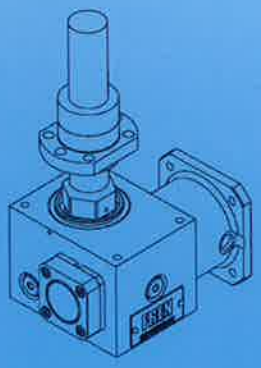
ENZFELDER GmbH

Power transmission- and lifting engineering

Servo lifting gear
Type SH



FEM = Flanged single nut
ZEM = Cylindrical single nut
FEMV= Flanged single nut prestressed
ZEMV= Cylindrical single nut prestressed
FDM = Double flange nut
ZDM = Cylindrical double nut

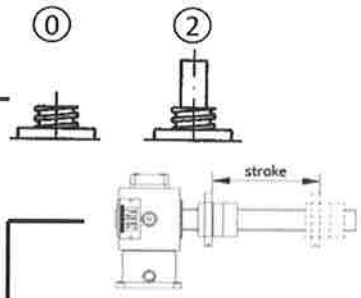
Standard:
10arcmin = 10 arcmin
Special :
5arcmin = 5 arcmin

Reductions:
45 = 45:1
30 = 30:1
15 = 15:1

Refers to the axis distance

SH
Servo
lifting
gear

O = Version above
U = Version below



H = horizontal
V = vertical

00 = without motor
M = with motor

00 = without nut housing
MG = with nut housing

00 = without floating bearing
LL = with floating bearing

SH 35 - 45(10arcmin) - FEM - O - 0 - 500 - H - M - MG - LL

Type

Gear size

Reduction i

Backlash

Traveling nut version

Version

Spindle nose

Stroke mm

Fitting position

Motor

Nut housing

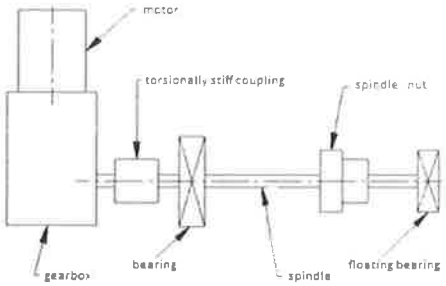
Floating bearing

SH

Servo lifting gear

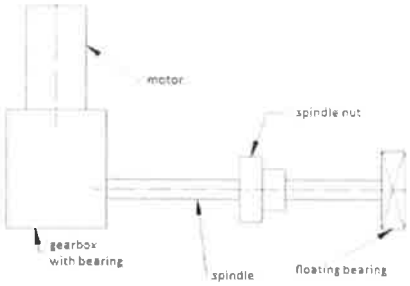
The revolutionary servo lifting gear series is one of the high-end products of the company Enzfelder. These transmissions are specially designed for the high demands of precise adjustment and driving elements. Only through years of experience and know-how of the company Enzfelder, it is possible to realize such a precise and simple gear. Thanks to a special gear a backlash torque transmission can be guaranteed. To really achieve the highest accuracy, it was also important to simplify and improve the previously existing types of drive.

Prior art to 2008



- Unnecessary expensive components
- Complicated mounting
- Very susceptible to stresses in the spindle
- Many different suppliers
- Requires lots of space

