SELECT / SUPPLY / SUPPORT

DAESAN ELECTRIC HOISTS

ONE RANGE GUIDE | EQUIPMENT, FIRST-PARTY PARTS & LIFECYCLE SUPPORT

For operators, maintenance teams, mechanics, engineers, procurement and distributors.







125 kg-20 t	380 V / 525 V	3 m
Across documented families; select the exact model.	Cooper standard supply references; confirm nameplate and frequency.	Cooper standard supplied lift; other requirements by quotation.

Lead with the task. Compare dual-brake, compact friction-clutch, smart, single-phase, food-grade, low-headroom and twin-hook arrangements. Choose the right controls, suspension and travel for the work.

Plan support from the start. Engineering Supplies coordinates equipment and matched first-party parts. RepairWorx, Crane Services and MES coordinate the relevant workshop, site and specialist support.

> **Specify once. Quote the complete configuration.**
> Send load, lift, voltage, frequency, duty, headroom, beam/connection, controls and environment. Single-phase supply, options, parts, fitments and delivery are confirmed at quotation.

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No personnel lifting. No blanket SABS, CE, ATEX, IECEx or whole-range conformity claim. Authentic manufacturer product images show example configurations. Read the matching supplied instructions.

Keep the equipment supported

Confirm	Selection / support guidance
Choose a family	State load, positioning needs, power, duty, lift and available space. The dual-brake range is the main catalogue reference; other documented families can be discussed to order.
Specify travel	Suspended, rail/beam connection or motorised trolley. Include beam, route, end stops, electrical feed and operator access.
Order first-party parts	Send model, serial, nameplate, drawing revision/callout, part description, quantity and photographs. Availability and correct fitment route are checked.
Arrange service	Cooper coordinates mechanical/electrical assessment, repairs, VFD/control needs, commissioning and site support after assessment. Scope and personnel are confirmed for the job.
Compare repair and replacement	Consider identity, damage, parts/data availability, restrictions and total scope. Older DAESAN units and units supplied elsewhere can be assessed.

One route through the Cooper divisions

Engineering Supplies - equipment, trade supply, first-party parts and technical-document enquiries.
RepairWorx - workshop assessment, approved fitment and repair coordination.
Crane Services - site needs, installation/inspection and breakdown coordination.
MES - marine/offshore application and project-support enquiries.

> **A supplied part is not a release to use**
> Compatibility, fitting competence and the required examination/test records remain part of the job. Stop for drift, damaged chain, irregular travel, abnormal noise or uncertain electrical condition.

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All supply and services subject to quotation. No response time, stock quantity, lead time, price or warranty promise is stated. Installation examples in the full guide are manufacturer imagery, not claims of Cooper-completed projects.

READ THIS FIRST

Find the right question first

This guide brings the documented DAESAN electric-chain-hoist families together for selection, maintenance planning and enquiries. It supports the conversation between the user, maintenance team and supplier; it does not approve a load path or replace matching instructions.

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Three records to keep together
The actual equipment identity and configuration; the matching manufacturer instructions/drawings; and the inspection, repair and release history. Missing data must be resolved before guessing a part, setting or capacity.

WLL is a rated equipment limit; the permitted load for the actual installation may be lower. The system, supports and accessories must be assessed together. No illustration is an installation drawing.

RANGE MAP

Eleven product groups. One enquiry.

Group	Manufacturer-listed capacities	Main distinction
DSA / EDSA	1, 1.5, 2, 2.5, 3, 5, 7.5, 10, 15, 20 t	Dual brake / suspended
DSM / EDSM	1, 1.5, 2, 2.5, 3, 5, 7.5, 10, 15, 20 t	Dual brake / motorised trolley
DL / EDL	0.125, 0.25, 0.5 t	Smart hoist / suspension choices
DLM / EDLM	0.125, 0.25, 0.5 t	Smart hoist / trolley configuration
DST / EDST	0.5, 1, 2 t	Compact friction clutch / suspended
DSTM / EDSTM	0.5, 1, 2 t	Compact friction clutch / trolley
DSS / EDSS	0.5, 1, 2 t	Single phase / suspended
DSSM / EDSSM	0.5, 1, 2 t	Single phase / trolley
(E)DSTF(M) / (E)DSSF(M)	0.5, 1, 2 t	Food-grade configurations
DSTHM / DSHM / EDSTHM / EDSHM	1, 1.5, 2, 2.5, 3, 5 t	Low-headroom configurations
DSDHA / DSDHM	1, 1.5, 2, 2.5, 3, 5 t	Twin-hook configurations

0.125 t = 125 kg; 0.25 t = 250 kg. Capacity listings are family references, not a promise that every capacity accepts every voltage, suspension, speed or option. See P01-P11 on page37.

Catalogue-listed is not live stock
Cooper catalogue entries are a supply reference. Other documented manufacturer configurations can be discussed to order. Confirm the complete model code and actual availability with the quotation.

APPLIED COMPARISON

What matters most in your work?

Confirm	Selection / support guidance
Workshop / plant maintenance	Begin with load, duty and power. Compare dual-brake DSA/DSM variants with the compact family against the actual task; do not select on brake count alone.
Light workstation handling	Compare DL/EDL with DLM/EDLM where their listed capacities suit. Operator reach, movement and control response are central.
Single-phase site	Discuss DSS/DSSM variants. Confirm actual voltage, frequency and circuit suitability; available power does not establish hoist suitability.
Restricted building height	Request the low-headroom drawing and a full geometry check. Extra chain does not reduce beam-to-hook headroom.
Hygiene-sensitive work	Discuss the food-grade configuration, cleaning regime, exact materials, lubrication and verified enclosure details.
Long / wide load	Assess twin-hook geometry, load sharing and lifting points. A common drive does not resolve an unsuitable load arrangement.

