

# **Gearbox**

**Sinotop Metallurgical Equipment &  
Technology (Beijing) Co., Ltd.**



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Reference list for TLC

Main products: Various models of speed increasers and reducers for complete set of equipment used in metallurgy, mining, coal machinery, hoisting, cement and rubber industries, totally 186 series and 10,000 models, with specification as follows:

- Single weight: 1.5kg-55t;
- Last grade center: 100mm-8000mm, gear ratio: 1.25-10000, max. torque: 1800000Nm;
- Motor power: 1.5-6868kw.

The company and Northeastern University have jointly established the Modern Transmission Technology R & D Center. The company has its own research team with complete intellectual property rights. Ten products including torpedo car reducer, planetary reducer for Asia's largest three-roll bending machine have gained national patents; Twelve products including LZD transmission device, DCL heavy-duty gearbox, MNL medium-speed mill main gearbox, combined reduction gearbox for complete set of bar production equipment, etc. have been rated as national level key new products.

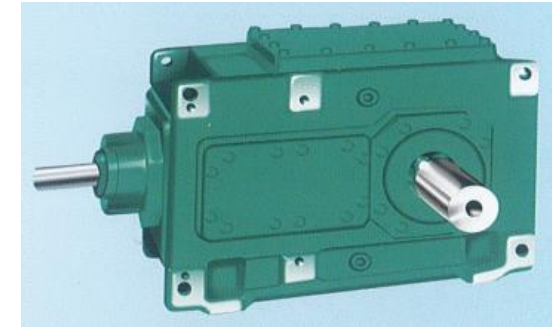
## ◆ JH, JB series gearbox

Product type: The installation dimensions of JH parallel shaft and JB vertical shaft series gearboxes developed by our company are consistent with those of Flender's H and B series gearboxes, and can replace Flender's products. The bearing capacity is equal to that of Flender, and the safety factor is higher than that of Flender.

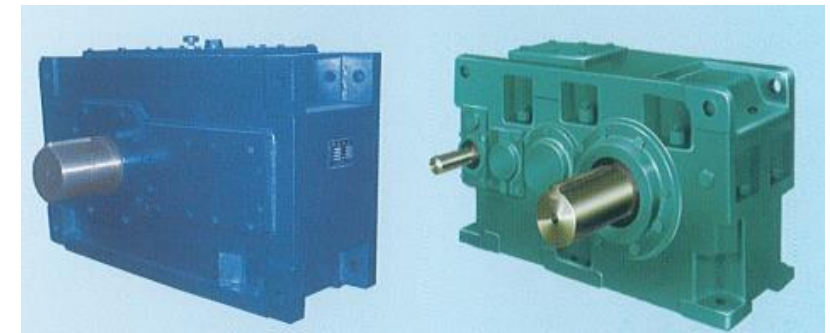
Application field: metallurgy, mining, transportation, construction, chemical, textile, papermaking, food, plastics, rubber, machinery, energy industries, etc.

### Characteristics:

- Small size, light weight, low noise and high reliability;
- The main parts adopt module design, which can form a variety of installation forms;
- Natural cooling, fan cooling and forced lubrication cooling can be selected according to user's requirements.



