



Class II+ Slip-Brake System

Slip-Brake Line Tension Control

Hawser winch designs that attempt to convert a traditional static band-type brake into a slip-type brake generally leave the operator with a system that delivers inconsistent tension release points, poor stick-slip rendering performance, and a system that will not prevent snap-loads. Worse yet is the system that simply releases the brake at a pre-set tension, and then re-engages when that tension-spike is gone, creating an almost certain snap-load condition. That's why Markey "Class II+" Hawser Winches are available with advanced dynamic brake designs and Render/Recover® controls that reliably produce smooth, consistent brake performance for safe ship assist work.



Markey Machinery's slip-brake band assembly is made up of two nearly equal halves with a hydraulic cylinder in the middle that expands to release the brake and compresses to set the brake. By modulating the hydraulic pressure to the cylinder, operators can fine-tune the point at which the brake will slip, but not release. The slip point can be adjusted in two different ways. The "auto-brake tension-adjust" knob at the console controls proportional hydraulic pressure to the cylinder and is set by the operator to a position that is known to provide an appropriate tension slip-point. Alternatively, operators may set a line tension value at the touch-screen display station to advise the system when the brake should slip to render line in a controlled manner.



Slip-brakes are prone to overheating (as is any type of band-brake) and users are advised that the use of this type of brake be limited to ship assist and docking, where the brake-renders are minimal and of short-duration. For vessel escort activities Markey recommends winches featuring multi-disc water cooled slip-brakes, available on Markey's Class III (Asymmetric Render/Recover®) Hawser Winches.



Markey Machinery Company, Inc.

7266 8th Avenue South, Seattle, WA 98108

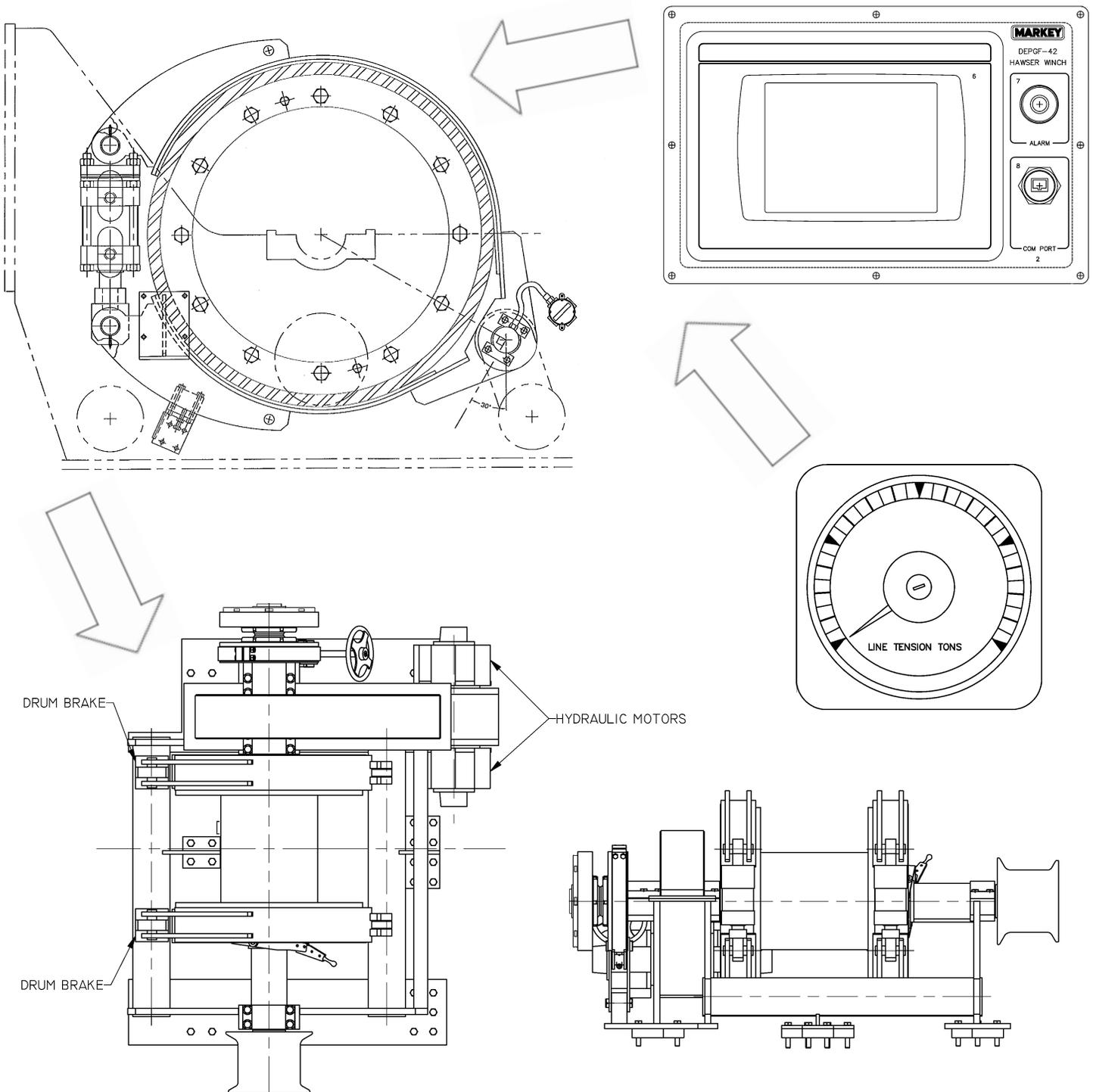
Phone: (206) 622-4697 Toll Free (800) 637-3430 Fax: (206) 623-9839

Email: info@markeymachinery.com

Represented by:

Griffin & Associates - 355 Grow Avenue NW, Bainbridge Island, WA 98110 (USA) Phone: 206-780-0509 Email: bagriffin@griffinassociates.com
JH Menge & Company, Inc - 5825 Plauche Street, New Orleans, LA 70123 (USA) Phone: 504-733-4871 Email: fclatour@jhmenge.com

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Markey's rugged deck equipment is built to the highest quality standards using designs, materials, and processes providing maximum life and minimum maintenance in marine and outdoor applications.



Innovation you can depend on