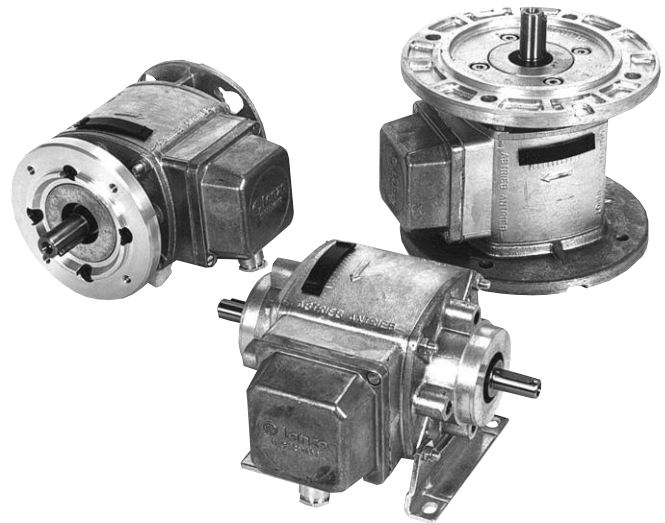


The Simplabloc range of clutch/brakes gives maximum flexibility to machine drive systems.

- Compact and robust design**
- Simple mounting by foot or flange**
- No running-in**
- Allows motor to be run continuously whilst the driven parts are stopped and started**
- High frequency of operation possible**
- Wear adjustment can be done quickly with the unit in place**



14.800.□□ .11.1	foot mounted enclosed clutch/brakes for inputs and outputs by belt or chain, alternatively in line with flexible couplings	<i>Page 434</i>
14.800.□□ .10.4	enclosed plug in clutch/brakes with B14 input and output faces to connect between motors and gearboxes	<i>Page 436</i>
14.800.□□ .12.3	enclosed clutch/brakes for B5 flange motor input and B5 flange output to gearbox	<i>Page 437</i>

*See following pages for guidance on connections*

### Description

Simplabloc clutch brake units consist of an electromagnetic clutch and brake encased in an aluminium housing. They are ready to be run as soon as an electrical supply is connected.

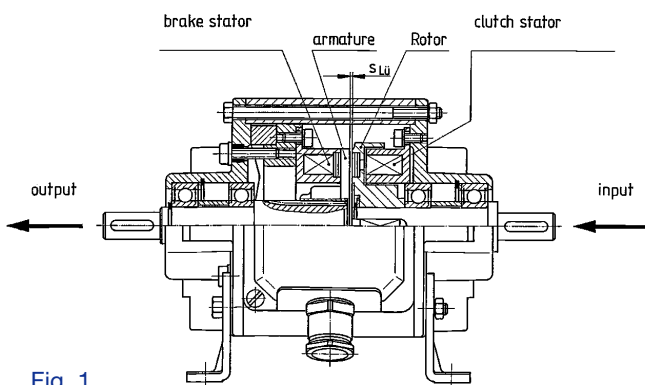


Fig. 1

Simplabloc units transmit torque from a rotor fitted on the input shaft to the armature when the clutch stator (coil) is energised. The armature is splined and slides over splines on the output shaft to which the torque is transmitted. When the clutch stator is de-energised, the output shaft is free to rotate under its own inertia. When the brake stator is energised, the armature is pulled across the internal air gap ( $S_{Lü}$ ) and the output shaft is braked to a halt.

### Other models available

- Hollow shaft output
- Alternative shaft and flange sizes

### Armature types

The standard armature features plastic splines sliding on a steel shaft. The design has minimal backlash and tests prove the teeth are practically wear free under arduous conditions. Where extreme positional accuracy is required, a backlash free armature design can be provided. Here the axial movement to engage the clutch and brake components is achieved by the Lenze pre-stressed spring.

### Wear adjustment

Adjustment for wear is quick and simple and can be done with the unit in place. Request Publication No. 127a for further details or download from [www.lenze.co.uk](http://www.lenze.co.uk) under 'Downloads' and Lenze download area.

### Operating frequency

With a switched 24V supply, operating frequencies up to about 5 per second are possible. Faster frequencies up to 25 per second can be achieved using our Simplapower fast excitation units.