

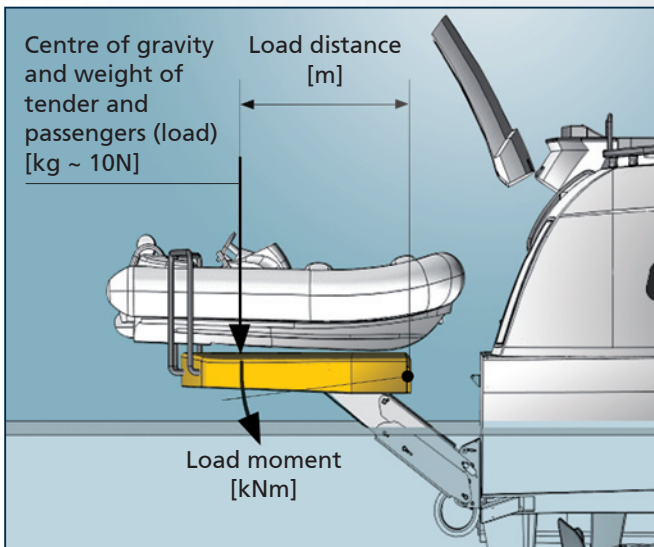
Attributes Bär Marinelift



Load moment

The load moment is the most important factor in the dimension of the Marinelift and the stern. Usually, just the load on the lift is mentioned - more often this is also just the load to be lifted by the lifting mechanism without platform. In the following this value is named (gross) load.

The crucial factor for the user is the weight the Marinelift is capable of lifting with the platform. This value is named (net) load.



A valid comparison value in one figure (dimension) is the load moment [kNm]:

$$\text{Load [kg ~10N]} \times \text{Load distance [m]} = \text{Load moment [kNm]}$$

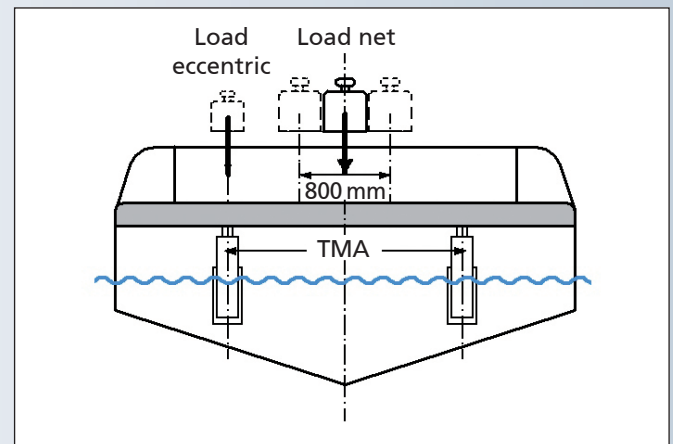
$$400\text{kg} \sim 4000\text{N} \times 0,75 \text{ m} = 3000 \text{ Nm} = 3 \text{ kNm}$$

Marinelift type	Load moment	Load (net)	Load distance
BM 3- 400	3 kNm	400 kg	0,75 m
BM 4- 600	4 kNm	600 kg	0,65 m
BM 6- 700	6 kNm	700 kg	0,85 m
BM 12-1200	12 kNm	1200 kg	1,00 m

In the naming of the Bär Marinelift there is in the first place the load moment and in the second the load (both may appear as a rounded value).

FFor Bär the load moment and consequently the mentioned load always refer to the afore mentioned load (net) - thus the load to be lifted by the Marinelift on the platform. The actual load moment or the load that the Bär Marinelift lifting mechanism may lift, is therefore higher!

The following platform weights and eccentric loads are considered:



TMA = Distance between arm centres

Marinelift type	Load (net)	Platform weight	Load (gross)	Load eccentric
BM 3-400	400 kg	100 kg	500 kg	-
BM 4-600	600 kg	100 kg	700 kg	-
BM 6-700	700 kg	200 kg	900 kg	400 kg
BM 12-1200	1200 kg	300 kg	1500 kg	800 kg

A further factor for the load of the Marinelift and the stern is the swell. It depends on the platform size and the diving depth. This is why we recommend limit the platform size to the Marinelift type.

The mentioned platform sizes beginning with the BM 6-700 imply that the platform disposes of at least 25 % of free through-flow openings. If deeper platforms are desired, the additional surface needs to be free a through-flow surface!

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In practice the following requirements can be fulfilled:

Marinelift type	Marinelift series	Weight complete with platform [kg]	Marinelift use				Platform			Yacht size [ft/m]
			Use	Load [ca. kg]		Surface gross [m²]	Width max. [m]	Depth max. [m]		
				Boat	Person					
BM 3-400 S/...	Standard	75	Swimming lift, jetski horizontal, tender boat alongside*	150	80	3	3,0	0,9	26/8 to 42/13	
BM 3-400 SP/...	StandardPlus		Swimming lift, jetski horizontal	400						
BM 4-600 S/...	Standard	90	Swimming lift, jetski horizontal, tender boat alongside*	200	80	4	3,8	1,1		
BM 4-600 SP/...	StandardPlus		Swimming lift, jetski horizontal	600						
BM 6-700 S/...	Standard		Swimming lift, jetski horizontal, tender boat alongside*	300	80	7	-	1,6	30/9 to 60/19	
BM 6-700 SP/...	StandardPlus		Swimming lift, jetski horizontal, tender boat horizontal	700						
BM 6-700 SLG/...	SliderBoat		Swimming lift, jetski horizontal, tender boat alongside	300	80					
BM 6-700 SLP/...	SliderParty		Swimming lift, jetski horizontal, tender boat horizontal, party platform	700						
BM 12-1200S/...	Standard		Swimming lift, jetski horizontal, tender boat alongside	1200	12	-	2,2	from 55/17		
BM 12-1200SP/...	StandardPlus		Swimming lift, jetski horizontal, Beiboot quer							
BM 12-1200SLG/...	SliderBoat		Swimming lift, jetski horizontal, tender boat alongside							
BM 12-1200SLP/...	SliderParty		Swimming lift, jetski horizontal, tender boat horizontal, party platform							

*incl. special equipment - currently not available