

# MARINE CRANES

POWER ON SEA & LAND



[www.amcovebamarine.com](http://www.amcovebamarine.com)

**AMCO**  **VEBA**  
MARINE CRANES BY HYVA

# Welcome to Amco Veba Marine

Amco Veba Marine designs, manufactures and supports an extensive range of folded telescopic and articulated cranes for the marine environment and onshore. Applications range from cranes mounted on workboats, fishing and fish farming vessels and quay sides. Products are sold worldwide and maintained and serviced through a network of dealers and agents.

The Amco Veba Marine range comprises five lines of cranes – Mini Telescopic, Telescopic, Articulated, Articulated with Powerlinks and Articulated with Slewing Ring – and more than 150 model variants. Lifting classes range from 1 to 85 tm.

Amco Veba Marine is a global leader in the production of foldable cranes. Founded in 1980 in Castelnovo di Sotto, Amco Veba Marine re-located to a new factory in Poviglio, in the Reggio Emilia province of Italy, in 2000. Amco Veba Marine has been a Hyva Group company since 2007.

The company has specialized in the production of hydraulic foldable cranes suitable for fixed installation for both marine and onshore use. The entrepreneurial culture of the company, together with a commitment to innovation and quality, has established Amco Veba Marine as a well-known and respected brand around the world.

Personnel safety and respect for the environment are primary concerns for Amco Veba Marine. To this end, significant investments have been made in facilities and equipment to reduce risk and minimise pollution.



# Applications - our cranes at work

Amco Veba Marine Cranes are operating across the globe in a variety of applications in the marine environment – both on vessels and boats or in quay side installations.



## FISH FARMING

Feed barges, Service vessels, Catamarans



## WORKBOATS

Tug boats, Multicats, Utility support vessels, Research vessels, Oil spill response vessels



## QUAY SIDE

Harbours, Marinas



## FISHING

Fishing boats, Fishing harbours



## WIND PARKS

Crew transfer vessels, Wind farm vessels



## NAVY AND COASTGUARD

Patrol boats, Pilot boats, Cutter vessels, Firefighting boats



## FERRY

Ferry boats, Landing crafts



## RIVER AND LAKES

Pontoons, River cleaning workboats, Barges, Dredgers

# CRANE LINES - OVERVIEW

The Amco Veba Marine Cranes range comprises five lines of foldable cranes - 'MINI' Telescopic, Telescopic, Articulated, Articulated with Powerlinks and Articulated with Slewing Ring.

These cranes are suited to a wide variety of applications in the marine environment - both for installation on different types of vessels and for fixed applications such as quay sides or pontoons.

## 'MINI'- Telescopic cranes

- 1-3.5 tm class
- Telescopic and foldable

Small mono-boom cranes with worm gear slewing rotation system.

Page: 10 - 11

Model: 603TM



## Telescopic cranes

- 4-18 tm class
- Telescopic and foldable

Mono-boom cranes with double rack and pinion rotation system.

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Model: 815TM



## Articulated cranes

- 3-28 tm class
- Knuckle, telescopic and foldable

Articulated cranes with double rack and pinion rotation system.

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Model: 810M

## Articulated with Powerlink cranes

- 24 - 50 tm class
- Knuckle, telescopic and foldable

Articulated cranes with double linkage.

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Model: 950M

## Articulated with Slewing Ring cranes – VR

- 65 - 85 tm class
- Knuckle, telescopic and foldable

Articulated cranes with slewing bearing rotation system and double linkage.

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Model: VR75M

# CREATING OUR CRANES

Amco Veba Marine Cranes are the product of technical expertise and experience built over many years of design, development and production to the highest quality standards in components and processes.

## DESIGN

Each individual component of the crane is designed using a 3D CAD system. Structural integrity is assured by stress checking techniques such as FEM (Finite Element Analysis). All cranes are designed in accordance with European standards EN 12999 / DIN 15018.

## PROTOTYPE DEVELOPMENT

Complete prototypes are built and each component is checked for conformity to specification before being accepted into the prototype process. Prototypes are assembled in a dedicated area under the supervision of our design engineers.

## PRODUCTION

Every Amco Veba Marine Crane is produced to meet a specific customer order and monitored by in-line electronic controls which record each particular job and track the crane through each step of its assembly. When the customer takes delivery, each crane is accompanied by a complete package of documents, including: Certification of origin, CE declaration of conformity, Spare parts CD, User and Maintenance manual, Warranty certificate and Pre-inspection document.

## SPARE PARTS

A large parts stock is always available. Distributors can check stock and prices, create a price quote, or enter a spare parts order directly into our order system via the Amco Veba Marine website.

## QUALITY

Amco Veba Marine Quality Management System, certified according to ISO 9001:2000, guarantees the quality of products and services supplied to customers. An essential part of our quality system is verification of components from suppliers, to ensure that they meet our standards, through a series of dimensional, welding and materials controls.

And, after assembly, the finished crane undergoes a final quality control testing to ensure that the complete product meets all standards. Traceability too is an important aspect of quality control. Most component parts are uniquely numbered and the information recorded by the production department

In addition to their excellent design, Amco Veba Marine Cranes are created with a bare metal finish for use on vessel and quay surfaces.

**ALL GALVANIZED STEEL**  
Painted Or Stainless Steel

**CYLINDER PROTECTION**  
Hard Chrome Plating  
On All Barrels  
-L2 - L3-

**STAINLESS STEEL FITTINGS**  
On All Rubber Hoses  
-L3-

Design and build quality, Amco Veba  
base and slewing system suitable for  
side installation.



**PIN PROTECTION**

Carbonitriding On  
Articulation Pins  
L2 - L3

**DOUBLE CROSS  
CHROME PLATING**

60 Microns Thick On Rods  
And In All Cylinders

**SLEWING BEARING**

Up To 3 Planetary Hydraulic  
Motors

**BUILT FOR THE MARINE ENVIRONMENT**

**PROTECTION**

Several levels of protection are available to allow the customer the freedom to choose the treatment most suitable for the environment in which the cranes are expected to operate.

**F LEVEL**

Fixed base and special shotblasting with Standard painting, Standard plating and Standard fittings.

**\*L1 LEVEL**

Fixed base and special shotblasting with Marine painting, Standard plating and Standard fittings.

**\*L2 LEVEL**

Fixed base and special shotblasting with Marine painting, Marine chrome plating and heat shrinkable sleeves on all Standard fittings (except control valve fittings).

**\*L3 LEVEL**

Fixed base and special shotblasting with Marine painting, Marine chrome plating and Stainless Steel fittings.

