

Rescue and work-boat davits

A-davit, G-davit, T-davit

Technical information



Rescue and work-boat davits

MacGregor's range of rescue and work-boat davits for efficient handling of small or large daughter craft, MOB and other rescue boats from ships and offshore platforms are reliable and accurate systems, designed for long-time operation in severe conditions of up to sea-state 6. SOLAS approved MacGregor davits are delivered as complete, self-contained units with incorporated emergency backup power systems for guaranteed operation even during dead-ship conditions. These robust systems are available in pivoting and telescoping designs for launch and recovery, and stowing of rescue crafts in tough and corrosive offshore environments.

Meeting all standards

All MacGregor davits are tested and certified in accordance with SOLAS, IMO and EU regulations. G- and T-type davits are also available with UKOOAIMSA certification for standby vessels and CE certification in accordance with the Marine Equipment Directive.

Installation made easy

The complete solution of MacGregor T-type davit significantly simplifies installation onto a vessel, minimizes the risk of system failure, reducing time and cost. It is only required to weld or bolt (optional) the unit to the substructure, interconnect units with the multi-hose/pipes, fill hydraulic oil and connect electric power supply to the motor located on the davit's jib.

Key benefits

- "Dead-ship" launching system
- Safe and gentle handling of the rescue craft
- Safe and easy installation, maintenance and repair
- Minor structural impact to the vessel
- Efficient space utilization



A-type: Offshore rescue boat davit



MacGregor A-type davit is a cost-effective alternative for handling of small and medium-sized fast rescue boats, MOBs, workboats, daughter craft and rescue rafts.

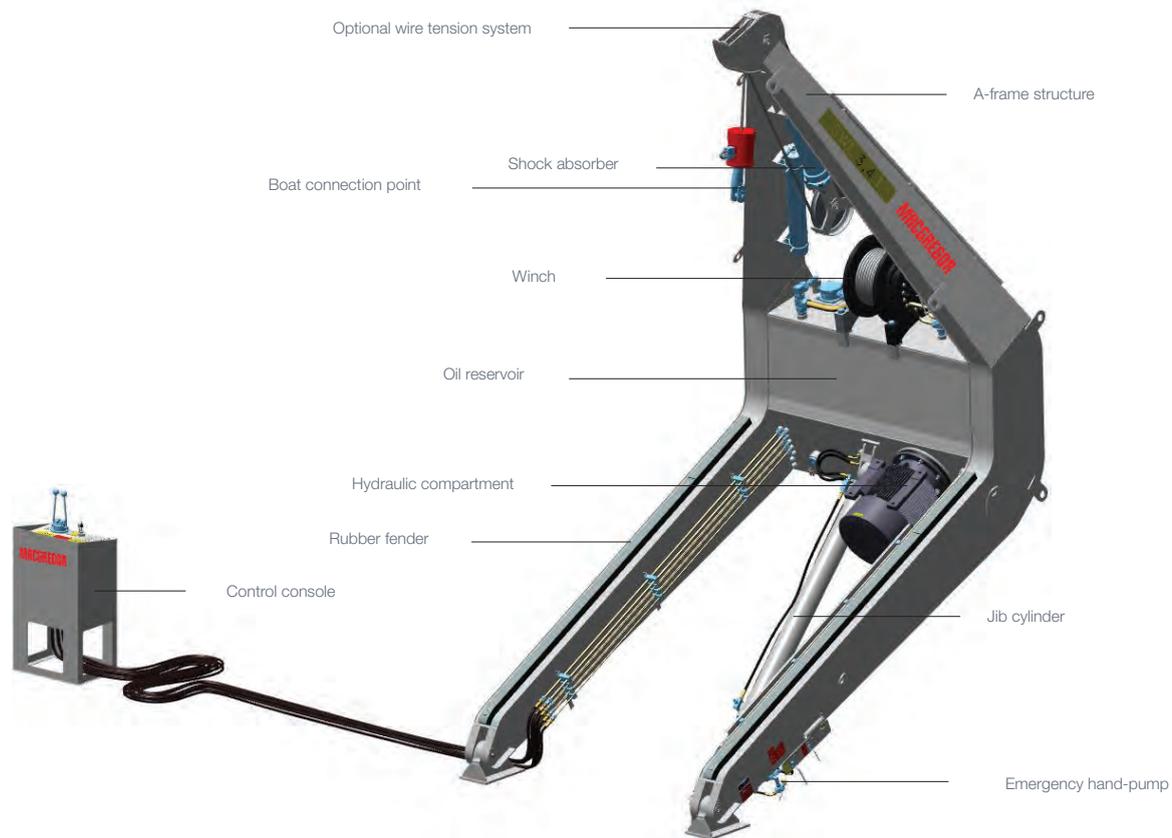
A-type davits are designed to operate with a safe working load between 2.5 to 8.2 tons. The davit is delivered as a self-contained, hydraulically-operated unit designed for long-time operation and efficient handling and stowing of a boat in a tough and corrosive marine/offshore environment on deck of any vessel.

