



PLATE 01

DOUBLE-REDUCTION GEARBOX · PAINTED
AND READY TO SHIP

ELBADRINDUSTRIES.COM

EGYPT · SINCE 2007 · ISO 9001:2015

Gearboxes

New gearboxes and complete overhauls — housings bored, gears cut, assembled and tested in our own two factories in Egypt.

15

PIECES CATALOGUED

50

INDUSTRIAL CLIENTS

19+

YEARS MANUFACTURING

Catalog

2026

WHO WE ARE

We build gearboxes — and bring worn ones back.

EL Badr Industries has cut gears in Egypt since 2007, and a gearbox is where all of it comes together: the housing, the shafts, the gears and the bearings that have to run for years under load.

Send us a drawing, a failed unit or just the nameplate. We strip it, measure it, cut new gears, bore the housing and hand it back assembled, tested and painted. Two factories, twenty-three machines, one ISO 9001:2015 quality system.

50

INDUSTRIAL CLIENTS

19+

YEARS BUILDING GEARS & GEARBOXES

3 m

LARGEST GEAR DIAMETER WE CUT

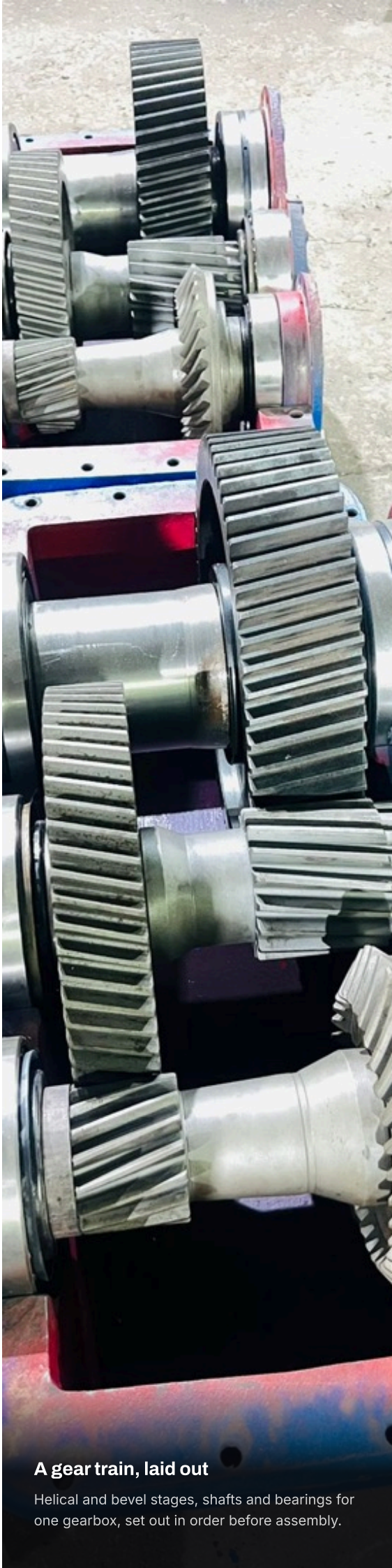
ISO 9001

CERTIFIED SINCE 2008

A stopped gearbox stops the line. We make the gears, bore the housing and send it back tested.

INSIDE THIS CATALOG

How a gearbox job runs, step by step	03
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A gear train, laid out

Helical and bevel stages, shafts and bearings for one gearbox, set out in order before assembly.

THE PROCESS

From stripped-down to shipped

From the first inspection to the truck. The stages marked • are photographed in the catalog that follows.

01

Inspection & diagnosis •

The unit is stripped down, every gear, shaft and bearing measured, and the cause of the failure found before anything is made.

02

Reverse engineering & design

Gear geometry recovered from the worn parts or designed new — ratio, module, helix and loads checked on paper first.

03

Housing machining •

Joint faces milled and bearing seats line-bored on our horizontal boring mills, so every shaft runs true.