**SUPPLEMENTARY MARINE TREATMENT**

Available on request, to give added protection of steel against corrosion, this treatment includes:

**Metallizing of external surfaces**

- Thermally sprayed coatings of zinc and zinc alloys
- 120 micron zinc layer
- Primer for filling up holes
- Guaranteed up to 144 months (in C5 exposure conditions, according to ISO 12944)

**Special treatment of internal surfaces**

- Chemical treatment with TECTYL 4D750

**STANDARD AND MARINE FINISHES**

STANDARD PAINTING	2 layers , bicomponent polyurethane primer and finishing coat.
STANDARD PLATING	Single layer chrome plating on cylinder rods and on inside diameter of slewing cylinders. Carbonitriding on articulation pin.
STANDARD FITTINGS	Zinc plated fitting for all hoses.
<b>*MARINE PAINTING</b>	3 layers, epoxy zinc primer and bicomponent epoxy primer, both applied with parts disassembled; bicomponent polyurethane finishing coat.
<b>*MARINE CHROME PLATING</b>	Hard chrome plating on cylinder rods and in inside diameter of slewing cylinders, Carbonitriding on articulation pins.
<b>*STAINLESS STEEL FITTINGS</b>	Stainless steel fittings for rubber hoses.

# CONTROL AND VERSATILITY

Various forms of radio remote control are available. All utilise proportional control valves which facilitate the movement of loads smoothly and with high precision.

## SINGLE HAND CONTROL (RRS)



The Single hand control is compact and ergonomic, allowing safe proportional control of any single movement of the crane using thumb and index finger. Cable remote control, to avoid radio frequency interference, is available as an option. AA battery powered.

## MULTIFUNCTION CONTROL (RDC)



The Multifunction control allows the operator, using two hands simultaneously, to move 2, 3, 4 or more functions of the crane at once. Equipped with 8 ergonomic proportional levers to control up to 8 functions of the crane.

Cable remote control, to avoid radio frequency interference, is available as an option. Re-chargeable battery.

## ELECTROHYDRAULIC POWER PACK



Electrohydraulic power packs allow the cranes to be used where there is no engine or power take-off available (e.g. small boats, quay sides).



Model No: 817M

## Expanding capabilities

An extensive range of Options and Accessories are available with Amco Veba's Marine cranes to ensure that each of our cranes can be specified and built to meet your requirements.

### WINCHES

Cranes can be supplied prepared for winch installation or complete with winch installed. Several winch options are available.

#### TMA



Hydraulic and mechanical safety device winches. Amco Veba Marine and TMA worked together to design a product suitable for the Marine environment. (No electric/electronic opponents)

#### ROTZLER

Rotzler winches are famous worldwide for their unique characteristics: compact dimensions, low weight and high power. Many components are manufactured from stainless steel.

#### DINAMIC OIL

Small, compact winches. Available for our small range cranes only.

### CENTRALISED/AUTOMATIC GREASING SYSTEM

By gathering a group of greasing points together in one place, maintenance can be performed much more quickly.

### LOAD SENSING (LS) SYSTEM

A main control valve prepared for the load sensing pump is the best solution for complex hydraulic circuits. This feature increases the efficiency of the hydraulic circuit, reducing power loss and overheating of the system.

It matches the output flow to the exact amount required by the system, bringing the use of energy in the circuit to its optimum performance.

### LED WORKING LIGHTS

LED working lights fitted on the boom of the crane to allow illumination of the working area around the crane and make it

# 'MINI' - TELESCOPIC CRANES

## Compact and lightweight

Small telescopic and foldable cranes with a wide range of accessories such as radio, winch, powerpack and extra-functions for tool use. Compact and light weight, making them ideal for small vessels such as pilot boats, fishing boats, landing craft and oil spill response vessels.

Easy to install on light structural materials such as aluminium or glass fibre.



Model: 603TM

### FEATURES

- 1-3.5 tm class
- Stationary base for easy installation on vessel
- Counterbalance valves directly mounted on each cylinder
- Hexagonal shaped telescopic booms stronger and self-aligning, offering greater load handling control
- Control valve plumbed in. Shipped demounted with sufficient hose for mounting in stand-up
- ABS protective cover on controls
- Worm and gear rotation

### OPTIONS

- Radio Remote Control (RRS)
- Winch

### WORM AND GEAR ROTATION

Completely enclosed cast housing with lubrication bath.

### TYPICAL APPLICATIONS



Model No: 601TM



Worm And Gear Rotation

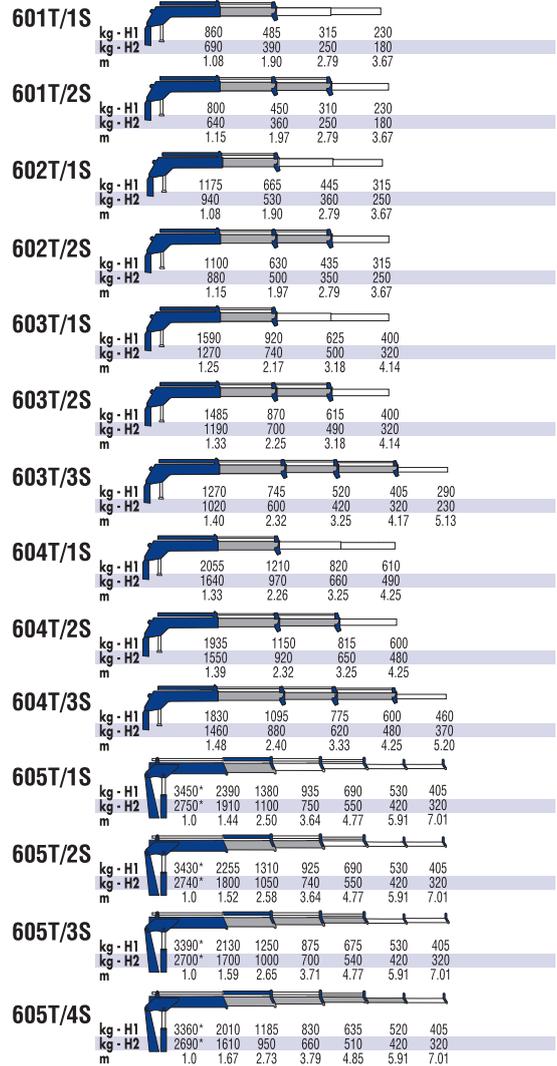


Model No: 603TM

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Oil Flow (l/m)	Size BxHxS (mm)
601TFM 1S	0.93	920	328	145	180	5	595x1240 x370
601TFM 2S	-	-	328	164	180	5	595x1240 x370
602TFM 1S	1.27	1250	335	174	160	8	620x1245 x435
602TFM 2S	-	-	335	193	160	8	675x1245 x435
603TFM 1S	1.99	1960	335	216	160	8	695x1525 x435
603TFM 2S	-	-	335	240	160	8	710x1525 x435
603TFM 3S	-	-	335	262	150	8	870x1525 x435
604TFM 1S	2.73	2680	335	263	160	10	730x1590 x440
604TFM 2S	-	-	335	295	160	10	755x1590 x440
604TFM 3S	-	-	335	321	160	10	755x1590 x440
605TFM 1S	3.45	3390	395	301	175	10	980x1705 x440
605TFM 2S	-	-	395	337	175	10	1040x1705 x440
605TFM 3S	-	-	395	370	175	10	1040x1705 x440
605TFM 4S	-	-	395	399	175	10	1040x1705 x440