Standard features for A-davits

- Dead-ship launching system operated from boat / Dead-ship launch of fully loaded boat
- Built-in electro-hydraulic power unit
- Built-in stored power system
- Built-in high speed winch unit
- Separate stainless steel operation console including multi-hose (optional)
- Stainless steel hydraulic cylinders
- Galvanized wire rope
- Deck installation brackets
- DENSO tape protected hose couplings
- Space heater in electric motor

Optional features for A-davits

- Constant tension system (CTS) - (wave-riding recovery mode)
- Hydro-pneumatic shock damper
- Remote control systems
- Diesel power back-up
- High-speed auto-tension winch function
- Power sheave
- Luffing, telescoping, slewing towing boom with or without jigger winch
- Electric motor starter cabinet
- Deck foundation/console for increased installation height
- Increased hook travel height
- Multi-hose up to 10m in length
- Hydraulically-operated boat guide system
- Shock qualified davits for Navy applications



Main technical specifications for A-davits

	HMD A25	HMD A34	HMD A38	HMD A45	HMD A55 TUG	HMD A82
Lifting capacity (SWL)	25 kN / 2500 kg	34 kN / 3400 kg	38 kN / 3800 kg	45 kN / 4500 kg	55 kN / 5500 kg	82 kN / 8200 kg
Number of wire falls	1	1	1	1	1	1
Hoisting speed	0-50 m/min					
List / trim, max	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim
Outreach	~2.50 m	~3.40 m	~3.40 m	~2.30 m	~2.16 m	~2.68 m
Wire diameter	NA	NA	NA	NA	NA	NA
Power consumption	~55 kW	~62 kW	~68 kW	~75 kW	~90 kW	~135 kW
Voltage	380V-690V / 50 or 60 Hz					
DOL start current	Upon request					
Star / Delta start current	Upon request					
Min installation	~3.0 m	~3.60 m	~3.60 m	~3.45 m	~3.75 m	~4.10 m
Min height (stored position)	~3.85 m	~5.45 m	~5.45 m	~4.67 m	~5.45 m	~5.46 m
Total weight	~2700 kg	~3900 kg	~3900 kg	~3900 kg	~3900 kg	~5500 kg

Main technical specifications for winch

	HMD A25	HMD A34	HMD A38	HMD A45	HMD A55 TUG	HMD A82
Winch type	HMW 32-001	HMW 50-007	HMW 50-007	HMW 50-007	HMW 50-007	HMW85- 001
Drum capacity	~38 m	~38 m	~38 m	~30 m	~38 m	~30 m
Operating pressure	~250 Bar					
Wire diameter	Ø 16 mm	Ø 19 mm	Ø 19 mm	Ø 19 mm	Ø 19 mm	Ø 26 mm
Wire end termination	Wedge socket	Open speller socket				
Hook connection	Supplied with boat					

G-type: Fast Rescue Craft Davit



MacGregor G-type davit is the most suitable alternative for handling heavier MOB, FRC, workboat, daughter craft and rescue rafts.

