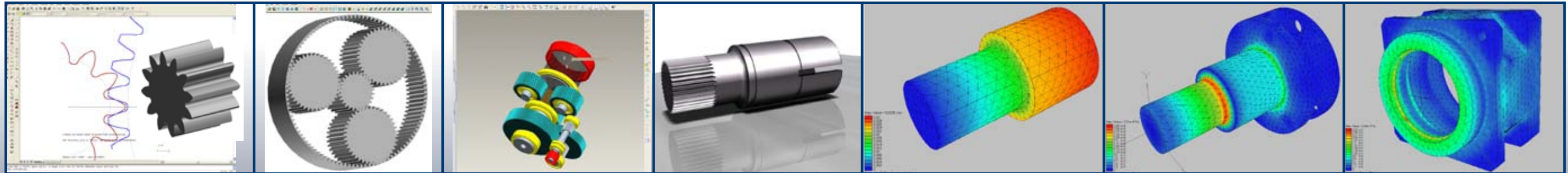


Servotak[®]

PRECISION GEARBOXES

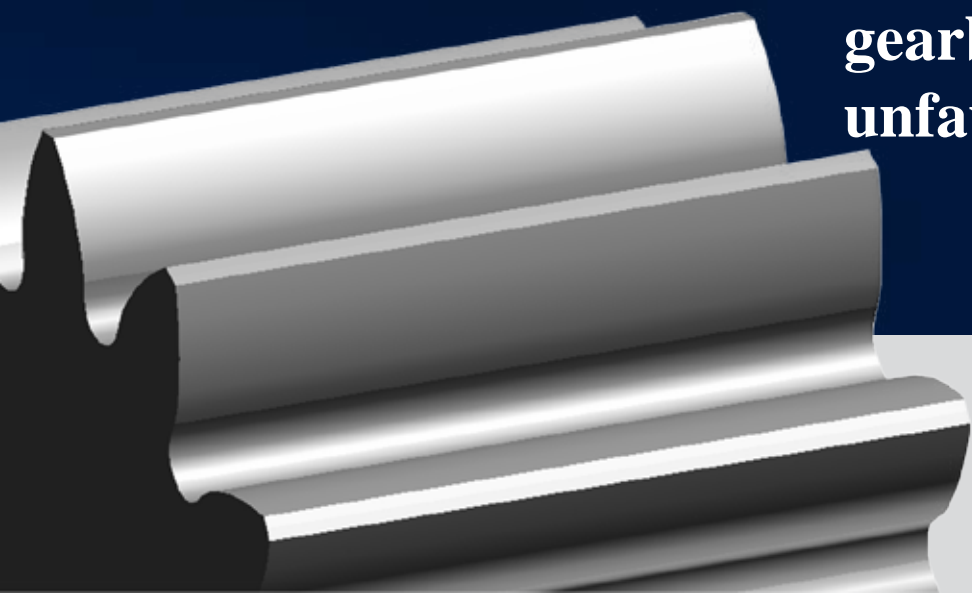




Knowledge · Innovation · Technology · Reliability

Knowledge and experience are our main assets. Gearbox design not only requires understanding traditional component manufacturing and precision machining, but also keeping in touch with the latest developments in material quality and thermal treatments. Coupled with our years of experience, this allows us to offer customized solutions to closely fit our customer's needs.

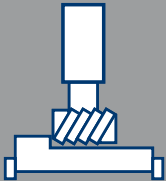

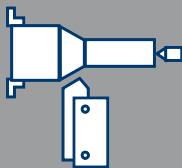
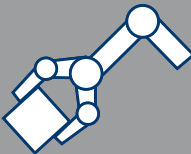

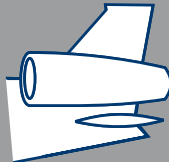





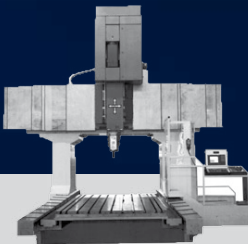

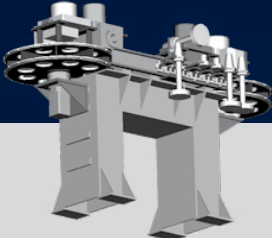






In both custom and standard applications, our servo-gearboxes offer excellent service even in the most unfavorable conditions.