## LOAD DIAGRAMS



\* Theoretical lifting capacity



Model No: 604TM

# TELESCOPIC CRANES

## Strong and fast

Medium-size range of Telescopic and Foldable cranes. Strong, easy to use and space saving.

Ideal for jobs where speed is important and a winch is required, for example in the fishing industry and quay side operations.



Model no: 815TM

### FEATURES

4-16 tm

Base with double rack and pinion system. Powerful rotation system especially designed for marine conditions

Stationary base for easy installation on vessel

Counterbalance valves directly mounted on each cylinder

Hexagonal shaped telescopic booms stronger and self-aligning, offering greater load handling control

Control valve plumbed in. Shipped demounted with sufficient hose for mounting in stand-up position near crane

### OPTIONS

Radio Remote Control (RRS and/or RDC)

Winch

### DOUBLE RACK AND PINION

This system increases strength, reliability and precision where the crane requires extra torque or is not operating in levelled conditions.

### TYPICAL APPLICATIONS



FISHING



WORKBOATS



QUAY SIDE



LAKES & RIVERS



Model No: 817M

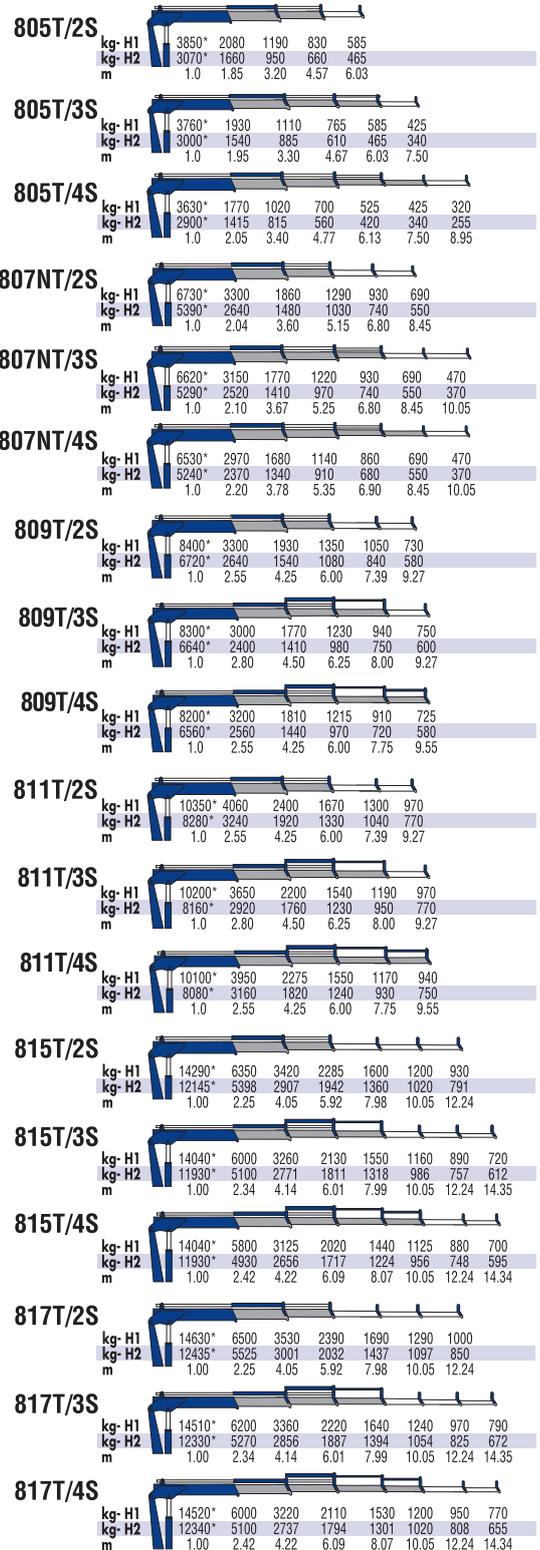


Double Rack And Pinion System

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Oil Flow (l/m)	Size BxHxS (mm)
805TFM 2S	3.85	3780	380	520	220	16	1930x1775 x480
805TFM 3S	-	-	380	570	220	16	1980x1775 x480
805TFM 4S	-	-	380	615	220	16	2000x1775 x480
807 NTFM 2S	6.73	6610	387	680	260	18	2140x1985 x520
807NTFM 3S	-	-	387	740	260	18	2190x1985 x520
807NTFM 4S	-	-	387	800	60	18	2210x1985 x520
809TFM 2S	8.4	8250	395	995	250	20	2010x2235 x580
809TFM 3S	-	-	395	1075	250	20	2060x2235 x580
809TFM 4S	-	-	395	1140	250	20	2060x2235 x580
811TFM 2S	10.3	10110	395	995	295	20	2010x2235 x580
811TFM 3S	-	-	395	1075	295	20	2060x2235 x580
811TFM 4S	-	-	395	1140	295	20	2060x2235 x580
815TFM 2S	14.3	14030	380	1380	270	30	2490x2180 x800
815TFM 3S	-	-	380	1510	270	30	2560x2225 x800
815TFM 4S	-	-	380	1620	270	30	2635x2245 x800
816TFM from 2S-6S	13.8	13540	380	1800	280	30	2465x2220 x800
817TFM 2S	15.5	15210	380	1430	290	30	2490x2180 x800
817TFM 3S	-	-	380	1560	290	30	2560x2225 x800
817TFM 4S	-	-	380	1670	290	30	2635x2245 x800
818TFM from 2S-6S	14.8	14520	380	1800	290	30	2465x2220 x800

## LOAD DIAGRAMS



\* Theoretical lifting capacity



Model No: 807NM

# ARTICULATED CRANES

## Flexible and smart

Knuckle, telescopic and foldable cranes with a wide range of positions to improve reach capability.

