

## Review of LM 28

Home  
 Advertisements  
 Yacht Database  
 Naval Architects  
 Owner's Contacts  
 Brokers / Dealers  
 Crew/Yacht list  
 Links  
 Engines  
 Weather

Sign On / Edit  
 Sign Off

Webmaster  
 Contact us  
 Feedback  
 🚩 FAQ



LM 28 anno 1986. LM 28 'Pegasus' af Vejle. Fotograferet august 2003.



### Basic specs.

LOA:	8.95m / 29.36ft
Hull length:	8.75m / 28.71ft
LWL:	7.50m / 24.61ft
Beam:	2.90m / 9.51ft

The LM 28 is a motorsailer designed by the Danish maritime architect [Bent Juul Andersen](#) in the early eighties. Several hundred boats have been produced. The LM 28 is built by the Danish yard [LM Glasfiber A/S](#).

Looking for a new boat? [Find a LM 28 or similar boat for sale](#)

### Hull

The hull is made of hand laid fibreglass while the deck is made of fibreglass. Generally, a hull made of hand laid fibreglass requires only a minimum of maintenance during the sailing season. And outside the sailing season, just bottom cleaning and perhaps anti-fouling painting once a year - a few hours of work, that's all. The deck is a double deck which improves the indoor climate.

### Interior

The interior is like most other boats made of teak. The boat is equipped with 2 cabins, 5 berths, a galley and toilet facility.

### Rig

The boat has a masthead rig. The advantage of a masthead rig is its simplicity and the fact that a given sail area - compared with a fractional rig - can be carried lower and thus with less heeling moment.

**Keel**

The keel is made of iron. Many people prefer lead keel in favour of iron. The main argument is that lead is much heavier than iron and a lead keel can therefore be made smaller which again result in less wet surface, *i.e.* less drag. In fact iron is quite heavy, just 30% less heavy than lead, so the advantage of a lead keel is often overstated. The boat can enter even shallow marinas as the draft is just about 1.35 - 1.45 meter (4.43 - 4.73 ft) dependent on the load. See [immersion rate](#) below.

**Engine**

LM 28 is typical equipped with an inboard Volvo Penta 2003 diesel engine at 28.0 hp (20 kW), which gives a max speed about 6.4 knots. The transmission is a saildrive. The fuel tank which is made of stainless steel has a capacity of 140 liters (36 US gallons).

**Sailing characteristics**

This section covers widely used rules of thumb to describe the sailing characteristics. Please note that even though the calculations are correct, the interpretation of the results might not be valid for extreme boats.

**Stability and Safety**

[What is Capsize Screening Formula \(CSF\)?](#)

The capsize screening value for LM 28 is 1.81, indicating that this boat could - if evaluated by this formula alone - be accepted to participate in ocean races.

**Theoretical Maximum Hull Speed**

[What is Theoretical Maximum Hull Speed?](#)

The theoretical maximal speed of a displacement boat of this length is 6.6 knots. The term "Theoretical Maximum Hull Speed" is widely used even though a boat can sail faster. The term shall be interpreted as above the theoretical speed a great additional power is necessary for a small gain in speed.

**Immersion rate**

The immersion rate is defined as the weight required to sink the boat a certain level. The immersion rate for LM 28 is about 145 kg/cm, alternative 816 lbs/inch.

Meaning: if you load 145 kg cargo on the boat then it will sink 1 cm.

Alternative, if you load 816 lbs cargo on the boat it will sink 1 inch.

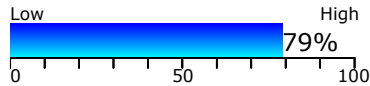
**Sailing statistics**

This section is statistical comparison with similar boats of the same category. The basis of the following statistical computations is our unique database with more than 22,000 boat types and 350,000 data points.

**Motion Comfort Ratio**

[What is Motion Comfort Ratio \(MCR\)?](#)

The Motion Comfort Ratio for LM 28 is 27.4.

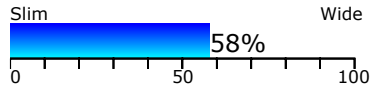


Comparing this ratio with similar sailboats show that it is more comfortable than 79% of all similar sailboat designs. A comfort value significantly above average.

**L/B (Length Beam Ratio)**

[What is L/B \(Length Beam Ratio\)?](#)

The l/b ratio for LM 28 is 3.02.

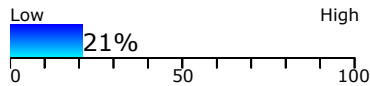


Compared with other similar sailboats it is more spacy than 58% of all other designs. It seems that the designer has chosen a slightly more spacy hull design.