Designed to operate with a safe working load of up to 15 tons, G-type davits are based on a hydraulically operated frame with a tipping boat cradle, including a winch with constant tension capacity, towing boom, shock absorbers and pendulum damped docking head, integrated power packs for normal and emergency operation.

Standard features for G-Davits

- Dead-ship launching system operated from boat / Dead-ship launch of fully loaded boat (for G-25 and G-40 models)
- Built-in electro-hydraulic power unit

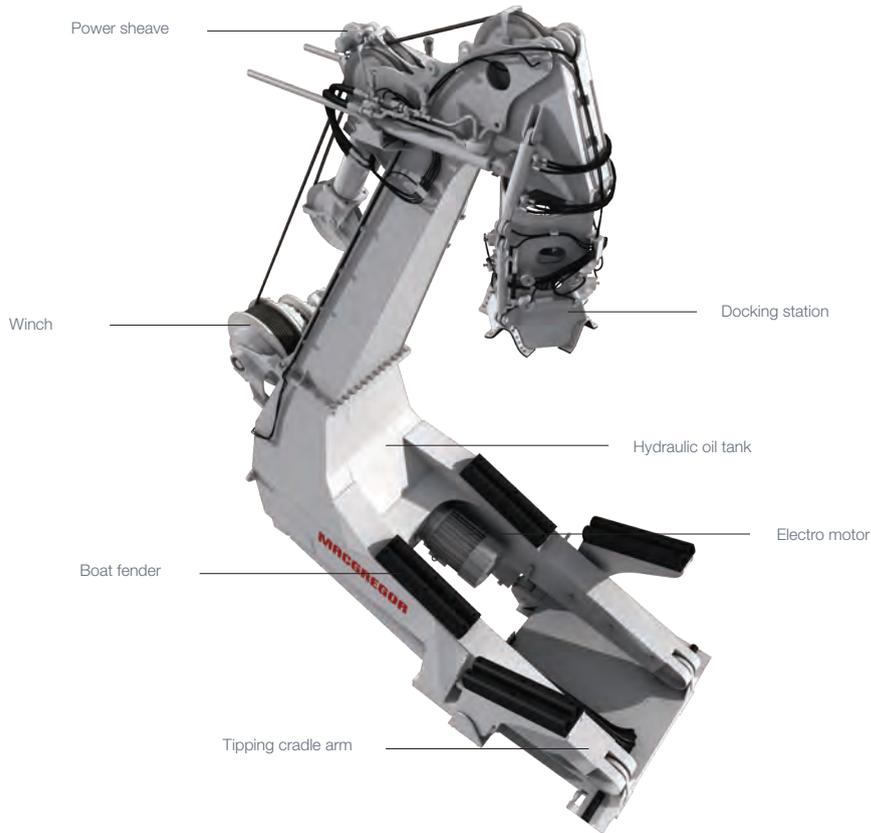
- Built-in stored power system
- Hydro-pneumatic shock damper
- Power sheave
- Built-in high-speed auto-tension winch unit
- CTS (constant tension system) - wave-riding recovery mode
- Pendulum-damped docking head
- Separate stainless steel operation console including multi-hose (optional)
- Stainless steel hydraulic cylinders
- Galvanized wire rope
- Deck installation foundation
- DENSO tape protected hose couplings
- Space heater in electric motor
- Luffing, towing or slewing towing boom with or without jigger winch

Optional features for G-Davits

- ARC-RCS (active heave compensated hook connection system)
- Remote control systems
- Diesel power back-up
- Electric motor starter cabinet
- Deck foundation/console for increased installation height
- Increased hook travel height
- Multi-hose up to 10m in length
- Shock qualified davits for Navy applications