Suitable for a wide range of applications from fish farming to workboats. Cost reducing solution.



Model no: 812M

### FEATURES

3-28 tm

Base with double rack and pinion system. Powerful rotation system especially designed for marine conditions

Stationary base for easy installation on vessel

Counterbalance valves directly mounted on each cylinder

Hexagonal shaped telescopic booms stronger and self-aligning, offering greater load handling control

Control valve plumbed in. Shipped demounted with sufficient hose for mounting in stand-up position near crane

### OPTIONS

Radio Remote Control (RRS and/or RDC)

Winch

### DOUBLE RACK AND PINION

This system increases strength, reliability and precision where the crane requires extra torque or is not operating in levelled conditions.

### TYPICAL APPLICATIONS



Model No: 806NM



Double Rack And Pinion System

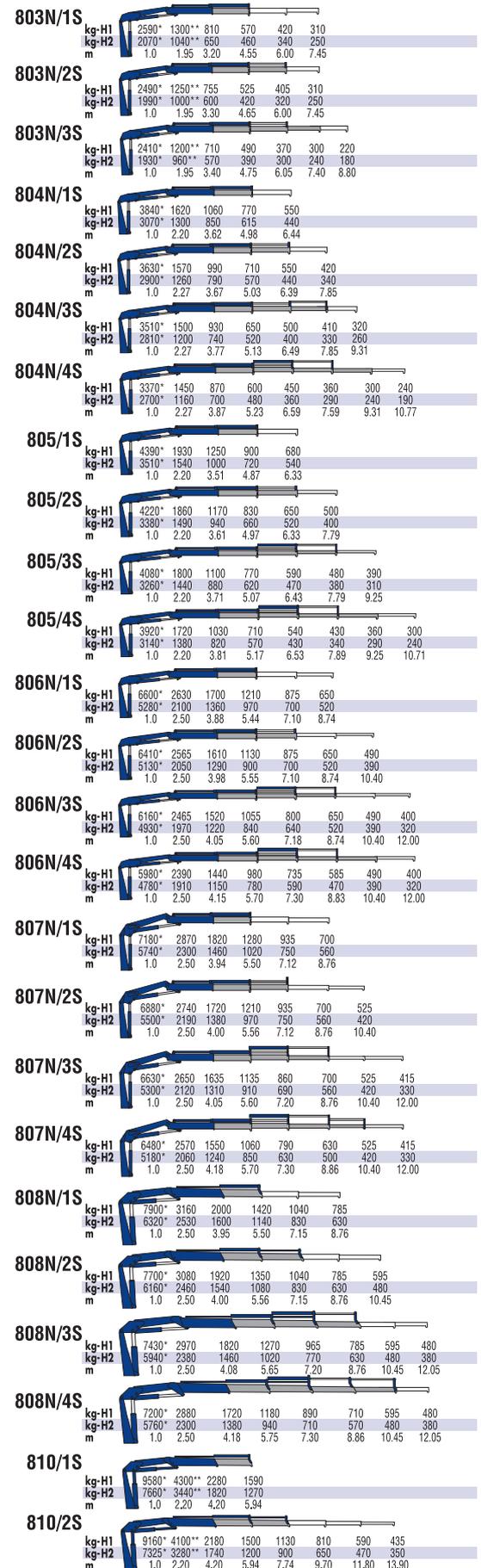


Model No: 810M

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Sweling Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
803NFM 1S	2.59	2550	370	415	175	8	1850x1590 x520
803NFM 2S	-	-	370	450	175	8	1915x1590 x520
803NFM 3S	-	-	370	480	175	8	2000x1590 x520
804FM 1S	3.84	3770	380	540	235	16	1980x1760 x555
804FM 2S	-	-	380	590	235	16	1980x1760 x555
804FM 3S	-	-	380	640	235	16	2090x1760 x555
804FM 4S	-	-	380	685	235	16	2115x1760 x555
805FM 1S	4.39	4310	380	540	265	16	1980x1760 x555
805FM 2S	-	-	380	590	265	16	1980x1760 x555
805FM 3S	-	-	380	640	265	16	2090x1760 x555
805FM 4S	-	-	380	685	265	16	2115x1760 x555
806NFM 1S	6.6	6480	387	720	245	20	2140x1930 x595
806NFM 2S	-	-	387	790	245	20	2140x1930 x595
806NFM 3S	-	-	387	850	245	20	2220x1930 x595
806NFM 4S	-	-	387	900	245	20	2250x1930 x595
807NFM 1S	7.17	7040	387	735	265	20	2210x1930 x595
807NFM 2S	-	-	387	815	265	20	2210x1930 x595
807NFM 3S	-	-	387	875	265	20	2270x1930 x595
807NFM 4S	-	-	387	935	265	20	2300x1930 x595
808NFM 1S	7.9	7750	387	765	285	20	2210x1930 x595
808NFM 2S	-	-	387	845	285	20	2210x1930 x595
808NFM 3S	-	-	387	905	285	20	2270x1930 x595
808NFM 4S	-	-	387	965	285	20	2300x1930 x595
810FM 1S	9.58	9400	395	1080	290	40	2245x2105 x670
810FM 2S	-	-	395	1160	290	40	2290x2105 x670

