



**DELLNER
BUBENZER**

STOPPING TURNING LOCKING



STOPPING



TURNING



LOCKING



DELLNER BUBENZER AB

Teknikergatan 1 SE-781 70 BORLÄNGE SWEDEN

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DELLNER BUBENZER

Dellner Bubenzer is one of the world's leading suppliers of brakes and related power transmission products for the industrial, marine, oil and gas, and wind energy markets, and has been at the forefront of development and technical innovation ever since the start.

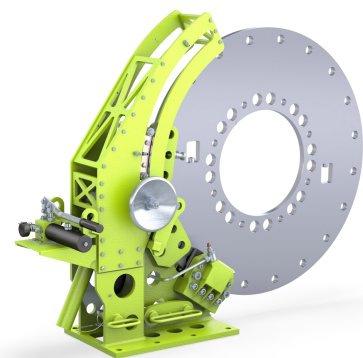
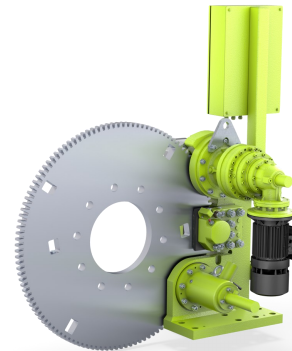
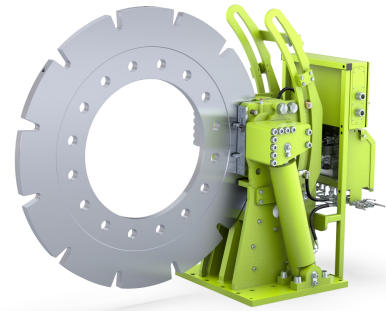
Dellner Bubenzer takes pride in supplying excellent support from request throughout the product's lifetime.

During the years Dellner Bubenzer has designed and manufactured solutions to various applications.

Stopping, Turning and Locking (STL) systems are precision engineered and fully modular, making it possible to choose from the functions to create a system which fits your application:

- Individual Stopping, Turning or Locking functions
- Dual functions - Stopping and Turning / Stopping and Locking / Turning and Locking
- Complete STL-System with all functions
- Fully automatic control
- Semi-automatic control
- Fully manual control

Integration to vessel's systems allows the operator to have full control of the propulsion line STL-Systems from the bridge. Alternatively STL-System can have fully manual controls with total independency from external power sources.



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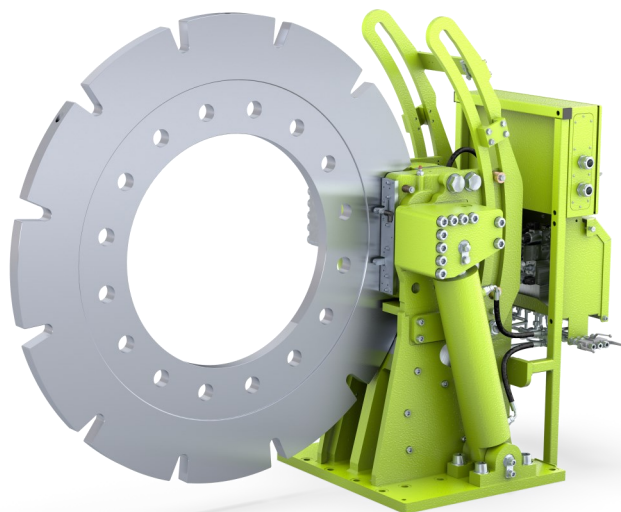


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Stopping, Index Turning and Locking

Advantages with Dellner Bubenzer STL-Systems

- Increased personnel safety during maintenance
- Easy engagement and disengagement even with residual forces present
- Well proven and reliable design
- Turning function is index turning with hydraulic cylinders
- Balanced rotational lock possible, ensuring no residual forces for the shafts or bearings
- Less induced drag in propellers
- Enables maintenance work on locked propeller shafts while sailing
- Can be designed to suit Naval applications
- Controlling can be done fully remotely, locally with push button interface, or as combination of the two controls
- Low maintenance during product's lifetime



Suitable applications

The electro-hydraulic powered index STL could be a preferred selection in mid-range to high-torque applications when fully automatic operations are required and/or when manual operating has limited possibilities.