JB series vertical shaft gearbox



JH series parallel shaft gearbox

## ◆ JK, JR, JF, JS series gearbox

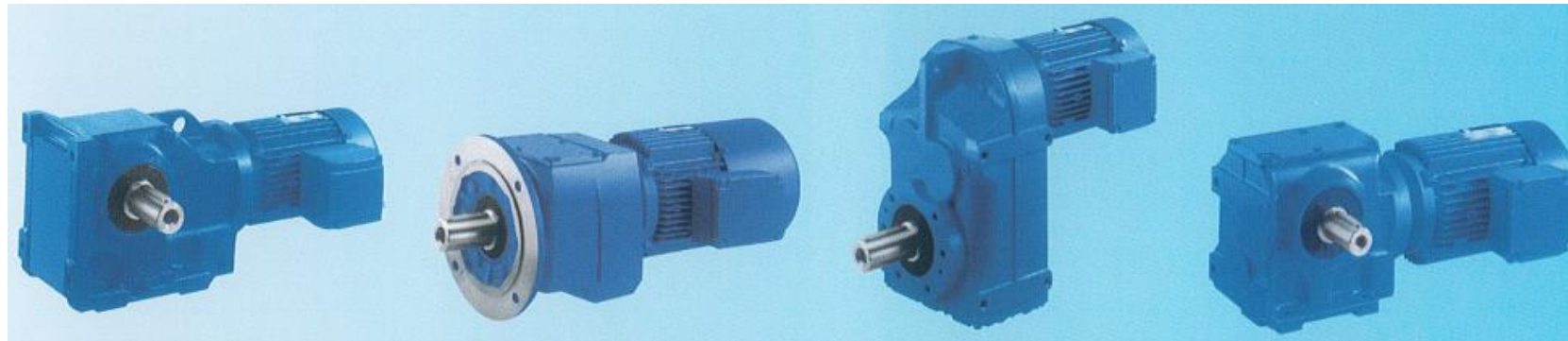
Product type: The installation dimensions of JK spiral bevel gear, JR helical gear hard tooth surface, JF parallel shaft helical gear and JS helical - worm gear developed by our company are consistent with those of SEW's K, R, F and S series gearboxes, and can replace SEW's products. The bearing capacity is equal to that of SEW, and the safety factor is higher than that of SEW.

Application field: hoisting, metallurgy, chemical, cement industries, etc.

Characteristics: high transmission efficiency and low energy consumption



Exported JK series for bucket wheel stacker reclaimer



JK series

JR series

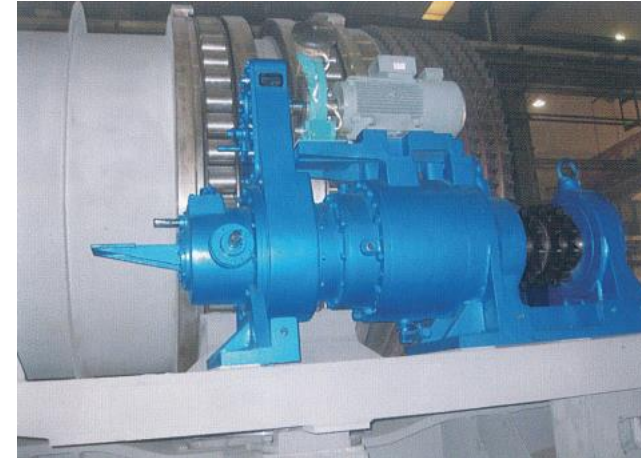
JF series

JS series

## ◆ Gearbox for Torpedo Car

Specification: for torpedo cars of 150t-380t.

Products have been exported to Poland, India, etc.



