



DYNABLOC

Servo gear motors with low backlash



LEROY-SOMER has extended its range of gears, and now offers them **with low backlash, equipped with servo motors**. This new range of gear motors is ideal for applications that require :

- ◆ High energy
- ◆ Extremely precise positioning
- ◆ Quiet operation

◆ The gears

There are already two gear ranges with output torque up to 5000 Nm and reduction ratios from 3 to 1000, depending on the type:

- ◆ **Planetary gears with axial output** (series **Pjl** and **Pjn**)
- ◆ **Worm gears with right-angle output** (series **Mjd**)

There are low backlash options:

- ◆ **EXPERT: < 1'**
- ◆ **MEDIUM: from 3 to 5'**
- ◆ **BASIC: from 8 to 12'**

◆ The servo motors

Servo motors in the **UNIMOTOR** series that are assembled on gears benefit from the latest technological advances. These **servo motors** provide a particularly innovative solution as regards the aluminium housing whose fins are at 45° because it allows a thermal capacity increase of 100% compared to a normal housing in cast aluminium.

The **UNIMOTOR** are **self-synchronising servo motors** with speeds of 2000 or 3000 rpm. They have a maximum torque up to 220 Nm and a permanent torque up to 73 Nm before stalling.

LEROY-SOMER's DYNABLOC servo gear motors with low backlash have been designed to operate with **LEROY-SOMER's** range of electronic inverters. This is an additional guarantee of high performance for the customer, and facilitates maintenance and after-sales service.

Special program cards developed by **LEROY-SOMER** can be integrated in the inverters, which make complex positioning movements, synchronisation, electronic cams, and winding / unwinding easy to achieve and manage.

DYNABLOC servo gear motors with low backlash associated to **LEROY-SOMER's electronic inverters** are particularly well adapted for packaging, robotics, machine tools, textile machinery, printing, overhead cranes, etc.