



Reducers / Gearboxes

Used by Major Global Brands
Since 1982

PRECISION SPEED REDUCER MANUFACTURER

Cycloidal Drives and Derivatives
Robotics Speed Reducers
Planetary Drives
Gearboxes (Helical, Bevel and More)

Transmission Machinery Co., Ltd.
Transtec Heavy Industries Technology Co., Ltd.

Precision CNC Manufacturing

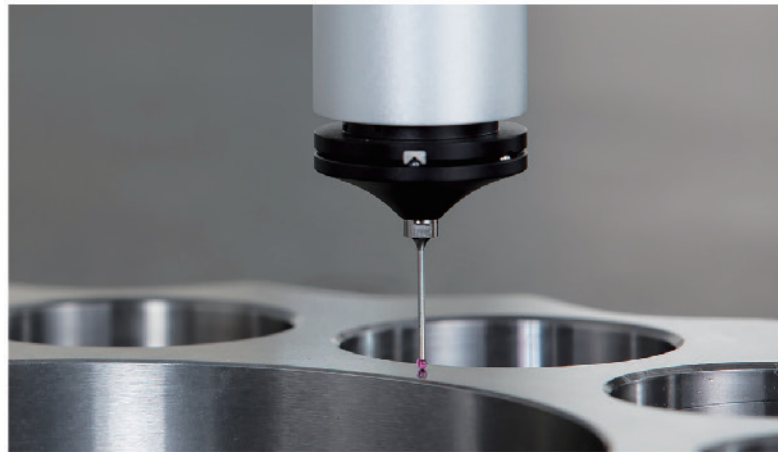
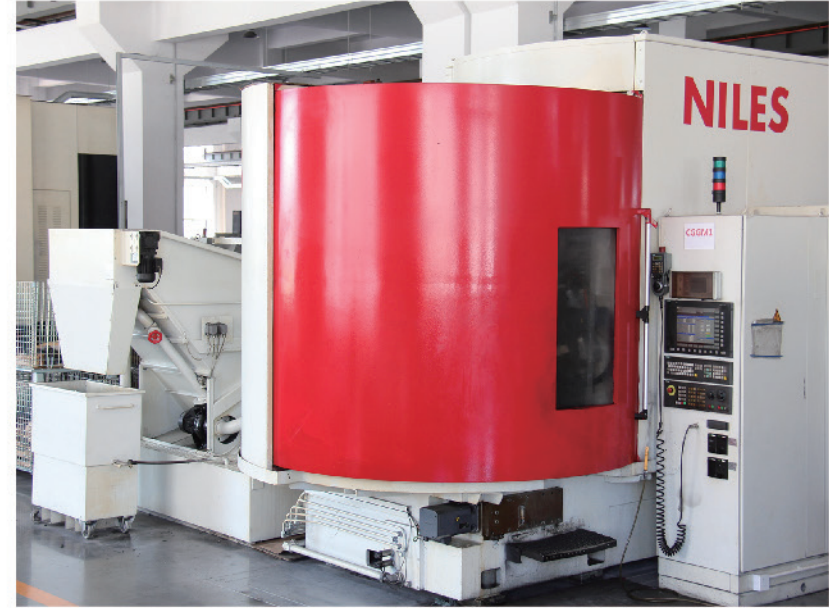
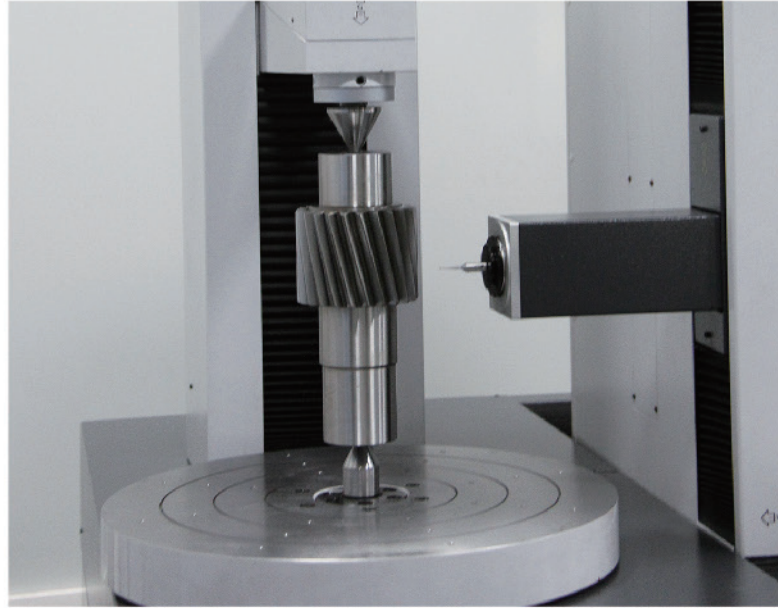
Transcyko - Customers Always Come First

