Knuckle Boom Cranes

Compact and intelligent

9-12 tm

- power to lift.
HMF’s series of knuckle boom cranes has been developed for the day-to-day lifting tasks on which most hauliers base their business: Grab application work, delivery of building materials, handling of pallet goods and much more. If you need a light, compact and reliable crane which is able to stand the strain, then choose an HMF knuckle boom crane.

**Low Tare Weight and long Reach**

The popular cranes in the 9 through 12 tm range combine many excellent features in a simple, compact and sturdy crane. The cranes unite high working speed, low tare weight and long reach with HMF’s unflinching and uncompromising quality down to the last detail. All models are available with up to five hydraulic extensions, and the model range 1100-K, 1110-K, 1220-K and 1230-K gives you an impressive 15 metre reach.

**Genuine Over-bending**

The cranes are equipped with HMF’s over-bending of 15°, offering you a lot of power to lift the maximum permissible load in the entire working area of the crane.

**Minimum Space Requirements – high Lifting Capacity**

All HMF’s 9-12 tm cranes are characterized by very limited chassis space requirements - down to approximately 75 centimetres when folded. This ensures more space on the truck body and a more efficient working day.

**Inner Strength**

All HMF cranes have been designed and developed without compromising quality and with the highest attention to detail, both visible and invisible. For example, all hydraulic hoses are fed internally to avoid damage and wear and to withstand adverse weather conditions. All individual parts, right down to the smallest, have been executed in the best materials on the market in order to ensure a crane that is able to cope with the demands you place on it - and more. Year after year.

**3 Ranges for your Requirements**

Knuckle boom cranes are available in three ranges, each with their own characteristics - K, KX and KX+.

**A healthy Business**

The 9-12 tm cranes can be equipped with a link arm system at the column and an oil regeneration system in all extension cylinders. This ensures you lightning-quick and smooth movements – in short; you can deliver the goods to the customer quickly and precisely, without having to worry about anything else than running a healthy business.
The K Range

The K range is the basic solution if you need a crane to handle the most frequent day-to-day lifting tasks. This could, for instance, be transportation, loading, and unloading building materials. In this case you need a crane which is simple to operate, and which has ample space on the truck body. You might not need the most sophisticated features for crane control, nor the highest lifting capacity. A K range crane would be ideal for this type of work.

The KX Range

The KX range is the solution for you, if you place heavier demands on manouevrability and lifting capacity. The KX cranes provide you with extra lifting capacity, a higher level of safety, and greater manouevrability thanks to HMF’s HDL-h speed adaptation system. These cranes are perfect for jobs where both high lifting capacity and simple, smooth crane control are required - for example for grab application work.

The KX+ Range

The KX+ range is the king amongst the knuckle-boom cranes. It is equipped with all imaginable safety equipment and with HMF’s HDL-d control valve, which provides regular speed reduction when the crane reaches the limit of its lifting capacity.

KX+ cranes are equipped with radio remote control (RC), offering the operator all imaginable advantages and freedom of action. These cranes are available with winch and many optional extras for the demanding jobs where the crane must be able to work in high positions and at long reach.

KX+ cranes can furthermore be supplied with HMF’s EVS stability safety system (Electronic Vehicle Stability), which is the most sophisticated system of its kind on the market. Equipped with a doubled EVS stability safety system, this crane is your safest choice, also when working with a personnel basket (MEWP) in high positions.
Accessories and Optional Extras

**180° swing-up Stabilizer Legs**
Apart from the 180° swing-up stabilizer legs, the crane is also available with radio remote controlled stabilizers.

**HMF EVS**
EVS is HMF’s unique stability safety system which actively monitors the stability of the vehicle and ensures that the crane operator can concentrate on the job. EVS can be installed on KX+ cranes.

**HMF InfoCentre**
The HMF InfoCentre is a display on the radio remote control box. The HMF InfoCentre continuously informs the operator about the current load moment and condition of the crane. It provides the perfect utilization of the many possibilities the crane provides.

### Survey of Models and Options

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**Up to 5 hydraulic Extensions**
See the table on p. 7 for lifting capacity.

**Manual extensions**
Manual extensions are available for all hydraulic extensions. The manual extensions are protected by the HCL 5300 Safety System.

**Multi-Coupling**
A multi-coupling makes it easy and simple to mount and dismount hydraulic accessories.

**Extra Valves**
1 or 2 extra valves in hose guides (out to 15 m) or in internal hose reels (out to 15 m).
The HMF Single power plus Link arm System is well suited for lifting tasks at moderate heights. The system provides the crane with a very high working speed when the main boom is in extreme position.

The HMF Dual power plus Link arm System provides excellent lifting capacities in the entire working area of the crane. A crane with Dual Power Plus is particularly suitable for lifting at long reach and in high positions, as well as for very heavy lifting tasks close to the column.

All HMF cranes are available with different safety solutions, which more than comply with the most rigorous safety requirements and are in conformity with the provisions in the EN 12999.

