

DESIGN FEATURES OF MOTOR

- Permanent magnet energized DC curve
- High output performance with smallest space requirements
- High efficiency
- Stiff rpm/torque characteristic
- High dynamic range
- Long life through use of carbon brushes
- Robust
- No maintenance during service life
- Ball-raced rotor
- Any operating position
- Right-hand/left-hand rotation
- Insulation to VDE 0530 Insulant class E
- Surface protection

DESIGN FEATURES OF PLANETARY GEARS

Planetary gears are especially suitable for industrial applications. They are provided with an adhesive grease and permit the transmission of high torques with small dimensions.

Self-centering planetary gears guarantee symmetric power distribution.

The hollow gear is also the gearbox case.

The planetary gears are available with two or three steps.

A motor with 3000 rpm has the following rated speeds:

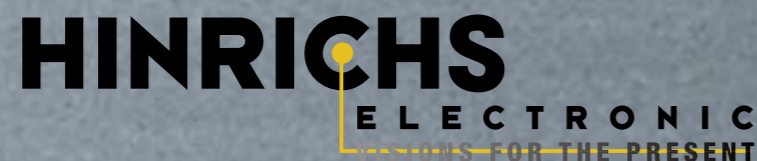
Motor GR 53x58 with PLG52, 2 or 3 steps,

Rated voltage = 24 VDC

Rated current = 2,9 A

Step-down ratio : 1	Efficiency	Number of steps	Rpm	max. constant torque
36	0,81	2	83,33	4,50
50	0,81	2	60	6,30
64	0,81	2	46,88	8,00
91,12	0,73	3	32,9	10,30
126,56	0,73	3	23,7	14,30
162	0,73	3	18,5	18,30
225	0,73	3	13,33	24
288	0,73	3	10,4	24
400	0,73	3	7,5	24
512	0,73	3	5,86	24

* Torque under rated load at drive shaft=



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UNIVERSAL DRIVES FOR A WIDE RANGE OF APPLICATIONS

ELECTRIC DRIVES

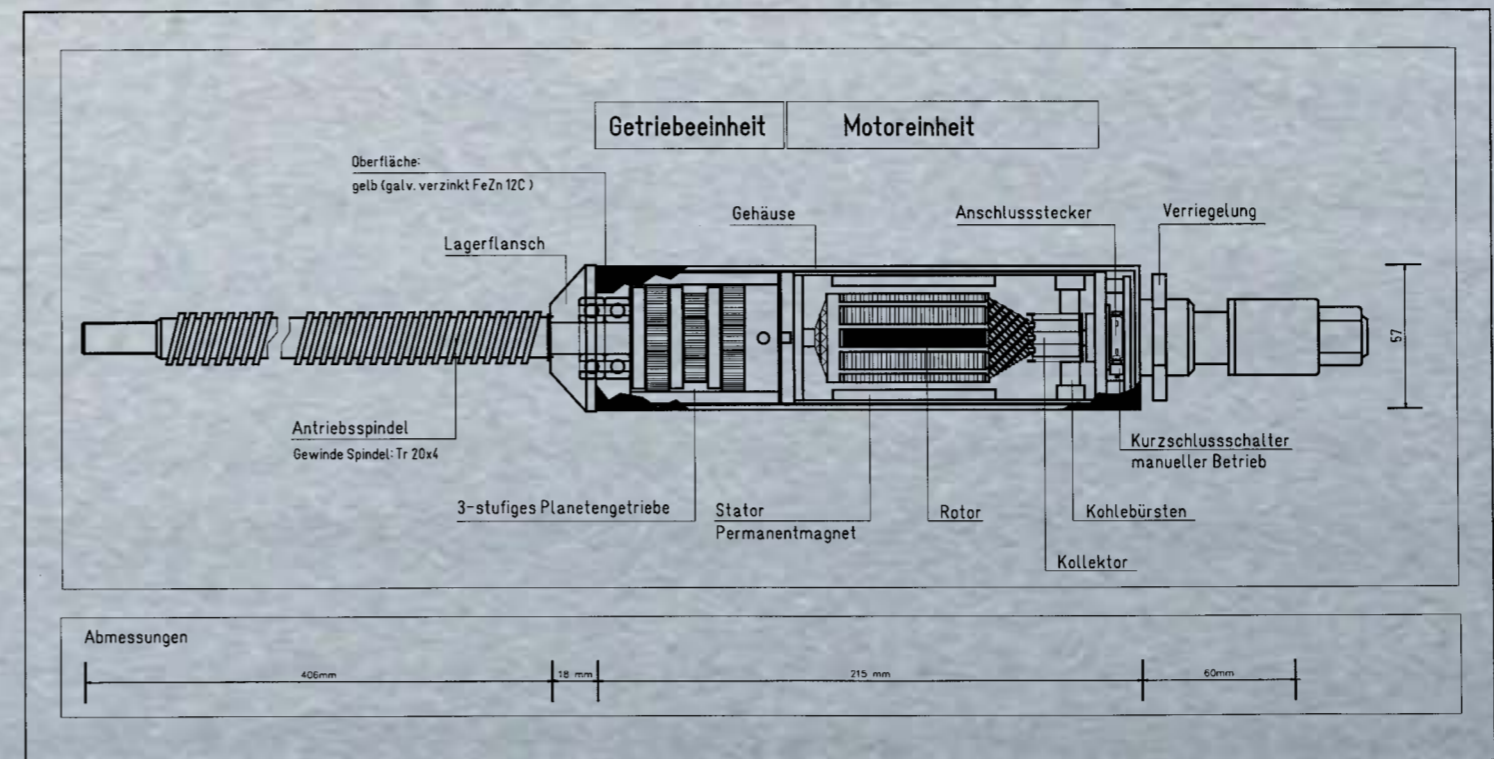
For decades **electric drives** are being used in many **different industries**. In particular in plants and **special machinery requiring** regulation they have become indispensable and **keep gaining in importance**.