04

Gear cutting & shafts •

Spur, helical, bevel and worm gears cut on our own gear machines; shafts turned, splined and keyed.

05

Heat treatment & grinding

Teeth hardened for wear life, then bearing journals and seats ground to size.

06

Assembly •

New bearings and seals fitted, backlash and tooth contact set, the housing closed and sealed.

07

Test run & painting •

Run in on the shop floor, checked for noise and temperature, then painted in the customer's colour.

08

Delivery •

Shafts protected, the unit loaded by our cranes and trucked back to site, ready to bolt down.

AT A GLANCE

Every gearbox job we take on

The bigger the words, the more of it you will find photographed in the catalog.

Helical gears **Housings**

Shaft rebuilds

Mixer drives

Planet carriers

Helical gearboxes **Pinion shafts**

Worm sets

Test run **Line-boring** **Inspection**

TBM gearboxes

Bevel-helical gearboxes

Bearings & seals **Mill drives**

Splined shafts

Obsolete units

Replacement gears

Worm reducers

Planetary gearboxes

Bevel gears

End caps

Conveyor drives

PARTS INDEX

23 things we build and repair

Machined or fabricated to your drawing, your sample or the worn original. ● marks the ones photographed in the catalog that follows.

Gearbox types

- Parallel-shaft helical gearboxes
- Bevel-helical (right-angle) gearboxes
- Worm gear reducers
- Planetary gearboxes
- Tunnel boring machine gearboxes
- Mill & kiln main drives
- Mixer & agitator drives
- Conveyor, crusher & elevator drives

Inside the box

- Helical & double-helical gears
- Spur gears & pinion shafts
- Bevel & crown gear sets
- Worm & worm wheel sets
- Splined shafts & hubs
- Planet carriers, sun & ring gears
- Cast & fabricated housings
- Bearing covers, end caps & seal carriers

Overhaul & repair

- Complete strip-down & inspection report
- Line-boring worn bearing seats
- Replacement gears cut from a worn sample
- Worn shafts rebuilt by welding & re-machining
- Bearing & seal replacement
- Upgrading obsolete gearboxes
- Test run, painting & delivery

New gearboxes

05 PIECES



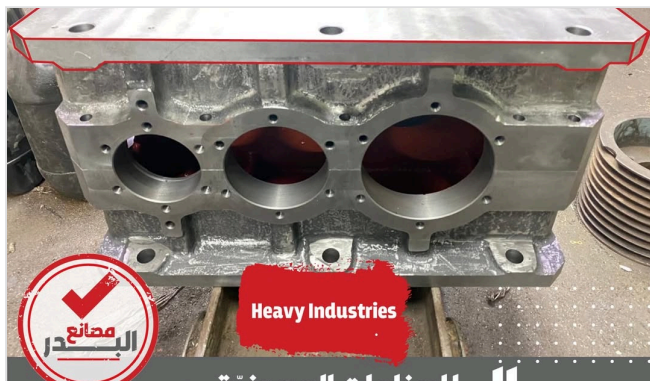
Tunnel boring machine gearbox

Splined spur gears for a gearbox we built for a tunnel boring machine, for one of Egypt's largest contractors.



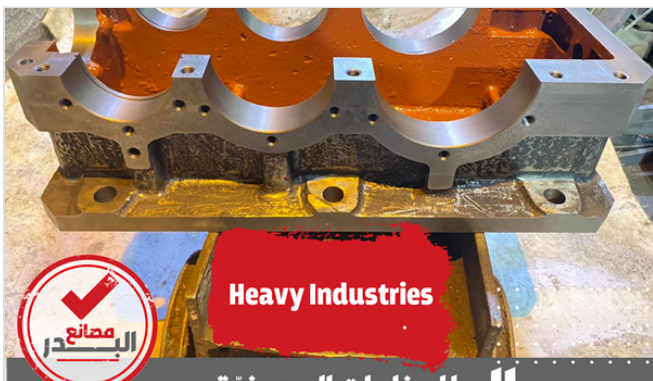
A gear train, laid out

Helical and bevel stages, shafts and bearings for one gearbox, set out in order before assembly.