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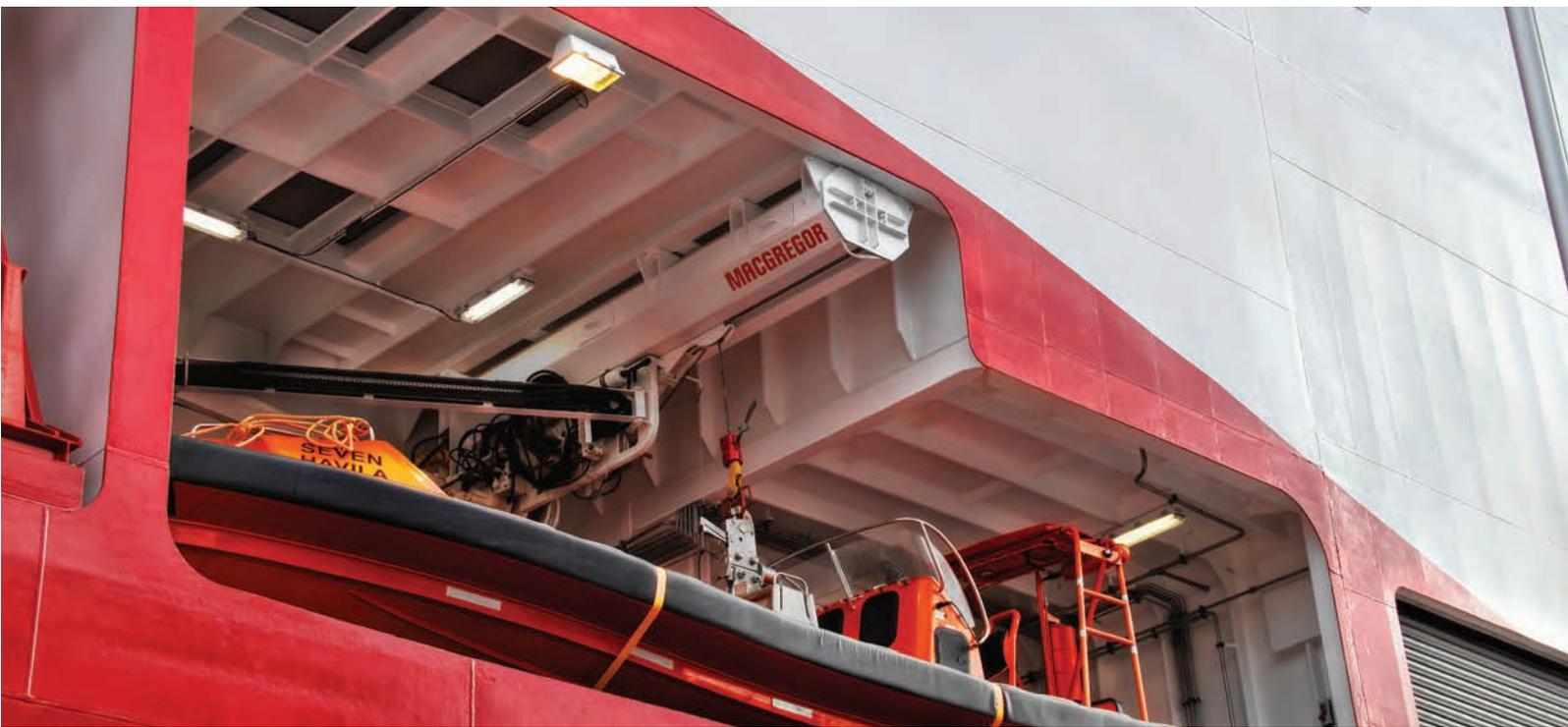
Main technical specifications for G-davits

	HMD G25	HMD G40	HMD G80	HMD G100	HMD G110	HMD G150
Lifting capacity (SWL)	25 kN / 2500 kg	40 kN / 4000 kg	80 kN / 8000 kg	100 kN / 10 000 kg	110 kN / 11 000 kg	150 kN / 15 000 kg
Hoisting speed	0-50 m/min					
List / trim, max	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim	20°list/10°trim
Outreach	~2.5 m	~3.0 m	~4.0 m	~4.0 m	~4.0 m	~5.0 m
Power consumption	~50 kW	~70 kW	~150 kW	~170 kW	~180 kW	~200 kW
Voltage	380V-690V / 50 or 60 Hz					
DOL start current	Upon request					
Star / Delta start current	Upon request					
Min installation depth	~3.6 m	~4.4 m	~5.4 m	~5.4 m	~5.4 m	~6.5 m
Min height (stored position)	~5 m	~5.4 m	~7.4 m	~7.4 m	~7.4 m	~8.0 m
Total weight	~3500 kg	~6000 kg	~12 000 kg	~12 000 kg	~12 000 kg	~15 000 kg

