PLATE 01

HEAVY-DUTY GEARBOX · OPENED UP FOR A FULL OVERHAUL

ELBADR Industries

EGYPT · SINCE 2007 · ISO 9001:2015

Cement Industry

Gears, shafts, spare parts and steel structures for cement plants — designed, machined and welded in our own two factories in Egypt.

14	5	19+	Catalog
PIECES CATALOGUED	CEMENT PRODUCERS SERVED	YEARS MANUFACTURING	2026

ELBADRINDUSTRIES.COM

WHO WE ARE

We make the parts that keep a cement plant turning.

A cement plant runs around the clock, and a stop on a kiln or a mill is enormously expensive. EL Badr Industries has been cutting gears and machining heavy mechanical parts in Egypt since 2007 — and for the cement industry that means everything from the crusher shafts at the quarry to the gearboxes at the packing plant.

Bring us a drawing, a sample or the worn part itself. We reverse-engineer it, machine it on our own lathes, mills and boring machines, and hand it back finished and painted. Two factories, twenty-three machines, one ISO 9001:2015 quality system.

5
CEMENT PRODUCERS SERVED

19+
YEARS IN METAL MANUFACTURING

100%
DESIGNED AND MADE IN EGYPT

ISO 9001
CERTIFIED SINCE 2008

> Send us the worn part. We send back a new one — reverse-engineered, machined on our own machines, finished and painted.

INSIDE THIS CATALOG

The cement production line, stage by stage	03
At a glance — everything we make	04
Parts index — 42 parts we make	05
The catalog — 14 pieces, photographed	06
On film — heavy parts, in motion	10
The cement producers we supply	11

Artelon star spiders
CNC-milled from German Artelon for the RDF alternative-fuel lines of cement plants.

THE LINE

Eight stages, one supplier

Where we come in, from the quarry to the packing plant. The stages marked • are photographed in the catalog that follows.

01

Quarry & crushing

Crusher rotor shafts, eccentric shafts and flywheels, apron feeder sprockets — the heavy turning at the very front of the plant.

02

Raw material handling •

Raw material wagon boxes, stacker and reclaimer slewing rings, conveyor pulleys and bucket elevator drives.

03

Raw milling •

Girth gears and pinions, drive couplings and complete gearbox overhauls for ball mills and vertical roller mills.

04

Alternative fuels (RDF) •

Artelon star spiders for the star screens, shredder shafts and feeder drives for refuse-derived fuel lines.

05

Preheater & kiln •

Kiln girth gears and pinions, support roller shafts, and the ducts and steelwork around the preheater tower.

06

Clinker cooling

Cooler drive shafts, clinker crusher shafts, dampers and the gearboxes behind them.

07

Cement grinding

Ball mill drives, separator rotor shafts, roller press spares and the gearboxes that turn them.

08

Packing & dispatch

Rotary packer drive gears, bag conveyor drives, sprockets and loading-chute steelwork.

AT A GLANCE

Everything we make for a cement plant

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

Support roller shafts
Loading chutes
Complete gearbox rebuilds
Gears to 3 m
Screw conveyors
Separator rotor shafts
Reverse engineering
Splined screw segments
Kiln seal steelwork
Slewing rings
Girth gears & pinions
Bag conveyor drives
Mill trunnions
Shredder shafts
Mill drive couplings
Drive pulleys
Connecting rods
Packer drive gears
Conveyor pulleys
Star screen shafts
VRM roller shafts
Eccentric shafts
Thrust rollers
Gearbox overhaul
Dampers & fan shafts
Lead screws
Artelon star spiders
Reclaimer drives
Crusher rotor shafts
Worm gears
Rotor discs
Cooler drive shafts
Crusher drive pulleys
Apron feeder sprockets
Roller press shafts
Splined shafts
Industrial ducts
RDF feeder drives
Bucket elevator shafts
Kiln girth gears
Raw material wagon boxes
Bearing housings

PARTS INDEX

42 parts we make for cement plants

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

Quarry & crushing

- ○ Hammer and impact crusher rotor shafts
- ○ Jaw crusher eccentric shafts, flywheels & bushes
- ○ Crusher rotor discs & hammer pins
- ○ Apron feeder drive sprockets, shafts & rollers
- ○ Crusher drive pulleys & couplings

Raw material handling

- ● Slewing rings for stackers & reclaimers
- ● Raw material wagon boxes
- ● Belt conveyor drive & tail pulleys
- ○ Bucket elevator head shafts, sprockets & buckets
- ○ Screw conveyor flights & shafts
- ○ Reclaimer harrow & scraper chain drives