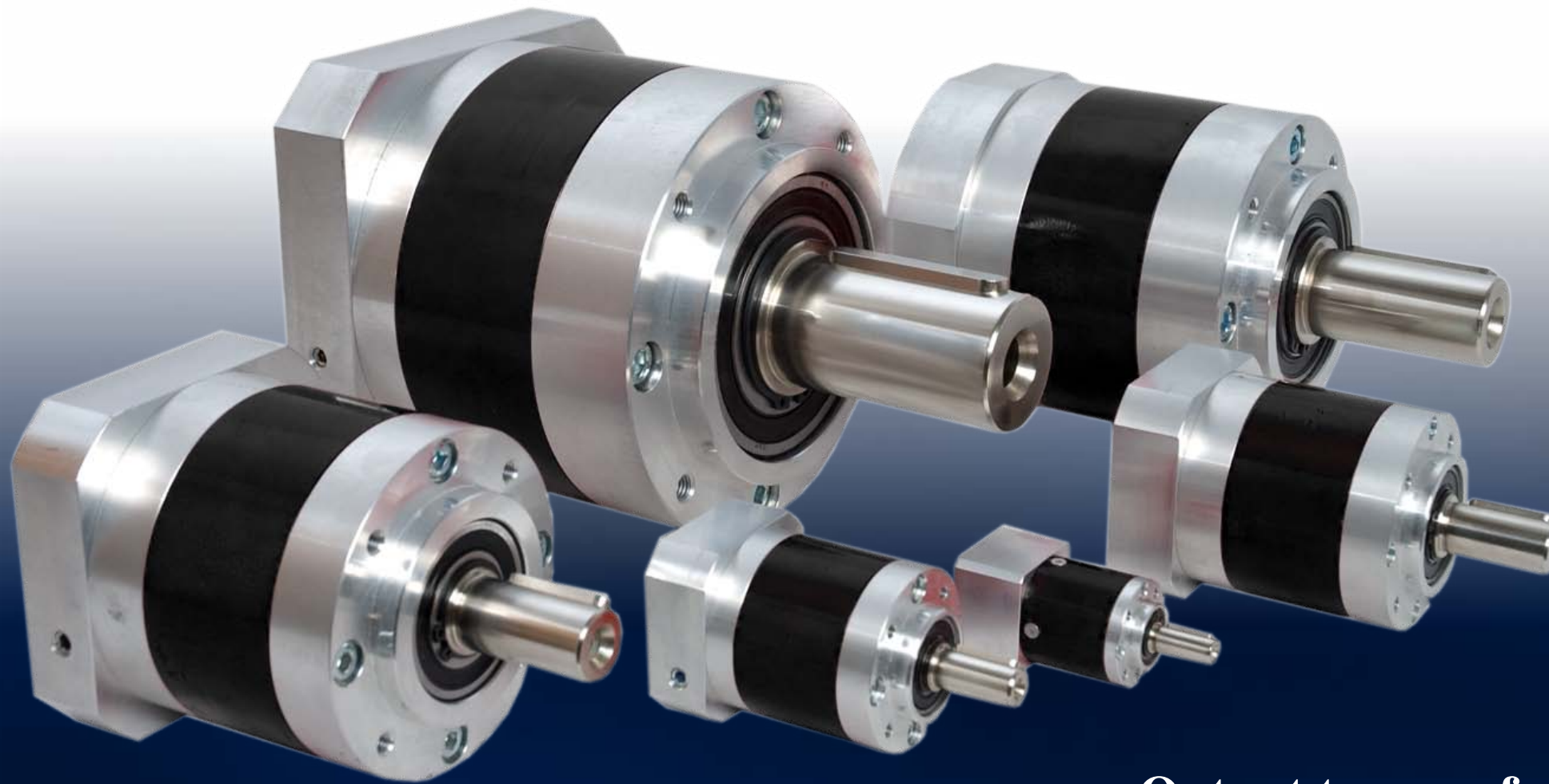


Optimized tooth profile for high performance servogearboxes.

