

## DLR 250 DYNAMIC LOAD REDUCER

The TENSA Dynamic Load Reducer (DLR) is used for offshore lifts to reduce the dynamic loads associated with lifts from moving vessels.

The DLR 250 is a fluid damped air spring with spring rate, energy absorption and damping tailored to absorb the energy from a moving load and bring it gracefully to rest with minimal recoil. With the DLR, the dynamic load factor for boat lifts can be significantly reduced, allowing the crane capacity to be increased by 50% or more depending on the sea state and load. The benefit can be determined once the specific crane design and operating parameters, load and seastate have been agreed.

Design is in accordance with API spec 2C Specification for Offshore Cranes and Lloyds Register Code for Lifting Appliances in a Marine Environment as well as other relevant API and AS codes covering the mechanical construction. LR certification is standard. Purchasers may request design and fabrication approval from DnV, ABS or other recognized certification organization at additional cost.

The TENSA DLR is rugged and simple to set up and use.

The TENSA DLR series are modular and can be adapted quickly to different strokes and operating conditions. 2 units can be used in parallel to double the capacity. Additional accumulators can be added to further improve the operating performance for extreme conditions.

Dynamic lift capability can also be added if additional lift speed is needed to lift the load clear of the floating vessel. This utilizes an external air source. TENSA has a rental air system suitable for use with the DLR250.



dlr250 v5

### SPECIFICATIONS:

- SWL for on platform lifts:** 250 tonnes
- Testing:** load test to 333t
- Operating Stroke:** 3m standard, up to 6m on request
- Hydraulic Fluid:** Glycol/water based
- Overall Dimensions:** 5000 x 600 x 600
- End Connections:** to suit 250Te shackle
- Weight:** approx 5500 kg
- Surface Treatment:** Marine coating
- Operating Temperature:** 0° C-+50° C (-10° C opt)

### Typical crane capacity increase (Hsig = 2m)

Radius (m)	Crane Only (t)	Crane with DLR (t)
12	205	250
20	183	227

\*\* The above are indicative for a fixed platform to floating vessel lift and subject to confirmation of crane design and operating parameters