On site installation of gearbox, Poland

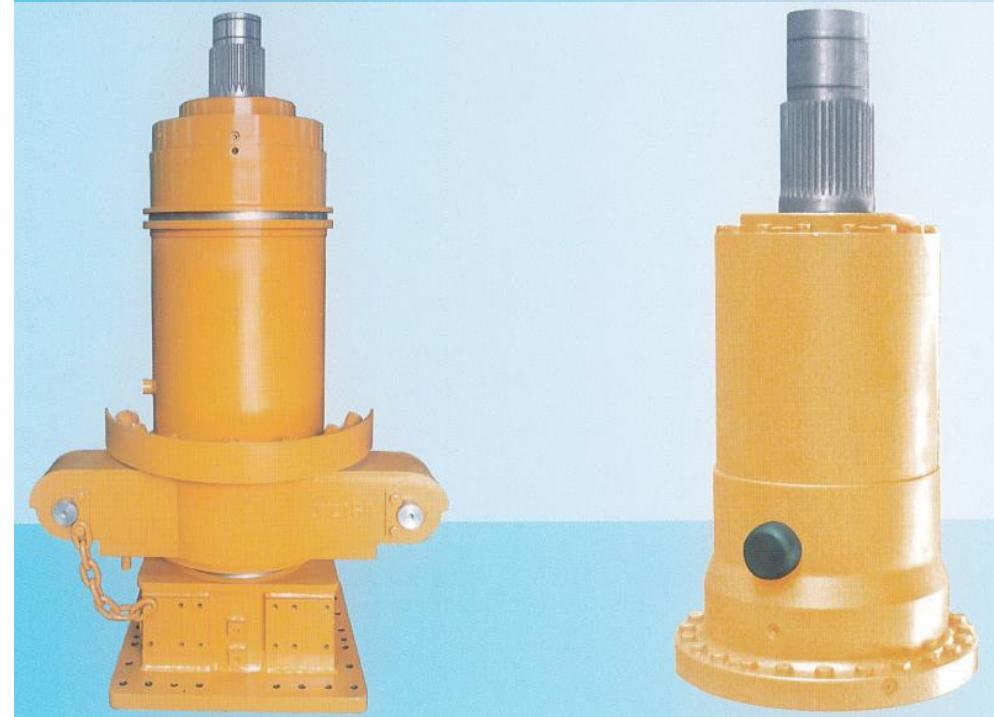
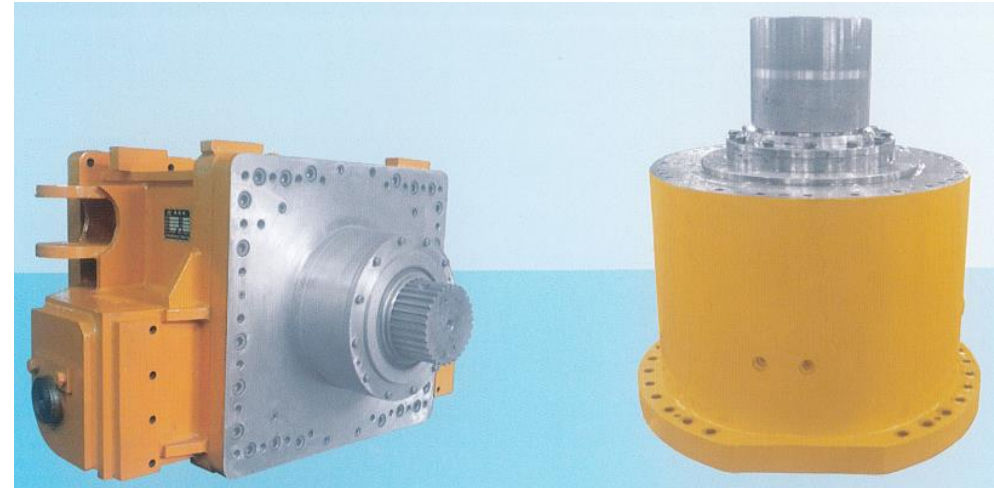
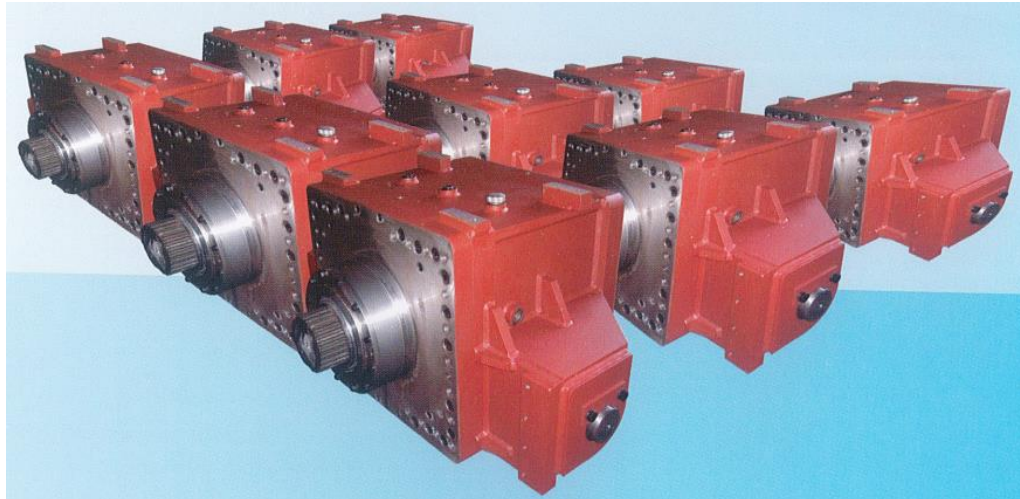


