

INNOVATION

SPOTLIGHT from the brands of Altra Industrial Motion Corp.



UNIQUE STROMAG COMBINATION COUPLING/CLUTCH ASSEMBLIES REDUCE COST, FOOTPRINT AND WEIGHT

Equipment and machinery OEMs worldwide are continually challenged to design cost-effective drivetrains that fit in ever-shrinking spaces. In the case of marine propulsion designers, reducing overall system weight is also a critically important consideration.

Sourcing individual drivetrain couplings and clutches can be time consuming as marine engineers hold interface clarification meetings with elastic coupling and clutch suppliers while also ensuring that quality, reliability, efficiency, vibration, footprint, weight and cost requirements are met.

INNOVATIVE, COMPACT 2IN1 COUPLING/CLUTCH COMBINATIONS PROVIDE PERFORMANCE AND CONVENIENCE ADVANTAGES

As the only major power transmission component manufacturer in the world to offer both couplings and clutches, Stromag is uniquely positioned to respond to the growing demand for more innovative drivetrain solutions.

Stromag engineers recently designed a new line of unique, modular 2in1 coupling/clutch combination assemblies. The pre-engineered combinations feature an existing Stromag flexible coupling configured with an existing switchable clutch model for a compact, single-piece solution.

Depending on the application, various models from the performance-proven line up of Stromag couplings and clutches are combined for electric, hydraulic or pneumatic actuation.



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 **Stromag**
Altra Industrial Motion

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A Stromag 2in1 Periflex® VN/MWU Coupling/Clutch was recently installed on the hybrid propulsion system onboard Switzerland's first climate-neutral cruise ship with energy consumption that is 20% less than a conventional ship.

UNIQUE, PRE-ENGINEERED COMBINATIONS REPLACE THE NEED FOR EXPENSIVE CUSTOM SOLUTIONS

Instead of designing “from scratch” to meet specific customer requirements, the 2in1 modular “smart” design concept allows Stromag engineers to select from a carefully pre-configured family of paired flexible couplings and clutches. These pre-engineered combinations can then be quickly modified to meet particular customer needs.

This approach can significantly reduce costs and lead times. OEMs can experience the cost-saving advantages while more easily meeting tighter delivery schedules.

Plug-and-play 2in1 solutions also significantly reduce assembly times in the field.

STROMAG COUPLINGS & CLUTCHES: THE BEST OF BOTH

Popular Stromag couplings, including the Periflex® range, Tri-R and Steel Spring models, are precisely calculated in order to damp torsional vibrations to an absolute minimum.

Reliable Stromag MWU, KHA, KHR and KPR clutches have a proven record of long life performance in a variety of demanding applications.

The power spectrum of the 2in1 clutch/coupling combinations ranges from a few hundred Newton meters to several ten thousand Newton meters.

FEWER PARTS MEANS LESS WEIGHT

Since the 2in1 combinations are configured into a single piece, there is no need for individual housings, bushings or keyways. These combine to provide weight savings which are especially important for marine applications.

Stromag combination assemblies are provided as an open running solution which is required for resiliently mounted engines and rigidly arranged drive lines.

However, if desired, the combination units can be integrated into a single SAE housing for direct mounting to diesel engines. Stands and IIoT options are also available.



IDEAL FOR USE ON CONSTRUCTION AND AGRICULTURE VEHICLE APPLICATIONS

Various 2in1 combination assemblies are ideally suited for use on a range of off-highway construction and agricultural machinery, including asphalt grinders, dozers, excavators, tractors and combines.

* Source: Mordor Intelligence