Ask for a complete offer
Compare the ordered configuration, operating envelope, documents, first-party support and installation/service scope. A headline capacity or a lower purchase price does not describe the whole lifting system.

DUAL BRAKE / SUSPENDED

DSA / EDSA

P01 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
1, 1.5, 2, 2.5, 3, 5, 7.5, 10, 15, 20 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

A suspended dual-brake hoist for a suitable lifting point. EDSA identifies the inverter variant in the manufacturer information.

Compare before selecting

Compare the installed hook approach, body dimensions, speed package and available power. A fixed lifting point does not provide horizontal travel.

First-party parts and service
Include both brake mechanisms, chain guidance, hooks, chain and upper/lower limiting functions in the maintenance plan. Match replacement parts to the actual model and revision.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

DUAL BRAKE / MOTORISED TROLLEY

DSM / EDSM

P02 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
1, 1.5, 2, 2.5, 3, 5, 7.5, 10, 15, 20 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Combines the dual-brake hoist family with motorised travel. EDSM is the inverter variant; lifting and travel specifications must both be ordered.

Compare before selecting

Assess the beam, trolley fit, route, end stops, supply collection, controls and stopping behaviour as one installation. Trolley capacity alone does not establish runway capacity.

> **First-party parts and service**
> Add wheels, bearings, geared drive, travel motor/brake, guides, retention, bumpers and supply equipment to the service scope.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

Use the catalogue as a starting point

Catalogue code	WLL t	Falls	Chain dia. mm	Motor kW
1S	1	1	7.1	1.8
2W	2	2	7.1	1.8
2S	2	1	11.2	3.5
3S	3	1	11.2	3.5
5W	5	2	11.2	3.5
7.5W	7.5	3	11.2	3.5
10W	10	4	11.2	3.5
15W	15	6	11.2	3.5 x 2
20W	20	8	11.2	3.5 x 2

These are retained Cooper 2026 catalogue references, printed page12. The manufacturer family pages also list intermediate capacities. Confirm the full DSA/EDSA or DSM/EDSM designation and the configured technical sheet before ordering. [C1, P01-P02]

> **Do not mix reference columns**
> Published speed pairs may depend on frequency, while dimensions and mass change with the version, trolley, chain length and options. This guide does not relabel catalogue masses as 3 m assembled weights or convert 60 Hz speeds into 50 Hz ratings.

The enquiry matrix records family capacities separately from these catalogue codes. Similar capacity or chain diameter is not evidence of parts interchangeability.

DL / EDL

P03 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.125, 0.25, 0.5 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Compact smart-hoist family with hook, light-rail and beam-suspension options listed by the manufacturer. EDL denotes the inverter type.

Compare before selecting

Useful to discuss for workstation lifting and positioning. Compare required load, operator access and control response; compact size does not waive structural or task assessment.

> **First-party parts and service**
> Request the exact controller, VFD, pendant, chain, hook and suspension references. Do not use the larger dual-brake manual as a universal smart-hoist service instruction.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

DLM / EDLM

P04 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.125, 0.25, 0.5 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Smart-hoist trolley configuration. The manufacturer lists fixed, dual and variable speed choices subject to the actual version.

Compare before selecting

Compare workstation movement with the suspended DL/EDL arrangement. Confirm the supplied trolley, rail or beam arrangement and the clearance through the full route.

> **First-party parts and service**
> Record hoist and trolley identity, controller revision and operating reach. Treat the travel drive and its interfaces as additional maintainable assemblies.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

COMPACT FRICTION CLUTCH / SUSPENDED

DST / EDST

P05 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.5, 1, 2 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Compact friction-clutch hoist family. EDST identifies the inverter variant; the exact protective devices and operating limits must match the supplied unit.

Compare before selecting

Compare body size, speed and power requirements with the dual-brake family. A clutch, brake and limit switch perform different functions; none permits intentional overloading.

> **First-party parts and service**
> Plan checks of brake response, chain, guidance, hooks and limiting devices. Clutch or limiter settings are specialist work using matching manufacturer data.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

COMPACT FRICTION CLUTCH / TROLLEY

DSTM / EDSTM

P06 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.5, 1, 2 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Motorised-trolley counterpart of the compact friction-clutch family. EDSTM denotes the inverter configuration in the manufacturer listing.

Compare before selecting

Compare compact lifting with the need for powered travel. Confirm headroom, beam fit, travel speed, control layout and electrical supply.

> **First-party parts and service**
> Identify the complete hoist/trolley assembly when ordering a motor, gear, wheel, brake or controller component. A common family name is not an interchangeability guarantee.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

SINGLE PHASE / SUSPENDED

DSS / EDSS

P07 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.5, 1, 2 t	3 m standard lift. Single-phase supply by enquiry; exact voltage, frequency and electrical configuration confirmed at quotation.

Manufacturer-listed single-phase compact family. Cooper supplies single-phase configurations subject to confirmation at quotation.

Compare before selecting

Provide the actual available voltage, frequency, circuit and installation details. Single-phase availability is not a promise that any socket, cable or protective device will suit the hoist.