High Precision Gearboxes for Industry

Aerospace industry · Automobile industry · Crude petroleum exploration · Defence applications · Drive systems · Electronics · Fiber optics
Food machines · Glass · Laser systems · Linear Systems · Machine tools · Manipulators · Medical machines · Optics · Packaging machines
Paper Industry · Pharmaceutical industry · Printing machines · Railways · Robots · Textile · Woodworking machines

										
Machine Tools	Machine Tools	Machine Tools	Robotics	Navigation Systems	Medical Equipment	Aerospace	Paper	Textile	Food and Packaging	Measurement
Boring Machines Grinding Machines Milling Machines Polishing Machines Special Designs for High Speed Heads Special Designs for Twist Heads Tool Magazines	3D Plasma Cutting Machines 3D Laser Cutting Machines 3D Water Cutting Machines Bending Machines Punching Machines Wire Cut EDM Machines	Bandsawing Machines Cutting Machines Drilling Machines Lathes Turnkey Machines	Gantry Robots Manipulators Remotely Control Vehicles Rotary Tables Scara Robots Six-axis Robots Track Motion Systems	Drive and Positioning Systems for Antennas Pan and Tilt Head Systems	High Precision Positioning systems Scanners	Automatic Loading Systems Flight Simulators Helicopter and Airplane Landing Aids Solar Array Drives	Printing Presses Cutting Systems	Cutting Systems Printing Systems Twisters Winding Machines	Cutting Machines Filling Machines Sealing Machines Vaccum Packing Machines Wrapping Machines	Measurement machines Testing machines Large volumes inspection machines
										



Output torque: from 10 Nm to 30000 Nm
Over 50 transmission ratios, from 3 to 10000
7 different output shaft options
7 precision classes, 0, 1, 3, 5, 10, 15, and 20
Over 10 series, to suit any customer's exact needs
Up to 11 different sizes per series

Arguably the most extensive product range of
precision gearboxes in the world

GE



Precision
Planetary Gearbox

M_{2N} : 4 to 600 Nm

$\Delta\varphi$: <10', <15' and <20'

Ratio: 3 to 1000

- For general automation
- High quality at affordable prices
- Maintenance free

SG



High Precision
Planetary Gearbox

M_{2N} : 70 to 16000 Nm

$\Delta\varphi$: ca.0', <1', <3', <5', <10'

Ratio: 3 to 10000

- For high precision machinery
- Accurate and reliable
- High torsional stiffness

SR



Stainless Steel
Planetary Gearbox

M_{2N} : 16 to 210 Nm

$\Delta\varphi$: <10' and <15'

Ratio: 5 to 100

- For highly corrosive environments
- Maximum hygiene
- 100% Stainless Steel

MQ



High Precision Worm
Gearbox

M_{2N} : 30 to 12300 Nm

$\Delta\varphi$: <1', <2', <8'

Ratio: 5 to 90

- Space-saver thanks to right angle construction
- Smooth and quiet
- Multiple output options



Rack-Pinion-Gearbox



Straight or Helical Teeth

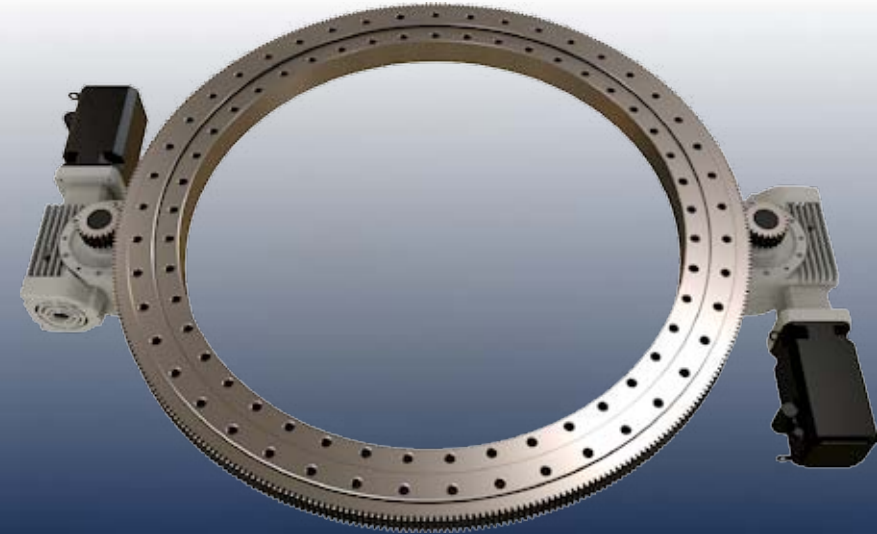
Tangential Force: **Up to 360 000 N**

Zero-Backlash

Modules: **0.79577 to 12**

- Ideal for traveling gantries, traveling columns, milling machines and manipulators
- Unique extra high tooth profiles for unmatched smoothness, coolness and quietness