## LOAD DIAGRAMS

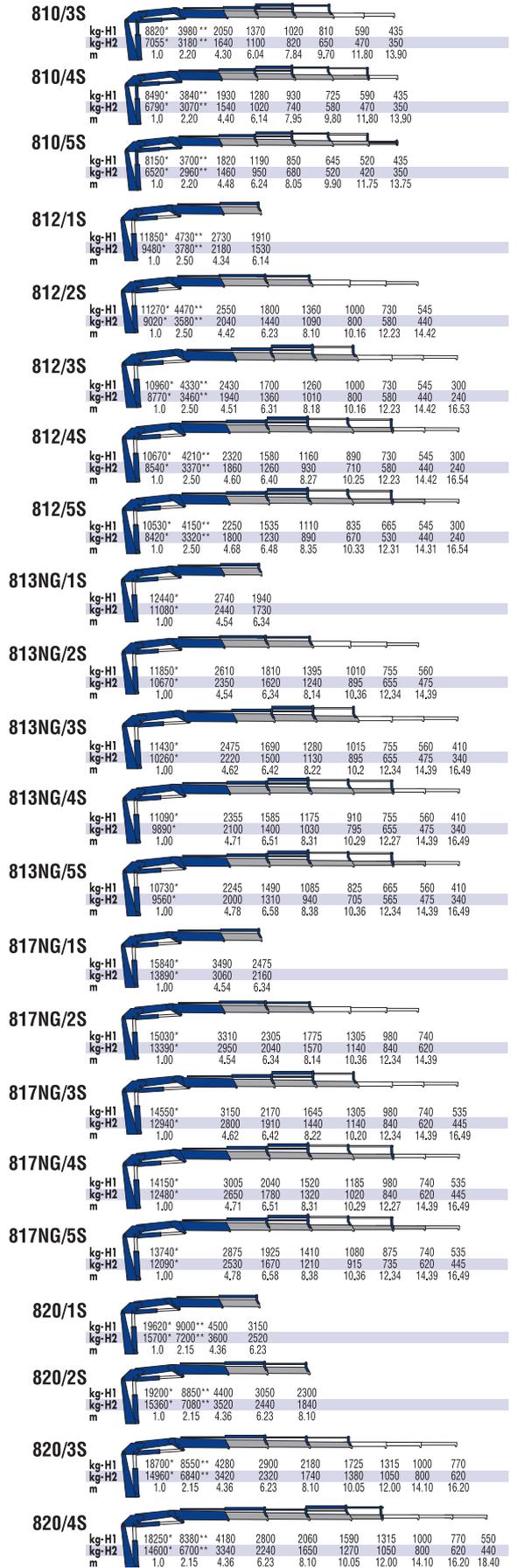


\* Theoretical lifting capacity \*\* Capacity at fixed hook

# TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
810FM 3S	-	-	395	1260	290	40	2390x2105 x670
810FM 4S	-	-	395	1350	290	40	2475x2105 x670
810FM 5S	-	-	395	1420	290	40	2475x2105 x780
812FM 1S	11.9	11680	380	1285	310	25	2220x2255 x840
812FM 2S	-	-	380	1415	310	25	2290x2255 x840
812FM 3S	-	-	380	1535	310	25	2405x2255 x840
812FM 4S	-	-	380	1635	310	25	2495x2255 x840
812FM 5S	-	-	380	1705	310	25	2495x2255 x930
813NGFM 1S	12.4	12170	425	1285	285	60 radio 30 no radio	2455x2260 x790
813NGFM 2S	-	-	425	1405	285	60 radio 30 no radio	2455x2260 x790
813NGFM 3S	-	-	425	1520	285	60 radio 30 no radio	2455x2260 x790
813NGFM 4S	-	-	425	1610	285	60 radio 30 no radio	2535x2260 x790
813NGFM 5S	-	-	425	1655	285	60 radio 30 no radio	2585x2260 x900
817NGFM 1S	15.8	15500	425	1475	280	60 radio 40 no radio	2490x2295 x825
817NGFM 2S	-	-	425	1610	280	60 radio 40 no radio	2490x2295 x825
817NGFM 3S	-	-	425	1725	280	60 radio 40 no radio	2490x2295 x825
817NGFM 4S	-	-	425	1830	280	60 radio 40 no radio	2490x2295 x825
817NGFM 5S	-	-	425	1880	280	60 radio 40 no radio	2490x2295 x905
820FM 1S	19.6	19230	387	1920	300	40	2300x2195 x940
820FM 2S	-	-	387	2070	300	40	2300x2195 x940
820FM 3S	-	-	387	2210	300	40	2300x2195 x980
820FM 4S	-	-	387	2340	300	40	2380x2195 x980

# LOAD DIAGRAMS

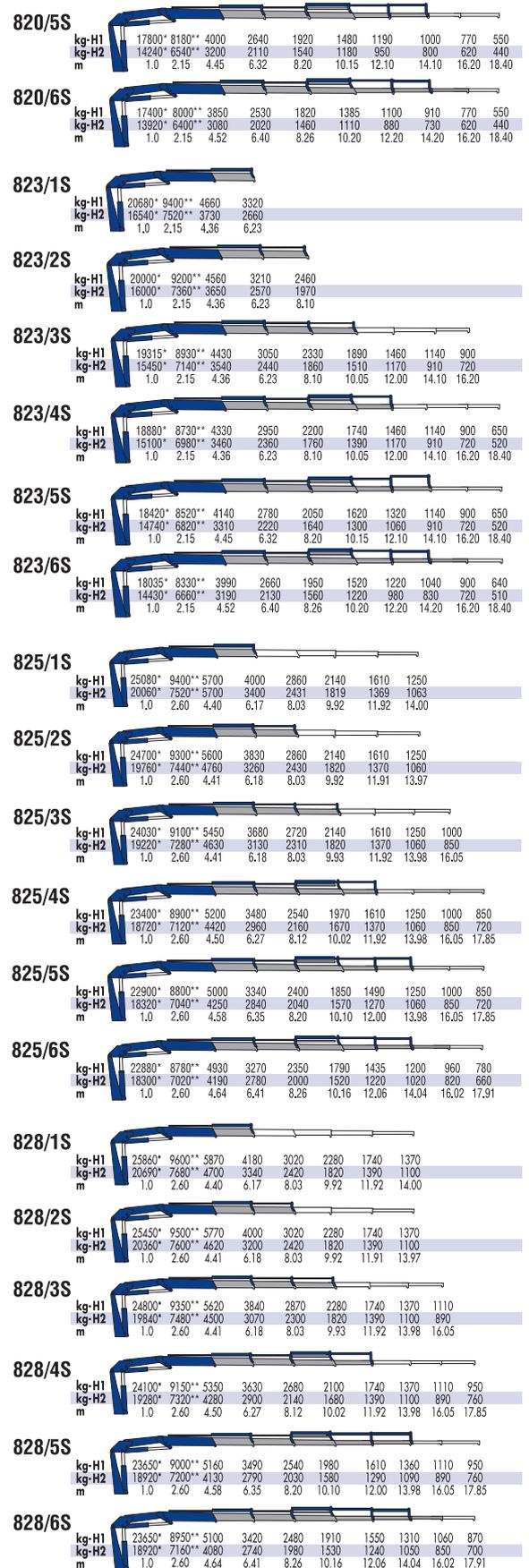


\* Theoretical lifting capacity \*\* Capacity at fixed hook

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
820FM 5S	-	-	387	2440	300	40	2440x2295 x980
820FM 6S	-	-	387	2540	300	40	2495x2295 x980
823FM 1S	20.3	19920	387	1920	315	40	2300x2195 x940
823FM 2S	-	-	387	2070	315	40	2300x2195 x940
823FM 3S	-	-	387	2210	315	40	2300x2195 x980
823FM 4S	-	-	387	2340	315	40	2380x2195 x980
823FM 5S	-	-	387	2440	315	40	2440x2295 x980
823FM 6S	-	-	387	2540	315	40	2495x2295 x980
825FM 1S	25.0	24530	400	2580	290	50	3115x2360 x1130
825FM 2S	-	-	400	2760	290	50	3115x2360 x1130
825FM 3S	-	-	400	2900	290	50	3115x2360 x1130
825FM 4S	-	-	400	3060	290	50	3115x2360 x1130
825FM 5S	-	-	400	3200	290	50	3115x2360 x1130
825FM 6S	-	-	400	3295	290	50	3115x2360 x1145
828FM 1S	25.8	25310	400	2630	305	50	3115x2360 x1130
828FM 2S	-	-	400	2810	305	50	3115x2360 x1130
828FM 3S	-	-	400	2950	305	50	3115x2360 x1130
828FM 4S	-	-	400	3110	305	50	3115x2360 x1130
828FM 5S	-	-	400	3250	305	50	3115x2360 x1130
828FM 6S	-	-	400	3345	305	50	3115x2360 x1145

