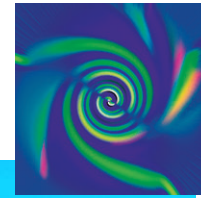


# Lenze Moditorque



**moditorque**  
**control**

Spring applied brakes are normally on-off devices. However some applications call for control of torque and remote signalling. the Lenze Moditorque mechatronic brake system allows full brake control as if it were on 'electronic brake pedal' plus many more features.

- Suits standard brakes BFK 458**
- Variable braking torque 20-100% of rated**
- Supply voltage 24, 48V and mains**
- Torques up to 400Nm**
- Connections for sensors and CANbus**
- Wear and brake function monitoring**
- Achieves faster braking by over-excitation and reduced holding current**

## Performance

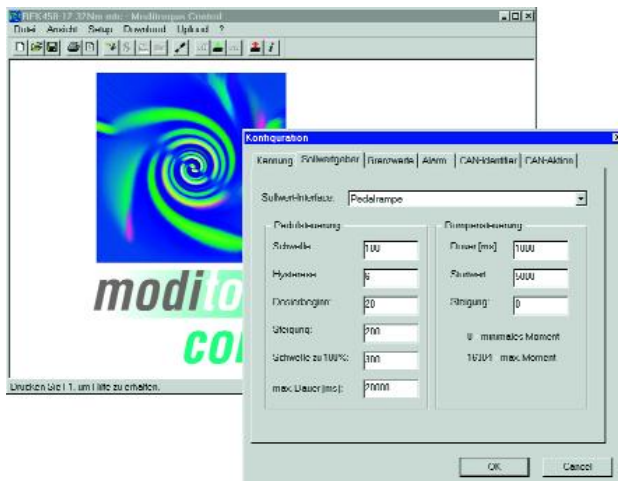
Moditorque works with standard brakes sizes 08 to 20 of the BFK 458 series. The standard Moditorque unit is configured for the brake size before shipment. According to the supply voltage, different brake sizes and torques can be achieved.

Mains voltage	Braking torque $M_r$	Brake type
24V =	8-125Nm	BFK 458-08...16
48V =	8-400Nm	BFK 458-08...20
Mains ~	8-400Nm	BFK 458-08...20

When the brake is released, Moditorque speeds the release by applying a short term over-voltage. Then the voltage is reduced to a pre-calculated holding level that is below the nominal rating. This lower voltage ensures faster brake engagement when the current is interrupted.

## Configuration

Configuration is through Windows software.



## Features

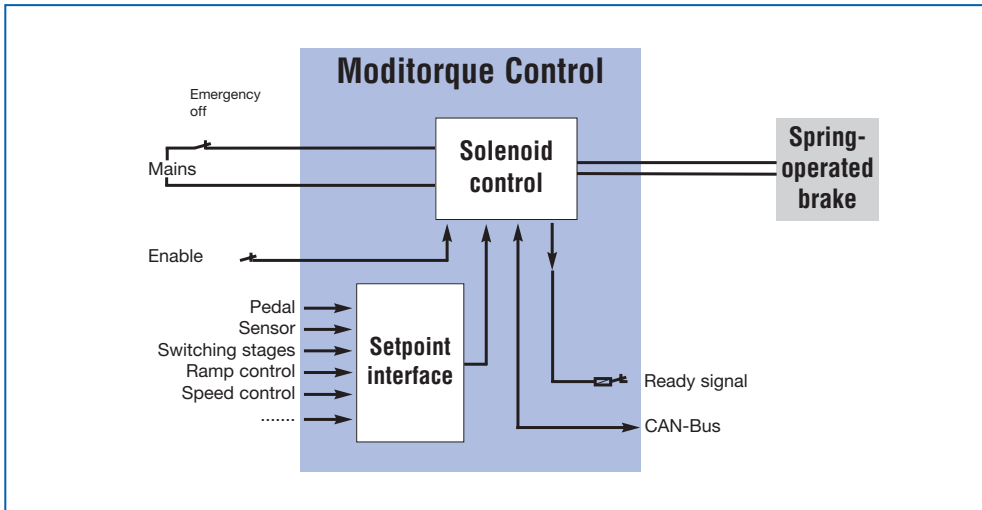
- connection into set point interface for pedal, sensors, switching stages, ramp and speed control
- quantitative wear monitoring
- brake function monitoring
- operating hours counter
- brake response unaffected by brake wear
- CANbus connection for networking
- powerful configuration software
- energy saving by reduced holding voltage