Factory inspection of gearbox

## ◆ Gearbox for Coal Machinery

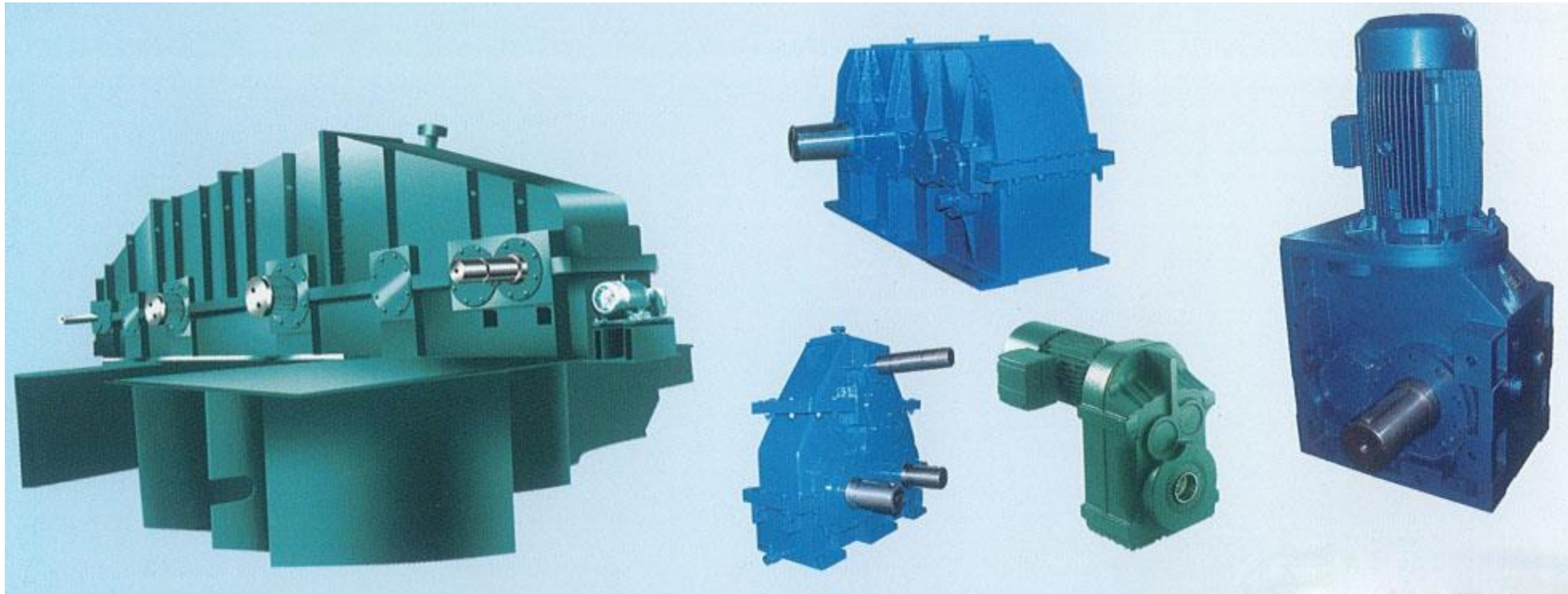
EBZ series roadheader reducer, cutting arm and telescopic part.

Specification: EBZ132-EBZ320.



## ◆ Gearbox for Crane

Gearbox for 10-300 ton metallurgical crane and common crane (main hoist, auxiliary hoist, trolley travel and crane travel).



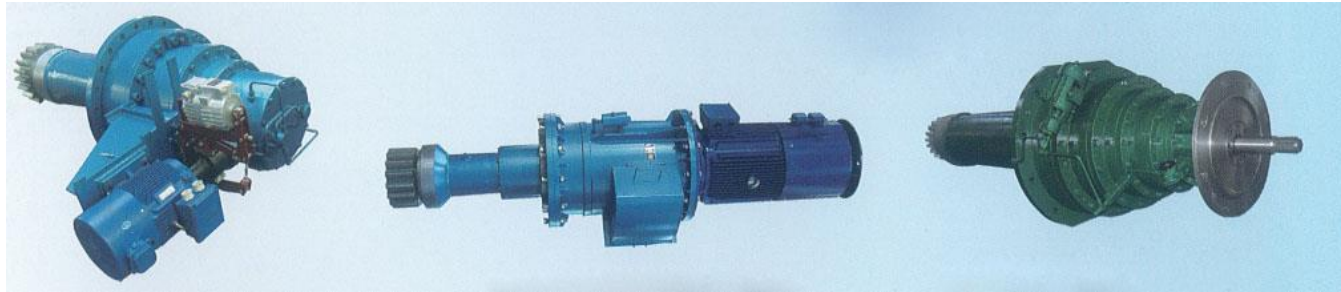
Gearbox for main hoist of 260t metallurgical crane