Ring-Pinion-Gearbox



Straight Teeth

Axial Load: **Up to 10 000 000 N**

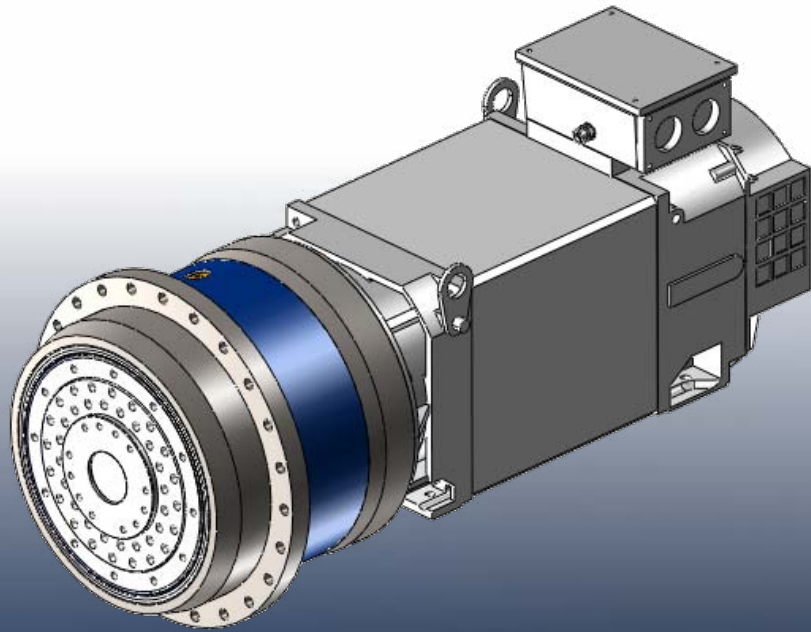
Zero-Backlash

Modules: 3 and up

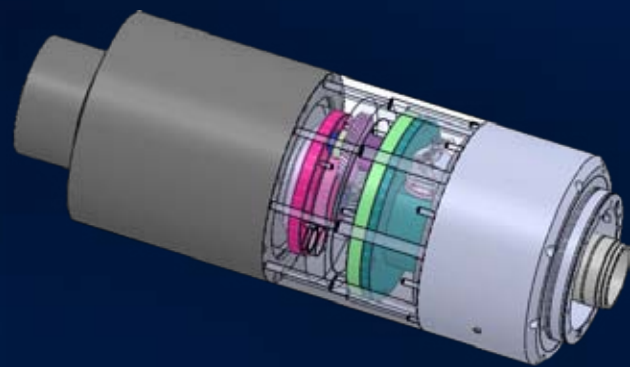
Ring Diameter: **300 mm to 4800 mm**

- Ideal for machine tools, rotary tables and robotic applications
- Massive loads thanks to high capacity output bearings

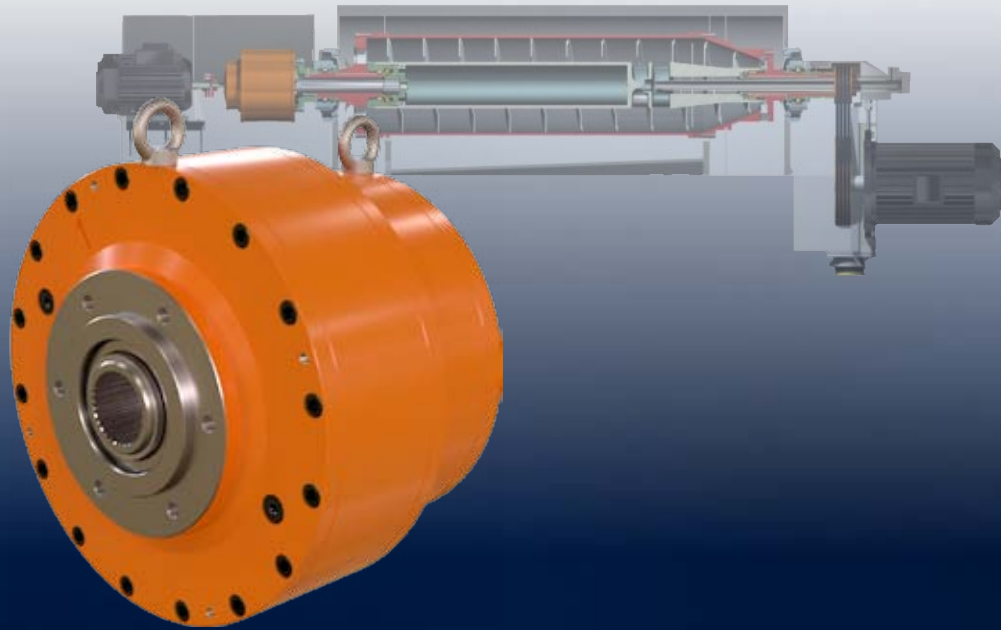
True Zero-Backlash thanks to electronic preload



