed and operated only by competent, trained personnel who understand its correct use and potential hazards. Do not exceed the maximum number of users the system is designed for (one person attached at a time for fall arrest; a second person only allowed during an active rescue with proper procedures). Always use a full body harness* for any person being secured to this system – body belts are not acceptable for fall arrest.

Maintenance and Repairs: Do not attempt to repair, disassemble, or service the equipment yourself unless you are trained and explicitly authorised by the manufacturer. Unauthorised repairs or the use of non-genuine parts can lead to device failure and will void the warranty. All maintenance beyond cleaning and basic lubrication (if applicable) must be done by Safehold or its approved service agents. Never modify the equipment (such as drilling additional holes, adding non-approved accessories, etc.) – doing so could dangerously compromise its strength and functionality.

Environmental Considerations: This equipment is designed for normal industrial environment ranges. Avoid exposing it to corrosive substances, extreme temperatures, or other damaging environments. Chemical exposure or corrosive atmospheres can weaken components; if used in such conditions, inspect the system more frequently. Do not leave the equipment outdoors long-term when not in use, and protect it from moisture and contaminants. If the device gets wet, dry it before storage. If any part shows excessive corrosion, chemical attack, or cracking, remove it from service. Consult Safehold Ltd. For guidance if you are unsure about environmental effects on the equipment.

Proper Use the davit system only for its intended purpose of fall protection, rescue for personnel and lifting within load limits specified. Do not use the winch or SRL in any manner that would apply uncontrolled dynamic loads or that bypass their safety mechanisms. Always keep slack in lifelines to an absolute minimum – do not allow a worker to climb above the anchorage point or slack to develop in the SRL or winch line, as this could increase free-fall distance and impact forces, always position the davit directly overhead.



“Do’s and Don’ts” Summary: To reinforce safe practice, here is a list of critical do’s and don’ts for this davit system:

- **Do** ensure the structure or anchor point supporting the davit (e.g. roof slab, wall, or slab opening) is sound and able to support the required loads (typically at least 12 kN per EN795 or OSHA 5,000 lb for anchorage). If unsure, consult a qualified engineer.
- **Do** install and use the system under the supervision of a competent person, following all steps in this manual.
- **Do** check that all pins, bolts, and locking mechanisms are in place and secure before each use. Verify that carabiners and hooks are fully closed and locked, anchor pins are clipped, and adjustment screws are tight.
- **Do** keep the work area organised. Prevent trip hazards or entanglement of lifelines with other equipment. Always clear the area below the entry point of personnel when a person is being raised or lowered.
- **Do** maintain three points of contact or use additional fall protection when climbing onto or off the davit area or platform if applicable. (For example, if the user must climb a ladder to reach the davit, they should remain attached to an independent fall arrest system during the transition.)
- **Do** ensure a secondary rescue method is available if the primary means fails. (E.g., if using the winch as the primary raising device, ensure the SRL is attached as backup, and vice versa.)
- **Do** stop work and remove the equipment from service immediately if anything seems to function improperly (unusual sounds, difficulty in winch operation, visible damage, etc.). Have the equipment inspected by a competent person or manufacturer before re-use.
- **Do Not** allow untrained persons to set up or use the system.
- **Do Not** ever exceed the weight capacity: one person of 140 kg Max on the lifelines (or 280 kg combined only during rescue). Never use the winch to lift goods heavier than its capacity (250 kg Max for goods, with 125 kg on the last drum layer). Overloading can lead to structural failure or brake slippage.
- **Do Not** use the system for lifting people without backup. For example, do not use the winch for man-riding unless the person is also attached to a fall arrest line (SRL). Conversely, do not rely solely on the SRL to raise a person if a winch is available – use the proper device for each task.
- **Do Not** jerk or shock-load the lifeline or winch cable (such as suddenly dropping or “snatching” a load). Always raise and lower smoothly to avoid excessive impact forces on the system.
- **Do Not** operate the winch or SRL if any safety feature is disengaged or malfunctioning. For instance, never use the winch if the brake is slipping or if the handle’s anti-runaway feature is not working. Do not use the SRL if its fall indicator has deployed (many SRL hooks have a red indicator that shows if a fall occurred).
- **Do Not** use the equipment if any safety labels or serial plates are missing or illegible (see Labelling section). Missing labels may indicate the device is older or has unknown history – take it out of service.
- **Do Not** remove or disable any locking pins or safety latches during use. For example, never tie or prop a snap hook gate open; never leave a davit mast pin half-inserted.
- **Do Not** attempt to extend levers or handles to gain more mechanical advantage on the winch (e.g. do





not use a pipe cheater bar on the winch handle). This can overstress and break the handle or winch.

- **Do Not** attempt to power the winch with a drill or motor unless specifically allowed by the manufacturer. (Safehold winches are not to be motorized – using a drill on the handle shaft could damage the brake.) The small note about using a drill to wind cable only applies when absolutely no load is on the winch and with caution, but as a rule it's safer to hand-wind only.
- **Do Not** fully unwind the winch cable off the drum – always leave at least 4 wraps of cable on the drum to maintain anchorage to the drum. A red warning marker is usually visible near the end of the cable; if you see it, do not continue unwinding.
- **Do Not** allow the winch to free-wheel or “free-fall” a load. Always keep a controlled hand on the handle when lowering a person or load – the brake is automatic but do not let the handle spin freely.
- **Do Not** add additional loads onto a person or line in mid-lift (for example, do not have the person carry heavy equipment while being raised, beyond what was planned). Keep within one-person load.
- **Do Not** tie the cable back onto itself or to another line (no daisy-chaining of lifelines). Connect the winch hook or SRL hook only to appropriate attachment points (like a harness D-ring). Never choke the cable around an object and hook it onto itself – this can severely damage the cable and is unsafe.
- **Do Not** side-load the system improperly. The davit arm is designed to take mostly vertical loads. Do not pull the winch cable or SRL line off to the side at extreme angles, and never attempt to pull a load horizontally with the winch – this could tip or bend the davit. Also, do not swing a hanging load excessively – keep the person being raised/lowered under the davit arm to avoid pendulum swings.
- **Do Not** use the davit if it is not secured in an approved base. The 40914 barrel mount must be properly installed; never jury-rig the mast into an improvised support or mount not designed for it.
- **Do Not** leave a suspended load unattended. When a person is attached and lifted, an operator must attend the winch at all times. Use tag lines or additional helpers if you need to control the load, but never walk away from a person suspended in a harness.
- **Do Not** store the device improperly. Do not toss the components into a pickup bed or van without protection, or store them in a way that they can be damaged by impact, moisture, chemicals, or heat. Always transport and stow the system components in a clean, dry location (e.g., a storage case or designated rack).

By following these guidelines and respecting the equipment's limitations, you greatly reduce the risk of an accident. **When used correctly, the Uni-Hoist Portable Davit System provides reliable fall protection and rescue capabilities – but misuse can be deadly.** Always err on the side of caution and consult a safety professional if you are unsure about any aspect of setup or operation.



SETUP AND INSTALLATION

This section describes how to properly **set up the davit system** at the work site, including installing the barrel mount base, assembling the davit, and attaching the SRL and winch. **Only a trained, competent person** should supervise and conduct the installation. Before beginning, inspect all components to ensure they are in good condition (see **Inspection**). Also verify the structure you will attach to (for the barrel mount) is solid and can support the required loads (at minimum, the structure should support a 12 kN fall arrest load or per local requirements). If there is any doubt about the structure's strength or integrity, **consult a qualified engineer** before proceeding.

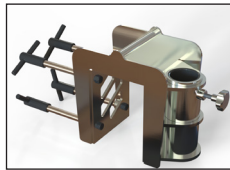
1. Positioning the Barrel Or Wall Mount Base (40914/40915): Select a suitable mounting location on the structure at the confined space entry point. The barrel mount sleeve is typically used on strong horizontal surfaces or edges such as the top of a manhole ring, the lip of a trench shield (shoring box), a platform floor opening, or an I-beam frame. It can accommodate a range of wall thickness's by adjusting the clamp screws. Place the Fixed Barrel Mount (the main U-shaped bracket) over the edge so that the sleeve opening is aligned vertically above the entry (ensure the mount is oriented correctly with the sleeve socket pointing upward and level).

Now, **tighten the four clamping screws** evenly to secure the barrel mount: the 40914/40915 base includes four M20 threaded rods with built-in handles for this purpose. Gradually tighten each of the four corner clamps in an alternating pattern – this will draw the two halves of the clamp against the structure. Tighten until the base is firmly attached with **no movement**. *Do not over tighten to the point of deforming the structure*, but ensure it cannot slip off. The base should feel **solid and rigid** when struck or pulled. Verify that all four clamp screws are fully engaged and their locking mechanism (if any, e.g. lock nuts or pins) is in place. If the base has a **safety pin or bolt to prevent opening**, insert it now.

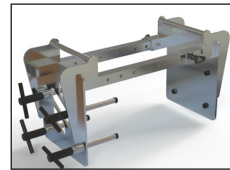
2. **Installing the Davit Mast (40900) into the Base:** Once the barrel mount is secured, the **Uni-Hoist V2 davit mast** can be placed into it. The davit mast assembly typically comes in two parts (mast and boom) pre-assembled, or it may be a single unit depending on model. If disassembled, first connect the **upper davit arm to the mast post** per the manufacturer's instructions (usually using provided bolts or pins). Ensure the mast's attachment pins, bolts, and pulleys are all properly in place as per the 40900 assembly diagram. With the help of an assistant if needed, **lift the davit mast** and lower the bottom end into the barrel mount sleeve. Align any locking holes. The mast should slide in fully so that its base rests in the sleeve bearing of the mount.

Most davit sleeves provide a means to **lock the mast against rotation or uplift**. On the 40914 base, there is a **locking knob** – an M12 hand knob screw – that engages the mast. Tighten this hand knob to lock the mast from rotating or lifting out accidentally. Additionally, if the design includes a **through-pin or bolt** (check if the mast or sleeve has cross-holes), insert the appropriate **locking pin** through the aligned holes and secure it (with clip or cotter) to prevent the mast from coming out. Confirm that the mast is fully seated and cannot wobble or pull out.

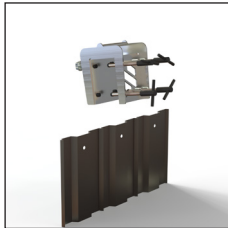
At this stage, the davit arm should be firmly mounted and **able to rotate as needed** for positioning over the entry. You may rotate the davit to the desired direction before attaching lifelines to make it easier. Typically, you will centre the boom directly over the entrant's descent point to avoid any swing (adjust later if needed once the person is attached).