Gearbox for crane travel

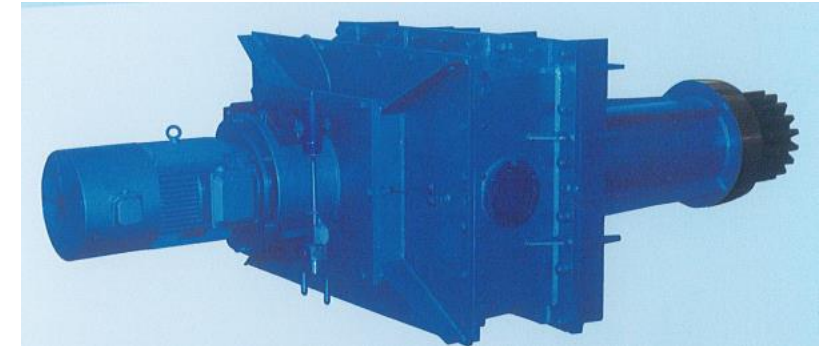


## ◆ Gyration Gearbox

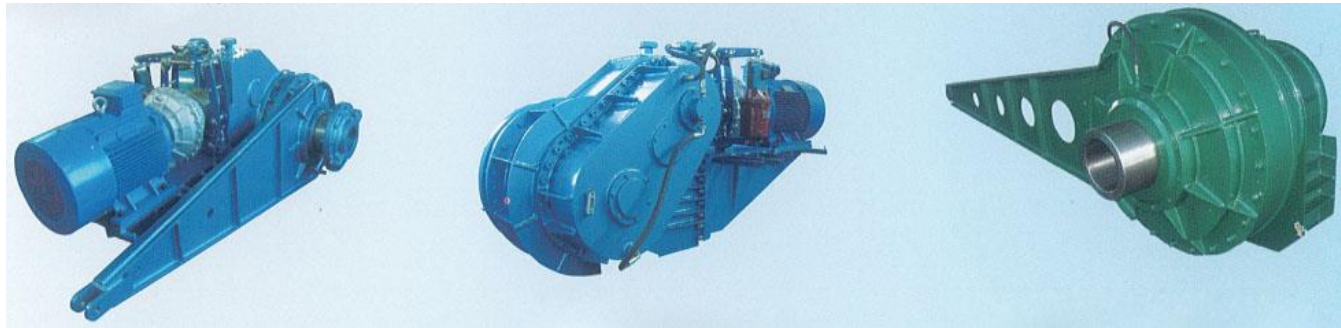
Gearbox for tower crane, portal crane, bucket wheel stacker reclaimer.



Planetary series gyration gearbox



Gearbox for portal crane



Gearbox for bucket wheel stacker reclaimer

## ◆ Gearbox for Stacker reclaimer

- Model: JK810-827 (20 models in total)
- Input speed: 750-1480rpm
- Input power: 3-200kw
- Speed ratio: 96-400

JK series gearboxes are for stacker reclaimers used in metallurgy, mining, cement, power plant industries.



## ◆ Gearbox for Heavy Plate Conveyor

- Model: JDT35, JDT36, JDT37, JDT38
- Speed ratio: 270-840
- Input speed: 1000-1500rpm
- Output torque: 80000-240000N.m



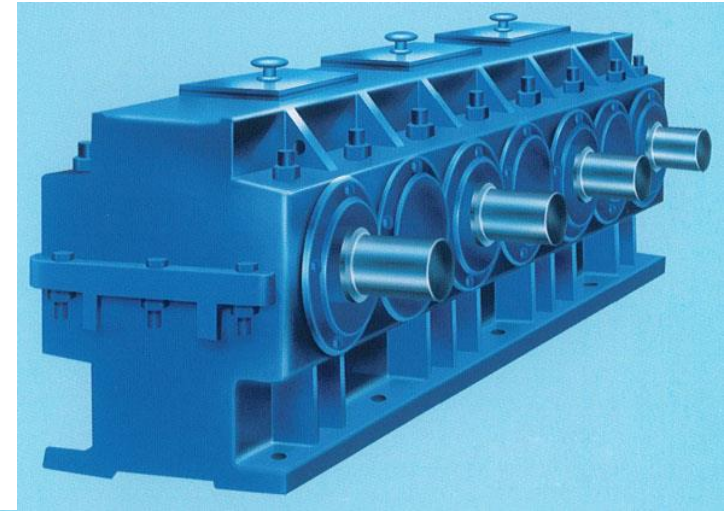
## ◆ Gearbox for Rolling Mill

Specification: 320-550; Application field: applied for wire rod, bar, steel pipe rolling mill.