The development of a custom solution brings competitive advantages: it is compact, fits exactly the customer requirements and offers better performance than the alternatives. Here's a sampling of our most recent projects:

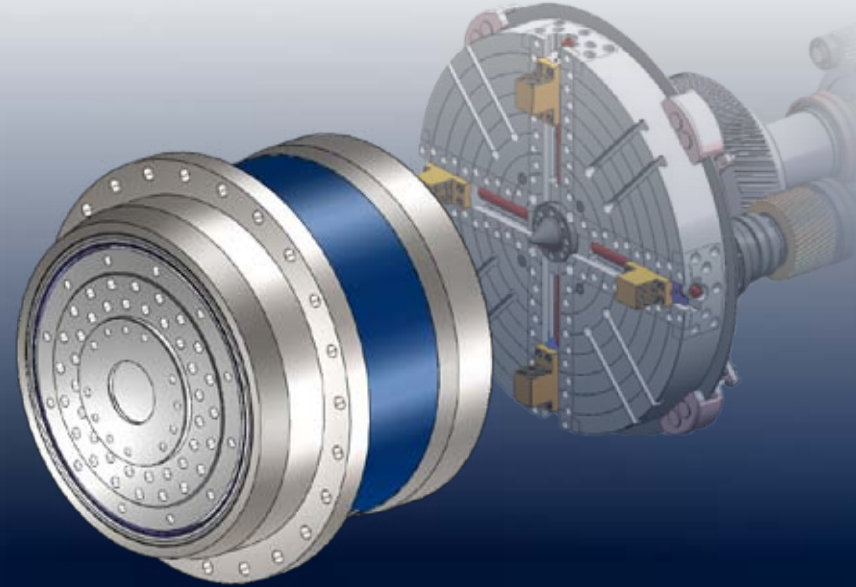


- High speed gearboxes
- Two and four speed gearboxes
- High precision high torque planetary gearboxes
- Full transmission system design and optimization



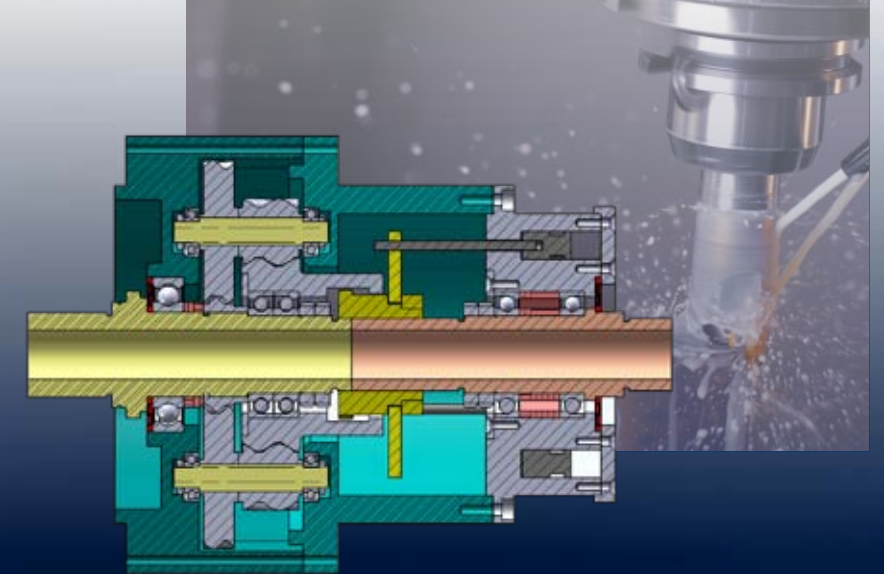
Centrifuge Reducers

- Decanters and centrifuges
- Up to 83000 Nm
- Constant output torque at all differential speeds



High Torque Gearboxes

- Massive lathes and machine tools
- Up to 30000 Nm
- Up to ca. 0' backlash



Two Speed Gearboxes

- Machine tool grade electrospindle
- Fully integrated
- High Speed
- Large hollow shaft

Servotak[®]

PRECISION GEARBOXES

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