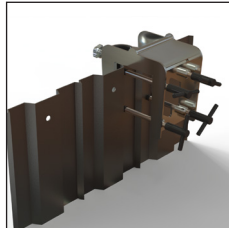
PN 40914



PN 40915



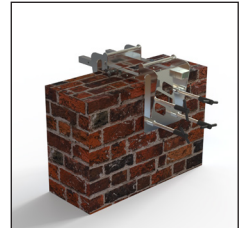
Open clamp screws



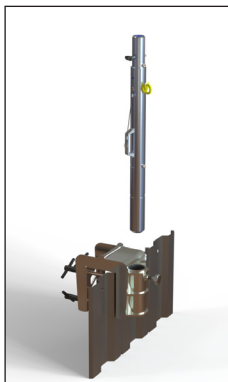
Install on structure and level. Ensure clamps are tight



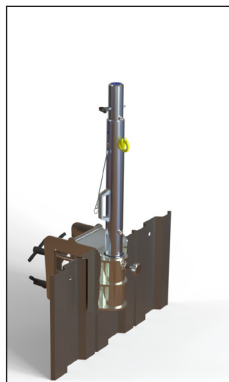
Open clamp screws and adjust via pins to suit wall thickness



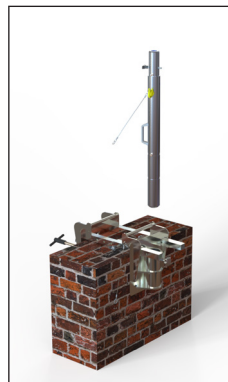
Install on wall and level. Ensure pins and clamps are secured and tight



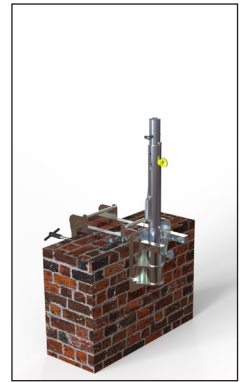
Open locking screw. Insert lower mast section



Check fitment and secure locking screw.



Open locking screw. Insert lower mast section



Check fitment and secure locking screw.



Install and pin upper mast and boom arm

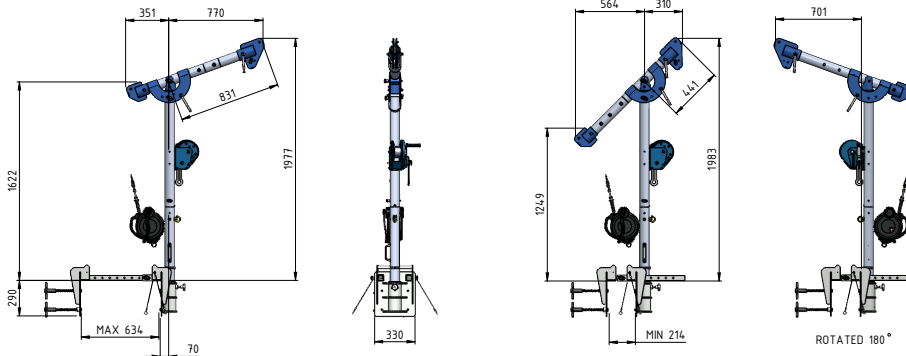




ATTACHING SRLR AND HAND WINCH

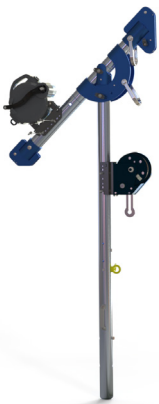
Attachment of a your self retracting lifeline with recovery winch and or a material winch is simple. This can done via the paired locating holes on the lower and upper mast but also the top of the boom arm itself. All pin locations are set on the same centre and compatible with the bracket supplied with each Safehold device.

1. **Attaching the SRL (31001) or Winch (40401) to the Davit:** Position the device brackets against the side of the mast so that the holes line up. Insert the **two locking pins** through the aligned holes to secure the winch bracket to the mast. Make sure the pins go through completely and the locking balls or clips engage. The pins should be **locked to prevent them from backing out** (e.g., ensure the spring ball is protruding). The devices should now be supported on the mast or boom.
2. If mounting to the **Pole Hoist ONLY MOUNT** to the horizontal arm, **NEVER** the upright leg. One device can be mounted on the top of the arm and the other on the underside. All other procedures are the same.
3. Now **position the SRL's lifeline over the davit or pole hoist pulleys**. The UniHoists features a **front, middle or and rear pulley** on the boom to guide the lifelines. Typically, you will run the SRL cable over one pulley (e.g. the one closest to the entry point) and the winch cable over the other to keep them separate. Open the pulley guard or gate if present, lay the SRL cable into the groove of the pulley, and re-secure the guard. Ensure the cable is not twisted or rubbing on any edges. The SRL's snap hook should hang down freely from the pulley toward the entry.
4. The Davit also has two approved personnel anchor points. One on the lower mast which is a swivel eye bolt and the second is a large shackle from the middle adjustment hoop. They are clearly marked as **"APPROVED ANCHOR"**
5. **Checks and Alignment:** With both devices attached, **double-check all fasteners:** - All four barrel mount clamp screws tight and the base is flush with the structure. - Davit mast locking knob tightened, mast can't rotate unintentionally (unless you intend it to swivel during use) and mast pin (if any) inserted. - Winch bracket pins are locked, winch tether connected. - SRL bracket or shackle secure, SRL safety tether connected. - Pulleys closed and secure, cables properly seated in pulley grooves. - **Bolts, pins and fittings are secure and tight** – nothing is visibly loose.. Finally, **orient the davit over the work area**. Typically, the boom should be directly above the centre of the entry hole to minimize swing. You can rotate the davit arm to achieve this; if rotation is stiff, slightly loosen the mast lock knob to reposition, then re-tighten. The system is now installed and ready for connecting a user as long as a pre-use inspection has been done (see **Inspection** below). Always perform a function test if possible: e.g., pull a bit of the SRL line out and let it retract to ensure it's working, and turn the winch handle with a small test load to feel the brake engage. **Do not expose a real person to danger during testing; use a test weight or at least do a basic function check without fully loading. If everything checks out, proceed to use as described in the next sections.**

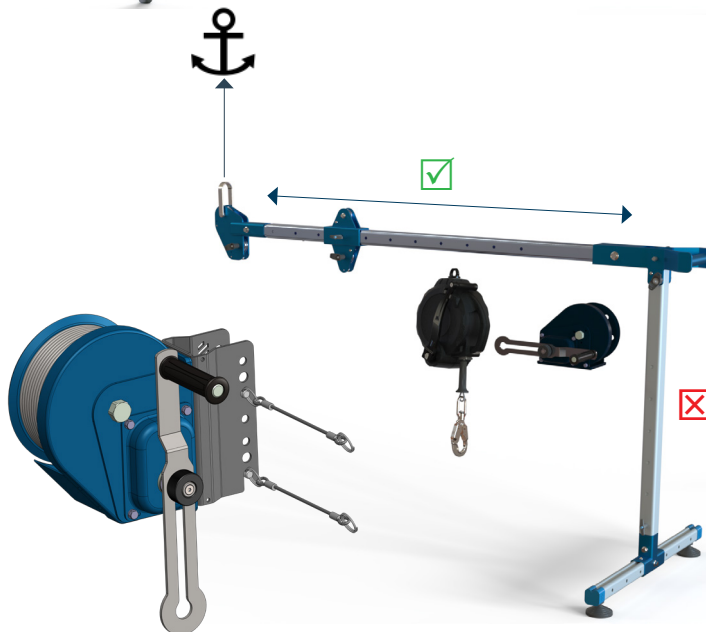




Install Winch and SRL's on the Davit mast. The bottom hole of each mounting point allows for the bracket lower hook to carry the weight while the device is pivoted up and the second pin installed.



Ensure cables follow along the davit boom and pulleys correctly. The front mounted device cable **MUST** divert over the D shackle and on the roller bar. Finally via the captivated bottom pulley. When in shortest reach, one device can be mounted on the top of the davit arm.

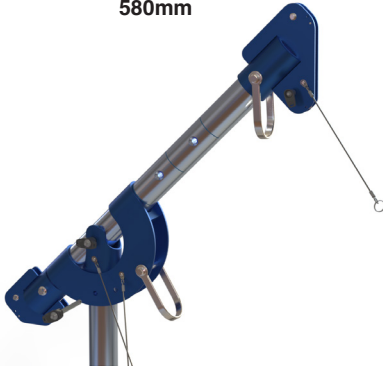




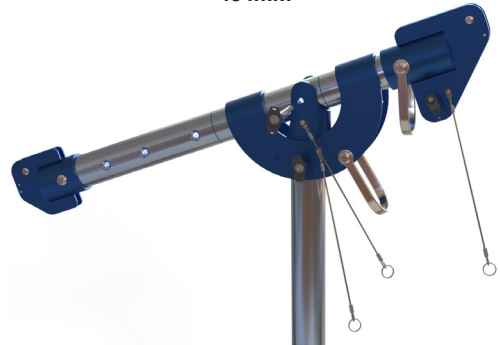
ATTACHING THE BOOM ARM AND ADJUSTMENT

The UNI-HOIST Boom arm can be adjusted through a range of positions from 305mm to 770mm in two modes, 20° and 45°. Full dimensions are listed over the page. Pay attention to the correct installation of the cable over the front pulley. Boom head can be removed from upper mast with the removal of lower pin.