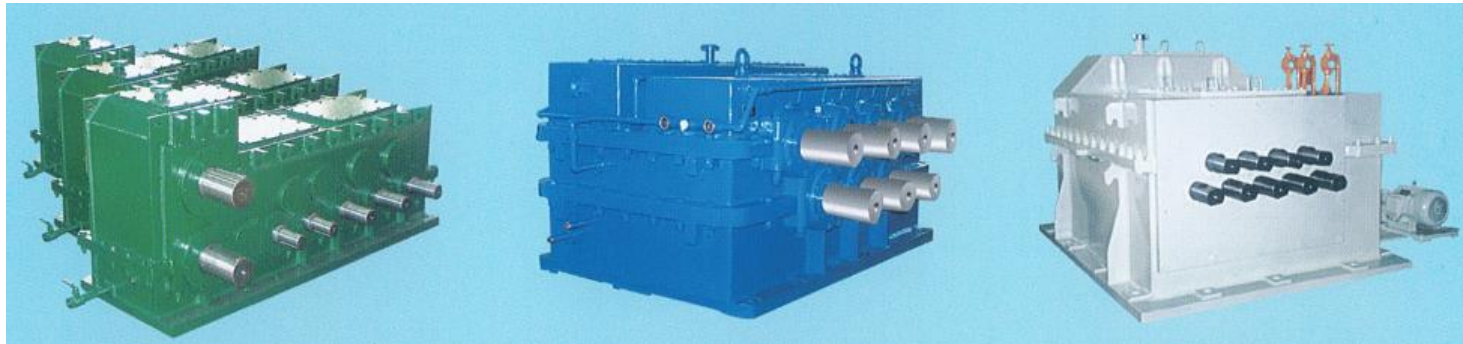


## ◆ Combined Gearbox for Steel Plate Straightener

Specification: 5 rolls-21 rolls (5/7/9/11/19/21, applied for 0.5-50mm plate production line straightener.