> **First-party parts and service**
> Match the motor, starting components, controls and wiring revision to the nameplate. Do not substitute a three-phase diagram or infer a 50 Hz rating from a 60 Hz drawing.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

SINGLE PHASE / TROLLEY

DSSM / EDSSM

P08 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.5, 1, 2 t	3 m standard lift. Single-phase supply by enquiry; exact voltage, frequency and electrical configuration confirmed at quotation.

Single-phase compact hoist with a trolley configuration. Confirm the electrical requirements of both lifting and travel equipment.

Compare before selecting

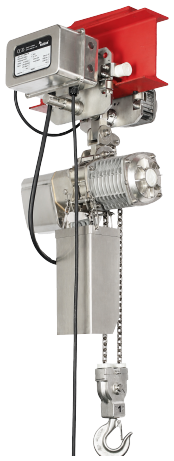
Compare available supply and controlled movement across the work bay. Specify both motions, speed requirements, pendant reach and beam geometry.

> **First-party parts and service**
> Keep hoist and trolley component data together. Electrical assessment includes the complete supply/control arrangement; Cooper coordinates the route after assessment.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

(E)DSTF(M) / (E)DSSF(M)

P09 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
0.5, 1, 2 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Manufacturer-listed hygiene-oriented range using selected stainless components and food-grade lubrication descriptions. Exact construction and supplied configuration need confirmation.

Compare before selecting

State cleaning chemicals, method, temperature, moisture exposure and hygiene requirements. The product page uses both IP64 and IP65; this guide assigns neither as a verified whole-unit rating.

> **First-party parts and service**
> Confirm approved lubricants, materials and replacement parts for the specific unit. No blanket washdown, food-contact, cleanroom or hazardous-area certification is claimed.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

DSTHM / DSHM / EDSTHM / EDSHM

P10 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
1, 1.5, 2, 2.5, 3, 5 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

Manufacturer-listed low-headroom arrangements for installations where hook approach and available building clearance are critical.

Compare before selecting

Compare actual beam-to-hook and hook-to-load geometry using the configured drawing. Low headroom is not the same as additional chain lift or automatic suitability for every beam/curve.

> **First-party parts and service**
> Request the correct suspension, reeving, trolley, drive and limiting-device data. Do not assume all four model names share a brake or parts arrangement.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

DSDHA / DSDHM

P11 | Manufacturer-listed family. Every supplied configuration is confirmed by quotation.



Capacity reference	Cooper supply reference
1, 1.5, 2, 2.5, 3, 5 t	3 m standard lift. 380 V / 525 V standard supply references where supported; exact electrical configuration confirmed.

A single-drive twin-hook arrangement intended for assessed two-point handling of suitable long or wide loads.

Compare before selecting

Specify hook spacing, centre of gravity, load sharing, geometry and the required levelness. Two hooks do not double the stated system rating or remove the need to assess each attachment.

> **First-party parts and service**
> Assess both hook/chain paths and the common drive together. Request the exact installation and load-distribution instructions; do not treat this as two independent ordinary hoists.

Open the manufacturer product page | Photographs show an example; suspension, controls and options may differ.

Single, dual or variable speed?

Confirm	Selection / support guidance
Single speed	A defined travel or lifting speed can suit a straightforward task. Review stopping, load placement and the operating method.
Dual speed	A second selected speed can support approach/positioning. Confirm the actual motor/control method and which motions have two speeds.
Variable / stepless control	Discuss the desired speed range, control response and ramp behaviour. Smart-hoist stepless descriptions are not automatically the same control package as every E-prefixed family.
Pendant / remote	Pendant length, button layout, emergency stop and radio-remote needs are specified with the operating position. Radio control is optional and subject to compatibility.
Integration	Provide existing crane/control drawings, travel interlocks, supply collection and the responsible integrator. Cooper coordinates the technical route after assessment.

A control change is an engineering change
Do not fit a generic VFD, bypass interlocks or substitute a pendant by appearance. Controller, motor, brake, limits, wiring and software/parameter revisions must work together. Use the authorised technical route.

Source families: P01-P11 and user-supplied catalogue spreads D1-D3. Options must be matched to the ordered version.

Specify voltage and frequency together



Confirm	Selection / support guidance
Cooper standard references	380 V and 525 V for supported configurations; this does not assert universal availability across all families.
Single-phase supply	Supplied by enquiry; confirm the actual voltage, frequency, circuit and installation. Do not infer a local rating from a foreign-market manual.
Complete electrical requirement	State phase, frequency, control voltage, supply route, protection, isolator location, cable distance and environmental conditions for technical assessment.
Installation / changes	Cooper coordinates electrical work after assessment with the appropriate personnel. Required installation records and scope are agreed for the job.

Manufacturer installation example; not a Cooper project claim. A photograph cannot establish electrical compliance or the suitability of an existing installation.

Describe the work, not only the tonnes

Confirm	Selection / support guidance
Duty and load spectrum	Record lifts per hour, starts, travel, loaded/unloaded running, typical and maximum loads, shifts and positioning time.
Motor rating	The supplied catalogue spreads describe 30-minute hoist-motor duty and 15-minute trolley-motor duty for specified families. This is not a whole-range continuous-duty classification.
Heat and exposure	Provide ambient conditions, ventilation, sunlight, chemicals, dust and moisture. IP, insulation class and duty describe different aspects of a configuration.
Compact operating environment	M3 specifies indoor use; its environment section also discusses protected outdoor placement with no rain or condensation. Resolve the actual permitted exposure with the manufacturer before outdoor use. A cover or IP rating alone is insufficient.
Special areas	Mine, marine, offshore, food and hazardous-area requirements need application-specific assessment and evidence. Standard equipment must not be assumed approved.