Main technical specifications for winch

	HMD G25	HMD G40	HMD G80	HMD G100	HMD G110	HMD G150
Winch type	HMW 32-003	HMW 50-007	HMW 100-007	HMW 100-007	HMW 100-007	HMW-D-150
Drum capacity	~28 m	~38 m	~39 m	~39 m	~39 m	~39 m
Operating pressure	~300 Bar					
Wire Diameter	Ø 16 mm	Ø 19 mm	Ø 28 mm	Ø 28 mm	Ø 28 mm	Ø 32 mm
Wire end termination	Open spelter socket					
Hook connection	Supplied with boat					

T-type: Telescoping Rescue Craft Davit



MacGregor T-type davit is the best alternative for handling medium-sized MOB, FRC, workboat, daughter craft and rescue rafts.

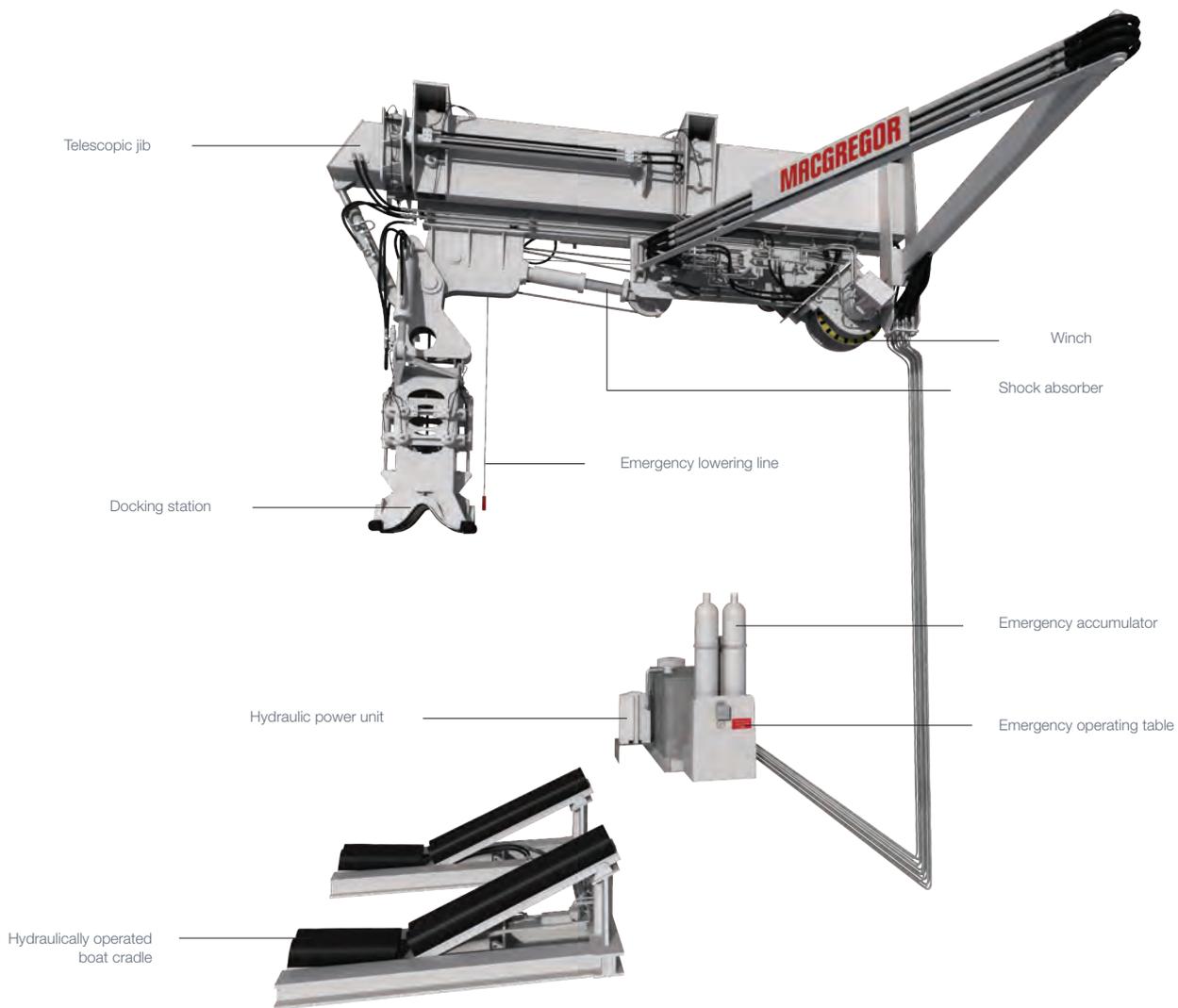
The space-saving design of the T-type davit leaves the vessel deck and bulkhead clear, supporting the davit only by the overhead ship's structure. The compact design of the davit allows installation in locations with limited height and/or depth. T-type davit is also available in FRC versions with dampened docking head and towing boom. Designed to operate with a safe working load up to 5 tons T-type davits are based on a hydraulically operated T-shaped structure, with a built-in V-shaped boat cradle, heave compensated winch, pendulum-dampened docking head, shock dampeners, and a built-in normal and emergency power unit.