We understand that gear reducer production requires extreme precision working within exacting tolerances for each and every speed reducer produced.

We have invested in some of the most advanced machining technologies from Germany and Japan to allow us to guarantee the precision and stable quality of every product we make.

We perform all reducer machining operations in house from rough machining to fine finishing, gear grinding and hobbing and all aspects of quality control and assembly too.

Over the decades we have amassed a wealth of expertise in reducer machining and production, from lightweight to heavy-duty speed reducers. Our experienced technicians and machinists are fully trained and regularly receive additional update training as new technologies and requirements appear.





Transcyko Product Torque Ranges	
	0NM 1,000NM 10,000NM 100,000NM 500,000NM 1,000,000NM
TSG Large Gearbox for Industrial	2600-552,000
TIN Gearbox for Plastic Injection Machine	2000-140,000
KIN Gearbox for Plastic Injection Machine	1200-69,000
TEX Gearbox for Extruder Machine(single shaft)	1400-300,000
Gearbox for Extruder Machine (twin shaft, Co-rotating)	1800-5100
Gearbox for Extruder Machine (twin shaft, conical teeth)	1500-6000
Planetary Drive	1000-450,000
Low Backlash Planetary Gear Head	200-8500
Concrete Mixer Drive	12,500-150,000
Cycloidal Speed Reducer	10-60,000
Geamotor (Bevel Gear)	50-55,000
Geamotor (Helical Gear)	50-18,000

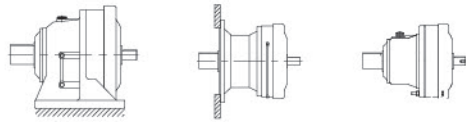
Dealers

We have long established relationships with our dealers around the world. They provide excellent local service and maintain a local parts inventory for rapid service requirement for customers.

