



Torsional couplings

HBE torsional couplings are suitable for the assembly on diesel-driven engines and hydraulic pumps. They are economical, dampen vibrations and can be installed by a simple plug-in.

Delta-Flywheel-Coupling

HBE has developed the Delta series Flexible Coupling line for use on diesel-driven hydrostatic machinery and construction equipment. The cost effective Delta single-piece design incorporates a splined and hardened steel hub that is pre-assembled into the glass-fiber reinforced flange. A lithium-based grease supplied with the couplings extend the run time between scheduled maintenance intervals. The Delta coupling attaches to the engine flywheel taking advantages of elastomeric grommets that absorb vibration and allow for axial, parallel and angular misalignment. The Delta series couplings can achieve torque capacities of up to 7000 in.lb (791 Nm).

Advantages

- economical
- single piece design
- plug in capability
- high torque ratings
- torsionally soft – dampens vibration
- no clamping required
- no lubrication required
- accepts spline or straight shafts
- reduced spline fretting

FBA Flywheel Coupling

The FBA (Flywheel-Blind Assembly) coupling is a torsionally soft engine drive that has dampening characteristics. It was designed in response to the demand for a torsionally soft drive system with “plug-in” capability. This flywheel coupling consists of a steel flywheel, a splined steel hub, a rubber vibration damper and especially designed fasteners. Flywheel flanges are available in SAE sizes 6.5 to SAE 14 from stock with many metric options possible. The FBA coupling is used worldwide in gas/diesel engine applications, including aerial lifts, skid steer loaders, excavators, and low mass compressors. The couplings withstand temperatures of up to 212°F.

NV Flywheel Coupling

The overmolded elastomer is available in several standard durometers – but can be tailored to fit the customer’s application. The NV’s single piece design eliminates extra fasteners and expensive assembly operations for blind splined-shaft assembly set-ups. The NV coupling hub is made from a compound of

elastomer and high strength cast iron that provide a sacrificial self-lubricating interface. The damping characteristics of cast iron aid to reduce transmitted vibration as well. The HBE NV series is an affordable way to provide axial, parallel and angular misalignment with the benefits for a torsionally soft coupling.

Advantages

- economical
- plug in capability
- torsionally soft – dampens vibration
- no clamping required
- no lubrication required

Pump mounting plates and spacers /adaptors

- SAE sizes 1 – 6 available
- Other sizes on request
- Material steel
- Coatings on request

Pump mounting housings

HBE engine housings have been designed for a direct connection between diesel engines and hydraulic pumps. They can also be utilized in a wide variety of applications including e.g. generators, compressors, small gear boxes and bearing supports. The housings are manufactured from aluminium, cast iron or spheroidal iron. The aluminium housings offer the best possible strength characteristics with light weight. All housings can be utilized together with our FBA, FL, FH, NV, & Delta (on request) flywheel coupling designs. The pump mounting housings provide a no-hassle assembly of the pump and the motor. It eliminates the use of shims, additional mounting fixtures or foot mounts. As a result, the pump saves the customer's working time and costs and provides a worry free mounting system.

More information on torsional couplings can be found in our product catalogue. For detailed information and technical specifications, please contact our employees.