Raw & cement milling

- ○ Ball mill girth gears & pinions
- ● Mill drive gearbox overhauls
- ○ Mill drive couplings
- ○ Mill trunnions & hollow shafts
- ○ Vertical roller mill roller shafts & rocker arms
- ○ Separator & classifier rotor shafts
- ○ Roller press shafts & bearing housings

Alternative fuels (RDF)

- ● Artelon star spiders for RDF star screens
- ○ Star screen shafts
- ○ Shredder shafts & rotor discs
- ○ RDF feeding screw & conveyor drives

Preheater, kiln & cooler

- ○ Kiln girth gears & drive pinions
- ○ Support roller shafts & bearing housings
- ○ Thrust roller assemblies
- ● Industrial ducts, elbows & cyclone steelwork
- ○ Kiln inlet & outlet seal steelwork
- ○ Cooler drive shafts & clinker crusher shafts
- ○ Dampers, flap gates & fan shafts

Packing & dispatch

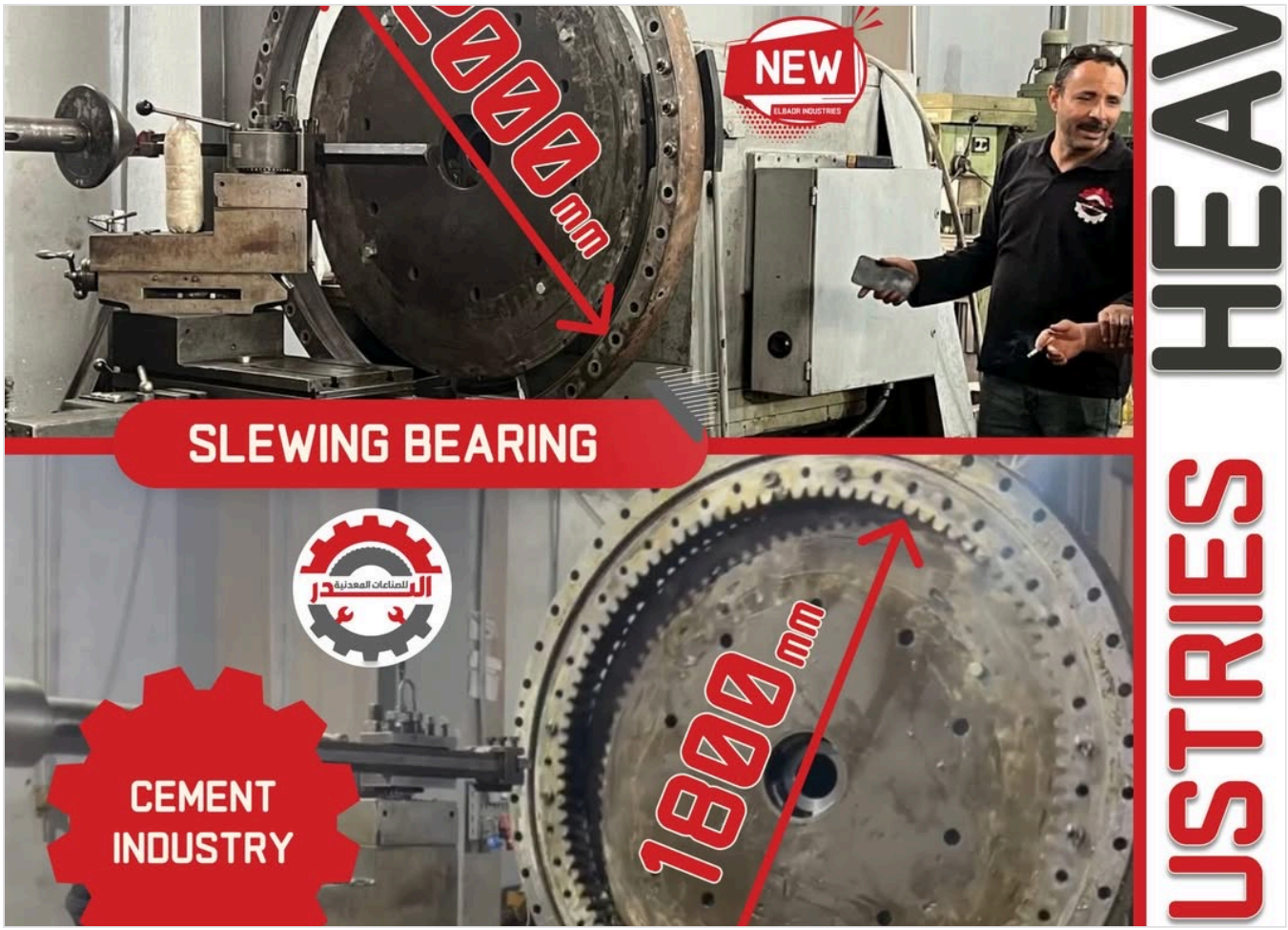
- ○ Rotary packer drive gears
- ○ Bag conveyor drives & sprockets
- ○ Truck loader chute steelwork