Confirm the configured duty

M3 printed p.7 gives hoist FEM 2m with 40% ED for listed three-phase versions and 30% ED for listed single-phase versions; trolley references differ. Match the nameplate and load spectrum. These are scoped manufacturer descriptions, not a whole-range conformity claim. Repeated thermal trips require assessment.

Lift, headroom and reach are different

Confirm	Selection / support guidance
Lift	Cooper standard supplied lift is 3 m. M3 specification tables use a 4 m reference with a separate pendant length. Confirm the ordered lift, chain, container and control reach; do not copy reference dimensions or masses into a 3 m offer.
Headroom / hook approach	The installed beam-to-hook and connection geometry at the high-hook position. Low-headroom designs change the arrangement; they do not alter structural capacity.
Trolley travel	Route, beam width/thickness/profile, curves, joints, end stops, rail clearances and the complete suspended mass/load effects.
Control reach	Pendant or remote operating position and access throughout the lift. Control-cable reach is separate from load-chain lift.
Twin-hook work	Hook spacing, each attachment, load distribution, centre of gravity and permissible geometry must be assessed against matching instructions.

Assess the complete load path
Beam, supports, trolley, hoist, connection, accessories and load must suit the intended work together. Ask for a configured drawing; do not fabricate an installation from a product photograph.

Turn the feature into a useful question



Manufacturing / workstation

A compact smart arrangement may make controls and movement easier to access. Ask about cycle frequency, load placement, suspension and the operator position before selecting the unit.

Maintenance / heavy industry

A dual-brake family is a starting point for a defined lifting need. Specify duty, environment, power, supporting structure and the inspection/service route.

Food / marine / construction

Each brings different exposure or installation conditions. Hygiene-related parts are not offshore certification; a site supply is not electrical acceptance; a relocated system needs appropriate review.

Manufacturer installation example. These are selection scenarios, not endorsements of a particular site or automatic suitability decisions.

Know what each device does

Confirm	Selection / support guidance
Motor / load brakes	Holding and controlled movement depend on the actual design and condition. Dual-brake descriptions are not a guarantee that any fault can be ignored.
Friction clutch / limiter	Overload-related protection is not a weighing system or permission to exceed the limit. Test and adjustment require the correct manufacturer route.
Upper / lower limits	Respect configured travel and the operating instructions. Do not use a protective stop as the normal positioning method or bypass a failed limit.
Thermal protection	Respond to abnormal heating or trips. Confirm cause, duty and electrical condition before release.
Emergency stop	Know its location and the site response procedure. It is not a substitute for safe electrical isolation for maintenance.

Stop for a changed response
Load drift, irregular lowering, delayed stopping, chain jamming, abnormal sound or unexpected motion requires a safe stop, isolation/reporting and competent assessment. Never diagnose by continuing repeated loaded operations.

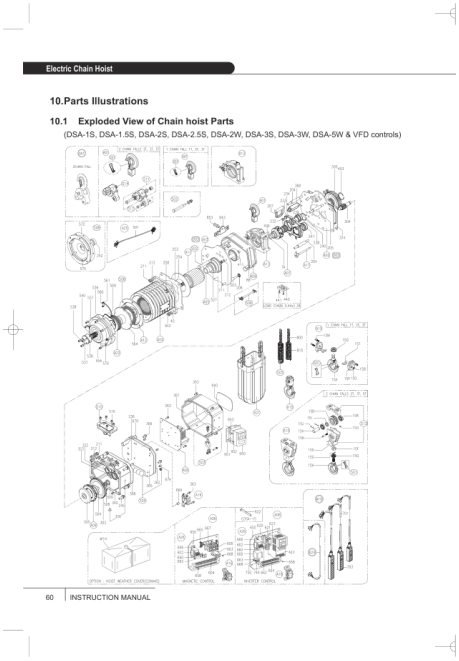
Support the assembly, not only the worn item

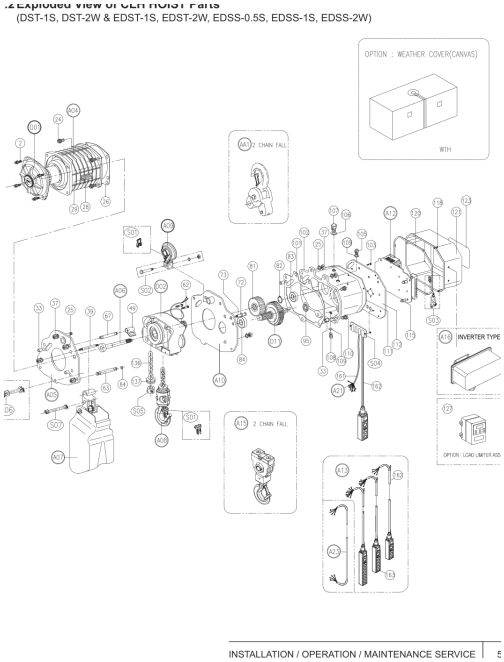
Confirm	Selection / support guidance
Load path	Matched chain, hook blocks, sheaves/sprockets, guides, anchorage and retention. Check connected parts when one component is worn or damaged.
Brakes / protective devices	Correct brake assembly, friction components, limiter/clutch, limit switches and related control components for the exact configuration.
Drive / body	Motor, gearbox, gears, shafts, bearings, seals, covers and fasteners. Structural damage needs assessment.
Controls / electrical	Correct pendant, contactors, transformer, VFD/control modules, cables, protection and wiring revision. A physical fit is not electrical compatibility.
Travel / suspension	Trolley wheels, guides, bearings, motor/brake, suspension and beam-specific components.
Exposure-specific parts	Food-grade materials/lubricants and special-environment components must preserve the approved assembly requirements.