- Local Service
- Local Parts Stock
- Experienced Service Technicians

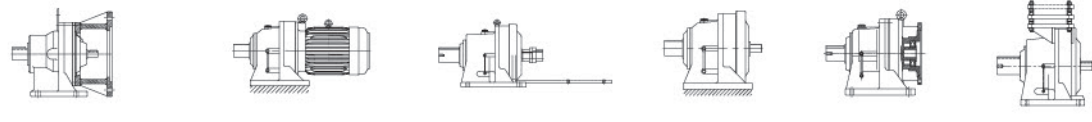


- Foot
- V-Flange
- F-Flange

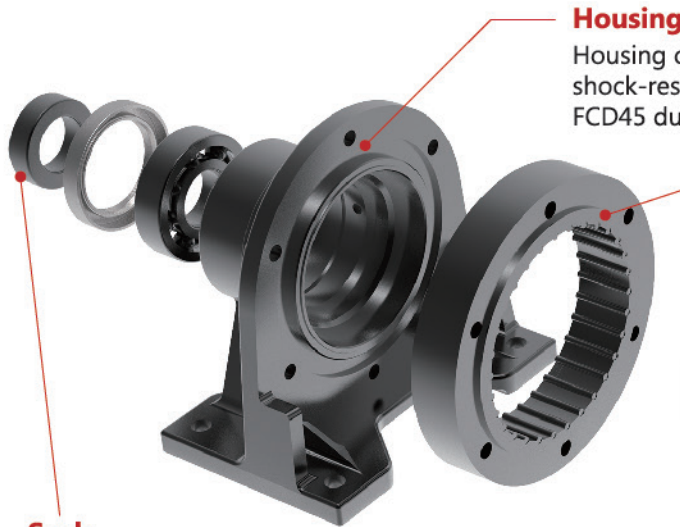


Mounting

- Coupled C-Face
- Integral Motor
- Shovel Base
- Free Shaft
- Quill
- Top Mount



Inputs



Housing
Housing constructed from rugged, shock-resistant FC25 cast iron or FCD45 ductile cast iron.

Ring Gear Housing
Large reduction ratio derived from cycloidal disc and ring gear teeth numbers in the compact housing



Slow Speed Shaft

Eccentric Bearing

Cycloidal Disc

All rotating components are fully hardened, and ground using bearing grade SUJ2 steel.

Seals
Wear sleeves and pressure-rated to prevent leaks

Over Load Capacity Up To 500%
Our cycloidal tooth profile provides a high contact ratio to withstand momentary shock loading.

TRANSCYKO Cycloidal Drives

Failsafe Reliability
Our Cycloidal Drives share stresses across more than 60% of parts, compared to 5% or less for conventional gears. Our cyclo drives stay in service, even if worn out or damaged, until the customer chooses a convenient time for maintenance. Transcyko Cycloidal Drives are truly "fail-safe".

All Key Parts Manufactured In-house



Cycloidal Integral Motor

Cycloidal Derivatives

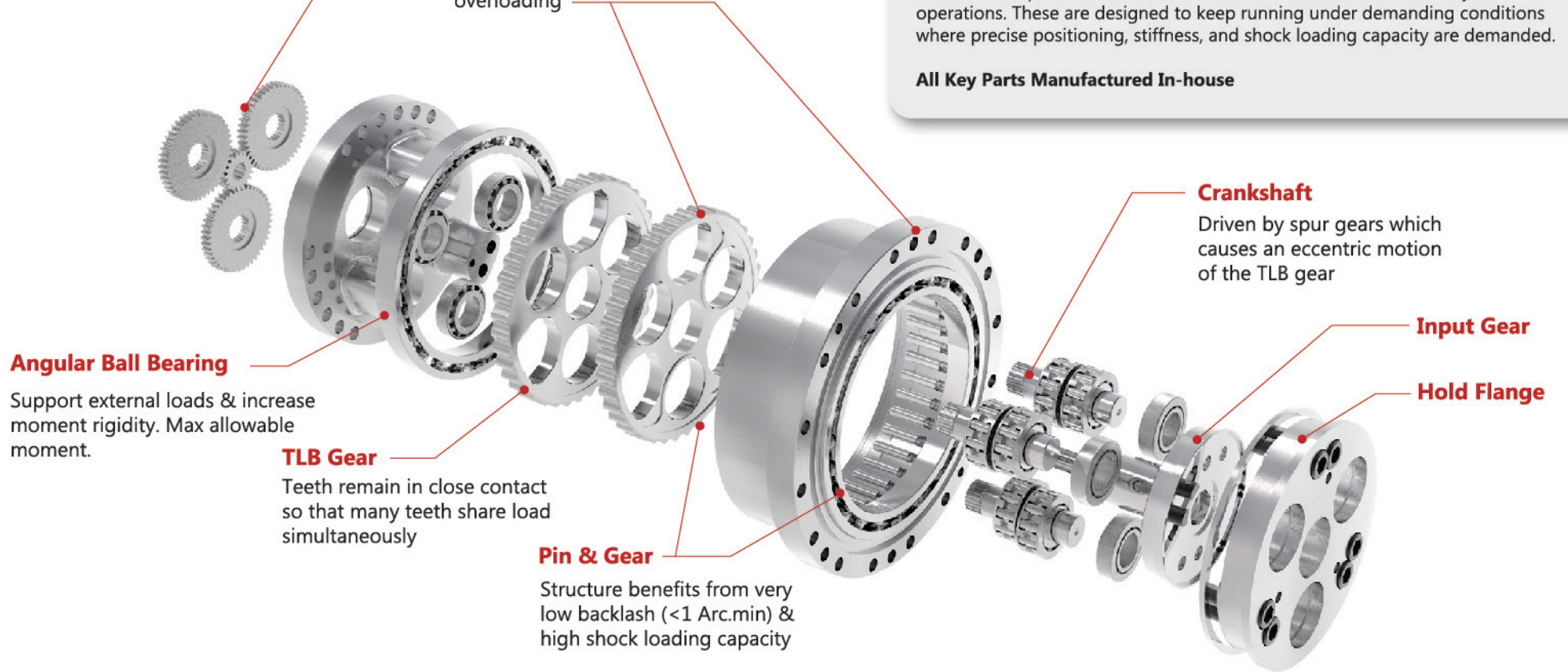
Helical Drive Bevel Drive Centrifuge Drive RGV Drive