**Securing of Stability**

**EVS - active Securing of Stability**
EVS is HMF’s unique, intelligent stability safety system which as the only system on the market actively calculates the total stability of the vehicle. It ensures maximum safety and complete utilization of the working area of the crane.

**CYL — Stabilizer Deployment Monitoring System**
The CYL system monitors whether all stabilizer legs are down.

**CYBEL — Stabilizer Deployment Monitoring System**
The CYBEL system monitors whether all stabilizer legs are down and all stabilizer beams are fully extended, ensuring that the crane can be operated safely.

**2CYBEL — Stabilizer Deployment Monitoring System**
The 2CYBEL system monitors whether all stabilizer legs are down and on which side they are down. 2CYBEL allows for the crane to lift 100 % in the side where the stabilizer legs are down.

**2LMB**
The 2-stage LMB is a system monitoring the stability of the vehicle in front of the driver’s cab.

**Protection during Transport**

**HEW — Transport Alarm**
HEW is a system which monitors the transport height of the crane. The system activates a signal in the driver’s cab if the crane is not correctly folded up.

**BEW — Transport Alarm**
BEW activates a signal in the driver’s cab if the stabilizer beams are not in correct transport position. BEW monitors both manual and hydraulic stabilizer beams.

**HMF RCL 5300**
The RCL 5300 is an electronic safety system which is standard on all HMF cranes. The system simultaneously monitors a wide range of parameters such as the load moment of the crane, the current operation and how the operator is handling the crane. The operator can keep track of the condition of the crane on a display, and as the system is available on both sides of the crane, it is easy for the operator to obtain vital on-the-spot information.

**Single or Dual Link Arm System?**

The HMF Single Power Plus Link Arm System is well suited for lifting tasks at moderate heights. The system provides the crane with a very high working speed when the main boom is in extreme position.

The HMF Dual Power Plus Link Arm System provides excellent lifting capacities in the entire working area of the crane. A crane with Dual Power Plus is particularly suitable for lifting at long reach and in high positions, as well as for very heavy lifting tasks close to the column.
Hydraulic Extensions and Lifting Capacity

- Lifting capacity with manual extensions
- Lifting capacity without manual extensions
**Your mobile Business Card**

An HMF crane is an investment in the future. You can be confident that we have designed and developed every single detail from the largest cylinder to the smallest o-ring with an uncompromising focus on quality. The crane is a quality product from inside out - because we are also aware that it is your mobile business card. It needs to keep a good appearance for many years to come, right through to the day when you wish to sell it again. Therefore we attach great importance to providing the crane with a quality coating using the environmentally beneficial EQC surface treatment. This ensures a crane that is corrosion-resistant and that can cope with intensive use during day-to-day work.

At HMF we have one of the world's most modern paint facilities, where your crane is given an extremely smooth and glossy surface. We guarantee you that you will not go unnoticed.

**Immaculate Finish - Year after Year**

HMF does not compromise on the surface treatment. We guarantee that you obtain the best imaginable paint quality – a quality that never fades and that can withstand damage. A crane that is intensively used must be able to withstand the hardest wear; the paint must not flake off or show signs of crazing, and the surface must remain as undamaged as possible for the entire life span of the crane. This is made possible thanks to HMF’s Zetacoat pretreatment followed by EQC powder coating, ensuring that corrosion never takes over.

**Corrosion and Wear and Tear**

All painted surfaces are coated with EQC surface treatment, and all hydraulic pipes are finished with Zistaplex coating. All hydraulic components are coated with a zinc-nickel surface treatment to be able to pass the strict 720 hours salt spray test (EN/ISO 9227 standard), and all parts of stainless steel are corrosion-resistant. This means that all the vital components of the crane comply with corrosion class C4 (marine use), which is an absolute advantage when the crane is driving on the road during winter.

**Tested to the Limit**

An HMF crane is never released until it has been tested again and again. All crane series are put on the test bench, where the crane is loaded up to at least 125% of its nominal capacity in all positions. Not just once, but 145,000 times! The crane is also exposed to a dynamic test in which the durability of all components is tested. This is followed by a static test which tests the crane’s capability to resist deflection, and finally by a functional test, in which all crane systems are tested again and again. Not until we are satisfied - and that requires a lot - do we release the crane for duty.
Grow the Business

HMF is one of the world’s leading manufacturers of truck-mounted loader cranes.

From the modest beginnings in the post-war years, where our founder, Arne Bundgaard Jensen, bought a bicycle repair shop, through to today where HMF is a high-technological, international company where the focus is still on one single thing: To make our best every single time and every single day.

Today HMF manufactures cranes, specialised vehicle bodies, tail lifts and transport equipment, which are sold and serviced in more than 50 countries worldwide.

HMF is known worldwide for its quality cranes in all sizes from the small Handy cranes to the giants with a lifting capacity of up to 85 tonnemetres. All of it in the outstanding quality we have always stood for.

No matter where in the world you are, HMF’s cranes with the well-known blue and red logo stand for outstanding quality, finish, life span and strength.

We call it - power to lift.