



PRODUCT  
CATALOG

Your leading solution  
partner in Marine



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## Work with best...

Your leading solution partner in Tugboat and Ship Industry.



CAG-MAK Ship Engines Industry Trade Ltd. company was established in 1995, initially occupied with the reappear for ships & tug boats and professionalized in the area of main engine & equipments assembly. However, our company is producing propeller nozzle, rudder shafts systems, rudder tiller, rope roller menholes, mooring bollard and towing hook. Especially CAG-MAK followed the technology for Main Engines assembly. M/E, generators, pump or the coupling alignment adjusting device using the laser technology is used.

### Our Mission

Ship and tugboat is to provide high quality products by providing the best service in machine assembly and to provide solutions targeting 100% customer satisfaction.

### Our Vision

The ship and tugboat machines and equipment in the field of who manufactures the highest quality products based on the information and the best experience, constantly evolving and innovation environment with the following professional infrastructure is to be a company attaches importance to human health and safety.

### Quality Policy

CAG-MAK with experienced and expert staff; It produces and services the products in accordance with the standards in accordance with the needs of the customers. It satisfies them by analyzing the needs and expectations of the customers. Our company increases the motivation of the employees and ensures continuous improvement. Reliable and flawless production and service continuity.

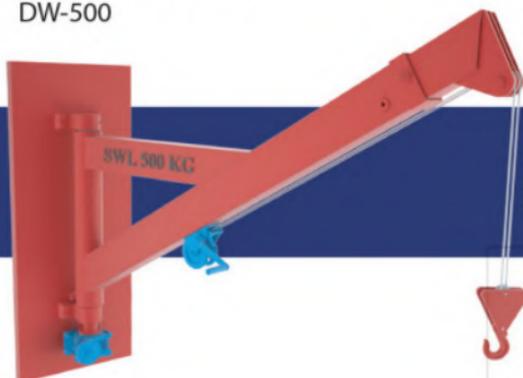
Follow and implement technological developments in accordance with national laws and regulations and in line with international standards.

We are manufacturing according to ISO 9001:2015 quality management systems.



# Davit Winch

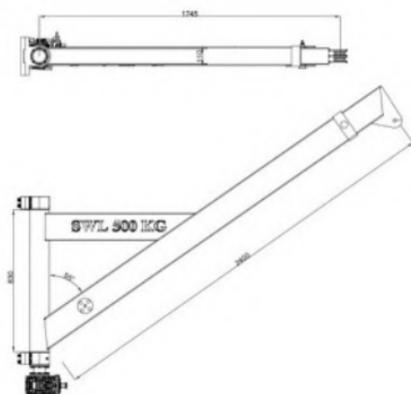
DW-500



Davit winch is the crane systems which are used for loading and unloading lifeboats or stores on vessel or shore

## Specifications

- 500 KG Capacity
- 270 Degrees rotation
- Adjustable telescopic length. From 1900 mm to 3000 mm.
- Easy operate by one person
- Robust and safe hoisting davit
- Include gearbox for 270 degrees turn
- Ergonomic and modern design
- Maintenance free
- Optional custom size can be manufactured.



# Quick Release Towing Hook

TW-5000 / TW - 2000 / TW-1000



The Quick release disc type towing hook is especially designed for towing with polyprop ropes.

## How to choose

There are many types of quick release hooks. You need to know the capacity of the vessel to decide how to choose them.

Depending on the bollard pull of the vessel, 1T, 3T or 5T can be selected.

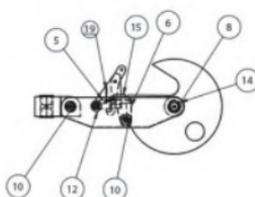
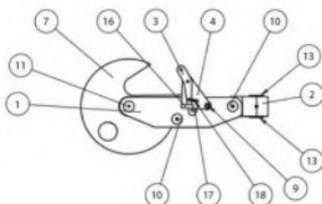
Larger tow hooks with special capacity can also be produced. Towing with nylon and/or other polypropylene ropes as well as steel wire ropes.

## Applications

Safe handling and releasing is possible with only a minimal manual effort of 5T at full safe working load. No high release impact on the hook and foundation because of the free rotating disc system.