## LOAD DIAGRAMS



\* Theoretical lifting capacity \*\* Capacity at fixed hook

# ARTICULATED CRANES WITH POWERLINKS

## Versatile and Precise

Knuckle, telescopic and foldable cranes with double linkage for highly demanding precision jobs.

The boom linkage gives cranes versatility for many working positions. Its design delivers the mechanical advantage of the articulation, to provide consistent force through all working angles.



Model no: 950M

### FEATURES

24 - 50 class

Base with double rack and pinion system. Powerful rotation system especially designed for marine conditions

Stationary base for easy installation on vessel

Counterbalance valves directly mounted on each cylinder

Hexagonal shaped telescopic booms stronger and self-aligning, offering greater load handling control

Control valve plumbed in. Shipped demounted with sufficient hose for mounting in stand-up position near crane

Double linkage

### OPTIONS

Radio Remote Control (RDC)

Winch

### DOUBLE RACK AND PINION

This system increases strength, reliability and precision where the crane requires extra torque or is not operating in levelled conditions.

### TYPICAL APPLICATIONS



FISH FARMING



QUAY SIDE



WORKBOATS



LAKES & RIVERS



NAVY



COAST GUARD



Model No: 933M



Double Rack And Pinion System

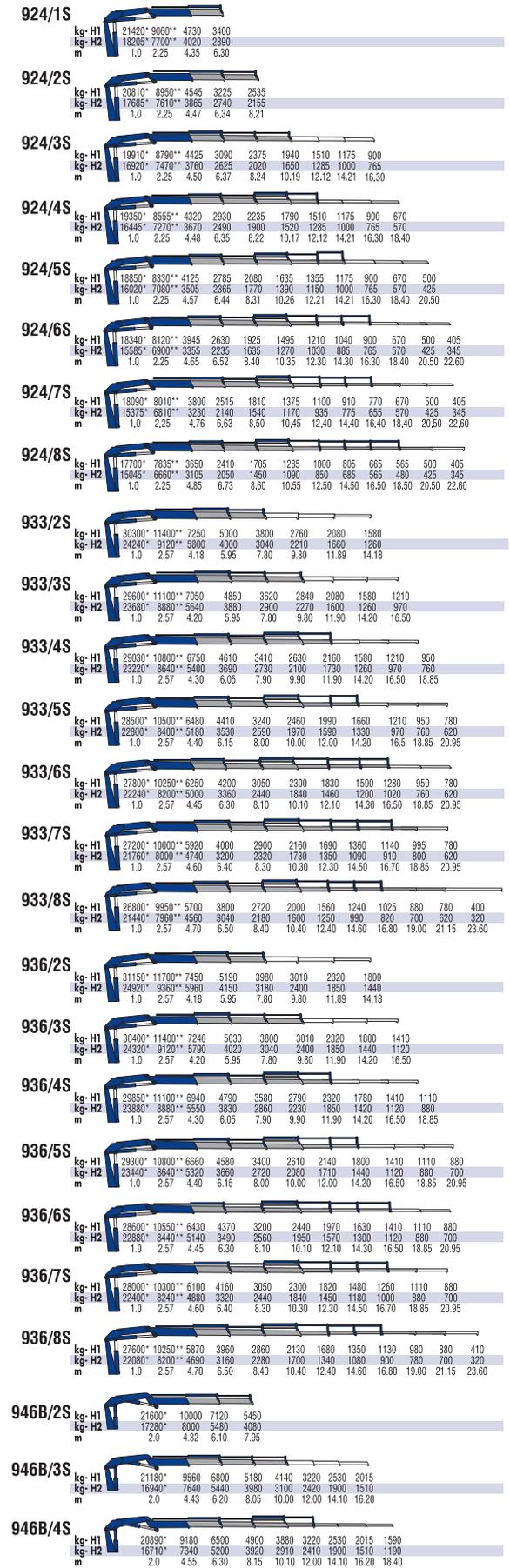


Model No: 936M

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
924FM 1S	20.6	20210	387	2210	325	38	2195x2265 x1005
924FM 2S	-	-	387	2360	325	38	2475x2265 x1005
924FM 3S	-	-	387	2510	325	38	2475x2265 x1005
924FM 4S	-	-	387	2650	325	38	2475x2265 x1005
924FM 5S	-	-	387	2770	325	38	2475x2265 x1005
924FM 6S	-	-	387	2890	325	38	2500x2265 x1005
924FM 7S	-	-	387	2990	325	38	2550x2265 x1060
924FM 8S	-	-	387	3090	325	38	2605x2265 x1060
933FM 2S	30.3	29730	397	3370	300	45	2470x2205 x1170
933FM 3S	-	-	397	3590	300	45	2470x2205 x1170
933FM 4S	-	-	397	3820	300	45	2470x2250 x1170
933FM 5S	-	-	397	3990	300	45	2470x2300 x1170
933FM 6S	-	-	397	4150	300	45	2480x2350 x1170
933FM 7S	-	-	397	4270	300	45	2480x2435 x1220
933FM 8S	-	-	397	4390	300	45	2540x2490 x1300
936FM 2S	31.1	30510	397	3370	310	45	2470x2205 x1170
936FM 3S	-	-	397	3590	310	45	2470x2205 x1170
936FM 4S	-	-	397	3820	310	45	2470x2250 x1170
936FM 5S	-	-	397	3990	310	45	2470x2300 x1170
936FM 6S	-	-	397	4150	310	45	2480x2350 x1170
936FM 7S	-	-	397	4270	310	45	2480x2435 x1220
936FM 8S	-	-	397	4390	310	45	2540x2490 x1300
946BFM 2S	43.2	42380	400	4060	300	50	2860x2480 x1325
946BFM 3S	-	-	400	4310	300	50	2860x2480 x1325
946BFM 4S	-	-	400	4590	300	50	2860x2480 x1325