Housing, line-bored

A three-stage housing with its bearing bores machined, built for a water company's gearbox.



Split housing, machined

The lower half of a split housing with the joint face milled and bearing seats bored.



Assembled and painted

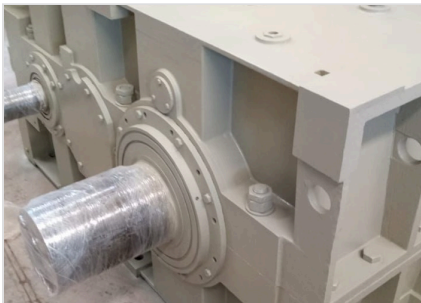
A heavy-industry helical gearbox, closed up, painted and ready for its test run.

Overhaul & repair

07 PIECES

**Overhaul · before**

A worn mill gearbox lifted onto the shop floor for a complete strip-down.

**Overhaul · after**

The same unit rebuilt: new gears and bearings, housing restored and repainted.

**Re-boring worn bearing seats**

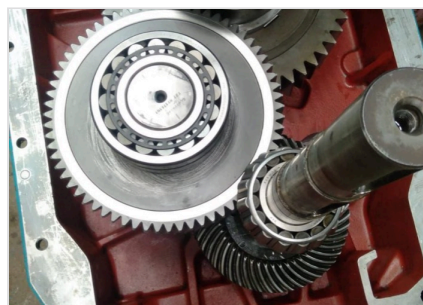
A gearbox housing set up on the horizontal boring mill to restore its bearing seats.

**Helical gear set, renewed**

Maintenance finished: new helical gears and pinion shaft seated back in their housing.

**Worn gear train · before**

Pitted gears and failed bearings found at inspection — the reason the drive stopped.

**Rebuilt gear train · after**

Replacement gears cut from the worn originals, fitted with new bearings.

**Giant gearbox maintenance**

A heavy machinery gearbox in for maintenance — the scale our overhead cranes handle.

Tested & delivered

03 PIECES



Back to the cement plant

Cement plant gearboxes, fully overhauled, being loaded to go back into service.



Loaded and on its way

A finished EL Badr-designed gearbox strapped down on the truck for delivery.



Shafts wrapped for the road

Input and output shafts protected and the unit painted — ready to install on arrival.

ON FILM

Gearboxes, in motion

Paper does not move — so point a phone camera at any code below and the film opens on our Facebook page.



FILM 01

Mill gearbox — bearing seats and new gears

Restoring the bearing seats of a mill gearbox and cutting the gears that go back in it.



REEL 02

A complete gearbox, built

One of our customers' gearboxes, made from scratch and assembled.



REEL 03

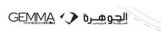
Gearboxes on the shop floor

A walk past the gearboxes in our factory, for industries across Egypt and the Middle East.

CLIENTS

50 companies who trust us

Cement, ceramic, steel, food, glass and more — the plants whose drives we build, repair and keep turning.



Gemma Ceramic



Ceramica Cleopatra



Art Ceramic



Royal Ceramic



Gloria Ceramic



Mayorca Ceramic



Ceramic Alfa



Ceramic Remas



Farsina Ceramic



Venezia Ceramica



Platino Ceramica



Majestic Porcelain



Lento Ceramica



Omega Ceramics



Ceramica Prima



Ceramica Granito



Amir Ceramics



Canal Sugar



Free Foods Co.



Nile Sugar



Marbella for Food Industries

**Naga Hamady
Sugar Factory**

Nag Hamady Sugar Factory



Obourland for Food Industries



Al Nour for Dairy Industries



Hwamdy Sugar Factory



Have a part to manufacture?

Send us your technical drawings — or even the worn-out part itself — and our engineering team will come back to you with a detailed quotation.

CALL

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WRITE

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