Enzfelder solution



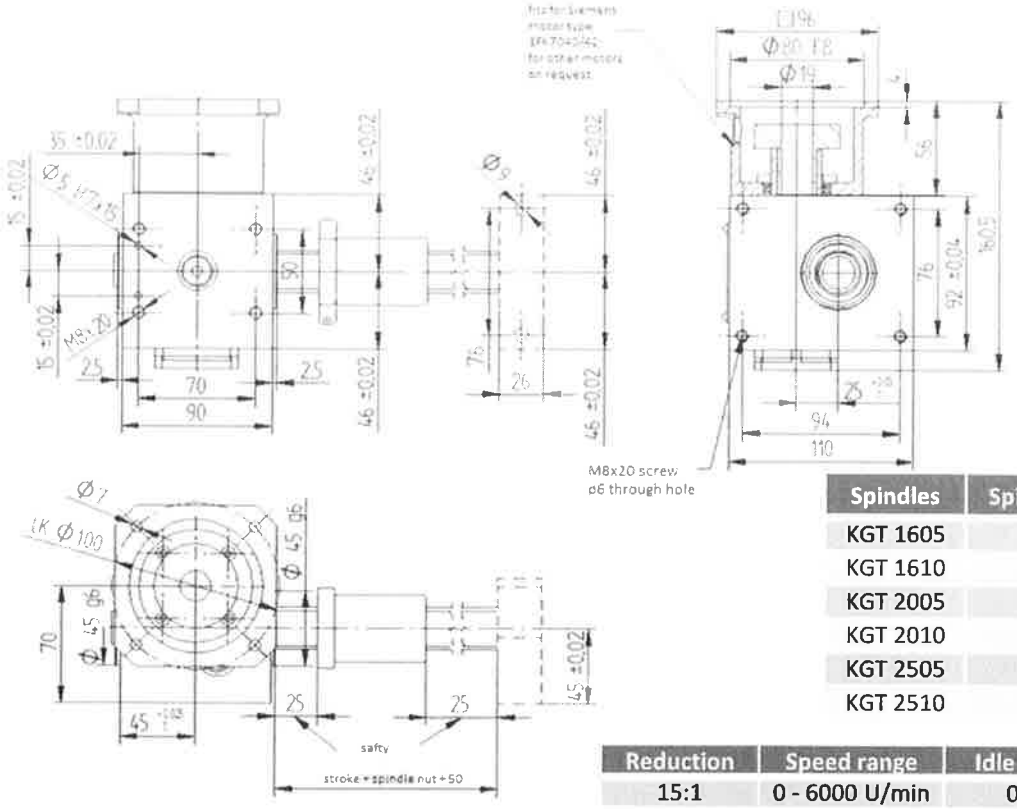
+ Effective overall concept
+ Easy installation
+ Space saving
+ Everything from one source
+ The highest possible efficiency
+ Positioning accuracy to 0.02 mm possible
+ Backlash of 10 arc minutes (on request 5 arcmin)
+ Adjustable backlash

The company Enzfelder solves the problem with a hollow shaft, in combination with a special clamping system. This makes it possible to connect the motor directly to the gearbox and so there is no play between the motor and gearbox.

Advantages of servo lifting gear:

+ Compact design and maximum efficiency
+ High lifting speeds
+ Long life
+ Very precise torque transmission
+ Simple gear mounting
+ Large selection of custom equipment
+ Wide application range