Promote first-party support
Engineering Supplies prioritises genuine matched DAESAN parts and servicing enquiries. Approved alternatives can be assessed where appropriate; they are not presented as universally equivalent. Availability, authorisation, compatibility and fitting route are confirmed before supply.

Match the drawing before the part

Dual-brake and compact assemblies use separate references. These illustrations identify assemblies; they are not dismantling instructions. [M1, M3]





Dual-brake example / M1	Compact example / M3
Use the exact capacity and revision in the dual-brake manual.	M3 printed p.53: listed DST/EDST and EDSS versions only.

Send a complete parts enquiry

Provide full model and serial, capacity, voltage/phase/frequency, drawing page and revision, callout, description, quantity and photographs. Also identify hoist or trolley and any modifications. Engineering Supplies checks the matched part and supply route.

> **M3 parts and service map**
> Printed pp.49-51: maintenance and service responsibilities; pp.52-58: exploded views; pp.60-69: parts schedules; p.75: optional hour/start counter guidance. PDF page numbers are four higher than printed numbers in these sections.

M3 separates manufacturer-authorised replacements such as upper chain guide, output shaft, gearing, seals, electric box and PCB from other qualified-mechanic replacements. Cooper coordinates the appropriate route; no blanket manufacturer-authorisation claim is made.

Use the drawing that matches the unit

Resource	Use and boundary
Nameplate / order data	Identify voltage, frequency, phase, full model and any control/option revisions.
Wiring diagram	Use the manufacturer drawing for the exact motion, voltage and control arrangement. Confirm whether later modifications are documented.
VFD / control data	Record controller type, revision and authorised settings. No universal parameter recipe is supplied here.
Parts list / schematic	Identify the connected components and assembly. Different supply/control versions may use different parts.
Service records	Link findings, authorised changes, replaced components, required testing and release decisions to the asset.

M3 printed pp.77-85 contain connection drawings for specified models. Some drawings explicitly identify 115 V / 208-230 V, 60 Hz. The manual is not a verified 525 V wiring package; request the configured manufacturer drawing. Inverter capacitors retain energy after isolation: the qualified person must follow the matching drive procedure and verify a safe state.
The manufacturer publishes wiring resources and parts resources. These are reference collections; the presence of a drawing online is not proof that it matches an installed hoist.

> **Qualified work after assessment**
> Cooper coordinates electrical fault assessment, motor/panel work, VFD needs and commissioning after assessment. This guide provides no live-work, rewiring, protection-bypass or brake/limiter-setting instructions.

One equipment file. The right service route.

Confirm	Selection / support guidance
Engineering Supplies	Trade supply, selection enquiries, first-party parts, replacement assemblies and manufacturer-document requests.
RepairWorx	Workshop assessment, repair-versus-replacement advice and approved fitment/repair coordination.
Crane Services	Site access, installation and inspection/testing requirements, breakdown assessment and the appropriate specialist route.
MES	Marine/offshore enquiry coordination and application/evidence requirements with the relevant specialists.

Identify > Assess > Quote > Approve > Work > Verify

Begin with the equipment identity and the reported need. Agree scope, personnel, documentation, logistics and customer authority before work. After the work, retain the findings and applicable verification/release records.

Urgent support
Call 011 493 4355 for office routing. For emergencies outside office hours, use the established emergency contact provided to your organisation. A request does not guarantee attendance or a particular response time.

Repair, replace or retire with evidence

Confirm	Selection / support guidance
Older or externally supplied DAESAN	Assessment is supported, subject to identification, condition, matching data and parts availability. The current guide does not re-rate or retrospectively certify older equipment.
Identity / technical data missing	Pause the selection or repair decision. Do not use another unit's nameplate, diagram or wear limits.
Repair route	Confirm genuine parts availability and any properly authorised alternative, associated damage and the required verification.
Replacement route	Compare a complete suitable assembly, installation changes, documents, expected duty and future support needs.
Retirement	Quarantine unsafe equipment and follow the authorised disposal/record process so it is not inadvertently returned to use.

A clear quotation helps procurement
Ask for both routes where useful. Compare the agreed scope and remaining limitations, rather than only a part price or an assumed turnaround. All equipment and services remain subject to quotation.

Check before the first movement

Confirm	Selection / support guidance
Identity / status	Correct equipment and configuration; legible labels; no isolation tag or unresolved defect; required inspection status current.
Load path / work area	Suitable support and connections; planned movement/landing; people clear; adequate headroom, travel and access.
Chain / hook / container	Accessible condition, routing, lubrication and retention under the matching procedure. No twists, obvious damage or doubtful hook/latch condition.
Supply / controls	Visible cables, pendant and control condition; no exposed damage, doubtful connection or unauthorised changes.
Manufacturer functional checks	Perform the matching pre-use checks within training/site instructions. Report unusual motion, drift, noise, limiting or travel behaviour.

Any defect or uncertainty
Stop. Make the load and area safe under the site procedure, identify/isolate the equipment and report the issue. A signed form does not override an unsafe condition.