## Applications

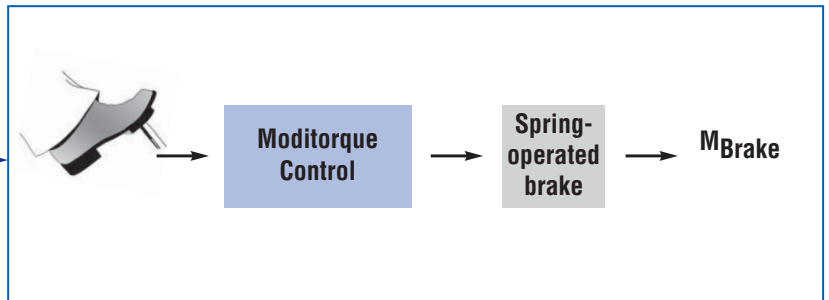
- Fork lift trucks – braking without wheel locking, braking by pedal or automatic dependent on load, co-ordination of multiple vehicle brakes
- Escalators – braking distance independent of load or direction of travel, remote monitoring or wear
- Cranes – synchronisation of the torque transmitted between the brake and the drive.
- Automation technology – networking with inverters extends the braking range of an inverter drive.

# Lenze Moditorque

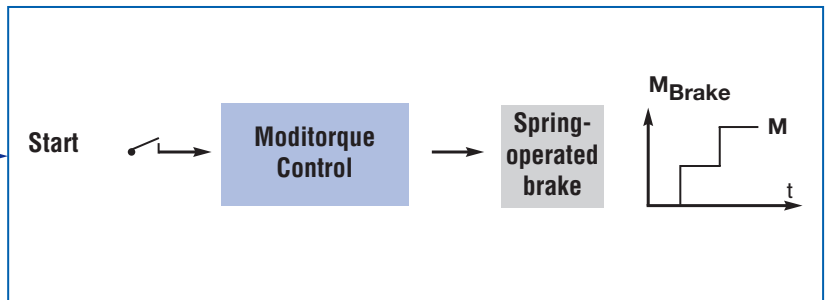
## Block diagram



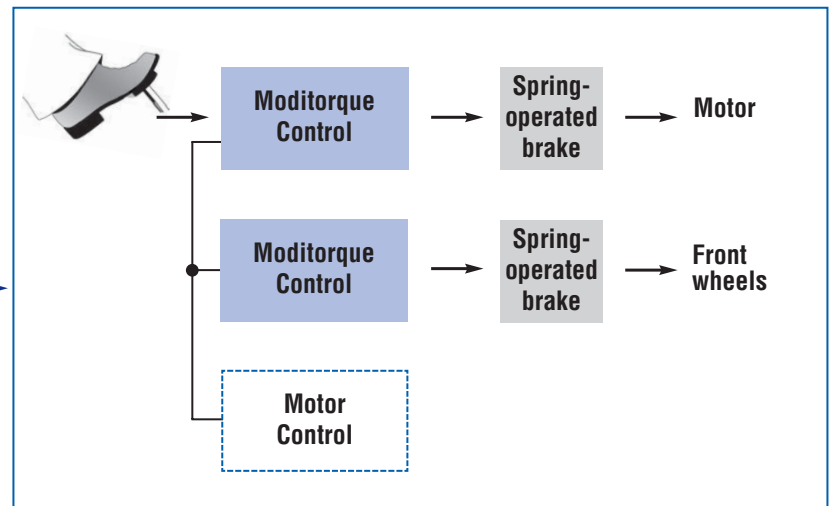
### Pedal-controlled braking



### Mechatronic multi-stage brake



### Synchronous braking with CAN-Bus



**CLUTCHES & BRAKES**