Specifications

HP Rating Up to 200 HP (150 kW)	Ratio Range 6:1 - 658503:1
Diameter 5mm - 180mm (Solid Shaft)	Torque Up to 58,800 N/m

TLB

Low Backlash Cycloidal Drives



TRANSCYKO Robotics & Automation

TLB Series - Precision Mechanical Control Applications

Our reducers for robotics, machine tools, and automation systems, are built on decades of experience and we understand how critical these are to your operations. These are designed to keep running under demanding conditions where precise positioning, stiffness, and shock loading capacity are demanded.

All Key Parts Manufactured In-house

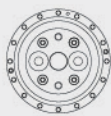
Moment Rigidity
Up to 7448
Nm/Arc.min

Ratio Range
30:1 - 192.4:1
Torque
58-4910 Nm

Models



C - Series
Hollow Shaft



E - Series
Main Bearing
Built In Type

Input Shaft

Type A - Narrow
Type B - Large Dia.
Special

+

Straight Shaft
Taper Shaft

Outputs

Bolt Clamping
Bolt / Pin Clamping
Through Bolt Clamping

Diameter
122 - 370 mm

Backlash
<1 Arc.min

• Back Stop

• Oil Water Cooler

• Oil Air Cooler

• Immersion Heater

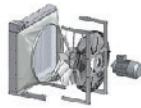
• Fan

• Anti-Dust Breather

• Solid Shaft

• Hollow Shaft with Key

• Shrink Disk

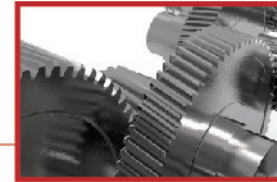
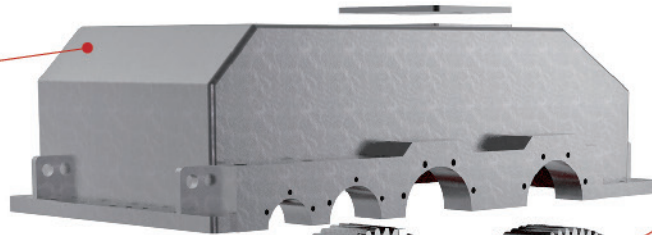


Options

Output

Split Housing For Easy Maintenance

Standard gray cast iron & optional ductile steel (FCD 450) (FC 250)
Inspection cap provides gear inspection window.

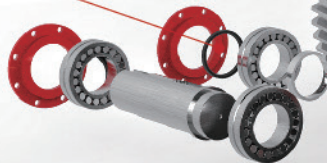


Gear Design

Modified crowning to decrease noise, decrease vibration and counter offset loads.