## Specifications

- 5 Ton Capacity
- Disk type
- Manual Release Wire control system
- For emergency towing and Port Towing
- Side Movement
- Safety Working Load 1ton to 5ton
- High Quality and certificated materials
- Can be customized according to special requirements



19	CKSTP-01-24	CELK		
18	CKSTP-01-23	CELK		
17	CKSTP-01-22	CELK		
16	CKSTP-01-21	CELK		
15	CKSTP-01-20	CELK		1
14	CKSTP-01-19	BROZ		1
13	CKSTP-01-08	BROZ		2
12	CKSTP-01-14	PAULANMAZ		1
11	CKSTP-01-10	PAULANMAZ		1
10	CKSTP-01-12	PAULANMAZ		4
09	CKSTP-01-11	PAULANMAZ		1
08	CKSTP-01-13	PAULANMAZ		1
07	CKSTP-01-09	CELK		1
06	CKSTP-01-02	CELK		2
05	CKSTP-01-03	CELK		1
04	CKSTP-01-04	CELK		1
03	CKSTP-01-05	CELK		1
02	CKSTP-01-06	CELK		1
01	CKSTP-01-01	CELK		2
00E NO	PARÇA KOD		MALZEME	ADET

# Rope Drum

## WD 250 MN-EL-HD

Electrical or hydraulic driven drum  
for rope storage

### Applications

The rope drum can be placed on the deck or the closed area to stock or collect the ropes on ships, tugboats.

The rope drum does not have an international standard but the diameter of the pulley can vary according to the desired location. Be sure to use the correct rope lay direction for the drum.

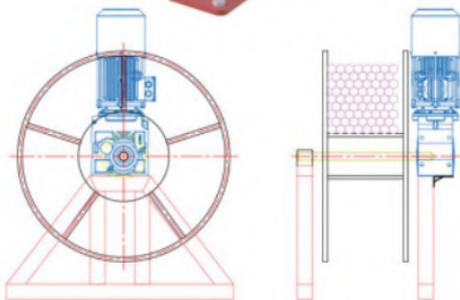
### Specifications

- Marine Steel for strong frame,
- Custom manufacturing,
- Manual, Electrical and Hydraulic driven versions,
- Including reductor (Electrical Type or Manual Type)

### How to choose

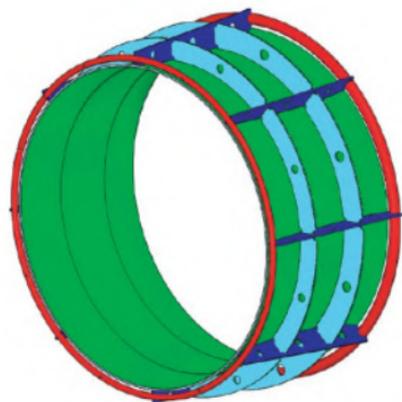
Some ropes are more sensitive to this type of design than others; it depends on lifting height, frequency of use, and even the rope diameter as to the type of wire rope most suitable for that application.

In some applications it may be advisable to select the rope lay direction according to the most frequently used drum layers. If the first rope layer on a drum is used as a 'guide layer' only, it may be advisable to select the rope lay direction according to the second layer.



# Propeller Nozzles

A propeller nozzle is a cylinder surrounding the propeller. It accelerates water flow, increasing propeller efficiency.



## Specifications

Such devices increase propeller output by providing additional thrust.

## Technologies

These nozzles increase the velocity of the water flowing over the propeller and reduce disturbance at the tips of the blades.

The higher water speed creates a pressure difference, increasing thrust.

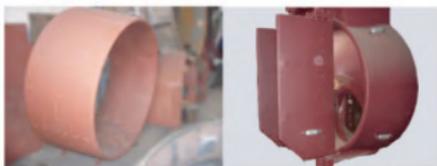
## How to choose

Nozzle and propeller should be chosen together. Criteria include engine power, propeller diameter and related factors.

- Optional custom size can be manufactured.

## Advantages

- Increased output The nozzle increases the thrust at low speeds.
- High efficiency nozzle increases bollard thrust up to 30% at low vessel speeds.



# Rudder

RD-CST

The ship's rudder is an assembly of elements allowing the vessel to be steered. It is mounted aft of the propeller, but is controlled from the bridge.

## Applications

The rudder pivots to alter the direction of the ship while sailing or maneuvering.

