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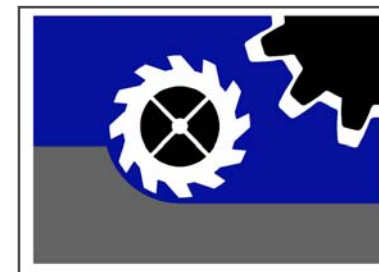
**Your local agent**

**REDEX  
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**DUALDRIVE  
TWINDRIVE**



**MACHINE TOOLS  
Preloaded Rack & Pinion  
Drives**

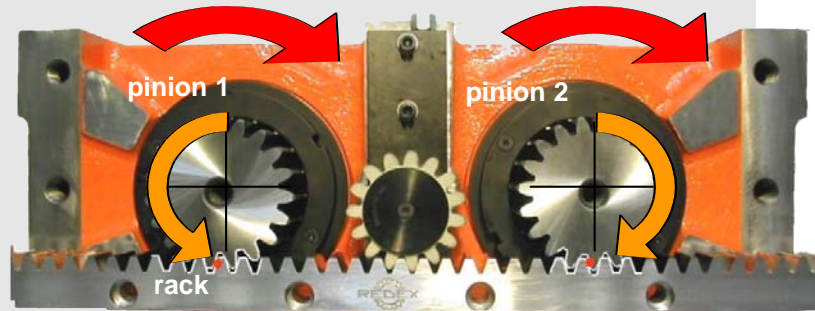


### Overview - Principle

#### Concept

High precision positioning on a rack and pinion axis can only be achieved by eliminating backlash. Even if Machine tool feed gearboxes have been using several mechanical principle for years, it's well known that the best solution to cancel the backlash is to use two reducers with output pinions preloaded against the rack.

#### Accurate positioning building blocks



#### Complete & dedicated solution

REDEX-ANDANTEX offers to machine designers a complete range of standard gearboxes especially dedicated to preloaded rack and pinion axis drives systems .

- Precise geometry for high precision meshing with the rack
- Felt gear for optimal rack & pinion lubrication
- Five mounting surfaces & through holes allowing universal mounting
- Multiple oil drain, fill & level holes for use in any mounting position
- Universal motor flange
- Overheating detection by temperature probe
- Special seal for protection from chips

### High quality construction

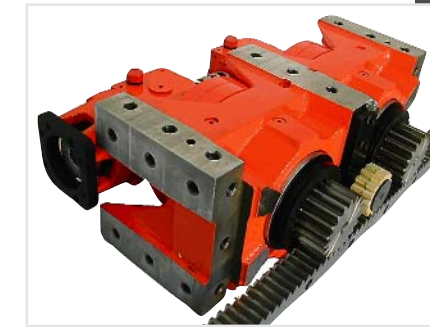
#### BENEFITS

- Dedicated to Rack & Pinion application  
*Optimized Radial & Torsional stiffness to get the highest natural frequency*
- Ultra high linear accuracy  
*Backlash free, pinion / rack accurate mesh & very low pitch error*
- Smooth operation & low noise level  
*High quality hardened and ground gears*
- Ready to use  
*With a very high stiffness single part frame with ground mounting surfaces*
- Compact  
*Weight & space savings*
- 100 % Tested  
*Drag torque, vibrations, torsional & radial stiffness) . Two years warranty - Worldwide support*

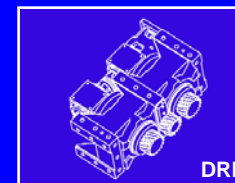
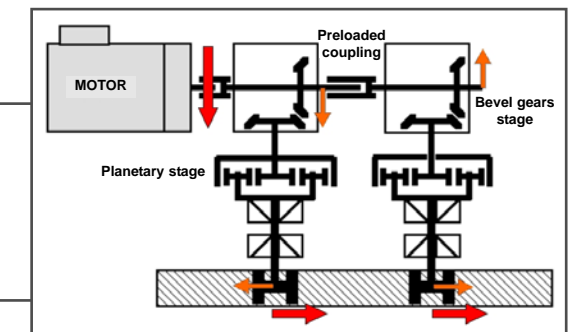
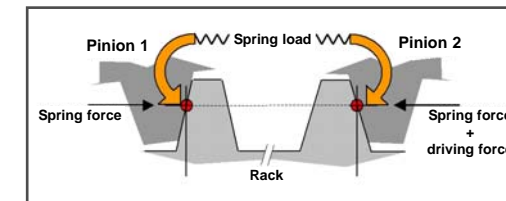


### DUALDRIVE - Mechanical preload solution

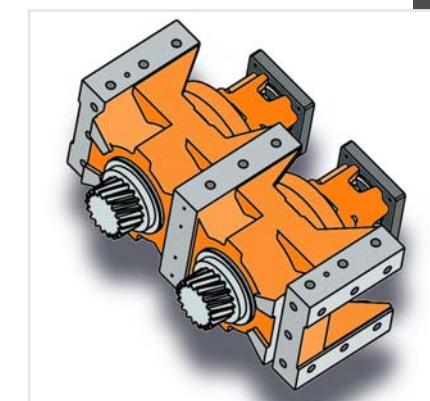
US & Foreign patents pending



Mechanically preloaded DUALDRIVE units achieve the preload by torsionally winding one pinion against the other. One pinion is considered fixed and the other spring loaded. This system is driven by only one motor and doesn't require any special motor controller. The preload is obtained with a REDEX patented preloading system .



### TWINDRIVE - Electrical preload solution



Electrically preloaded TWINDRIVE units achieve the preload by "electrical braking" one pinion against the other. One pinion is considered as the driving pinion, while the other is braking. This system requires two motors and a special motor controller to handle the pre-load.