Standard features for G-Davits

- Dead-ship launching system operated from boat / Dead-ship launch of fully loaded boat
- Separate electro-hydraulic power unit / Built-in stored power system
- Built-in high speed winch unit
- Separate stainless steel operation console
- Stainless steel hydraulic cylinders
- Galvanized wire rope
- Deck installation foundation
- DENSO tape protected hose couplings
- Space heater in electric motor

Optional features for G-Davits

- Hydro-pneumatic shock damper
- Remote control systems
- Diesel power back-up
- Power sheave
- CTS (constant tension system) – wave-riding recovery mode
- Electric motor starter cabinet
- Deck foundation/console for increased installation height
- Increased hook travel height
- High-speed auto-tension winch function
- Multi-hose up to 10 meters in length
- Luffing, telescoping or slewing towing boom with or without jigger winch
- Shock-qualified davits for Navy applications



Main technical specifications for T-davits

	HMD T32	HMD T50
Lifting capacity (SWL)	32kN / 3200 kg	50 kN / 5000 kg
Number of wire falls	1	1
Hoisting speed	0-50 m/min	0-50 m/min
List / trim, max	20°list/10°trim	20°list/10°trim
Outreach	~1.65 m	~2.5 m
Power consumption	~55 kW	~75 kW
Voltage	380V-690V/ 50 or 60 Hz	380V-690V/ 50 or 60 Hz
DOL start current	Upon request	Upon request
Star / Delta start current	Upon request	Upon request
Min installation depth	~3.8 m	~4.5 m
Min height (stored position)	~3.8 m	~4.5 m
Total weight	~3750 kg ~1100 kg (HPU)	~6000 kg ~1300 kg (HPU)

Main technical specifications for winch

	HMD T32	HMD T50
Winch type	HMW 32-001	HMW 50-007
Drum capacity	~28 m	~28 m
Operating pressure	~250 Bar	~250 Bar
Wire Diameter	Ø 16 mm	Ø 19 mm
Wire end termination	Wedge socket	Wedge socket
Hook connection	Supplied with boat	Supplied with boat

MacGregor offers world leading engineering solutions and services for handling marine cargoes and offshore loads. The scope of our integrated packages is growing and now also includes Hatlapa, Porsgrunn, Pusnes and Triplex products.

MacGregor is part of Cargotec. Cargotec's class B shares are quoted on NASDAQ OMX Helsinki.

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