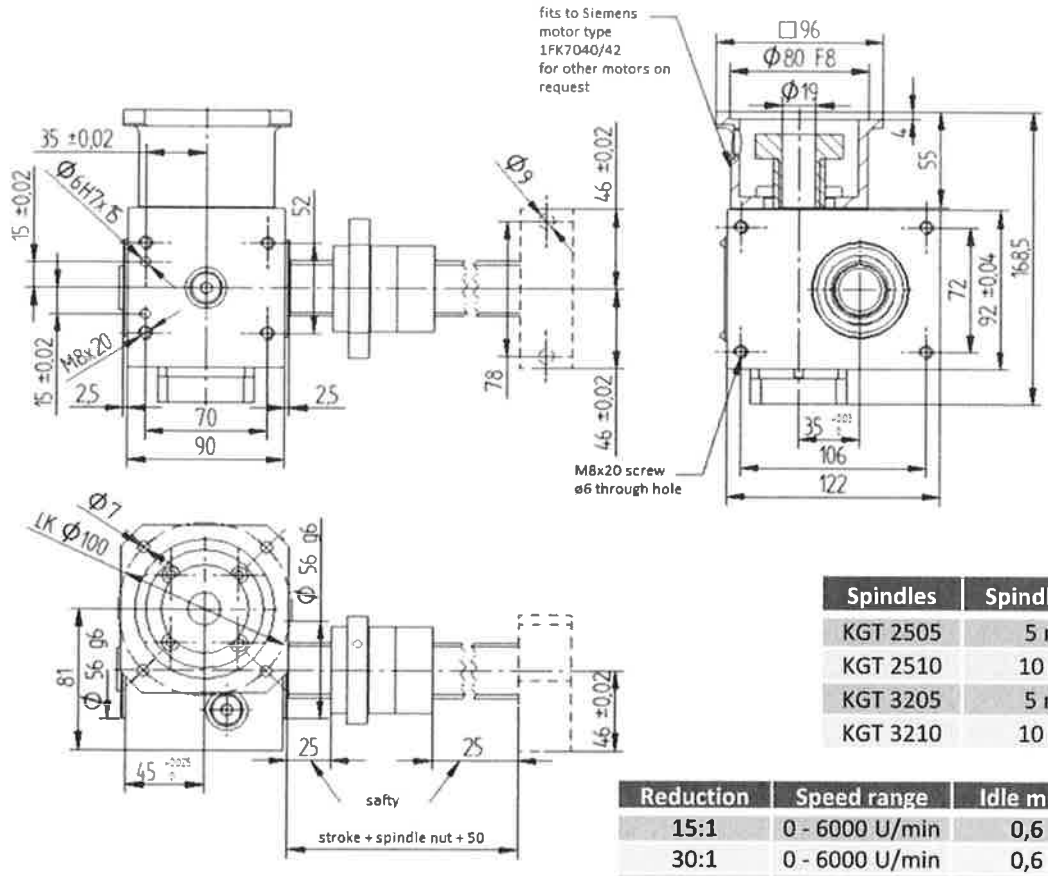
Servo lifting gear SH 025



Spindles	Spindle pitch
KGT 1605	5 mm
KGT 1610	10 mm
KGT 2005	5 mm
KGT 2010	10 mm
KGT 2505	5 mm
KGT 2510	10 mm

Reduction	Speed range	Idle moment
15:1	0 - 6000 U/min	0,6 Nm
30:1	0 - 6000 U/min	0,6 Nm
45:1	0- 6000 U/min	0,6 Nm

Servo lifting gear SH 035



Spindles	Spindle pitch
KGT 2505	5 mm
KGT 2510	10 mm
KGT 3205	5 mm
KGT 3210	10 mm

Reduction	Speed range	Idle moment
15:1	0 - 6000 U/min	0,6 Nm
30:1	0 - 6000 U/min	0,6 Nm
45:1	0- 6000 U/min	0,6 Nm

Product overview 03/2015

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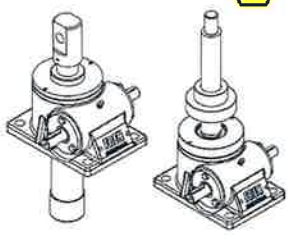
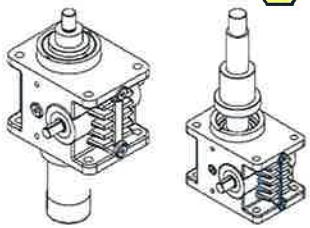
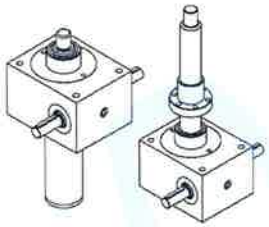
SG
Screw jack
Classic



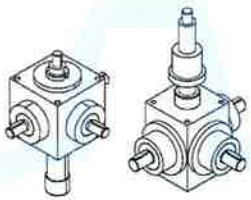
HSG
High performance-
Screw jack



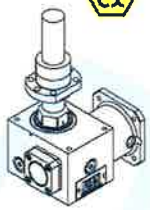
BG
Screw jack
Cubic



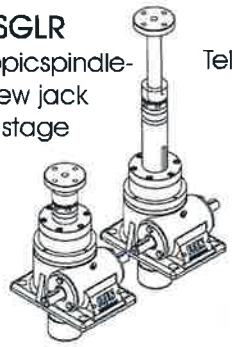
SHG
Quick-lifting
screw jack



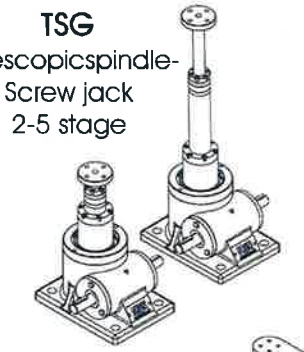
SH
Servo lifting
gear



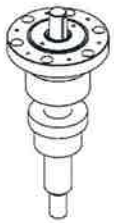
TSGLR
Telescopicspindle-
Screw jack
2-stage