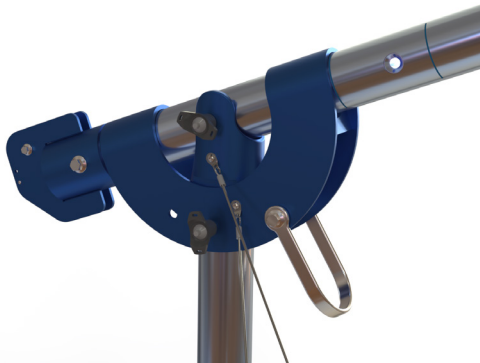
**45° MAX Ext
580mm**



**20° MIN Ext
404mm**



**Remove locking pin
to adjust boom reach**



**Remove pulley pin to
install cable**



**Boom top section
removal**



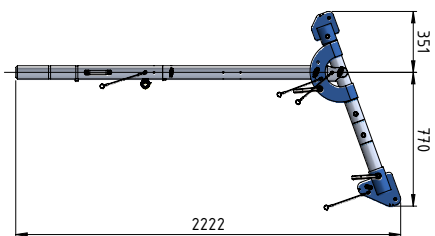
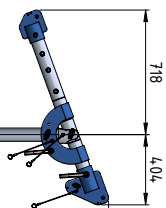
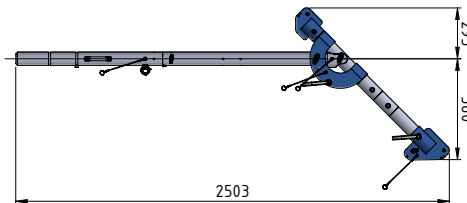
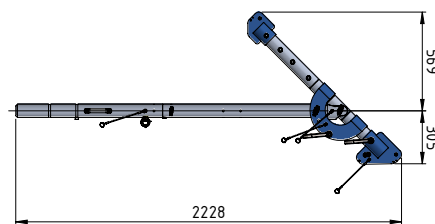
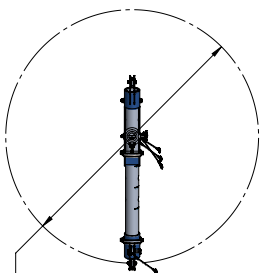
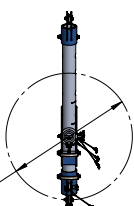
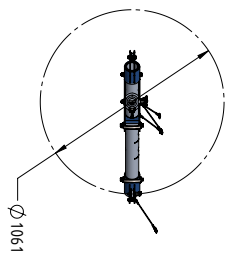
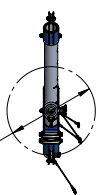
**Pulley stays
captivated**





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				DO NOT SCALE
THIS DRAWING COMPLIES WITH BS 6808	A3			

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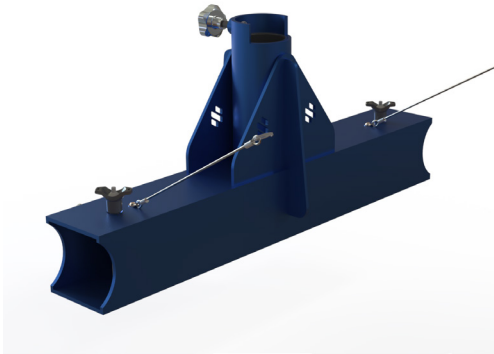
[illegible]



SET UP CONTIUNED

The UNI-HOIST is designed to be modular. When used without ground socket or wall clamps the UNI-HOIST ALWAYS requires a the SHUH-A13 mast base. This is a universal connection to adjustable legs for free standing 5 piece set up, or for 2 x short legs for use with either count weighted trolley or vehicle mount.

SHUH-A13



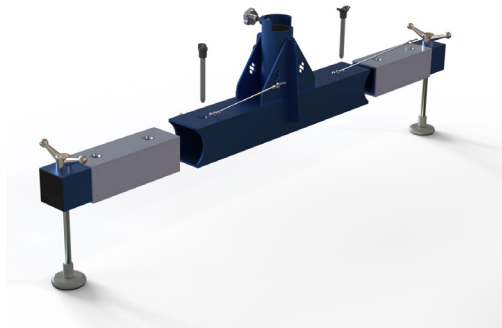
**SHUH-A13
SHUH-A15
SHUH-A16**



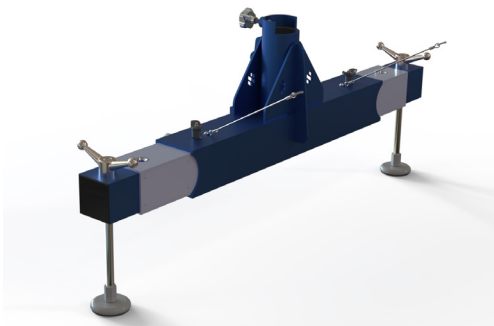
**SHUH-A13
SHUH-A15
SHUH-A16**



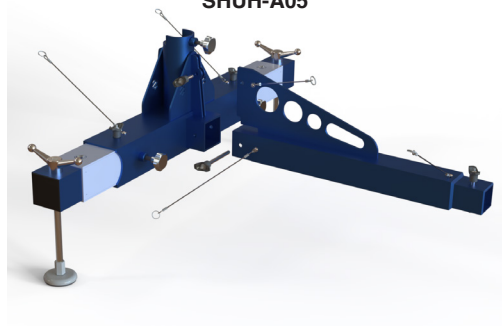
**SHUH-A13
SHUH-A07 x 2**



**SHUH-A13
SHUH-A07 x 2**



**SHUH-A13
SHUH-A07 x 2
SHUH-A05**

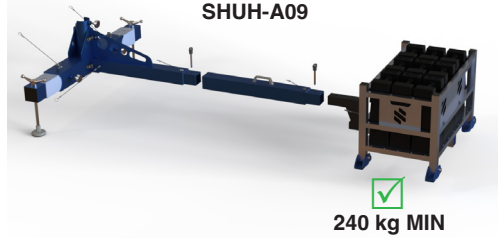




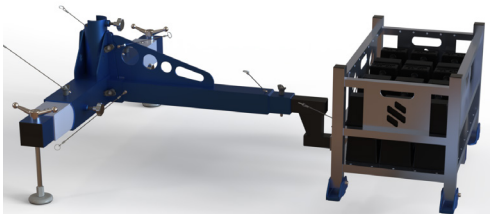
SHUH-A13
SHUH-A07 x 2
SHUH-A05
SHUH-A08



SHUH-A13
SHUH-A07 x 2
SHUH-A05
SHUH-A08
SHUH-A09



SHUH-A13
SHUH-A15
SHUH-A16



SHUH-A13
SHUH-A07 x 2



SHUH-A13
SHUH-A07 x 2



SHUH-A13
SHUH-A07 x 2
SHUH-A05





CORRECT AND INCORRECT USE

- **Use Approved Harness Attachment Points:** Always connect the lifelines to the proper points on a full-body harness. The **SRL's snap hook** should be attached to the **dorsal D-ring** (between the shoulder blades) of the user's harness in most situations, as this is the designated fall arrest attachment point. The **winch line hook** may be attached to a front D-ring (for rescue lifting) or to shoulder loops via a spreader bar if the harness has shoulder rescue attachments – follow your rescue plan or harness instructions for the appropriate attachment. Do not attach either lifeline to unapproved points like tool loops, belt loops, or onto the harness webbing itself. Also, never attach to a **body belt** or other non-full-body harness – those are not rated for fall arrest and can cause injury.
- **Avoid Connector Misuse:** Make sure all hooks and carabiners are loaded in their **major axis (long axis)** and not at the gate or on the side. The figure above shows common mistakes to avoid – such as hooking two snap hooks together (which can pry open gates) or connecting to an edge or eye that is too large or small such that the hook locks may not fully close. **Use connectors that lock automatically** (self-locking type) and always verify the gate is closed and locked after making a connection. Never use incompatible connectors or makeshift links (for example, do not tie a knot in the cable, or connect a hook onto the lifeline of another device). These scenarios can lead to accidental disconnection or failure. If a connector does not automatically lock or if it's too tight/loose on the attachment point, it is the wrong type – use a proper carabiner or sling as needed to make a safe connection.
- **Keep Lifelines Taut and Avoid Slack:** When a worker is attached to the SRL, they should remain **under tension** on the SRL line as much as possible during movement. The SRL will retract and pay out automatically; the user should not climb or step in a way that creates a large slack in the line. Slack in a lifeline can result in a free fall longer than the device can safely arrest. So **do not disable or hold onto the SRL cable to prevent it from retracting**, and do not climb above the anchor point. Similarly, if using the winch line, manage the slack – reel in excess cable so that if the person slips, they don't drop any distance before the line catches them. The SRL's braking will engage within a couple of feet if used correctly, but only if it's not too slack. Correct use: stay within the vertical cone under the davit and let the SRL travel with you; incorrect use: wandering far to the side or climbing up higher than the davit anchor, which could cause a dangerous swing or free fall.
- **Prevent Swing Falls:** As emphasised earlier, always position the davit as directly above the work area as possible. A **swing fall** occurs if a worker falls while not directly under the anchor, causing them to swing like a pendulum and possibly strike an obstacle. This can be as dangerous as the fall itself. If you must work a bit to the side of the entry, limit the distance and ensure the area below is clear of obstacles. The **correct approach** is to reposition the davit if needed to cover different work areas, rather than staying anchored in one spot and moving far off-centre. Incorrect use: using the system while significant horizontal offset exists (e.g., the lifeline running at a sharp angle) – this can introduce severe lateral forces and reduce the effectiveness of fall arrest.
- **Limit Rotation and Movement Under Load:** The davit arm can rotate, but **do not rotate or reposition the davit while it is under load** (i.e., while supporting a person hanging). The proper method is to lift the person slightly, then carefully slew the arm if needed to move them to a safe landing area. Sudden swinging of a loaded davit could overload the base or cause loss of control. Plan the retrieval path in advance and clear any obstacles.
- **One Person at a Time:** Only **one user should be attached and using the system at any given time** for fall protection. (Exception: during a rescue, the system is rated for two persons if the SRL is supporting both rescuer and victim, or the winch is lifting one and the SRL backing up another.) Do not attempt to have two workers on two lines of the davit simultaneously in fall arrest (e.g., one on the SRL and one on the winch at the same time) unless specifically allowed and the combined weight is within limits. The **incorrect practice** would be trying to raise two people at once or using one davit to secure two workers in fall arrest – this is not what this portable davit is designed for. If multiple entrants are needed, use separate systems or one at a time.