NOK Oil Seal

Dual layer oil sealing system as option



Gear Quality

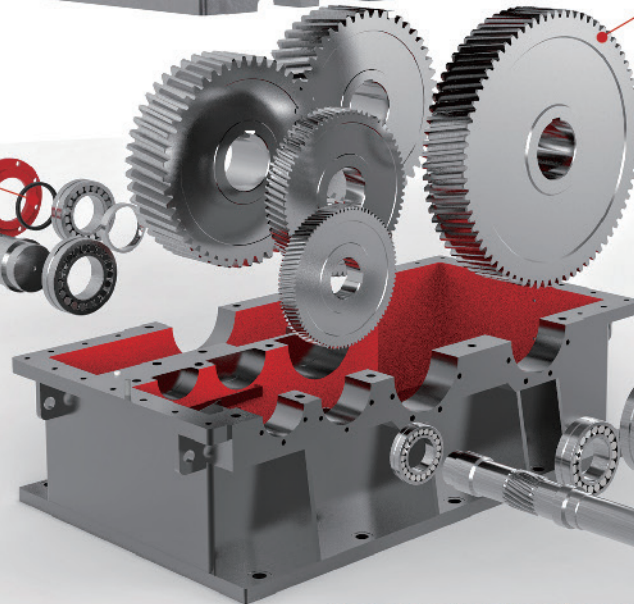
Our inspection processes meet the most demanding customer requirements :

- Gear Grinding up to DIN4
- Magnetic Particle Testing
- Metallographic Analysis
- Tooth Contact Analysis

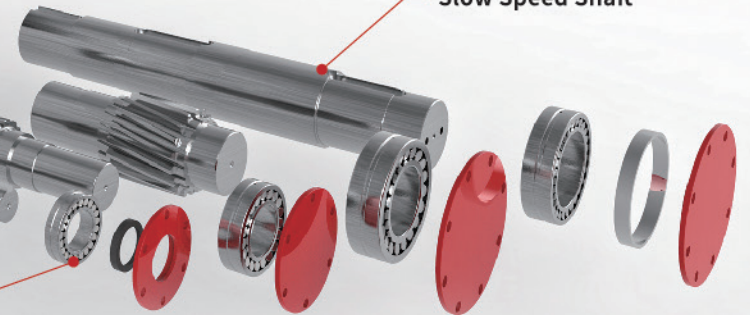
TSG LARGE GEARBOX

Unmatched Reliability

TSG gearboxes carry out the most difficult tasks with maximum reliability. The series features high strength gears, high torque & load capacity with low noise & increased thermal capacity



Slow Speed Shaft



Spherical Roller Bearing

Low friction with heavy load capacity

Imperial Measurement Type

Metric Measurement Type



Concrete Mixer Drives



Cooling Tower Drives

Specs



HP RATING
Up to 5230 HP
(3900 kW)



DIAMETER
5mm - 360mm
(Hollow & Solid)



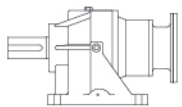
TORQUE
Up to
551,600 N•m



RATIO RANGE
6.3:1 to 500:1
Standard



• Vertical



• Horizontal

• **Mounting**



• Solid Shaft



• Solid Shaft with Spline



• Hollow Shaft

- Spline
- Key
- Shrink Disc

• **Output**



• Solid

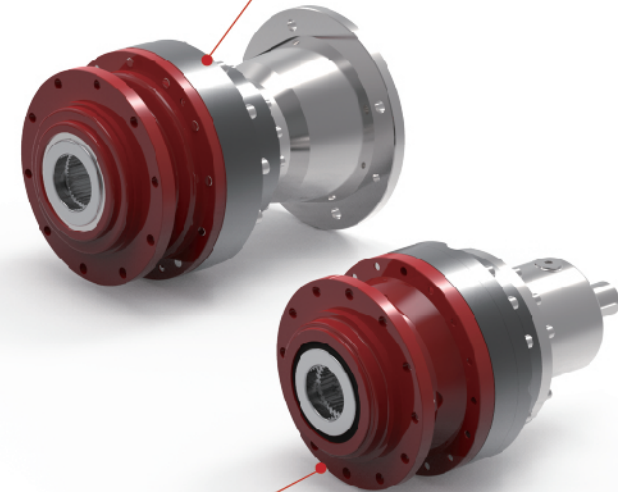


• Quail/Flange

• **Input**



Customised output spline shaft with guided inner diameter to ensure precision for customer application.



