

EverEst™ MediPad

The MediPad low friction bearing, made of a self lubricating polymer composite, is ideal for use on container vessels, multipurpose vessels with large hatch covers as well as on bulk and OBO ships. A large number of MediPad installations have shown very good results over the last 15 years. As with all types of EverEst™ bearings, the MediPad is adjustable in height by the use of shims. This arrangement is advantageous in situations where the rubber packing is still flexible, but has acquired a permanent set.

Construction and operation

The MediPad is a unit consisting of the bearing pad (1), its holder (2), with shims (3) in between, and is mounted either on the hatch cover or on the coaming.

The shims are incorporated to allow adjustment of the bearing, and can be replaced with either thinner or thicker ones depending on wear-down or if the seal has been renewed. The hatch cover can be lowered to obtain the required compression in the hatch cover seal.

The holder (2) is welded to the supported part of the coaming. The bearing pad is kept in place by pins (4) either side of the holder. A stainless steel mating plate (5), part of a MediPad unit is welded opposite to the bearing pad on either coaming or hatch cover side.

As the conditions for a cargo vessel change continuously – because of weather and sea states, as well as inertia of cargo carried on the hatch cover – varying forces will occur in the bearing. There is also likely to be a deflection of the hatch cover beams which will, to some extent, impose on the pad a slight slope transversally to the ship.

These unpredictable forces combined with the movements

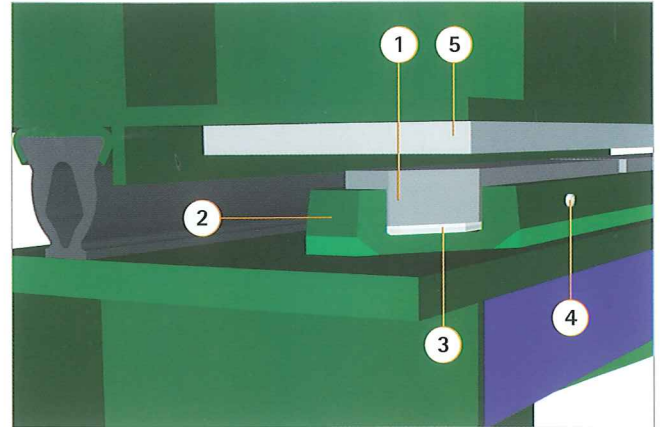
between bearing and mating plate caused by hogging and sagging of the hull, and ships' list and trim will be taken care of by the MediPad low-friction, wear-resistant, sliding bearing.

The mating plate is made of stainless steel in order to prevent it corroding and to ensure its ability to slide easily over the bearing pad over a long period of time.

Spare / replacement pads

In accordance with TTS standards, spare parts are identified by an article number system. The standard of pad size itself is based on a multiple of one pad length.

As well as the employment of the new bearing pad range on new hatch covers, TTS can offer tailor-made bearing pads as direct replacements for other units already in use on existing vessels. Replacement pads may be of any thickness and used in combination with tailor-made holder, shims and mating plate, as necessary. When supplying TTS replacement pads, as much of the existing bearing pad system as possible is used, guaranteeing the lowest possible cost for conversion.



▲ MediPad shown mounted on hatch coaming

Typical information for ordering EverEst MediPad

Article No.	Denomination	Material (JIS/DIN)
1	.....Bearing pad	..... Polymer
2	.....Holder	..... Steel
3	.....Shims	..... Stainless steel
4	.....Pin	..... Stainless steel
5	.....Mating plate	..... Stainless steel

Principal statistics

Type of bearing	..... EverEst™ MediPad
Properties	..... Replaceable adjustable low-friction polymer bearing pad
Adjustment	..... Shims stainless steel – flexible runner on request
Pad material	..... Polymer composite
Material of mating plate	..... Stainless steel
Required rest support roughness	..... 0.5µm
Max. allowable load (N/mm ²)	..... 25
Compressive strength (N/mm ²)	..... 130
Max. allowable velocity (m/min)	..... 7
Max. allowable velocity PV (N/mm ² m/min)	..... 1000
Temperature limit (°C)	..... 125
Friction coefficient	..... 0.13 – 0.14
Flammability	..... Self-extinguishing

Max. load with forces acc. to individual class, see paragraph GL. All values for guidance only.