Rolling mill speed dividing box



Gearbox for five-roll straightener in pickling line

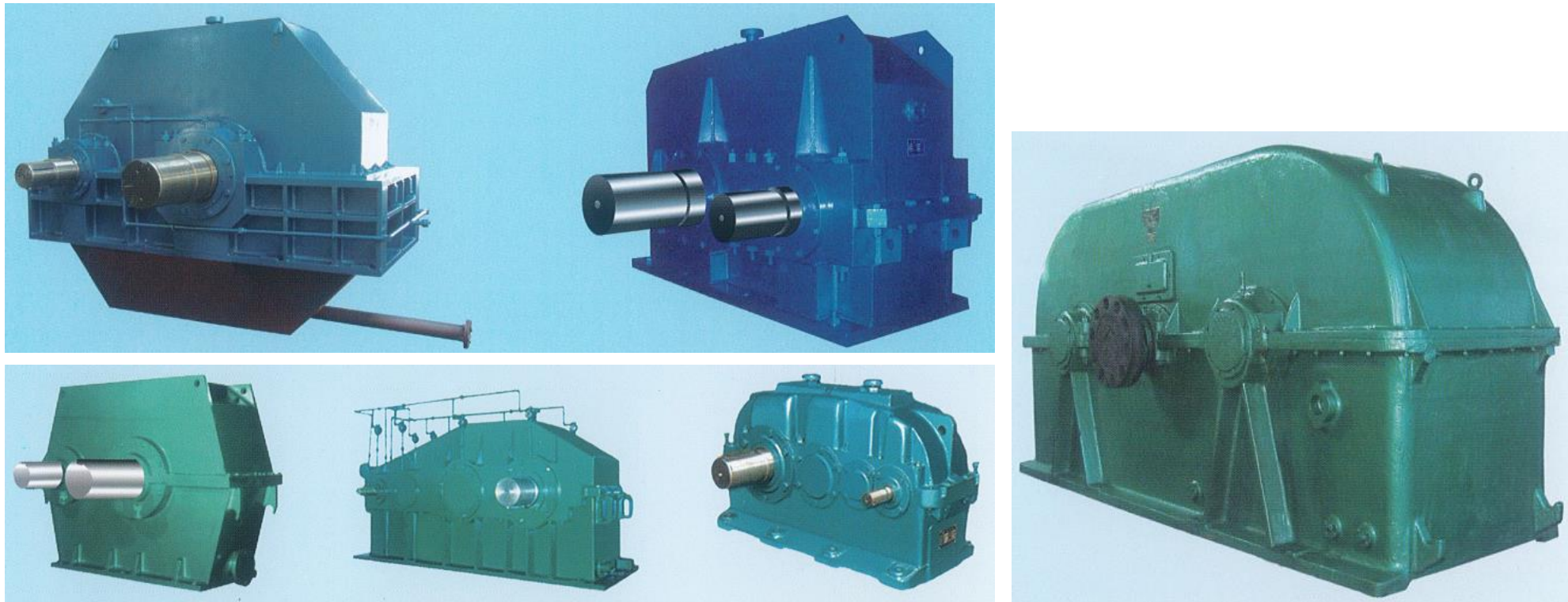
Seven-roll combined gearbox

Nine-roll combined gearbox

## ◆ Gearbox for Ball Mill

Model: MBY710-1000, MFY100-250, ZD40-70, JDX560-1000, JQS3550, 800PS, KH600-1000.

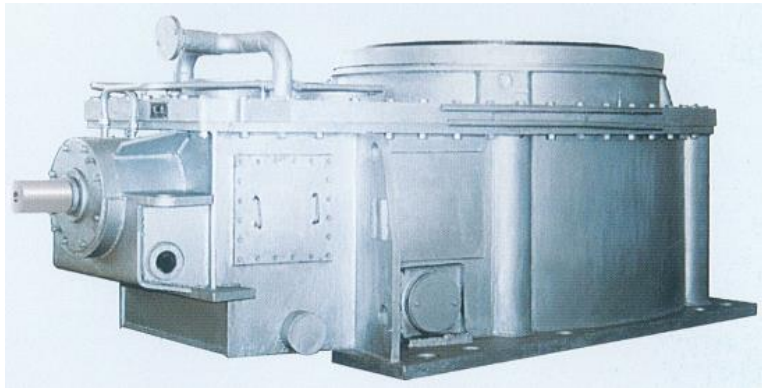
Can match with various ball mills.



◆ Vertical planetary gearbox for medium speed mill

MNL series: MNL56-MNL250 (14 models)

E series: 7.5E, 8.5E



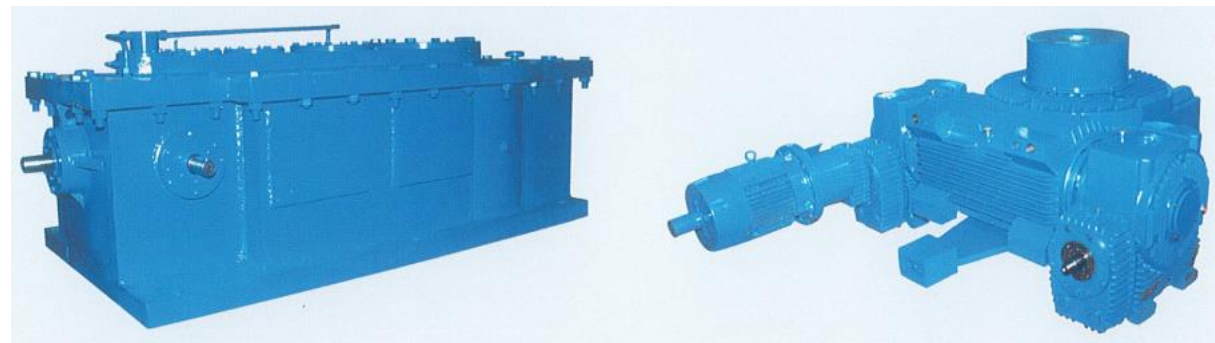
◆ Horizontal planetary gearbox for medium speed mill