- **No Uncontrolled Descent:** The winch is equipped with an automatic brake to prevent free fall. **Never disengage or “ride” the brake intentionally** to drop someone quickly. Lowering must be done in a controlled manner by turning the handle. Free-fall descent is both dangerous and can damage the brake due to overheating. If a situation calls for rapid descent, consider a controlled device specifically made for that purpose – do not try to bypass the safety features of this winch. Also, never let go of the winch handle during a lift or lower – maintain a grip to control speed (even though the brake will prevent a free-fall, a spinning handle can cause injury or cause dynamic shock when it locks).
- **Backup During Man-Riding:** As stated, **when using the winch to lift or lower a person (primary man-riding)**, the SRL must be attached as a backup (free-running) to arrest a fall if the winch fails. Conversely, if relying on the SRL to enter (for example, a controlled descent device scenario or ladder climbing with SRL backup), have the winch line attached and ready to engage for rescue if needed. It is incorrect to ever use a single line for entry without any secondary – a failure of that line could be fatal. The two systems work together for a reason: one takes the load, the other stands by to instantly catch a fall or assist in raising an incapacitated worker.
- **Material Hoisting:** Avoid the temptation to use this davit system as a general crane for equipment or materials. The SRL cannot be used at all for material lifting (it's only for people). The winch has a goods lifting capacity (250 kg) BUT the device is Davit is limited to **140kg MAX**, regardless of winch capacity. If you do lift materials (≤ 140 kg) with the winch, **never lift people at the same time**, and be aware that frequent material handling could wear the device faster. Under no circumstance use the SRL's retrieval mode to winch materials or as a construction hoist – that is an incorrect use and outside the design scope.
- **Monitoring and Communication:** During any use of the system, maintain **clear communication** between the entrant and the attendant operating the winch or supervising. A correct practice is to use hand signals or radios in noisy environments so the person on the winch knows when to stop or slow down. An incorrect practice would be allowing the entrant to detach themselves without informing the attendant or not having a signal – always communicate before detaching or moving so the attendant can maintain safety (e.g., not suddenly pay out slack).

In summary, **always use the davit system in the way it was intended** – as a personal fall arrest system with rescue capabilities for one person at a time. Do not improvise or push it beyond its limits. If any doubt arises about whether a certain use is safe or correct, **stop and consult the manufacturer or a safety engineer**. Adhering to correct techniques ensures maximum protection for the worker and reliable performance of the equipment.

Correct usage by the worker and attendants is crucial. This section highlights some examples of proper vs. improper use, including how to connect to the system, how to move while attached, and what practices to avoid. Many serious accidents occur not from equipment failure, but from using the gear incorrectly. Always follow the do's and don'ts from the Warnings section, and pay special attention to the following points:

INCORRECT CONNECTION



CORRECT CONNECTION





INSPECTION

Regular inspection and maintenance of the davit system are essential to ensure it will perform as expected in an emergency. Both the **authorised user** (before each use) and a **competent person** (at scheduled intervals) must systematically inspect the entire system. Use the following guidelines, which combine manufacturer recommendations and standard industry practice, to create an inspection checklist. Keep records of all inspections in the equipment log (see the end of this manual or your organisation's forms).

Inspection Frequency:

- **Pre-Use Inspection:** Each time the davit system is assembled or before a new work shift, the user or supervisor should visually and physically inspect all components. This is a cursory check to catch any obvious problems (damage, missing pins, etc.) before putting a person on the line.
- **Frequent (Operational) Inspection:** If the equipment is used daily or heavily, a more thorough inspection by a competent person on-site might be done weekly or monthly.
- **Periodic Inspection:** At least every **12 months**, or more often if required by local regulations (e.g. every 6 months for man-riding equipment in some jurisdictions such as the UK's LOLER/PUWER), a **competent person** who is knowledgeable in fall protection should do a comprehensive inspection and servicing. This may involve returning the SRL or winch to an authorised service centre for detailed examination, recalibration, or re-certification as required. Follow the manufacturer's guidelines on periodic factory service (for example, SRLs often require factory re-certification at a set interval or after a fall).
- **After a Fall or Impact:** *Anytime the system has arrested a fall or been subjected to a shock load*, it must be removed from service immediately and not used again until a competent person (or the manufacturer) certifies it is safe. Often, this means sending the SRL and winch for factory inspection and replacing certain parts (for instance, the SRL might have an irreversibly deployed fall indicator that necessitates servicing).

Now onto **what to inspect** in each component:

a. Barrel Mount and Davit Mast (40914 & 40900):

- **Structural Members:** Check the davit mast, boom, base plates, and sleeve for any **bends, cracks, dents, or distortion**. The metal surfaces should be smooth and straight. Pay special attention to weld points and the area around any holes or pins for signs of metal fatigue or cracking.
- **Clamping Mechanism:** Inspect the barrel mount's **threaded rods and handles**. Are the threads clean and not stripped? Do the handles (tommy bars) turn freely and are not bent? Ensure any **welded nuts or bolts** on the clamp are secure. Look at the inside surfaces of the clamp – if they have gripping pads or serrations, ensure they are intact and not excessively worn smooth.
- **Pins and Bolts:** Verify all **pins, bolts, and fasteners** on the mast are present and properly tightened. This includes the mast locking knob, any through-pins connecting mast sections, pulley axle bolts, etc. Remove each **locking pin** and examine it for straightness and that the locking balls or detent mechanisms work (the ball detent should protrude strongly; springs not weak). **Never use a bent or damaged pin**. For bolts, check that locknuts are in place (or cotter pins for clevis pins) and that nothing is backing out. **Missing or loose fasteners are a red tag condition** – do not use until replaced.
- **Pulleys:** Spin each **pulley** at the davit head to ensure it rotates smoothly. Inspect for **wear grooves** in the pulley where the cable runs; slight wear is normal, but deep grooves or sharp edges mean the pulley should be replaced. Ensure the pulley guard or retaining pin is present so the cable cannot come off the sheave. Also check that the pulley isn't wobbling (indicates bad bearings). If the pulley has removable bushings or axles, ensure they are secured.





- **General Condition:** Check the davit and base for **corrosion** – any rust, especially at joints or holes. Surface rust can be cleaned and painted, but heavy corrosion, pitting, or flaking is cause for deeper inspection or removal from service. Check for any **deformation** of the base's shape (it should be square and flat where it clamps). Also verify **labels on the davit and base** (if any) are present (capacity labels, ID tags, etc. – see Labelling).

b. Winch (40401):

- **Cable (Wire Rope):** Thoroughly examine the entire length of the winch cable by spooling it out and back in. Look for any **broken wires, kinks, “bird-caging” (where strands separate or bulge), flattened portions, corrosion, or frays**. Pay attention to high-stress sections – near the hook termination and the first few wraps that sit on the drum often. If you see **knotting or severe abrasion** on the cable, or more than e.g. 3 broken wires in one strand or 6 in all strands in one lay (per EN standards), the cable must be replaced. The cable should also not be **permanently deformed** from past overloading (no distinct sharp bends). If equipped with a **red swaging indicator** (some winch hooks have a red plastic piece that shows if overload has occurred or if the hook throat opened), check if it's deployed.
- **Hook and Hook Latch:** Inspect the **hook** at the end of the winch line. The hook should be free of corrosion, cracks, or bending. The **safety latch** (spring gate) on the hook must snap shut and not be bent or missing. Try opening it and ensure it closes fully on its own. The latch pin should be secure. Also check the hook's swivel (if present) rotates freely and isn't seized by rust. Many Safehold hooks have a **load** indicator (a red ring or paint that appears if the hook has been shock loaded). If this indicator is visible, remove the winch from service until the hook is replaced.
- **Drum and Winch Body:** Look at the drum that the cable winds onto – are there any deformities or sharp edges? The drum should be tight on its shaft (no wobble). The **winch frame and gearbox** should have no cracks or loose bolts. Check that **mounting bracket** on the winch is firmly attached (no loose bolts or welds where it joins the winch body). If the bracket is removable, ensure its bolts are tight.
- **Gears and Brake:** Operate the winch without load to feel the gears and brake. **Never disassemble** the gearbox or brake unless authorised, but do listen for unusual noises. The handle should turn smoothly in both directions when unloaded (note: in one direction it hoists, in the other it lowers under brake control). **Test the brake:** a simple field check is to apply a bit of load (have someone put tension on the hook or lift a light object) and ensure that when you stop turning the handle, the load holds steady and does not unwind. The automatic brake should hold the position **without slippage**. If any slipping is noticed or if the brake chatters excessively, do not use the winch until serviced. Check the **anti-reversal latch** (if the handle has a detent to prevent reverse spinning or an anti-pawl) is functioning.
- **Handle & Knob:** Inspect the winch handle for any cracks or bending. Make sure the attachment bolt or quick-connect mechanism for the handle is secure. The **handle length adjustment knob** (clamp) should tighten properly and not be stripped. If the handle is removable, ensure you have the correct handle for the winch and it engages the drive correctly. Do not extend the handle with unauthorised extensions.
- **Mounting Pins & Tether:** Just as during setup, verify the **two pins holding the winch to the davit** are secure and intact. Also examine the **winch safety tether** or secondary strap – it should not be frayed or cut. If it's a webbing strap, check for cuts or chemical damage; if chain, check for bent links.
- **Label:** Check that the **winch's identification label** (with model and serial) is present and readable (usually on the side of the winch). If it's missing or illegible, that's a red flag and the device should not be used (the label often contains warning information and is needed for inspection records).





c. Self-Retracting Lifeline (SRL) (31001):

- **Housing and Fasteners:** Inspect the **SRL housing** (usually a composite or aluminium casing) for cracks, dents, or other damage. All screws or rivets holding the housing together must be present. If the housing is dented or bent such that internal parts could be affected, the SRL should be taken out of service for factory inspection. Check the **swivel eye** (top anchorage point): it should rotate freely and not be distorted or loose.
- **Lifeline (Cable) and Drum Function:** Similar to the winch cable, go over the **entire SRL cable**. Slowly pull the cable out and inspect for any **broken wires, kinks, frays, corrosion, or flattening**. Pay special attention near the hook and the first few feet that stay inside when fully retracted, as those see a lot of motion and stress. If the SRL cable has a **shock absorber or energy absorber pack** (some 3-Way SRLs have an external tear web or an internal mechanism), ensure it has not been deployed (no torn stitching or red indicator unless a fall happened, in which case the SRL should have been removed from service anyway).

As you pull the cable out, **test the locking mechanism:** give a sharp tug to simulate a fall – the SRL should lock abruptly and stop the cable from extending. It should engage generally within a short distance (per standards, usually within 0.6 m). If it fails to lock or if it locks up too easily with normal movement (nuisance locks) or too late, it needs service. Then **allow the cable to retract** back under tension – it should retract fully without slack and without requiring manual feeding. "Weak line retraction" is a sign of spring or internal issue. The cable should also retract smoothly without getting hung up. Do not let it slam into the housing; protect the hook from impacting the casing.

