

# LUBRICATION

## ROLLER LUBRICATION

The rollers are lubricated for life.

## RACEWAY LUBRICATION

It is necessary to have a thin film of lubrication that does not allow direct contact of the rollers and the raceway surfaces. The use of a lubricating grease during normal operation:

- minimalizes reduces the friction;
- reduces the wear;
- reduces the stress on the contact surfaces caused by elastic deformations.
- Allows the achieving of the life indicated on page A41.
- **Contributes to the protection of metal surfaces against corrosion.**

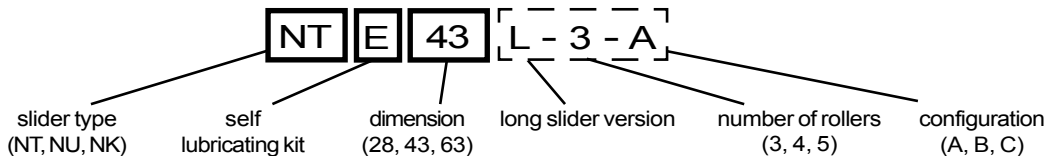
### - Maintenance free auto lubrication system

With optional heads available for N series sliders of the 28, 43, and 63 sizes, it is possible to eliminate periodic lubrication maintenance. The heads have a strong felt-like material loaded with liquid grease that is gradually released during the constant contact with the races. These wipers last 2 millions cycles (for the slider lifetime see page A41). Through the grease nipples (see below), it is possible to reload the wipers with a liquid grease (characteristics below).

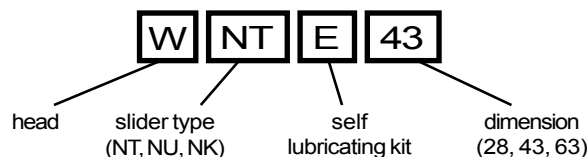
Base oil	Thickener	Temperature range [°C]	Dynamic viscosity [mPas]
Mineral oil	Lithium soap	-30... / +120	< 1000

The heads can be ordered apart or already mounted to the slider. **The dimensions of the lubricating heads and the standard heads are the same.**

Already mounted to the slider order code:



Head order code:

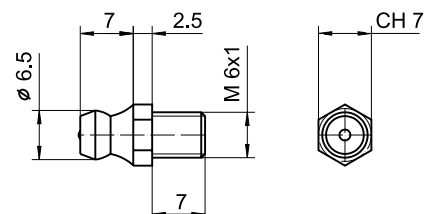


### - Periodic lubrication

The lubrication interval depends on many factors, such as working conditions, speed and temperature. As a guideline, **lubrication every 50,000 cycles, or every six months, is recommended.** NT, NU and NK sliders (except the type NT / NU18) are equipped with grease-nipples for periodical lubrication.

**The grease used must be lithium soap grease of medium consistency:**

Base oil	Thickener	Temperature range [°C]	Dynamic viscosity [mPas]
Mineral oil	Lithium soap	-30... +160 / +170	4500



With thread UNI 5541-65