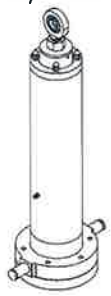
TSG
Telescopicspindle-
Screw jack
2-5 stage



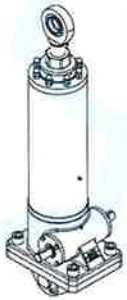
SLA
Spindlebearing



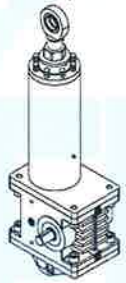
SEZ
Spindlebearings-
Cylinder



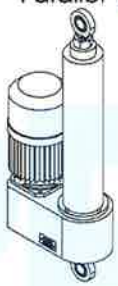
ELZ
Electric cylinder



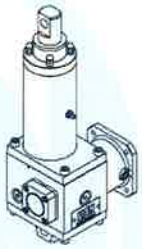
HELZ
High performance-
Elektric cylinder



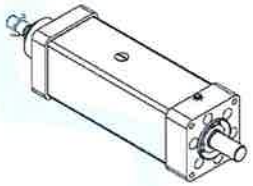
ELZP
Electric cylinder
Parallel



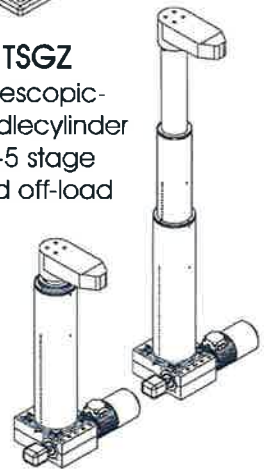
SHELZ
Servo electric-
cylinder



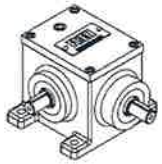
EPNEU
Spindle-
Elektric cylinder



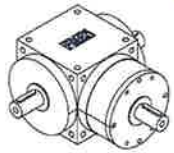
TSGZ
Telescopic-
spindlecylinder
2-5 stage
And off-load



K
Bevel gear
Type K

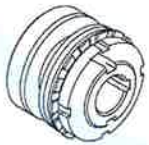


H
Bevel gear
Type H



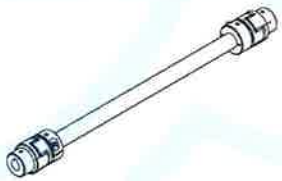
R / GS
Elastic / backlash-free
Coupling

RT
Slip hub

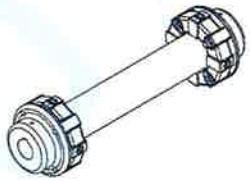


RK
Slip coupling

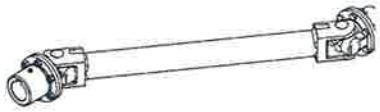
ZR
FREN
Connecting shaft



G / GX
Elastic
Connecting shaft

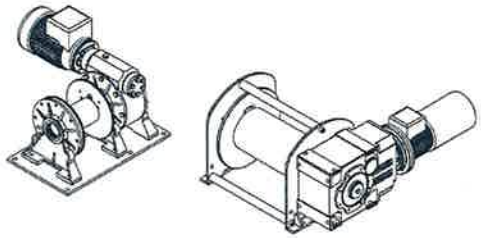


Cardan shaft



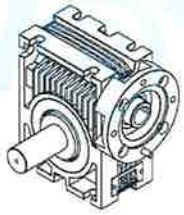
HT
Lifting table
mechanic / hydraulic

SW
Rope winche

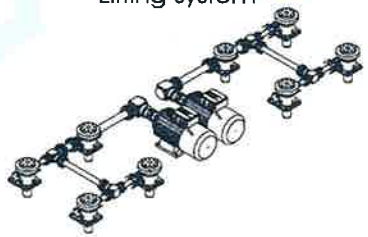


PLG
Planetary gear

uniCe
Worm gear



HA
Lifting system



Special gear