Read the matching family manual. M3 is the customer-confirmed compact reference; M1/M2 remain public reference manuals. None is a universal whole-range instruction. M3 printed pp.19-21 cover safety and labels; section 5 covers operating precautions and section 6 covers inspection and maintenance.

Keep the lift controlled

Use the intended load path

Lift within the rated and assessed limits. Avoid side pull, shock loading, snagging, load turning or unsupported special uses without the required specific approval and procedure.

Keep people clear

No personnel lifting, riding or passing below suspended loads. Maintain control of the work area and the planned load movement.

Operate the correct controls

Know direction and stopping response under the matching instructions. Avoid forced movement, uncontrolled repeated inching or using protective limits as normal stops.

Protect the chain and hooks

Do not use load chain as a sling, twist the reeving, weld/heat damaged components or use chain as a welding return.

Respond to faults

Stop for changed braking, high effort, unexpected motion, trips or damage. Do not bypass protection or continue operating to diagnose a loaded fault.

> **Finish with a safe landing**
> Plan how to lower and secure the load. Do not leave a suspended load unattended or treat a brake/protective device as a substitute for the task procedure.

Protect the next operation

Confirm	Selection / support guidance
Maintenance preparation	Secure or remove the load, control the area and follow authorised isolation, stored-energy and absence-of-voltage checks. Inverter capacitors can remain energised. A waiting time or emergency-stop button alone does not establish safe isolation.
Cleaning / lubrication	Use manufacturer-approved products and methods for the exact chain, gears and environment. Keep brake friction surfaces protected from contamination.
Food-grade configuration	Confirm lubricant approval, material compatibility, cleaning method and permitted exposure. Do not extend one component claim to the whole assembly.
Storage / transport	Keep clean, dry and protected; preserve labels and matched parts; restrain equipment against impact. Quarantine defective units separately.
Return after storage / event	Check condition, identification, instructions, maintenance and inspection status before applying a load. Arrange additional assessment after damage, overload, relocation or abnormal exposure.

Record changes
Keep component replacements, electrical/control changes, altered chain length, suspension and travel configuration with the equipment file and required release documentation.

Build a programme around the installation

Confirm	Selection / support guidance
Daily / before use	The published dual-brake and compact manuals include daily operator checks. Apply the matching revision and the site procedure.
Manufacturer maintenance	M3 printed p.49 lists daily, monthly, three-monthly and annual tasks; p.75 uses hour/start records for listed maintenance decisions. Apply the matching task, wear limits, competence and actual duty. These do not replace statutory examinations.
OHSA / DMR where applicable	DMR 18(5) addresses thorough examination/performance testing, generally at intervals no longer than12 months;18(6) addresses integral-component examinations no longer than6 months. Scope and personnel must be correct for the actual installation.
After work or an event	Determine the required checks after repair, modification, dismantling/re-erection, overload or damage. Operator checks do not replace specialist examination/testing.
Register	Keep identity, examinations/tests, findings, repairs and release decisions. Leased equipment and separate lifting tackle also have their own record/duty requirements.

Plan service before the limit is reached

Keep load spectrum, run hours and starts where available; confirm remaining service life and manufacturer review requirements. M3 printed p.51 calls for authorised/manufacturer assessment at the applicable FEM class duration. Cooper coordinates the competent/registered personnel and documentation for the actual job. [M1-M3, L1]

Use the reference that fits the work

Confirm	Selection / support guidance
BS EN 14492-2:2019	BSI lists this power-driven-hoist standard as current and under review. It addresses powered hoists with/without trolleys. A reference here does not assert DAESAN product conformity. [T1]
2026 draft	BSI 26/30564194 DC, dated20 August 2026, is draft material for the revision. It is not presented as an adopted replacement. [T2]
IEC 60204-32:2023	Edition3 concerns electrical equipment of hoisting machines, including supply/control interfaces. Confirm the relevant contract and any applicable SANS adoption independently; an IEC edition is not automatically a same-year SANS edition. [T3]
SANS 500:2023	Its scope is manually operated chain blocks and lever hoists currently in use. It is not the inspection standard for this electric-hoist range. [T4]
Trolley / installation references	Confirm standards for the actual beam/trolley, structure, electrical installation and application. Manual-trolley references do not by themselves approve motorised travel.

Licensed standards are required for detailed technical assessment. No copied standard, test-load recipe or electrical design procedure is supplied in this guide.

Read the scope behind the document

A dependable selection links a specific model and configuration to its technical information, supply documents and installation requirements. A product feature, a laboratory result, a certification permit and an in-service test record answer different questions.

Confirm	Selection / support guidance
Product evidence	Ask what document applies to the exact model, voltage/frequency, control version, capacity, options and date of manufacture.
Site suitability	Confirm the complete load path, environment, required protections, responsible personnel and acceptance process.
Serviceability	Retain serial-linked findings, repairs, tests and the release decision for the actual unit.
Special applications	Food-related component claims, IP ratings, marine use and hazardous-area approvals need their own exact evidence and limits.

No blanket approval claims
This guide makes no whole-range SABS, CE, ATEX, IECEx or other conformity claim. DAESAN manual-hoist permits must not be transferred to electric hoists. A manufacturer certificate link is not a substitute for reading and validating its current model/configuration scope.

