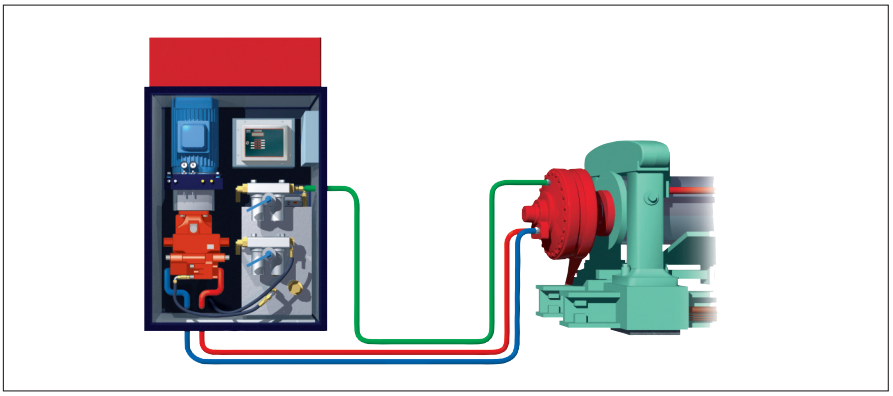
Tough Drives for demanding applications

Direct hydraulic drives

Low speed drives have traditionally been provided by some form of geared reduction with often quite complex arrangements, but now there is an attractive and simple alternative using direct hydraulic drives.



A typical Hägglunds Drive consists of a drive motor selected from the wide range available to give the torque required. A power unit with a variable displacement pump/motor set and necessary tank, filters and instrumentation. A control and monitoring unit and the inter piping. The arrangement is versatile and flexible which enables customisation to suit the exact requirements of the application and environment.

Hagglunds Drives manufacture a very wide range of motors which eliminate the need of gearboxes and present some very interesting benefits on applications like mixers, conveyors and winches. They are compact, simple, highly efficient and user friendly suitable for all environments including ATEX. They give smooth control and can be stopped and started, even reversed as often as you like using the responsive pump control, so you don't have to oversize the electric motor to give high start up torques. There are no costly foundations or alignment problems either. The free standing cabinet style power unit, which can supply several drives can be positioned well away in some convenient place leaving a very compact drive arrangement with minimal maintenance to do and providing stand-by and redundancy if required.

Heavy drums can be driven by one or more drives sharing the load, in this case 4 drives. The pressure in the system inherently balances between the drives and a smooth efficient operation is assured. Hagglunds drives are also used on Digesters, Cement Kilns, Sugar Diffusers and Trommels.

This Engineering Business Cable Plough Winch uses Hagglunds Compact motors and brakes for high power operation to bury cable up to 3m deep below the seabed. With 130 tonnes holding, rendering at 90m/min and constant tension mode for safe handling on the surface or on the seabed.

This is one of four top entry agitators in a plant manufacturing water based emulsion polymers. The power unit is positioned outside the zoned area some 50m away. The main reasons for choosing Hagglunds was to improve manufacturing flexibility, they also had gearbox problems in terms of reliability, physical size and noise on existing plant.

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