- **SRL Hook and Hardware:** Check the **snap hook** on the end of the SRL line. Just like the winch hook, its latch should spring shut, and there should be no deformities or corrosion. Many SRL snap hooks have a **fall indicator** (usually a small coloured band or a locking pin that will pop out if a significant force was applied). Inspect for any sign that the fall indicator is triggered (refer to the SRL manual specifics). If triggered or if the hook is damaged, the SRL must be serviced. The hook swivel (if present) should rotate freely.
- **Function of Retrieval Mechanism:** Since this is a 3-Way SRL with a retrieval winch, perform a function check of that feature without a person on the line. Typically, you would pull out a few feet of cable, then engage the rescue mode (this might involve pushing in or twisting a knob on the side of the SRL to switch from fall arrest to winch). Engage the winch handle (if not already attached) and slowly turn it to ensure you can reel in the cable. Check that the mode properly switches back to fall-arrest when released (depending on design, some automatically revert). **Do not fully test under heavy load**, just ensure the mechanism is operational. Important: After testing, **reset the device to fall arrest mode** before actual use (so that it will pay out freely). If the retrieval mode does not engage or the handle free-spools, do not use the SRL – tag it for service.
- **Internal Inspection (Competent Person):** A detailed inspection might include opening a window on the SRL (if provided) to check pawls, springs, etc., but many SRLs are sealed. As a user/competent person in the field, do not open the housing beyond manufacturer's instructions. Instead, look for **external signs of problems:** e.g., unusual noises when the line extends/retracts (grinding, clicking beyond the normal ratchet), or if the device **failed any of the functional tests above**. Also verify the **internal fall arrest indicators** if any (some models have an indicator on the side if the brake was activated). If unsure, have the SRL inspected by an authorised technician.
- **Labels and Markings:** Ensure **all labels on the SRL are present and legible**. The SRL's label typically includes the model, serial number, date of manufacture, standard compliance, capacity, and possibly a diagram of proper use. If the label is missing or illegible, the SRL should be removed from service until it is relabelled or replaced. (In many jurisdictions, missing labels mean the equipment is not compliant.)





d. General Equipment:

- **Tethers and Straps:** If your system uses any webbing straps (like the device tethers or harness straps), inspect them for cuts, fraying, abrasion, mold, or chemical damage (discolouration). Pay attention to stitching – if any stitches are unravelled or cut, that component should be replaced.
- **Harness Interface:** Although the harness is beyond this kit, you should also inspect the harness being used as per its manual – especially the dorsal D-ring and shoulder straps where the davit's lines attach. Make sure the harness buckles and adjusters are secure and the harness is in good shape (no UV damage or heavy wear).
- **Cleanliness:** The equipment should be reasonably clean. Wipe off any dirt or mud from the cables and devices, as grit can cause wear. If any parts were exposed to salt water or corrosives, rinse with fresh water and dry thoroughly, then inspect for corrosion.

After inspecting, **document** the results in the inspection log (record date, inspector, and any observations). If any component fails inspection, **remove the entire system from service** and mark it clearly (e.g., tag it "DO NOT USE") until repaired or replaced. The checklist below summarises key inspection points:

- No loose or missing fasteners (bolts, nuts, pins) on any component.
- No structural deformation or cracks in davit mast, boom, or base.
- SRL lifeline retracts completely and locks when pulled sharply (test twice) – PASS/FAIL.
- All labels present and legible; no signs of excessive corrosion on metal parts.
- Winch cable is intact (no kinks, no broken wires, no flattening); winch brake holds load.
- Hooks and connectors: gate springs back, locks functional; swivels rotate freely.
- Rope/Cable is clean, no knots, no signs of chemical attack (no burns or melting).
- Tethers/straps in good condition; harness (if part of kit) inspected separately.
- **Action:** If any "FAIL" noted above, do not use until corrected.

By rigorously inspecting the system, you ensure it will operate correctly in the event of a fall and that no hidden damage will compromise safety. Remember that **record keeping** is important – maintain the inspection and maintenance log as proof of regular inspections and to track the gear's condition over time.



OPERATION

With the equipment properly installed and inspected, operating the davit system involves both **using it for fall protection (arresting a fall) and using it for raising/lowering (entry and rescue)**. The following instructions cover how a worker should use the system and how an attendant should operate the devices. All personnel involved should be trained on these operational steps prior to actual use.

- 1. Donning Harness and Connections:** The worker who will be protected by the system must wear a compatible full body harness adjusted to a snug fit. Before approaching the entry, attach the lifelines to the harness: - **SRL Connection:** Connect the SRL's snap hook to the **dorsal D-ring** on the worker's harness (between the shoulder blades)[17]. Ensure the snap hook is fully closed and locked. The dorsal connection is used because it keeps the worker upright if a fall occurs. - **Winch Connection:** If the work involves being hoisted or lowered (typical for confined space entry), attach the winch line hook to an appropriate **front attachment point** on the harness or rescue sling. Many harnesses have a sternal D-ring or shoulder loops for rescue; use a spreader bar if needed to connect to both shoulder loops so the person can be raised vertically if unconscious. If unsure, the **dorsal D-ring** can also be used for the winch, though connecting both devices to the same D-ring can be awkward – an approved Y-lanyard or carabiner splitter can sometimes be used to attach two hooks to one D-ring, but ensure all components remain properly oriented and locked. The key

is that the worker is securely attached to both the SRL and the winch line before entering the space.

Double-check that there is no twist in the lifelines and that both are running freely over the davit pulleys. The SRL should have tension on it (retracted until it meets the harness). The winch line should be taut but not lifting the person yet.

- 2. Before Descent – System Function Check:** The attendant (person operating the winch/topside) should perform a quick function check with the worker connected, before the worker enters the space: - Have the worker or attendant pull on the SRL line to ensure it is locked into the harness correctly and will still retract. The worker can tug on it (not a full fall, just a firm pull) to see if the SRL will lock momentarily. - Test the winch by hoisting the worker just an inch or two (or just applying slight tension) to ensure the brake holds and the feeling is solid. - Ensure communication signals are established (verbal, radio, or rope signals) between the entrant and attendant.
- 3. Controlled Descent (Entering a Confined Space):** If the worker needs to be lowered into a space, the attendant will operate the winch: - The worker should position themselves at the entry (such as stepping into a manhole with feet at the top rung of a ladder or in a tripod scenario, etc.) while the attendant takes up slack on the winch line. - Once ready, the attendant **slowly turns the winch handle counter-clockwise** (or the direction indicated for lowering) to begin paying out cable, allowing the worker to be lowered. Maintain a slow, steady descent speed – **do not let the line run freely**. The SRL line will pay out automatically in tandem, remaining mostly slack if the winch is taking the weight (this is fine; the SRL is acting as backup in case of a slip). - The worker can also assist by holding onto ladder rungs or the davit if applicable, but should not disconnect anything. They must not climb faster than the winch feeds out line. - The SRL should be kept in **Free Running mode** during descent – do not engage the SRL's retrieval handle or any locking mechanism; it should function as a normal SRL. This way, if the worker slips faster than the winch, the SRL will lock and arrest the fall. - As the worker goes down, **monitor both lines:** There should be some tension on the winch line (carrying the load) and minimal tension on the SRL (just enough to retract slack). If the SRL starts to lock frequently during normal lowering (nuisance locking), slow down slightly – the SRL may be sensing a quick movement. - If the SRL accidentally locks and halts the descent (perhaps the worker bumped it causing a quick tug), the attendant can pause and let the worker take weight off the SRL by slightly raising with the winch or changing angle, then the SRL should retract and unlock. Do not force the descent if SRL is locked; resolve the lock first. - Continue





lowering until the worker reaches the bottom or the work position. Once the worker is safe at the bottom, you may put some slack in the winch line if needed (e.g., if the worker moves around, avoid inadvertently tensioning the winch line). However, **always keep the SRL connected and never leave slack that could result in a fall.** The worker at the bottom should never disconnect from the SRL even if they stand on a surface – they must stay attached in case they slip off that surface.

4. **During Work (Work Positioning):** While the worker is in the confined space or at height, the system provides continuous fall protection. The SRL will automatically adjust as they move. The attendant should: - Keep a hand on or stay near the winch handle ready to operate if needed. - Not lock the winch unless desired (some winches have a lock – usually keep it in neutral brake mode so it's free to pay out or in under control). - Make sure the cables are not rubbing on any edges. If the lifeline could chafe on a sharp edge, use edge protectors or pad that area. - Maintain communication. The worker should signal if they need to be lifted or if they are climbing out under their own power. - Never leave the post unattended. If the attendant must step away, another competent person must take over monitoring.

If the work involves the worker climbing back out (e.g., via a ladder) while still attached: - The attendant should take up slack via the winch as the person climbs, or simply keep the lines taut by hand. The SRL will retract slack as well. This ensures if they slip off the ladder, the SRL catches them immediately. - It's often safer to just hoist the worker with the winch even if a ladder is there, to have more control.

5. **Lifting (Retrieval of Worker):** If the worker needs to be raised (either after completing work or in a rescue), the attendant will use the winch to lift: - **Ensure the SRL is not in retrieval mode** (it should still be in fall arrest mode) so that it can pay out as needed while hoisting with the winch. - Begin **cranking the winch handle clockwise** (or the hoisting direction) steadily. The brake will allow lifting. It is geared for one-person load, so it will be effort but should be smooth. - As the worker ascends, ensure they are oriented properly (e.g., not getting caught on the opening). - If the worker is conscious and able, they can help by lightly pushing against walls or guiding themselves. If they are incapacitated, hoist carefully and have another helper guide their body through the opening to avoid catching feet or arms. - The SRL will simply retract the slack as you hoist – this is good, as it keeps the SRL ready to arrest if anything happens. If for some reason the winch failed under load, the SRL would immediately lock and stop the fall. - Once the worker reaches the top, help them to stable ground, and **secure them from falling again before disconnecting.** Typically, keep them attached until fully away from the hazard.