## LOAD DIAGRAMS

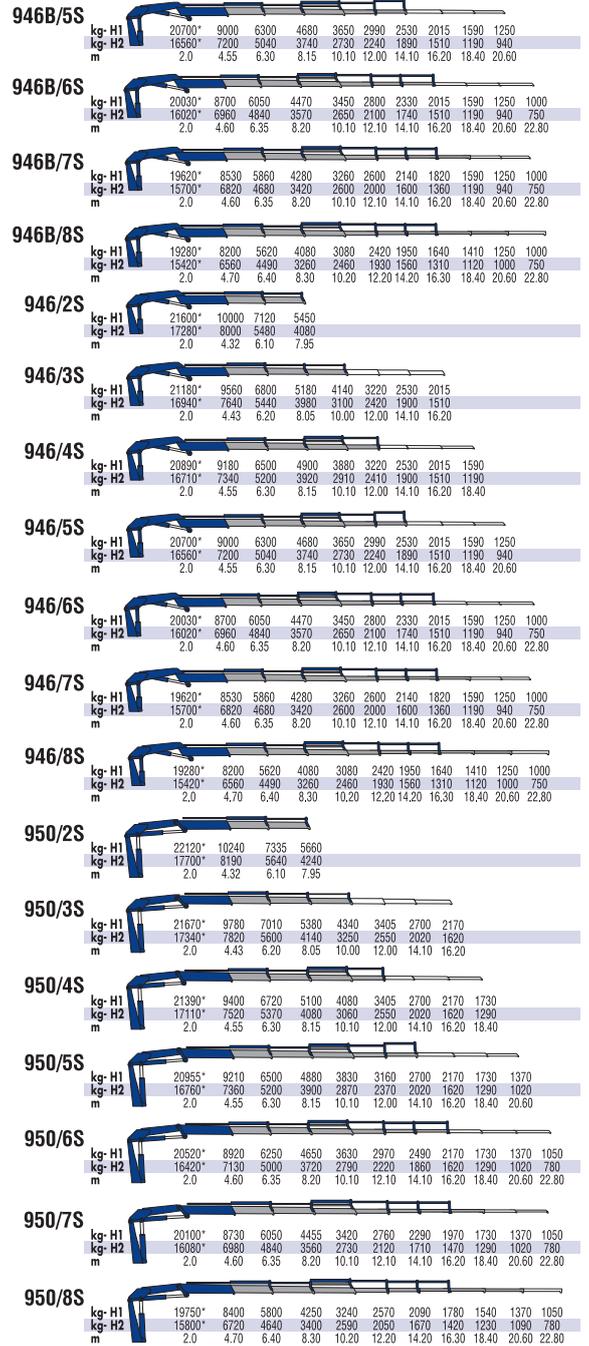


\* Theoretical lifting capacity \*\* Capacity at fixed hook

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
946BFM 5S	-	-	400	4830	300	50	2860x2480 x1345
946BFM 6S	-	-	400	5030	300	50	2860x2480 x1345
946BFM 7S	-	-	400	5220	300	50	2860x2480 x1460
946BFM 8S	-	-	400	5400	300	50	2860x2480 x1460
946FM 2S	43.2	42380	400	4060	300	80	2860x2480 x1325
946FM 3S	-	-	400	4310	300	80	2860x2480 x1325
946FM 4S	-	-	400	4590	300	80	2860x2480 x1325
946FM 5S	-	-	400	4830	300	80	2860x2480 x1345
946FM 6S	-	-	400	5030	300	80	2860x2480 x1345
946FM 7S	-	-	400	5220	300	80	2860x2480 x1460
946FM 8S	-	-	400	5400	300	80	2860x2480 x1460
950FM 2S	44.2	43370	400	4100	320	80	2860x2480 x1325
950FM 3S	-	-	400	4350	320	80	2860x2480 x1325
950FM 4S	-	-	400	4630	320	80	2860x2480 x1325
950FM 5S	-	-	400	4870	320	80	2860x2480 x1345
950FM 6S	-	-	400	5070	320	80	2860x2480 x1345
950FM 7S	-	-	400	5260	320	80	2860x2480 x1460
950FM 8S	-	-	400	5440	320	80	2860x2480 x1460

## LOAD DIAGRAMS



\* Theoretical lifting capacity



# MARINE CRANES

POWER ON SEA & LAND

# ARTICULATED WITH SLEWING RING CRANES - VR

## Strong and compact

Knuckle, telescopic and foldable cranes with Slewing Ring and double linkage.

Resistant, strong and reliable, making them ideal for heavy lifting jobs when installed in tug-boats, large vessels or quay sides. Space saving thanks to round base.



Model no: VR75M

## FEATURES

65 - 85 tm class

Counterbalance valves directly mounted on each cylinder

Hexagonal shaped telescopic booms stronger and self-aligning, offering greater load handling control

Emergency control placed on the footboard, available with crane in RDC version

Round base with slewing bearing rotation system

Power links

## OPTIONS

Radio Remote Control (RDC)

Winch

## SLEWING BEARING

Driven by up to three planetary motors, the system has very low play for high precision operation.