**Ballast Ratio**

[What is a Ballast Ratio?](#)

The ballast ratio for LM 28 is 35%.

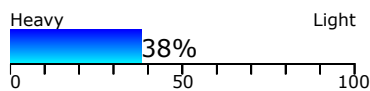


This ballast ratio shows a righting moment that is higher than 21% of all similar sailboat designs. A righting moment (ability to resist heeling) significantly below average.

**D/L (Displacement Length Ratio)**

[What is Displacement Length Ratio?](#)

The DL-ratio for LM 28 is 277 which categorizes this boat among 'medium weight cruisers'.

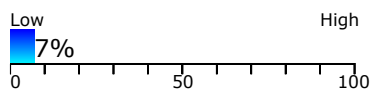


38% of all similar sailboat designs are categorized as heavier. A heavy displacement combined with smaller water plane area has lower acceleration and is more comfortable.

**SA/D (Sail Area Displacement ratio)**

[What is SA/D \(Sail Area Displacement ratio\)?](#)

The SA/D for LM 28 with ISO 8666 reference sail is 11.4, with a 135% genua the SA/D is 13.5.

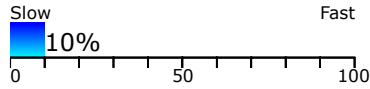


The SA/D ratio indicates that it is faster than 7% of all similar sailboat designs in light wind. Don't panic! It is expected that motor sailers has a low SA/D value as this is the natural consequence of the design combining sailing and motor boat characteristics.

**RSP (Relative Speed Performance)**

What is Relative Speed Performance?

The Relative Speed Performance for LM 28 is 10



The relative speed performance is 10 which means that it is faster than 10% of all similar sailboat designs. As this boat is a motor sailer, it is expected that the performance of a motor sailer for sail alone is lower than a dedicated sailboat.

**Maintenance**

**Bottom Paint**

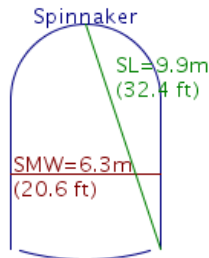
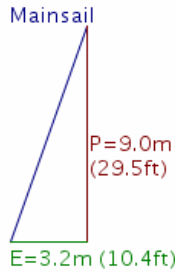
When buying anti-fouling bottom paint, it's nice to know how much to buy. The surface of the wet bottom is about 24m<sup>2</sup> (258 ft<sup>2</sup>).

Based on this, your favourite maritime shop can tell you the quantity you need.

Note: If you use a paint roller you will need more paint than if you use a paintbrush.

**Rig**

Dimensions of sail for masthead rig.



Are your sails worn out? You might find your next sail here: [Sails for Sale](#)

If you need to renew parts of your running rig and is not quite sure of the dimensions, you may find the estimates computed below useful.

**Guiding dimensions of running rig**

Usage                      Length                      Diameter

Mainsail	23.8	(78.1	8	(5/16
halyard	m	feet)	mm	inch)
Jib/genoa	23.8	(78.1	8	(5/16
halyard	m	feet)	mm	inch)
Spinnaker	23.8	(78.1	8	(5/16
halyard	m	feet)	mm	inch)
Jib sheet	8.8	(28.7	10	(3/8
	m	feet)	mm	inch)
Genoa	8.8	(28.7	10	(3/8
sheet	m	feet)	mm	inch)
Mainsheet	21.9	(71.8	10	(3/8
	m	feet)	mm	inch)
Spinnaker	19.2	(63.2	10	(3/8
sheet	m	feet)	mm	inch)
Cunningham	3.2	(10.5	8	(5/16
	m	feet)	mm	inch)
Kickingstrap	6.4	(21.0	8	(5/16
	m	feet)	mm	inch)
Clew-	6.4	(21.0	8	(5/16
outhaul	m	feet)	mm	inch)

We always hunger for new photos. If you can [contribute with photos](#) for LM 28 it would be a great help.

If you have any comments to the review, improvement suggestions, or the like, feel free to [contact us](#). Criticism helps us to improve.

### References

[Ref 1]: [ISO 8666 Small craft — Principal data.](#)

[Ref 3]: [ISO 12215-5 Small craft — Hull construction and scantlings.](#)

---

YachtDatabase.com    Terms of Service  
 History                Privacy Policy  
 Copyright © 2023      Cookies  
 CVR: 67 19 77 12

[Contact us](#)  
[FAQ](#)   
[Colophon](#)

---