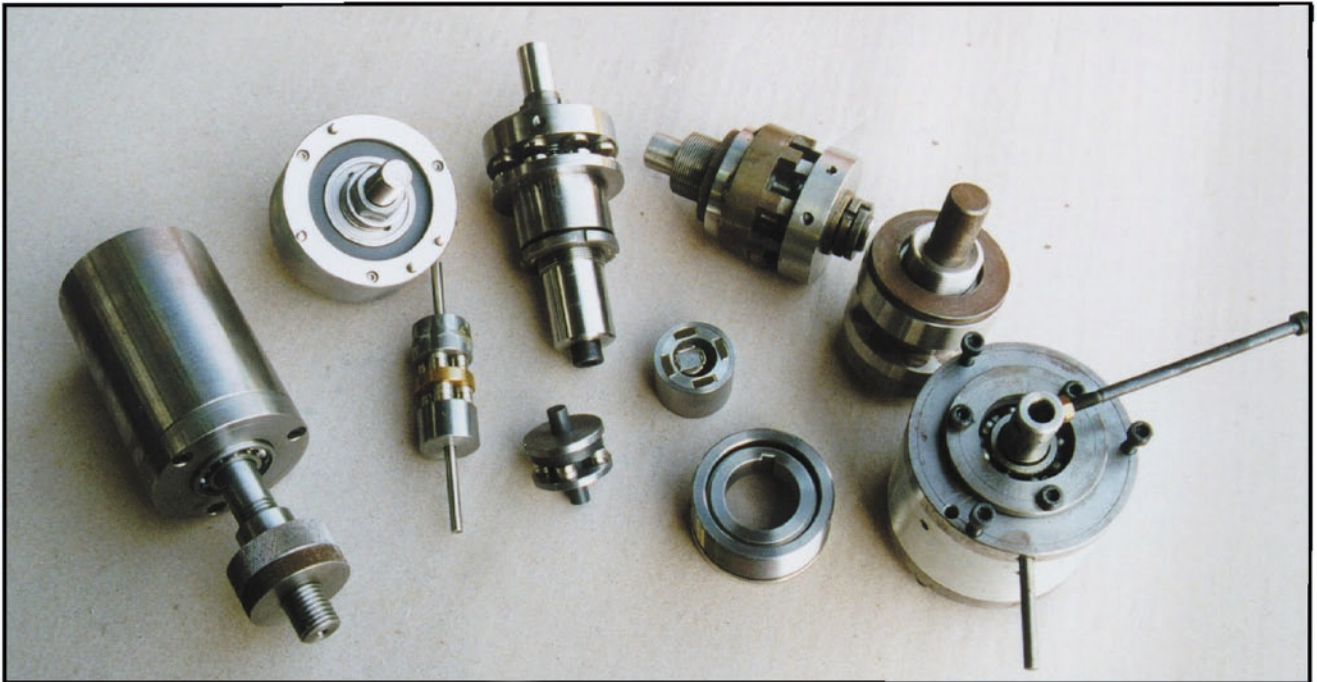




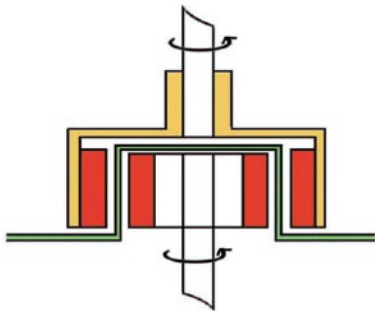
BRAILLON
MAGNETICS

PERMANENT MAGNETIC SLIP-COUPLING

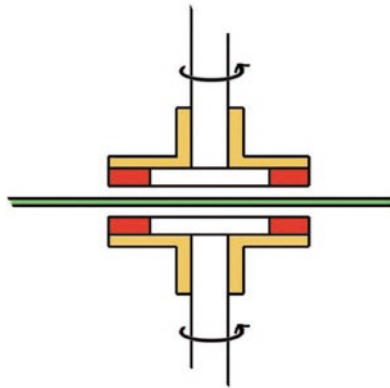
- ADVANTAGES:**
- hermetic separation
 - corrosion protection
 - wear free
 - vibration free
 - noise free
 - accurate torque adjustment



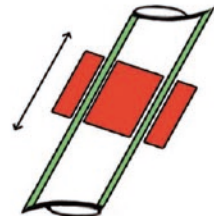
RADIAL



FRONTAL



LINEAR



For adjustable torque transmission without mechanical contact.

BRAILLON MAGNETICS

ALPESPACE - BP 6 - 73806 MONTMELIAN CEDEX - FRANCE

TEL : -33 4 79 84 30 40 - Fax : -33 4 79 84 14 49

Depending on the requirement, Brailon offers slip-couplings based on one of two principles, either synchronous or hysteresis. They range in torque widely from a very few in. lbs (N.cm) to many ft. lbs (N.m).