- Overload up to 3X
- High overhung load capacity
- < DIN 6 gear accuracy

Planetary Drive

Unmatched Reliability

Transcyko planetary gearboxes can be customised to match a wide range of applications thanks to their modular design. The series operates without unwanted downtime, even in the harshest environments. With their versatile output and input configurations, our planetary gearboxes achieve amazing flexibility in all 18 sizes.

Our concrete mixer drives fit heavy duty applications perfectly. They feature 1.5-4m³ capacity, max output torque 22500-50000 Nm, high efficiency, low backlash, impact resistance and low maintenance.

- 97% Efficiency - 1 stage
- 94% Efficiency - 2 stages
- 92% Efficiency - 3 stages
- 90% Efficiency - 4 stages

Options

Yaw & Pitch Drive



Tunnel Boring Drive



Drive With Hydraulic Motor



SPECS



HP RATING
Up to 540kW



DIAMETER
38mm - 340mm
Hollow & Solid



TORQUE
Up to
447,360 Nm



RATIO RANGE
3.48 to 2687
Standard

Design

- Drive Top. Output Bottom
- Drive Bottom. Output Top

Specs

- Motor Power 75-400kW
- Max Output Torque 3255-127400 Nm
- Ratio 3-50

Mounting

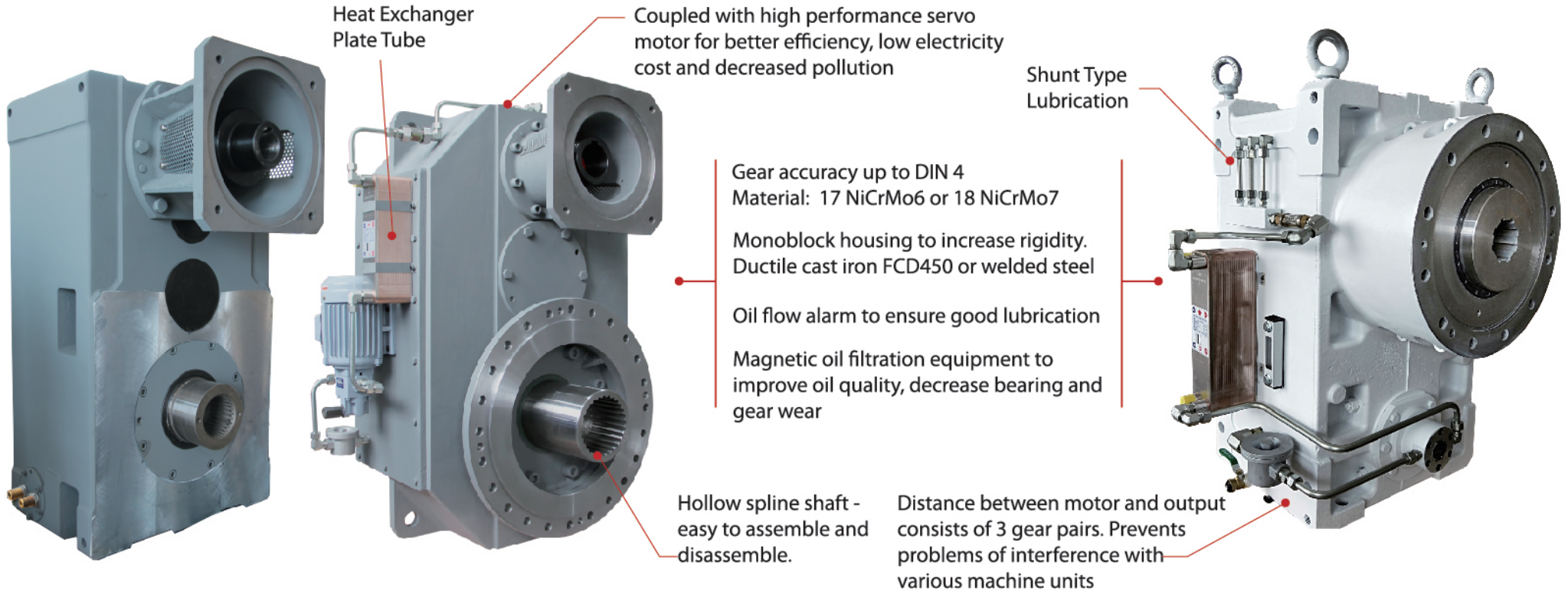
- Horizontal
- Vertical
- Upright

Specs

- 25-30 ~ 300-400mm Screw Dia. Extruders
- 2 Series: P2 Medium Revolutions (i=6.3-25); P3 Medium & Low Revolutions (i=6.3-100)
- Single Screw Vs. Double Screw

Mounting

- Horizontal
- Upright

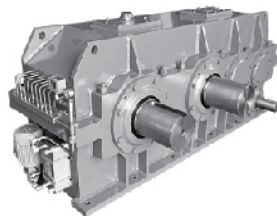


TIN/KIN-Plastic Injection

Plastic Injection Molding Machine Drives

TIN gearboxes feature energy saving, short molding time, little pollution, low noise, and saving cooling water. They deliver high molding precision and fast cycle times. Final products are long lasting with decent wall thickness