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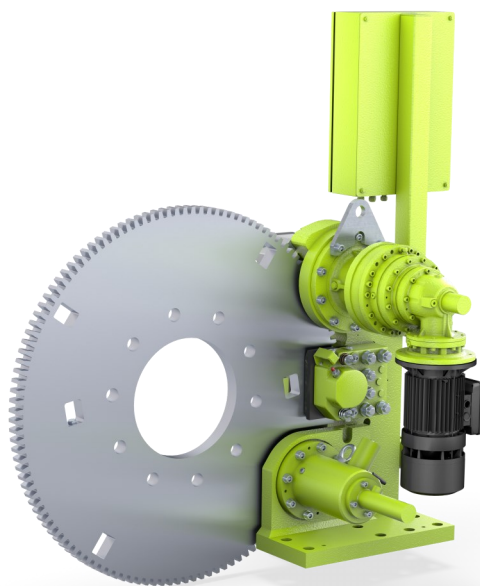
Stopping, continuous Turning and Locking

Advantages with Dellner Bubenzer STL-Systems

- Increased personnel safety during maintenance
- Easy engagement and disengagement even with residual forces present
- Well proven and reliable design
- Turning function is continuous turning with electric motor and gearbox
- Balanced rotational lock possible, ensuring no residual forces for the shafts or bearings
- Less induced drag in propellers
- Enables maintenance work on locked propeller shafts while sailing
- Can be designed to suit Naval applications
- Controlling can be done fully remotely, locally with push button interface, or as combination of the two controls
- Low maintenance during product's lifetime

Suitable applications

The electric powered continuous STL could be a preferred selection in low-range to mid-range torque applications when a continuous turning operation is required and/or when manual operating has limited possibilities.



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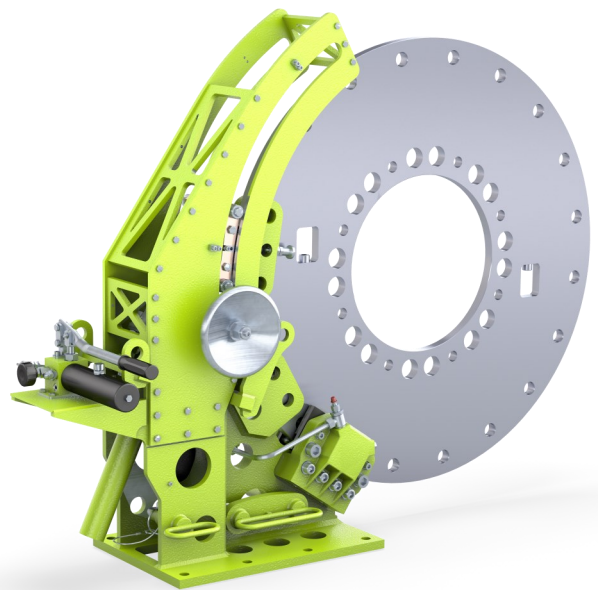
Stopping, Index turning and Locking, fully manual

Advantages with Dellner Bubenzer STL- Systems

- Increased personnel safety during maintenance
- Easy engagement and disengagement even with residual forces present
- Well proven and reliable design
- Turning function is indexed turning with fully manual control
- Balanced rotational lock possible, ensuring no residual forces for the shafts or bearings
- Less induced drag in propellers
- Enables maintenance work on locked propeller shafts while sailing
- Can be designed to suit Naval applications
- Controlling is done fully locally, with provision for instruments for status detection (interlock)
- Fully independent from external power sources
- Low maintenance during product's lifetime

Suitable applications

The manual powered index STL could be a preferred selection in low-range to mid-range torque applications when operation is crucial in a loss of power situation and when manual operation is considered sufficient.



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