For mines apply the relevant MHSA framework and site procedures, including appropriate design, maintenance, written operating procedures and operator authorisation. Do not automatically transplant a general-industry interval into a mine. [L2]

Compare the configuration, not the badge

Range	Documented catalogue starting point	What to compare next
DAESAN	Dual-brake catalogue entries1-20 t, plus the verified manufacturer families in this guide.	Task, duty, controls, complete installation and first-party support.
DONSA-X	Cooper 2026 catalogue lists0.5-5 t electric hoists and motorised-trolley references.	Exact supplied model, electrical and braking/protection arrangement, speed, dimensions and parts support.
LIFTKET	Cooper 2026 catalogue includes single/dual-speed and low-headroom entries.	Exact offered model and duty/control package, drawing, available power and support route.

Use a like-for-like enquiry: required load, duty, lift, power/frequency, headroom, travel, control method, environment, documents and service scope. The wider quoted range may differ from the retained catalogue. [C1, printed pp.12-17]

No unsupported rankings
This is a selection framework, not a price, performance or safety ranking. No claim of interchangeable chains, hooks, brakes, controllers or trolley parts is made between brands.

Find the matching resource first

Family	Starting resources / what to request
DSA / EDSA	P01 product page; D2 catalogue; check M1/M2 applicability and the configured drawing/manual.
DSM / EDSM	P02 product page; D2 catalogue; check M1/M2 applicability and the configured drawing/manual.
DL / EDL	P03 product page; D1 smart catalogue; request exact smart controller/manual revision.
DLM / EDLM	P04 product page; D1 smart catalogue; request exact smart controller/manual revision.
DST / EDST	P05 product page; D3 compact catalogue; M3 confirmed compact reference, subject to listed model and exact electrical match.
DSTM / EDSTM	P06 product page; D3 compact catalogue; M3 confirmed compact reference, subject to listed model and exact electrical match.
DSS / EDSS	P07 product page; D3 compact catalogue; M3 confirmed compact reference, subject to listed model and exact electrical match.
DSSM / EDSSM	P08 product page; D3 compact catalogue; M3 confirmed compact reference, subject to listed model and exact electrical match.
(E)DSTF(M) / (E)DSSF(M)	P09 product page; P09 food-grade page; request exact material, enclosure, cleaning and service documents.
DSTHM / DSHM / EDSTHM / EDSHM	P10 product page; D2 catalogue; check M1/M2 applicability and the configured drawing/manual.
DSDHA / DSDHM	P11 product page; D2 catalogue; check M1/M2 applicability and the configured drawing/manual.

The manufacturer resource collections include manuals, product drawings, parts and wiring. Request missing or revised documents through Engineering Supplies. Catalogue spreads D1-D3 are feature sheets, not operating manuals. The NDM lever-hoist manual is excluded from this electric pack.

Sources behind the family guidance

Manufacturer pages and source records checked 31 October 2026. Links open original resources; actual supplied revisions control.

P01 DSA / EDSA - Dual brake / suspended | Capacities and configuration descriptions.

P02 DSM / EDSM - Dual brake / motorised trolley | Capacities and configuration descriptions.

P03 DL / EDL - Smart hoist / suspension choices | Capacities and configuration descriptions.

P04 DLM / EDLM - Smart hoist / trolley configuration | Capacities and configuration descriptions.

P05 DST / EDST - Compact friction clutch / suspended | Capacities and configuration descriptions.

P06 DSTM / EDSTM - Compact friction clutch / trolley | Capacities and configuration descriptions.

P07 DSS / EDSS - Single phase / suspended | Capacities and configuration descriptions.

P08 DSSM / EDSSM - Single phase / trolley | Capacities and configuration descriptions.

P09 (E)DSTF(M) / (E)DSSF(M) - Food-grade configurations | Capacities and configuration descriptions.

P10 DSTHM / DSHM / EDSTHM / EDSHM - Low-headroom configurations | Capacities and configuration descriptions.

P11 DSDHA / DSDHM - Twin-hook configurations | Capacities and configuration descriptions.

Catalogue and manual resources

M3 Compact Electric Chain Hoist Manual, EME-X-C, December 2022; 94 PDF pages. Customer-confirmed compact reference, included unchanged. Covers listed DST/EDST, DSS/EDSS, trolley and low-headroom versions; no whole-range or 525 V assumption.

D1 Smart family catalogue spread, printed pp.12-13

D2 Dual-brake / special family spread, printed pp.18-19

D3 Compact friction-clutch spread, printed pp.24-25

M1 Published dual-brake instruction manual

M2 Published compact-family instruction manual

C1: Cooper & Cooper 2026 web catalogue, printed pp.12-17, retained supply reference. D1-D3 were supplied by the user; duplicate copies were consolidated. M1/M2 are linked references. M3 is supplied unchanged under a descriptive filename; its original date, identity and instructions are retained. Match the actual unit and supplied revision. No warranty terms are restated in this Cooper guide.

Separate standards, law and approval

T1 BS EN 14492-2:2019 - Cranes. Power driven winches and hoists. Power driven hoists. BSI catalogue: current, under review.

T2 BSI 26/30564194 DC, 20 August 2026 - draft revision material. Not treated as adopted replacement.

T3 IEC 60204-32:2023, edition 3 - Safety of machinery. Electrical equipment of machines. Requirements for hoisting machines.

T4 SANS 500:2023, edition 2 - manual chain blocks and lever hoists in use. GN 2183, GG 49720, 17 November 2023, issued-standards schedule. Not an electric-hoist inspection standard.