## TYPICAL APPLICATIONS



FISH FARMING



QUAY SIDE



WORKBOATS



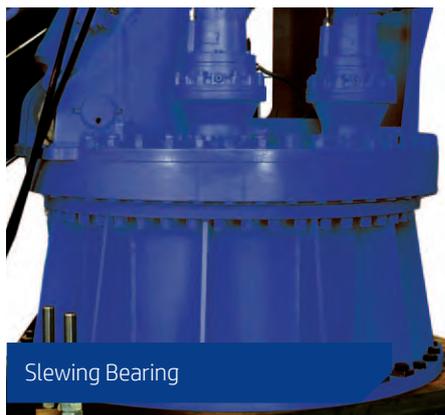
LAKES & RIVERS



NAVY



Model No: VR65M



Slewing Bearing

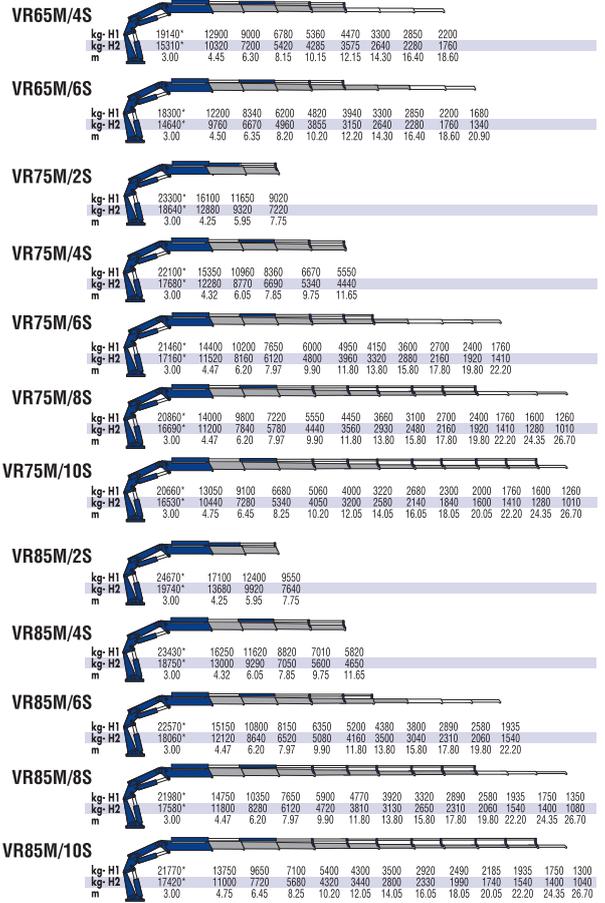


Model No: VR75M

## TECHNICAL DATA

Models	Lifting Moment (tm)	Lifting Moment (daNm)	Slewing Angle	Weight (kg)	Working Pressure (bar)	Max. Oil Flow (l/m)	Size BxHxS (mm)
VR65FM 4S	57.4	56310	Endless	5000	290	70	2520x2635 x1415
VR65FM 6S	-	-	Endless	5500	290	70	2520x2635 x1415
VR75FM 2S	69.9	68580	420 no radio Endless radio	6185	295	80	2655x2490 x1575
VR75FM 4S	-	-	420 no radio Endless radio	6835	295	80	2655x2490 x1735
VR75FM 6S	-	-	420 no radio Endless radio	7435	295	80	2655x2490 x1735
VR75FM 8S	-	-	420 no radio Endless radio	7935	295	80	2720x2490 x1755
VR75FM 10S	-	-	420 no radio Endless radio	8335	295	80	2780x2490 x1755
VR85FM 2S	74.0	72600	Endless	6040	315	100	2655x2490 x1575
VR85FM 4S	-	-	Endless	6690	315	100	2655x2490 x1735
VR85FM 6S	-	-	Endless	7290	315	100	2655x2490 x1735
VR85FM 8S	-	-	Endless	7790	315	100	2720x2490 x1755
VR85FM 10S	-	-	Endless	8190	315	100	2780x2490 x1755

## LOAD DIAGRAMS



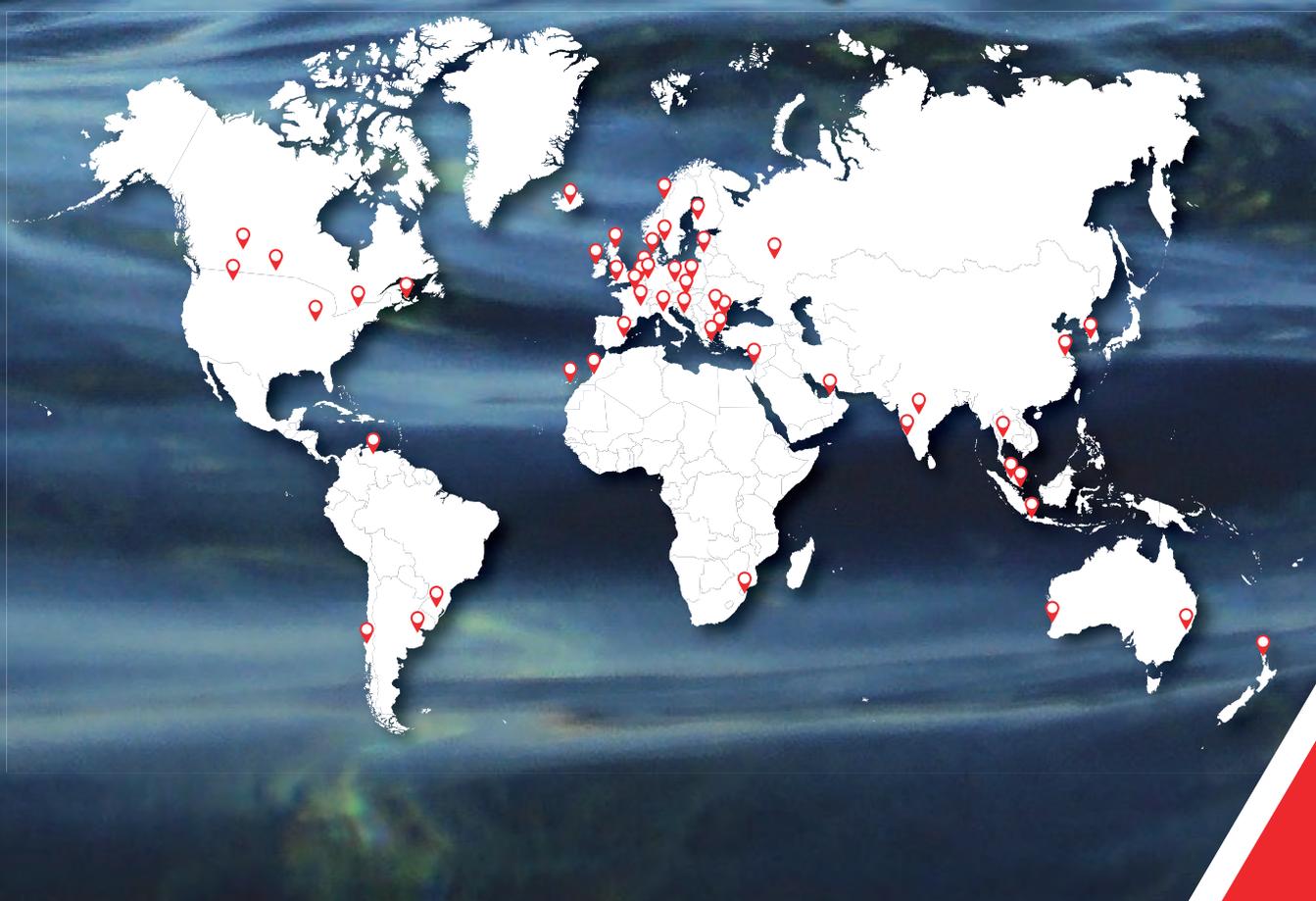
\* Theoretical lifting capacity



Model No: VR85M

- POWER ON SEA & LAND -

Global Sales and Service Network



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MARINE CRANES BY HYVA



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