- Double Shaft Gearbox For Banbury Mixer

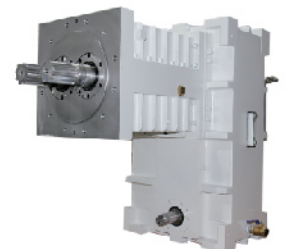


TEX-Extruder

Rubber Extruder Screw Drives

TEX gearboxes are suitable for transmitting high torque, accepting high input speed at low noise level & efficiency over 95%. High precision during grinding and checking of gears match these gearboxes with electric motors at high revolution speeds with compaction

- Twin Screw Gearbox



TRANSCYKO Gear Motors

Serves Drive Systems & Light Industry based on its mechanical-electrical integrated and modular design.

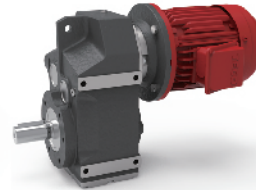
Features

- Reduction Ratios with Finely Tuned Gradings
- Diverse Mountings & Multi-Stage Structure
- Wide Range of Torques
- Lightweight
- Robust Housing



**Helical Gear Motor
TR Series**

Torque : 69 - 18,000 Nm
Ratio : 1.3 - 27001
Power : 0.12 - 160 kW
Foot Vs Flange Mount



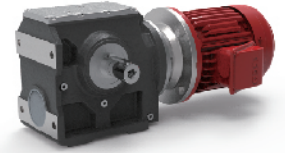
**Parallel Shaft &
Helical Gear Motor
TF Series**

Torque : 130 - 18,000 Nm
Ratio : 3.77 - 31434
Power : 0.12 - 200 kW
Solid : 25 - 120 mm
Hollow : 25 - 125 mm
Foot Vs Flange Mount



**Helical-Bevel
Gear Motor
TK Series**

Torque : 200 - 50,000 Nm
Ratio : 3.98 - 32625
Power : 0.12 - 200 kW
Solid : 25 - 190 mm
Hollow : 30 - 160 mm



**Helical-Worm
Gear Motor
TS Series**

Torque : 92 - 4,000 Nm
Ratio : 6.8 - 33818
Power : 0.12 - 22 kW
Solid : 20 - 70 mm
Hollow : 20 - 90 mm

TRANSCYKO Variators

We offer mechanical stepless speed control with low backlash, durability, compact design and good shock resistance.

Starting with materials of the highest quality ensures quiet operation and trouble free performance.