6. **Using the SRL's Retrieval (Emergency Rescue Mode):** If the winch is not usable (for example, if the winch line was not attached to the worker initially, or if the winch fails, or the situation makes winching impractical), the attendant can use the SRL's built-in winch to perform a rescue: - First, **ensure the SRL has locked onto the load** (which would be the case if a fall occurred – the SRL would be supporting the person's weight). The SRL will hold the person via its internal brake. - Remove the SRL's **winch handle** from its storage position (on Safehold models it may clip to the unit) and insert it into the retrieval drive socket. This may involve pulling a pin or lever to allow the handle engagement. - **Engage rescue mode:** Depending on the model, flip the rescue activation lever or knob. On this Sentinel SRL, the manual states switching the mode allows lifting or lowering the victim. Typically, you turn the knob to "Rescue" which might automatically lock the cable drum so it won't pay out and engages the gearing. - Once engaged, **begin turning the handle** to raise the person. You will likely hear clicking of internal pawls. Note: raising someone with the SRL's small built-in winch is slower and harder than with a dedicated winch, due to higher gear ratio (often these have ~6:1 ratio). Be patient and maintain steady motion. - You can also **lower** using the SRL winch if needed (some devices allow controlled lowering by reversing the handle). This is useful if, say, the entry is at the bottom and you need to let the person down to a lower level in a controlled manner. - Once the person is safe, remember to **reset the SRL** back to normal mode and service it as required (if a fall occurred, it will need inspection).

Using the SRL's retrieval is typically a backup plan. It is very effective for short lifts (like a few meters to



get someone back to a platform). If the person is far down (20 m in this case), switching to a mechanical advantage system or secondary winch might be considered if time permits, since cranking 20 m up with an SRL winch can be time-consuming. However, in critical scenarios, the SRL retrieval is a lifesaver when no other means is attached.

7. **Edge Transition and Safety:** When bringing a person out of a confined space (or lowering in), one of the tricky parts is the **edge or lip of the opening**. Ensure the davit boom is positioned such that the line clears the edge without rubbing excessively. If the person is on a stretcher or rescue board, the davit can be used to pivot them out; be mindful of balance. Ideally, use tag lines to guide a stretcher. During the final stage of lifting a person out, **do not disconnect them until they are completely in a safe area** (past any guardrails or away from the hole). This may mean both the SRL and winch are slack once they're on the surface – that's fine, leave them attached until you can undo their harness safely.
8. **After Use:** Once the operation is complete (work done or rescue finished), immediately **inspect the equipment** for any damage (especially if a fall was arrested or a heavy load was lifted). If a fall occurred, remove the SRL (and possibly winch) from service for formal inspection. If everything is normal, carefully rewind all cables back onto their devices under tension (don't let them tangle). Clean off any dirt. Store the system as recommended (see **Maintenance**).

Throughout operation, remember that the attendant (top person) has a critical role: monitoring the safety of the entrant, operating the retrieval devices, and coordinating rescue if needed. **Never leave an entrant alone** in a confined space or at height relying solely on the equipment – the gear is lifesaving, but human oversight is essential.

In summary, **use the winch for deliberate raising/lowering** of personnel and **use the SRL for continuous fall protection and emergency backup retrieval**. By following these operational steps and practicing them in drills, users will be prepared to use the davit system effectively and safely in real situations.

RESCUE APPLICATION

The **rescue capabilities** of the 40921 Davit System are a primary feature that can save lives in an emergency. Rescue application refers to using the davit, winch, and SRL to retrieve a worker who has fallen or is incapacitated in a confined space or at height. Every job should have a detailed, rehearsed Rescue Plan that covers possible scenarios (fallen worker suspended on the lifeline, injured worker who cannot climb out, etc.). Below we outline how this system is used in common rescue scenarios:

- **Pre-Planning:** Before any work begins, ensure all personnel know their role in a rescue. Identify who will operate the winch, who will assist (guiding the victim, calling emergency services, performing first aid), and what equipment is needed (spare lines, trauma straps, etc.). Time is critical in rescue – a suspended worker can experience suspension trauma in as little as 5-15 minutes – so the plan should aim to retrieve the person quickly (within a few minutes ideally). The davit system allows retrieval **without having to send another person into the hazardous space**, which is a huge advantage if used correctly.

Scenario 1: Fallen Worker Suspended on SRL (worker slipped/fell and the SRL arrested the fall, worker is now hanging, possibly unconscious).

- **Situation:** The SRL has locked and is supporting the worker, preventing them from falling further. The winch line may or may not have been attached. Assume the worker is dangling and unable to climb up.
- **Rescuer Actions:** The attendant should immediately activate the rescue plan. If the winch line is already attached to the worker (as it should be in a confined space entry), use the winch to raise the worker out, as described in Operation Step 6. This is likely the fastest method: begin cranking the winch to lift





the person. The SRL will remain locked and simply follow along (it may ratchet in as you lift). Because the SRL is still supporting some weight until you fully take over with the winch, expect a slight initial resistance when lifting.

If for some reason the winch was not connected, or the winch fails, then use the **SRL's retrieval function**:

- Engage the SRL's winch mode (flip the lever to "Rescue" on the SRL unit). - Insert the handle into the SRL and turn to start lifting the worker. It might require a lot of turns – keep at it steadily. The internal gearing will prevent back-sliding. - Once the worker's weight is taken by you turning the handle, the SRL's brake will actually disengage (because you are effectively raising him). - Raise the worker to a safe platform or to the top of the entry. You can also lower a short distance if needed to a better pick-off point (for example, to transfer to a ladder or another rescuer), but generally you'll be lifting.

- **Guiding the Victim:** As the unconscious or injured worker nears the top of the opening, have an assistant guide their arms, head, and gear through the opening so they don't snag. The davit arm can often be swung a bit to move the person clear of the hole and onto the ground once up – do this carefully. If the person is unconscious, be prepared that once they are up and you release tension, they could collapse – have at least one person ready to grab and lay them down safely.
- **After Retrieval:** Immediately provide first aid. If suspension trauma is a concern (worker was hanging immobile for several minutes), do not lay them flat immediately. Keep them in a seated position if possible and follow proper medical guidance for suspension trauma. Remove harness pressure from legs (some harnesses have trauma relief straps that can be deployed while hanging – instruct workers to use these if they're conscious and awaiting rescue).

Scenario 2: Entrant Incapacitated in Confined Space (e.g., ill or injured, but not necessarily a fall).

- **Situation:** The worker is in a lower level, perhaps collapsed due to a health issue or overcome by fumes, etc. They may be attached to the SRL and winch already as per normal entry, but they didn't fall significantly (so SRL might not be locked if they didn't jerk it).
- **Rescuer Actions:** If the worker is attached to the winch line, the attendant should start **hoisting them out with the winch immediately**. Communicate to others to call emergency services if needed. Since the SRL might not have locked (if it was a slow collapse, the SRL could have slowly fed out), be aware that as you hoist, the SRL will simply retract normally. There's no issue here; just raise the person. If the SRL did lock (maybe a sudden slump caused a jerk), treat it like scenario 1 – the SRL is holding them, but you can still crank them up with the winch; the SRL will give as you lift.

If the worker was not connected to the winch (which would be an unsafe practice, but let's say only SRL was on them while they were working and they became incapacitated): - You have two choices: either engage the SRL's rescue mode and winch them up with that, or if the person is at a reachable distance, a rescuer could don a harness and go down (protected by SRL) to attach the winch line to them. The latter is riskier and slower, so ideally the SRL's retrieval should be used by itself to bring them up. - So, engage SRL rescue mode and reel them up as in scenario 1.

- **Edge Transition:** Same as before, guide the person out. If they have equipment or tools attached, it may snag – one reason to keep work areas tidy. Cut away any tools if necessary (better to drop a tool than delay the rescue).

Scenario 3: Rescue of a Conscious Worker Who Cannot Climb Out.

- **Situation:** A worker is uninjured but maybe the ladder is broken or they are stuck in a situation where they can't easily climb out. Or two workers in space and one needs assistance getting out.
- **Rescuer Actions:** In this case, the worker can assist somewhat. The attendant should still operate the





winch to **haul the worker out**. The worker can put their weight in the harness and use the winch ride. If they are able, they can stabilize themselves or even climb while the winch takes the majority of the load. The SRL will be there in case of any slip. This is more of a controlled evacuation. It's straightforward: use the equipment to lift them as normal. If there's a narrow entry, ensure they keep arms close in.

- **Alternate Lowering Rescue:** If for some reason evacuation upward is impossible (maybe an exit at a lower level is safer due to fire or hazard up top), this davit can also be used to **lower a person to a secondary exit**. For example, the davit might be positioned on a high floor, and you need to lower someone to ground. You could use the winch to lower them (with the SRL as backup). Or if the davit has to stay behind, one could detach and use the SRL's rescue to lower (not typical, but possible if anchor can be left). These are complex scenarios, beyond normal usage, but the equipment is capable of controlled lowering as well as lifting.

Important Rescue Considerations:

- **Two Person Load:** The SRL is rated for two-person rescue loads (280 kg), so it can handle a rescuer+victim if one rescuer goes down on a separate line. The winch typically also can handle at least 225–250 kg, but always refer to manufacturer limits. In a scenario where a rescuer enters to attach something, ensure combined loads don't exceed the system. The manufacturer capacity allows for scenarios where one rescuer is using the winch to haul another person while also on the line – but do not exceed those limits.
- **Swing Hazard:** If the person needing rescue ended up away from directly under the davit (maybe they moved horizontally in a space), try to gently manoeuvre them (perhaps by using tag lines or a pole) to line them up before lifting to avoid them swinging into walls.
- **Rescue from Fall on Edge (height scenario):** While this kit is primarily for confined space, it could be used for a fall over an edge (say a worker fell off a platform but is hanging by the SRL over the edge). In that case, anchor the davit to something secure and use it as a **temporary anchor point** to haul them back up or lower them. The procedure remains: attach winch if not attached (a rescuer may need to clip the winch line to the suspended worker – this is a pick-off rescue). Then either hoist up or lower to ground. This gets into technical rope rescue territory; ensure such operations are led by trained rescuers.
- **After the Rescue:** All components that were under load in the rescue (particularly if a fall was arrested) should be removed from service for **post-incident inspection**. Also, debrief the event to improve plans.

The davit system essentially gives you a secure anchor and two means of retrieval (manual winch and integrated SRL winch). **By having redundancy, it greatly increases the chances of a successful rescue** even if one method encounters a problem. Practice using both methods (winch and SRL retrieval) in drills so that in a real emergency, the team can act swiftly. The ultimate goal is to **bring the fallen/injured worker to a safe place as quickly as possible without endangering rescuers**, and this system is designed to do exactly that when used correctly.

COMPATIBILITY

"Compatibility" in the context of fall protection refers to how different components of the system work together without causing adverse effects. The 40921 Davit System is comprised of specific parts that have been **designed and tested as a system**. To maintain safety, **use only the designated components and approved accessories** with this system. If in doubt seek verification from Safehold Ltd.