Electric drives are used in the following areas:

- Building machinery
- Farming machines and mounted implements
- Wood working machines
- Packaging lines
- Scissor-type lifting devices
- Adjustments for solar power systems

For many years Hinrichs Electronic has been supplying electric drives with the following features:

- Different operating voltages 12V DC, 24V DC
- Different rpm
- Different torques
- High protection class
- Temperature range (-20°C to +50°C)
- Various mechanical designs



Exploded view of an electric drive manufactured at Hinrichs Electronic for a wide range of applications.



Front limit stop, here with hexagon nut and safety screw



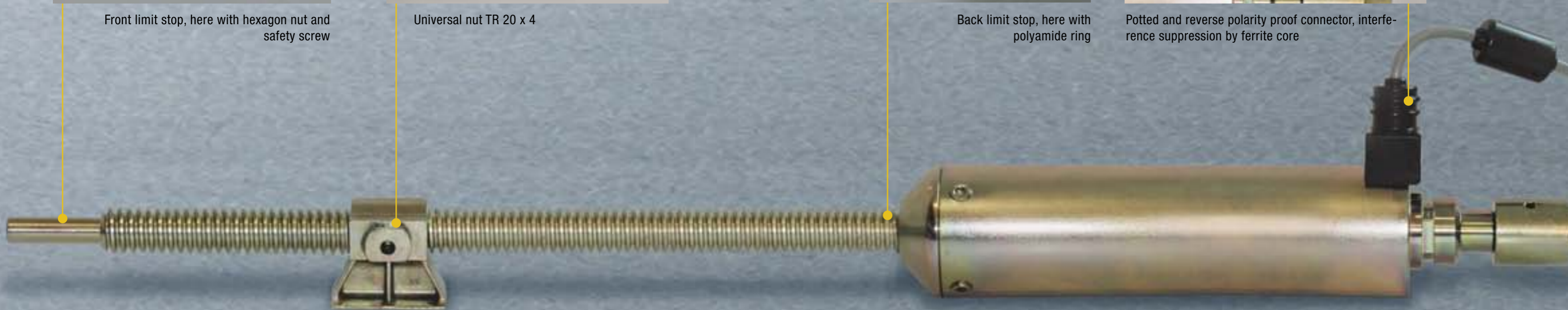
Universal nut TR 20 x 4



Back limit stop, here with polyamide ring



Potted and reverse polarity proof connector, interference suppression by ferrite core



Various Acme threads of different steel grades with adaptable lengths and widths