Input Types

- IEC Flange
- Motor
- Solid Shaft

Mounting

- Foot
- Flange

Power

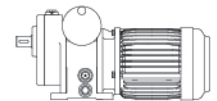
- 1/4HP - 20HP

Output Speed

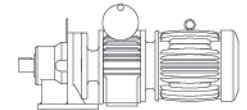
- 50 Hz 165-1,000 rpm
- 60 Hz 200-1,200 rpm

Options

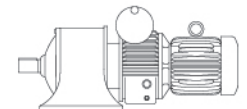
R Type Speed Reducer
Ratio: 2.5, 5, 10, 15, 20



Cyclo Speed Reducer



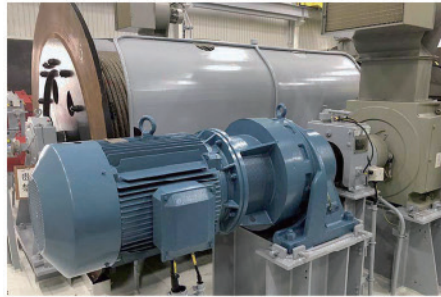
Helical Gear Motor



Applications



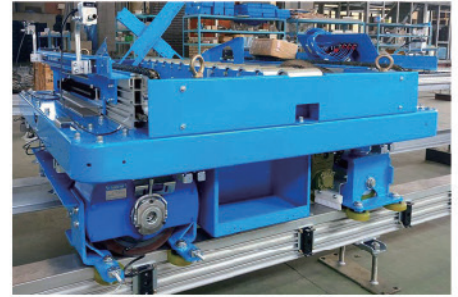
Cycloidal Speed Reducer for Water Treatment



Cycloidal Speed Reducer For Sea Port Hoist Equipment



Cycloidal Speed Reducer For Fish Feed Material Distributor



Cycloidal Drive for RGVs In Steel Plate Conveying



Cycloidal Drives for RGVs In Plastic Conveying



Cycloidal Drive For Centrifuge Machine



Helical & Cycloidal Gear Drive In Steel Plate Conveying



Low Backlash Cycloidal Speed Reducer For Robots



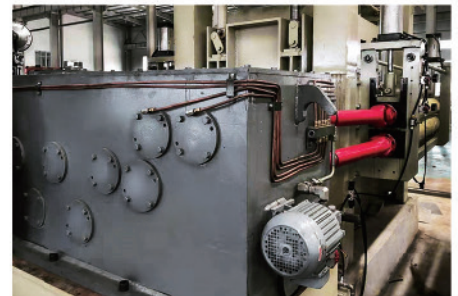
Low Backlash Cycloidal Drive - Spot Welding - Automotive Industry



Large Industrial Gearbox For Fish Mill



Gearbox For Banbury Mixer



Large Industrial Gearbox For Auto Metal Press Machine

Applications



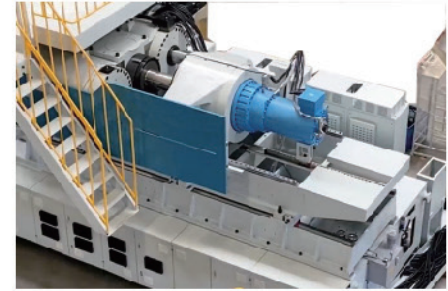
Customised Planetary Speed Reducer For Cooling Tower



Right Angle Shaft Gear Box For Cooling Tower



Helical Gearbox For Chemical Mixing



Planetary Drive Coupled With Servo Motor For Plastic Injection Machine



Planetary Speed Reducer For Aluminium Roller Conveying



Planetary Speed Reducer for Direct Push Drilling Machine



Yaw & Pitch Drive For Wind Power Industry



Planetary Gearbox For Twin Shaft Concrete Mixer



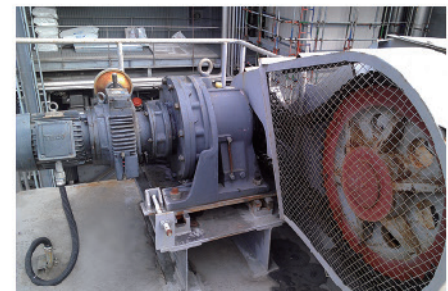
Large Industrial Gearbox For Plastic Injection Machine



Large Industrial Gearbox For Single Screw Extruder



Helical & Worm Gear Reducers For Melt Blown Fabric Roller For Face Mask



Cycloidal & Variable Speed Drive For Bucket Elevator In Petrochemical Industry



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