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- **Use Only SafeHold Approved Components:** The davit mast (40900), barrel mount (40914), SRL (31001), and winch (40401) in this kit are engineered to fit and function together. Do not swap in a different SRL or winch that is not approved by Safehold for use on this davit. For instance, using a much heavier SRL not designed for the mast could overstress the mast or not mount securely. The manufacturer explicitly states that Safehold equipment is designed for use with Safehold approved components and subsystems only. Using non-approved parts **may jeopardise the compatibility of the equipment and the entire system**. It could also void warranties and certifications.
- **Anchorage/Support Structure Compatibility:** The structure to which the barrel mount is attached must be capable of withstanding the forces generated in a fall arrest or rescue. Generally, the anchorage (structure) should support a static load of at least **12 kN (2698 lbf)** for one person fall arrest in EU standards, or 22.2 kN (5000 lbf) per OSHA for anchorages. Ensure the **geometry** of the structure fits the barrel mount: the maximum wall thickness or flange the 40914 can clamp is a certain size (check Safehold specifications; typically barrel mounts accommodate around 0-150mm/6inches depending on design). For structures wide, use the 40915 Adjustable Wall Mount. Do not try to attach it to something too thick or too irregular that it cannot properly clamp. Also, surfaces that are extremely slick or tapered may be incompatible without additional precautions (like using a rubber pad to increase friction). If mounting to a **vertical** surface (like an I-beam flange vertical orientation), ensure the clamp can grip without slipping down. Always tighten per instructions.
- **Harness and Connector Compatibility:** The system must be used with a **full body harness** certified to the relevant standards (EN 361 for Europe, OSHA/ANSI Z359.11 for US, etc.) for fall arrest. The harness should have the proper D-rings for connection (dorsal D for fall arrest, and ideally shoulder or frontal attachments for retrieval). Check that the **hooks and carabiners** on the SRL and winch line **fit into the harness D-rings without risk of tri-axial loading or roll-out**. The D-ring must be the proper size and shape that the hook locks cannot become pressed open or twisted. Generally, standard harness D-rings are fine. Do not attach to harness loops or other points not intended for life support.
- **Connector Strength:** All connectors (hooks, carabiners, shackles) used in the system must meet strength and type requirements. For example, per EN362 and OSHA, self-locking snap hooks or self-locking carabiners with a minimum **gate strength of 16 kN** are required. The supplied hooks meet these standards. If you use any additional carabiners (say, to attach the SRL to the davit or a tag line to the person), they should also be rated (22 kN min breaking strength typically). **Non-compatible connectors may unintentionally disengage** or fail. Avoid using any connector that is too small (leading to roll-out) or too large (letting the hook gate potentially press open against it).
- **Multiple Equipment Interactions:** If using additional equipment with the davit (for instance, a secondary backup SRL, or a bosun's chair, or a work positioning lanyard), ensure that these **do not interfere** with the primary system. The davit has shackles and eyes for the provided devices; adding more lines can tangle or add unaccounted loads. Always consult Safehold if planning to modify the typical setup.
- **Environmental Compatibility:** The davit system's materials (aluminium, galvanized steel, stainless steel components on SRL) are robust, but certain environments can be incompatible:
- **Chemical environments:** e.g., acid tanks, caustic areas can corrode metal parts or degrade synthetic components. If used in chemical exposure, clean promptly and inspect more often.
- **High heat:** Do not use where the lifelines or devices could be exposed to open flame or high heat





- (welding operations nearby, etc.) unless precautions (fire-proof covers) are taken. The galvanized cable will lose strength if heated and the SRL can be damaged by heat.
- **Cold:** In extreme cold, the retracting spring in an SRL can stiffen and lockup thresholds may change. Make sure in subzero conditions to test the SRL; some are certified to -40°C, check specs. Grease in winch can thicken – again, test function.
- **Water:** The system is not electrical, so water won't stop its function, but wet cables can freeze or corrode. Saltwater is especially corrosive; rinse salt off after use.
- **Personal Factors Compatibility:** Only one person should use the system at a time (except during rescue as noted). Two people should not tie off to the same SRL or winch line. Also consider the **tools or equipment the worker carries** – heavy tools add to the total weight (must remain ≤140 kg total). Additionally, if using a breathing apparatus or escape device in a confined space, ensure it doesn't conflict with harness attachment.
- **Mixing Parts from Different Manufacturers:** Avoid mixing. For instance, do not replace the Safehold SRL with a different brand unless specifically approved, and do not use the Safehold SRL on a different davit not rated for it. Even though many davit systems are similar, the bolts and pin sizes, mounting dimensions, etc., may differ. Mixing parts can lead to improper fits (like a pin that's too thin in a hole, allowing wobble or shear risk) or unknown load paths. The manual explicitly warns that using other than genuine parts may result in failure. Use of non-genuine parts also **invalidates any certification/warranty**.
- **Connector Examples:** The manual figure above in Correct/Incorrect Use shows examples – like hooking two snap hooks together is incompatible because their gates can force each other open. Another example: connecting a snap hook directly to a horizontal wire or thin cable could cause roll-out. Always use proper anchorage connectors (such as D-rings, anchor straps, etc.) with shapes that maintain the connector orientation.
- **Subsystem Compatibility:** If this davit system is to be used as part of a larger system (for example, mounted on a structure where there are other lifeline systems, or used in conjunction with a self-contained breathing apparatus on the user, etc.), ensure that nothing hinders the performance of another. The SRL line should be the only lifeline running through the pulleys – don't run ropes or hoses through the same pulley as the SRL or winch line. If the worker has an air supply hose, that hose should be managed separately (perhaps tied off so it doesn't tangle with the lifelines).

In summary, maintain the system as a closed loop of known components: **40914 base + 40900 davit + 40401 winch + 31001 SRL + full body harness + appropriate connectors. Verify that every connection is compatible in size, shape, and strength** – if any connection could come apart or load improperly, it's not compatible and must be changed. When in doubt about combining this equipment with something else, **contact Safehold** for guidance. By keeping components within the designed set, you ensure that the system's performance (fall arrest force, winching capacity, etc.) remains as tested and reliable.





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MAINTENANCE, CARE, AND STORAGE

To ensure a long service life and proper functioning of the davit system, it is important to maintain the equipment regularly. The following maintenance and care procedures should be followed in addition to any specific instructions in the component manuals:

1. **Cleaning:** After each use (especially in dirty or corrosive environments), **clean the equipment:** - Wipe down the **davit mast and barrel mount** with a damp cloth to remove dirt, mud, or salt. Dry them with a clean rag. For stubborn dirt, a mild soap solution can be used on the metal components, then rinse and dry. - **Clean the lifelines (cables)** by extending them fully and using a cloth to remove grit. If the cables contacted oil, grease, or chemicals, use a gentle solvent like isopropanol on a cloth to wipe them (do not soak steel cables in chemicals as it can remove lubrication internally or promote corrosion). Dry the cables thoroughly to prevent rust. - If the **SRL cable** got wet or was used in rain, allow the SRL to retract fully and then let it hang freely in a dry area so any moisture can drip out (some SRLs have drain holes). Ensure the cable and interior dry out to avoid corrosion. - Never use harsh chemicals (acids, alkalis, bleach) on any part of the system, as this can weaken metal and synthetic parts. Solvents like gasoline or paint thinner are not recommended either; they can degrade plastics and labels. - The **winch mechanism** is enclosed; do not flood it with water. Just wipe the outside. If mud or dirt got into the drum area, carefully clean it out. - Ensure **labels** are not scrubbed off when cleaning; avoid using solvents on labels.



2. **Lubrication:** - The **winch gears and drive** are typically factory lubricated. They generally do not need frequent lubrication from the user. However, if after extended use the winch feels stiff or you hear excessive noise, you might carefully apply a light machine oil or manufacturer-approved grease to the gear teeth accessible (if any). Follow the 40401 manual's guidance on lubrication (if provided). Do not over lubricate as it can attract dirt. The **SRL** is a sealed unit; do not attempt to lubricate inside it. The only part you might lightly oil is the snap hook pivot if it's sticking, or the swivel eye on top if it's squeaky (one drop of oil). Keep oil away from the lifeline itself. - The **davit mast sleeve bearing** (in the 40914 base) may require a small amount of grease periodically to allow smooth rotation. If the davit was subject to heavy rain or cleaning that might have washed out grease, you can apply a bit of multi-purpose grease to the mast surface or through any grease fitting (if present) in the sleeve. Wipe off excess to not attract grit. - The threads of the **clamping** screws on the barrel mount should be kept lightly greased or use a dry lubricated PTFE to prevent seizure (particularly if used in marine environments). Also grease the pivot points of the tommy bar handles if they squeak.
3. **Storage:** - Store the system in a cool, dry place away from direct sunlight and chemicals. Ideally, keep it in a protective case or shed. UV exposure over time can degrade plastics and labels, and moisture can cause corrosion. - Hang or coil the **lifelines properly**: The SRL should be stored with its cable retracted fully (the spring will keep it retracted). Do not put heavy objects on the cable or allow it to kink. The winch line can be left wound on the drum; ensure at least 4 turns remain on the drum (which they should anyway). Never store the winch with the cable fully extended or under tension; ease the tension but keep it neatly spooled. - Avoid storing the equipment in areas of extreme heat ($>60^{\circ}\text{C}$) or cold ($<-30^{\circ}\text{C}$) unless it's designed for that, as it can affect materials (e.g., plastic housings, rubber gaskets). Also avoid damp places like the floor of a shed – place it on a shelf. - **Protect from contaminants**: If the storage area is near chemicals, cover the equipment. For example, battery acid fumes (from charging stations) can cause corrosion – not a good environment for storage. - Keep all **manuals and documentation** with the device if possible (maybe in a bag). Also keep the **inspection log** with it. That way anyone using it can verify last inspection.
4. **Servicing and Recertification:** - Follow the manufacturer's instructions for any scheduled service. For example, some SRLs require a factory overhaul or re-certification every 5 years (or as specified). The **31001 SRL manual** notes that if an SRL is not designed for disassembly by the user, it is not subject to revalidation except by the manufacturer. So you may need to send it in at the interval Safehold specifies. - The hand winch might also need periodic checking of the brake pads and pawls by the manufacturer, especially after prolonged use or an incident. Safehold or an authorised service centre can replace parts like brake pawls, springs, or cables. - **Never tamper** with the internal mechanisms yourself beyond authorised tasks. For instance, do not open the SRL casing (that can be dangerous – the spring is under tension) and do not try to modify the winch's brake. - If any part of the system is used in a fall (fall arrest event), it should be **removed from service and sent for inspection** or replaced. The SRL likely will need a factory inspection and the winch should be checked for any damage (and the cable carefully inspected, possibly replaced). The davit and mount should also be examined for any yielding or damage due to the force.
5. **Spare Parts and Repairs:** - Use only **genuine spare parts** from Safehold when replacement is needed. For example, if the cable on the winch gets damaged, obtain the exact replacement cable assembly from the manufacturer. Do not just use any wire rope from a hardware store – the length, construction, end termination, and rating must match to ensure the brake functions correctly and the drum fits, etc. - If the **SRL's lifeline** shows wear beyond acceptable, Safehold might be able to replace the cable, but often with SRLs it requires factory service. You cannot simply swap an SRL cable yourself. - Replacement of wearable items like **winch brake pads or pawls** should be done per manufacturer instructions or by a trained technician. The manual likely has a section stating that repairs must be done by the manufacturer or an authorized agent. - Keep an inventory of small **consumables**: e.g., extra cotter pins for the shackles, an extra ball-lock pin in case one is lost, etc. These small parts can put the system out of commission if missing. Only replace pins with the exact same specification (M12 x 100 ball-lock pin stainless, etc., as listed in parts).