Anywhere on the line

- ○ Spur, helical, bevel, worm & planetary gears to 3 m
- ○ Complete gearbox rebuilds
- ○ Worm gears & worm shafts
- ● Splined & stepped shafts
- ● Screw segments with splined bores
- ● Lead screws & bronze nuts
- ● Toothed, V-belt & taper-lock pulleys
- ● Connecting rods — repair & re-boring
- ○ Bushes, sleeves & bearing housings
- ○ Reverse engineering from a worn sample

Gears & drives

03 PIECES



Slewing ring, Ø2000 mm

A 2000 mm slewing bearing ring on the heavy lathe — and its 1800 mm geared partner below it.

Toothed drive pulley

A deep-toothed drive pulley, cut from solid on our gear machines.

Feeder belt pulleys

Belt pulleys wrapped in diamond-pattern rubber lagging for grip, mounted on their shafts and ready to fit.

Spare parts

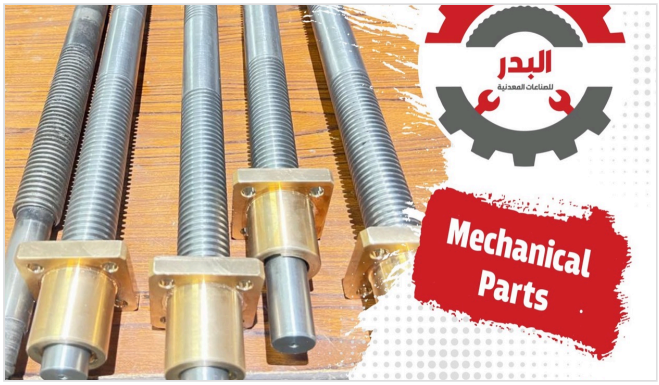
05 PIECES

Artelon star spiders

CNC-milled from German Artelon for the RDF alternative-fuel lines of cement plants.

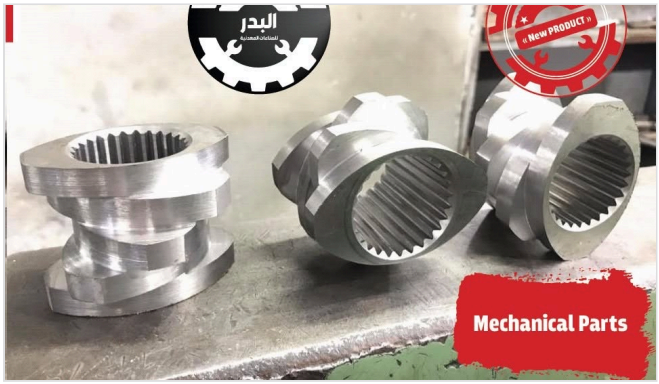
Splined shafts

A batch of stepped splined shafts, turned and cut as one production run.



Lead screws & bronze nuts

Power screws with their flanged bronze nuts, machined as matched sets.



Splined screw segments

Screw segments with a splined bore, machined to the pitch and profile of the original.

Screw segments — three sets

Three complete sets, stacked and ready for inspection.

Steel structures

04 PIECES

Industrial ducts

Large-bore duct sections rolled, welded and painted in the shop, under our overhead crane.

Wagon box · 1 — design

Every build starts on the drawing: the raw material wagon box, modelled and numbered part by part.

Wagon box · 2 — manufacturing

Plates cut, drilled and welded into the box on the shop floor.

Wagon box · 3 — finished

Primed, painted and ready to go back on the raw material wagon.

Overhaul & maintenance

02 PIECES

Giant gearbox overhaul

A heavy-duty gearbox opened up on our shop floor for a full maintenance overhaul.

Connecting rod repair

A cement plant connecting rod set up on the boring mill for its maintenance.

ON FILM

Heavy parts, 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

Grinding a crusher rotor shaft

A 2250 mm rotor shaft for a cement plant crusher, on the cylindrical grinder.

FILM 02

A 690 mm mill coupling

Machining a power-transmission coupling, 690 mm across, for a cement mill drive.

FILM 03

Worm gear for a cement client

Cutting a worm gear on our shop floor for one of our cement plant customers.

REEL 04

CNC milling an Artelon star

German Artelon, cut on the CNC into star spiders for RDF lines.

CLIENTS

5 cement producers

The cement companies who send us their drawings, their worn parts and their kiln shutdown schedules.

Arabian Cement

Titan Cement International

Royal El Minya Cement

Heidelberg Materials

South Valley Cement

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.

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WRITE

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