## Specifications

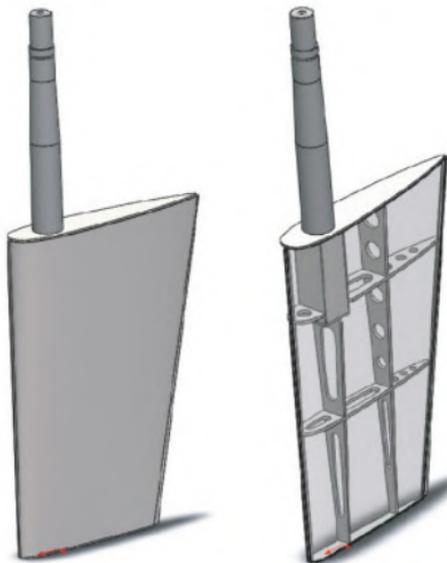
The rudder comprises a series of parts allowing it to pivot, though the term often is used to designate the rudder blade, alone.

Usually, the rudder is mounted aft of the propeller. Thus, the propeller's wake flows over the rudder blade. In order for the ship to be controlled effectively, water flow over the rudder must reach a minimum speed, known as steerage way.

## How to choose

Rudder blades have many different shapes. Each reacts differently to the water flowing over it. Rudder size should be appropriate for the size of the ship.

- Optional custom size can be manufactured.



# Bollards

Bollards are found at container and passenger ship terminals, general cargo and Ro-Ro docks and all other types of port facility.



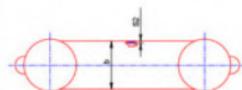
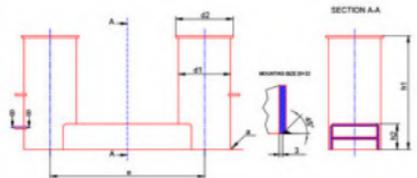
## Standards

- DIN 82607 – ISO 13795. Production can be done at desired size.
- Our production is done according to WPQR certificate
- Optional custom size can be manufactured.



## DOUBLE BOLLARD

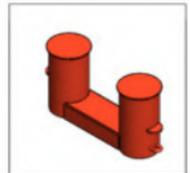
## DIN 82607



SECTION B-B



STOPPER LUG



ORDER CODE	TYPE	MODEL	Ø 1	Ø 2	H	H 1	H 2	H 3	A	BASE	Ø
118021101	Ø 1	140T	150	160	400	370	380	8	4	131	
118021102	Ø 2	210M	180	200	570	470	470	8	8	131	
118021103	Ø 3	270L	200	220	700	570	570	8	8	130	
118021104	Ø 4	300H	200	220	800	570	570	8	8	140	
118021105	Ø 5	360V	220	240	1000	760	770	10	8	200	
118021106	Ø 11	400VH	420	450	1200	800	790	10	12	417	
118021107	Ø 20	500VH	470	500	1300	870	790	10	16	571	
118021108	Ø 30	500VH	530	550	1400	930	770	10	16	630	

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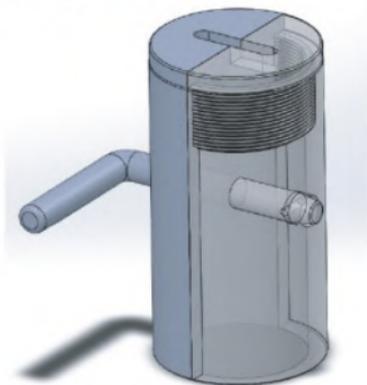


# Clench - Anchor Releaser

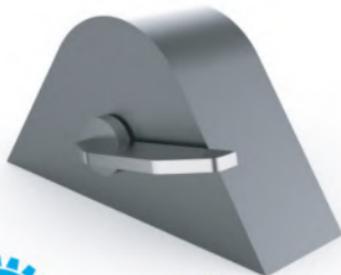
CS-B, CS-P, CS-D



PIPE TYPE / CS-P



DROPTYPE / CS-D

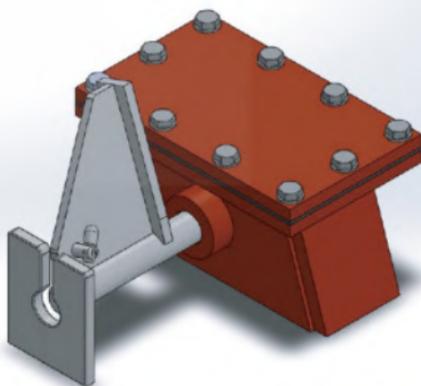


Box type anchor releaser is designed according to JIS F2025 and DIN 81860

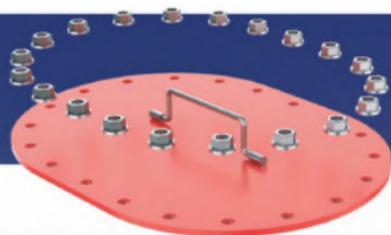
## Specifications

Box type anchor releaser is applicable to anchor chain diameter 5 mm to 12.5 mm and commonly used on large and medium vessel.