L1 Driven Machinery Regulations 2015, GN R540, GG 38905,24 June 2015: definitions; 18(1), identification/design; 18(5)-(7), examinations/tests/register; 19, LME. Read applicable amendments and the actual legal regime.

L2 Mine Health and Safety Regulations 8.5: GN R1225, GG 28333, 15 December 2005; read with GN R90, GG 30698, 1 February 2008 and applicable amendments/site requirements.

2026 legal update checked: GN 7052, GG 54036, 30 January 2026 corrects the operator-training code clauses 14.1-14.2; it is not treated as a wholesale replacement of DMR 18 inspection duties. Official correction

References are applied explanations, not legal certification or copied clauses. Confirm current licensed technical editions, contractual requirements and the appropriate personnel for the actual work.

REUSABLE WORKSHEET / SELECTION RFQ

Specify the electric-hoist enquiry

Complete within your technical process. A completed form does not approve the selection or installation.

Company / contact: _____
Email / telephone: _____
Site / delivery / required date: _____

Requirement	Customer information
Family / capacity / quantity	
Load and lifting points / centre of gravity	
Lift / high-hook and low-hook positions	
Voltage / phase / frequency / control voltage	
Duty / starts / load spectrum / shifts	
Beam / support / suspension / headroom	
Trolley route / speed / end stops / power feed	
Pendant / radio / control reach / integration	
Environment / cleaning / special requirements	
Required documents / inspection / site acceptance	

Attach drawings and photographs
Provide load/installation sketches, beam and connection details, power information and any existing equipment records. State uncertainties rather than guessing. Supply and options are confirmed by quotation.

REUSABLE WORKSHEET / OPERATOR

Pre-use & defect record

Use with matching instructions and site procedure. This is not a thorough-examination or test certificate.

Date / shift / site: _____
Model / serial / WLL: _____
Hoist / trolley / controls / task: _____
Operator: _____

Check under site instructions	OK / defect / N/A	Notes
Identity and required inspection status		
Support / connections / load / route		
Hooks / latches / retention		
Chain / reeving / container / lubrication		
Visible supply / pendant / cables		
Trolley / runway / end stops		
Matching functional and stopping checks		
People / access / landing arrangements		

Defect / event / isolation reference: _____
_____
Reported to / time: _____
Assessment / release record: _____

> **Any defect or uncertainty**
> Stop, make the work safe under the site procedure, isolate/identify and report. Do not continue loaded operations or bypass a protective device to finish the task.

REUSABLE WORKSHEET / SERVICE

First-party parts & service request

Engineering Supplies: 011 493 4355 | info@coopergroup.co.za. Scope, parts availability and fitment route subject to quotation.

Customer / site / contact: _____
Model / serial / WLL / year: _____
Voltage / phase / frequency: _____
Lift / trolley / controls / special options: _____
Last service / examination reference: _____

Request / evidence	Details
Part description / drawing revision / callout	
Quantity / required date / genuine or alternative query	
Symptoms / event / abnormal exposure	
Isolation / location / safe handling arrangements	
Nameplate / unit / affected-part photographs	
Previous modifications / replacement records	
Workshop / site / collection / delivery needs	
Repair-versus-replacement comparison requested	

Keep the identity with the part
Do not dismantle unsafe or loaded equipment to photograph it. An item number alone does not prove compatibility. Cooper confirms the genuine-parts or authorised-alternative route and the associated technical requirements.

REUSABLE WORKSHEET / HANDOVER

Return with a clear equipment record

A worksheet records evidence. It does not by itself authorise release or certify conformity.

Customer / asset / model / serial: _____
Work order / quotation / service reference: _____
Actual returned configuration: _____

Handover item	Record / finding / responsible person
Identity / WLL / electrical / suspension data	
Instructions / diagrams / revision match	
Parts replaced / authorised alternatives	
Electrical or control changes / settings record	
Inspection / test scope and signed reports	
Restrictions / outstanding defects / actions	
Site installation acceptance / release reference	
Register updated / next checks / due dates	

Responsible authority / role: _____
Signature / date / release reference: _____
Outstanding action / owner / due date: _____

Before applying a load
Resolve defects and restrictions, confirm the actual installation and documents agree, and complete the matching pre-use and required technical checks. A delivery note or new part is not a release decision.

NATIONAL SUPPORT

Speak to Engineering Supplies

Confirm	Selection / support guidance
Johannesburg	011 493 4355 | 73 Raebor Road, Benrose
Witbank	013 650 1591 | 9 Langa Crescent, Corridor Hill
Welkom	057 355 4172 | 4A, 15th Street, Voorspoed Oos, Industrial Village
Cape Town	021 464 4100 | 4 Swift Street, Salt River

info@coopergroup.co.za
engineeringsupplies.co.za | coopergroup.co.za

Bring the product and the application together
For equipment send load, duty, lift, power, geometry and environment. For parts or service send the full identity, drawing reference, symptoms and photographs. The team confirms the appropriate supply, RepairWorx, Crane Services or MES route.

Edition 11/26 | November 2026. Prepared from approved commercial decisions, manufacturer resources and applied research checked 31 October 2026. All models, parts, alternatives, fitments, services and delivery remain subject to quotation.

No blanket product certification claim. Matching supplied manufacturer instructions, current technical data, site requirements and authorised acceptance govern the actual installation. M3 is a scoped compact reference; conflicting or missing configured data must be resolved with the manufacturer. Technical enquiries are coordinated with Niel or the relevant specialist; publication approval rests with management.