6. **Inspection and Record Keeping:** Maintenance goes hand-in-hand with inspection. After cleaning and any maintenance, do a quick function test (does the SRL lock properly? Winch brake hold?). Fill out the **Inspection/Maintenance Log** with any maintenance performed. For example, if you lubricated the clamp screws or replaced a pin, note it.
7. **End of Life Criteria:** No equipment lasts forever. Retire and replace components that show: - Persistent corrosion that can't be removed or that pits the metal. - Deformation or cracks. - Frayed or broken cable wires beyond acceptable limits. - Any evidence of internal damage.
8. **Labels and Markings Maintenance:** Never paint over or intentionally remove labels. If labels are peeling, consult Safehold for replacements. As part of maintenance, you can put a piece of transparent tape over a label that's starting to wear, to protect it (as long as it doesn't obscure the info). But generally, replacement labels should be obtained if needed.

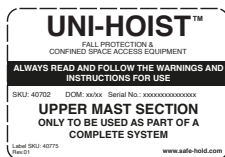
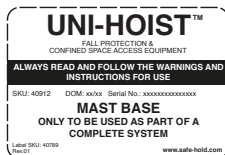
By following the above maintenance steps, you will ensure that your davit system remains in **optimal condition**, ready to perform in an emergency. A well-maintained system is less likely to have malfunctions like a sticking brake or a corroded pin that won't come out when you need it. Always err on the side of caution – when in doubt about the condition of any component, consult the manufacturer or take it out of service. Proper care and maintenance not only extend the life of the equipment but, most importantly, **preserve the life-saving functionality** of the system when it's needed most.



LABELLING

Every component of the davit system is equipped with important **labels** that provide information on safe use, identification, and compliance. It is critical that these labels remain present and legible at all times. **Never remove or deface any product label**, and if a label becomes illegible or lost, **remove the device from service until the label is replaced**. Labels contain vital data such as model number, serial number, date of manufacture, capacity ratings, and standards to which the equipment conforms – all of which are needed for inspections and traceability.

User Responsibility: During each inspection, one checkpoint is to verify “All labels on the equipment are present and legible.” This is because a missing label could mean missing critical info or that the equipment might not be an approved part. If a label is found missing or unreadable, as mentioned, do not use that component. Contact the manufacturer for guidance – they often can reissue labels if you provide the serial number (which hopefully is stamped elsewhere if the label is missing). In some cases, especially with SRLs, the serial number might also be engraved on the body in addition to the label; still, you need the label for the full info.





SRLR/Winch W1
Capacity: 140kg $\leq$ 800mm
& 280kg $\leq$ 400mm
Label SKU: 40771 Rev.01

Approved Anchor 1
EN795:2012: Type B
Capacity: 140kg
Label SKU: 40770 Rev.01

SRLR/Winch W2
Capacity: 140kg $\leq$ 800mm
& 280kg $\leq$ 400mm
Label SKU: 40771 Rev.01

Approved Anchor 2
EN795:2012: Type B
Capacity: 140kg
Label SKU: 40770 Rev.01

Material Lifting ONLY M1
Capacity: 140kg $\leq$ 800mm
& 280kg $\leq$ 400mm
Label SKU: 40772 Rev.01



UNI-HOIST™
FALL PROTECTION &
CONFINED SPACE ACCESS EQUIPMENT

**ALWAYS READ AND FOLLOW THE WARNINGS AND
INSTRUCTIONS FOR USE**

SKU: 40907 DOM: xx/xx Serial No.: xxxxxxxxxxxxxxxx
Weight Trolley
ONLY TO BE USED WITH SKU: 40900/40912/40905/40904/40908
EN795:2012: Type B - Capacity as per 40900 ONLY
1 x EXT = 320KG 2 X EXT = 240KG

Label SKU: 40777 Rev.01  **Safehold** 
Designed & Made in UK by Safehold Ltd.
Kent, England, ME10 3RY
www.safe-hold.com **0598**

 **WARNING !** 

ALWAYS CHECK MIN WEIGHT FOR SYSTEM SET UP
1 x EXT = 320KG 2 X EXT = 240KG
ENSURE WEIGHTS ARE SECURE

Label SKU: 40777 Rev.01

UNI-HOIST™
FALL PROTECTION &
CONFINED SPACE ACCESS EQUIPMENT

**ALWAYS READ AND FOLLOW THE WARNINGS AND
INSTRUCTIONS FOR USE**

SKU: 41232 DOM: 11/25 Serial No.: SAMPLE
POLE HOIST - LONG REACH ANCHOR
MOUNT DEVICES ON THE HORIZONTAL BOOM ONLY
EN795:2012: Type B - Capacity as per 40900 ONLY
140KG MAX USER CAPACITY & 250KG MATERIAL LIFTING

 **Safehold** 
Designed & Made in UK by Safehold Ltd.
Kent, England, ME10 3RY
www.safe-hold.com **0598**





EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer: **SAFEHOLD LTD.**
Unit 1-3 Eaves Court, Bonham Drive, Sittingbourne, Kent. ME10 3RY.
sales@safe-hold.com +44 (0) 333 015 2552

Model Descriptions: Uni-Hoist 2.0 Davit system
Adjustable davit arm with range of bases:
Barrel mount, Adjustable wall mount, Counterweight with basket
Counterweight with tow hitch, Portable frame and Pole Hoist

40900	SHUH-A01	UNI-HOIST 2.0 MAST ASSEMBLY
40901	SHUH-A02	UNI-HOIST 2.0 FRONT PULLEY ASSEMBLY
40902	SHUH-A03	UNI-HOIST 2.0 BACK PULLEY ASSEMBLY
40903	SHUH-A04	UNI-HOIST 2.0 PORTABLE FRAME
40904	SHUH-A05	UNI-HOIST 2.0 T SECTION EXTENSION NO.1
40906	SHUH-A07	UNI-HOIST 2.0 EXTENSION LEG
40907	SHUH-A08	UNI-HOIST 2.0 COUNTER WEIGHT TROLLEY (NO WEIGHTS)
40908	SHUH-A09	UNI-HOIST 2.0 T SECTION EXTENSION NO.2
40909	SHUH-A010	UNI-HOIST 2.0 BALL HITCH ASSEMBLY
40910	SHUH-A011	UNI-HOIST 2.0 RING HITCH ASSEMBLY
40911	SHUH-A12	UNI-HOIST CENTRE POST ASSEMBLY
40912	SHUH-A013	UNI-HOIST 2.0 MAST BASE
40913	SHUH-A014	UNI-HOIST 2.0 COMPLETE ADJUSTABLE LEG
40914	SHUH-A100	UNI-HOIST 2.0 BARREL MOUNT ASSEMBLY
40915	SHUH-A101	UNI-HOIST 2.0 ADJUSTABLE WALL ASSEMBLY
40916	SHUH-KIT1	COMPLETE FREE STANDING 5 PIECE DAVIT SYSTEM
40917	SHUH-KIT2A	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM 320KG COMPLETE
40918	SHUH-KIT2B	COUNTER WEIGHT PORTABLE DAVIT SYSTEM 240KG
40919	SHUH-KIT3	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT 0-152MM
40920	SHUH-KIT4	BOOM ARM TUBE
40921	SHUH-KIT5	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT. 0-52MM 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40922	SHUH-KIT6	COMPLETE PORTABLE DAVIT SYSTEM WITH WALL MOUNT. 50-630MM), 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40923	SHUH-KIT7	UNI-HOIST POLE HOIST
40924	SHUH-KIT7A	UNI-HOIST POLE HOIST - 1 X 20M SENTINEL HAND WINCH
40925	SHUH-KIT7B	UNI-HOIST POLE HOIST - 1 X 20M SENTINEL SRLR
40926	SHUH-KIT7C	UNI-HOIST POLE HOIST - EXTENDABLE FROM 1.6M-2.4M REACH & 1M-2.8M HEIGHT. INC 1 X 20M SENTINEL SRLR AND 1 X 20M SENTINEL HAND WINCH C/W BRACKETS
40929	SHUH-KIT8A	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 1 BALL
40930	SHUH-KIT8B	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 2 BALL
40931	SHUH-KIT8C	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 1 RING
40932	SHUH-KIT8D	COMPLETE COUNTER WEIGHT PORTABLE DAVIT SYSTEM. EXT 2 RING
40933	SHUH-KIT6A	COMPLETE PORTABLE DAVIT SYSTEM WITH BARREL MOUNT. 50-630MM 1 X 20M SENTINEL RECOVERY FALL ARREST BLOCK C/W BRACKETS

We hereby declare that the above referenced product, to which this declaration relates, is in conformity with the provisions of: Module B of

PPE Regulation 2016/425 - Standard EN 795:2012 Type B
of EU certification of conformity 0598/PPE/24/XXXX
Issued by: SGS FIMKO OY, Takomotie 8, FI-00380 Helsinki, Finland

Notified Body No. 0598

SAFEHOLD LTD

Name: Oliver Auston **Position:** CEO **Date:** 10/09/2025





Safehold

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