Model: DCL140, DCL212, DCL260, DCL265

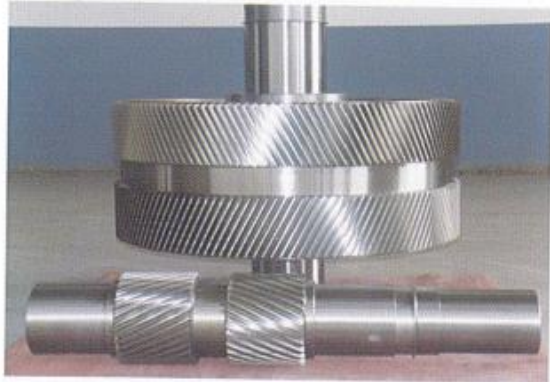
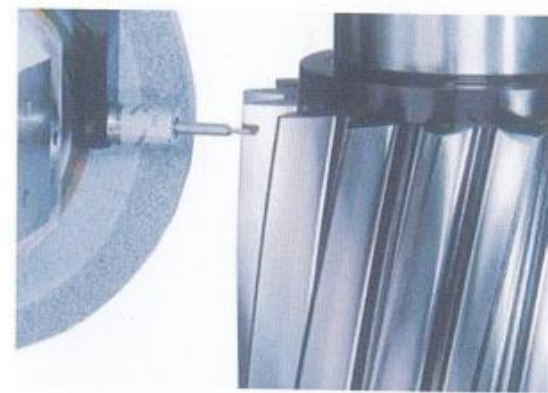
◆ Gearbox for air preheater

MNL series: MNL56-MNL250 (14 models)

E series: 7.5E, 8.5E



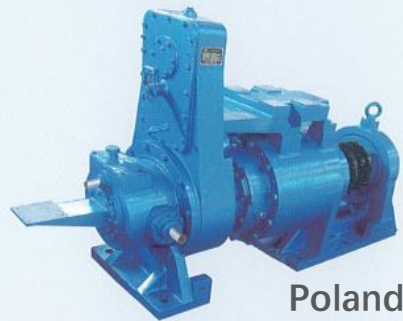
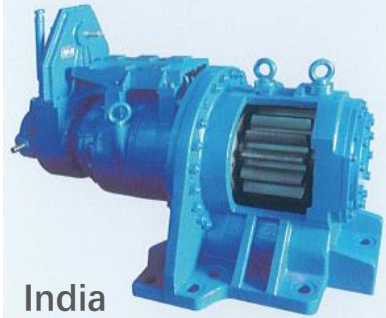
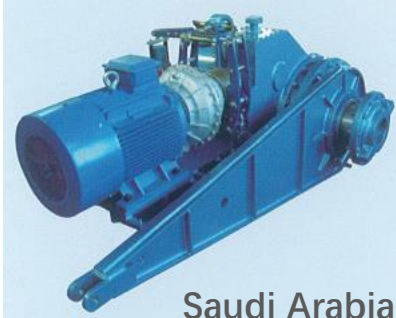
◆ High precision gear



# Export Reference



Gearbox exported to Russia





## ■ Manufacturing facilities

- Holfler RAPID 2000 high precision CNC 5-axis linkage gear grinding machine;
- H1002 high precision gear grinding machine;
- CPV1600 CNC vertical machining center;
- YK51125A CNC gear shaper;
- TK6916 CNC floor boring and milling machine;
- CNC spiral bevel gear milling machine;
- TPX6113/2 horizontal boring and milling machine;
- C5116B single column vertical lathe;
- CNC automatic cutting machine/ gantry planer/ gear making machine/ grinding machine/ pit gas carburizing furnace, etc.

## ■ Testing equipment

Universal involute gear tester, Spiral gear detector, Metallographic detector, Universal spiral bevel gear tester, Ultrasonic flaw detector, etc.



## Reference List for TLC



Sn.	Client	Product specification	Qty.	End user	Year
1	Qinhuangdao Qinye Heavy Industry	TLC gearbox LGFY350 (CHT350A22000)	4	India	2013
2	Qinhuangdao Qinye Heavy Industry	TLC gearbox JGF320	2	India	2013
3	Qinhuangdao Qinye Heavy Industry	TLC gearbox LGFY150 (CHY150B22000)	1	India	2014
4	Qinhuangdao Qinye Heavy Industry	TLC gearbox C82102100000	6	India	2017
5	Liaoning Hengtai Heavy Industry	TLC gearbox JGF360	7	Benxi Steel	2018
6	Qinhuangdao Qinye Heavy Industry	335t TLC gearbox JGF320 (C82112200000)	2	Baosteel	2018

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