Other ranges or features can be built to your specifications.

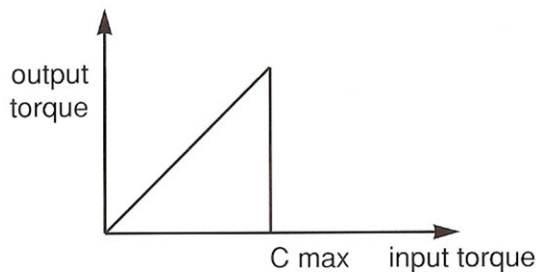
"Synchronous" permanent magnetic slip-coupling

One permanent magnetic wheel transmits a torque to second wheel without mechanical contact. Linking forces are only magnetic. A hermetic partition wall can be set up in the air gap between the two wheels. A non-electrically conductive material should be used for this partition to avoid eddy current losses.

This type of slip-coupling operates similarly to a synchronous electrical motor.

As soon as the driven torque is above the rated driving torque, the coupling is cut off. The torque is zero and the driven wheel is stopped. The driving wheel must be stopped to be recoupled.

A synchronous permanent magnetic slip-coupling is equivalent to a circuit breaker, that is, the rotation is automatically cut off in case of an overload condition of the driven wheel.



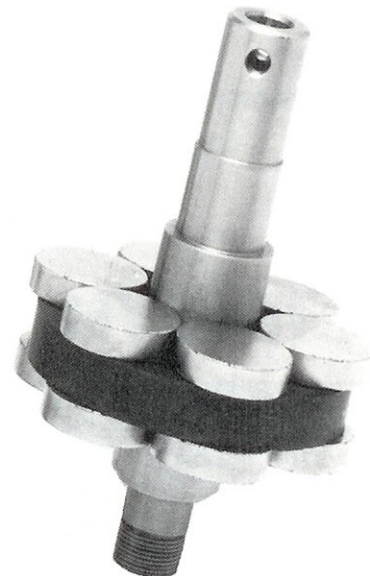
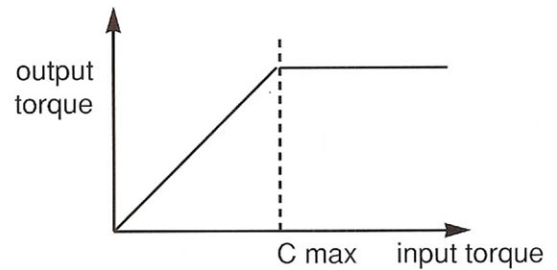
"Hysteresis" permanent magnetic slip-coupling

A permanent magnetic wheel transmits a torque to a hard ferro-magnetic ring. Linking forces are only magnetic. The permanent magnets magnetize the hard ferro-magnetic material.

A hermetic partition wall can be set up in the air gap between the two wheels. A non-electrically conductive material for this partition avoids eddy current losses.

This type of coupling operates similarly to a hysteresis electrical motor.

As soon as the driven torque is above the rated driving torque, the coupling is cut off. The torque is fixed at the rated value and the driven wheel is stopped. The transmitted torque must be below the rated driving torque to be recoupled.



A permanent magnetic slip-coupling transmits rotary force without mechanical contact between the driving shaft and the driven shaft.

This concept offers several benefits :

- hermetic separation is possible between input and output by the means of a partitioning wall in the air gap. The air gap is defined as the space between the driving and driven wheels.
- corrosion protection
- wear free
- vibration suppression
- noise free
- precise torque adjustment



QUESTIONNAIRE

Company

Contact Title

Address

Phone number Fax

Application description

Existing

New project

Drawing : Available

Enclosed

Start up torque

Maximum torque (running)

Tolerances at max. running torque Max

Min

Speed

Temperature

Corrosion and chemical conditions

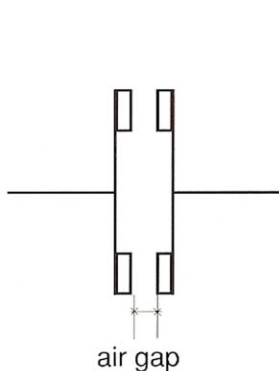
Air gap between the wheels or thickness of partition wall

Axial/radial play

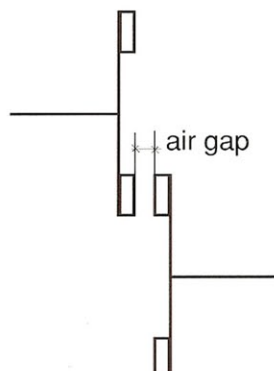
Duty Cycle

Model type (choose 1 of 3 below)

Frontal



Frontal with parallel axis



Radial