Box type anchor releaser is designed according to DIN 81860 and JIS F2025. It is installed on the anchor chains storage bulkhead and convenient and easy to operate when vessel is in emergent circumstance.



BOXTYPE / CS-B



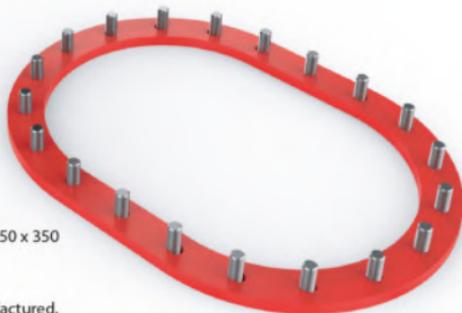
## MANHOLE

### Standart

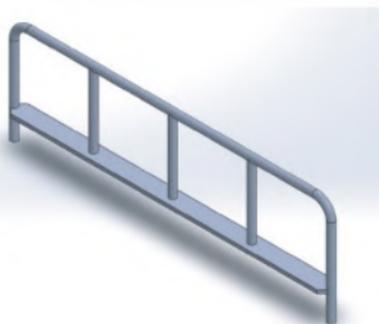
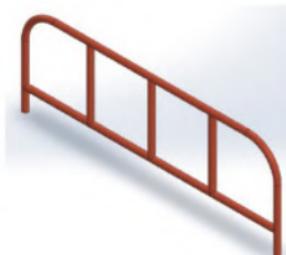
- ISO 5894:2018

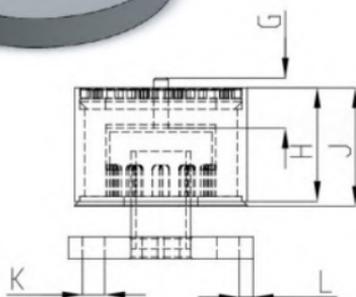
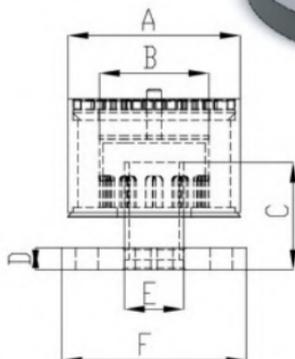
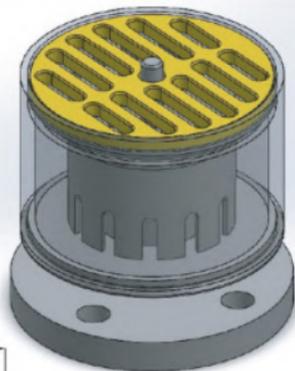
### Features

- Geometrical design
- Design of jacing-up bolts
- Optional Flush Type
- Watertight
- Oiltight
- Nominal pressure level
- Size (mm) 800 x 600 – 600 x 400 – 450 x 350
- Marking
- Fixed or loose handle
- Optional custom size can be manufactured.



### Freeing Port





## Dimensions

DN	F	E	D	K	A
40	130	100	14	14X4	140
	130	100	14	14X4	140
50	140	110	16	14X4	140
	140	110	16	14X4	140

## Specifications

- Body Hot-dip galvanized steel
- Floor filter is 316L Stainless Steel
- Grid Rg5 Bronze
- Flange DN40 – DN50
- Production can be done at desired size

## Application

It is used on deck as floor filter. Against corrosion hot-dip galvanized coating is applied on body of product. Inner filter made from 316 L material.

# References

Some of the companies we actively work with;

SANMAR A.Ş.  
ULUSOY DENİZ YOLLARI  
MIP (MERSIN INTERNATIONAL PORT)  
ROLLS ROYCE MARINE TURKEY  
ARPAŞ (AMBARLI PİLOTAJ RÖMORKAJ A.Ş.)  
SAFI DENİZCİLİK  
URSA SHIPYARD  
MARINTUG  
FINNER SHIP  
YUTEK  
TÜRKTER SHIPYARD  
YACHTLEY SHIPYARD  
YILMAZ ULUSOY HOLDING  
ATLANTİS MARINE  
ZENITH GEMİ İŞLETMECİLİĞİ A.Ş.





Work with best...

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and Ship Industry.





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