



PLATE 01

SPLINED SCREW ELEMENTS · MILLED
FROM SOLID

EGYPT · SINCE 2007 · ISO 9001:2015

CNC & Milling

Precision turning and 4- and 5-axis milling — one-off parts
and batches, machined in our own two factories in Egypt.

52

PIECES CATALOGUED

50

INDUSTRIAL CLIENTS

19+

YEARS MANUFACTURING

Catalog

2026

WHO WE ARE

The part that is hard to make — made to the drawing.

Some parts can only be cut on a machine that moves in five directions at once: the twisted rotor of a pump, the star of an RDF screen, a housing that has to be right on every face. That is what our CNC shop is for.

Send us a drawing, a model or the worn part. We program it, cut it on our CNC lathes and four- and five-axis centres, grind it and measure it — one piece or a thousand, under one ISO 9001:2015 quality system.

50

INDUSTRIAL CLIENTS

5

AXES OF SIMULTANEOUS MILLING

19+

YEARS IN METAL MANUFACTURING

ISO 9001

CERTIFIED SINCE 2008

One piece or a thousand — programmed, cut and measured against your drawing.

INSIDE THIS CATALOG

How a CNC job runs, step by step	03
At a glance — everything we make	04
Parts index — 31 parts we make	05
The catalog — 52 pieces, photographed	06
On film — chips flying	11
The companies we work for	12



Screw rotor
A deep-flighted screw rotor cut from solid.

THE PROCESS

From drawing to finished batch

From the drawing to the finished batch. The stages marked • are photographed in the catalog that follows.

01

Drawing, model or worn sample •

We work from your drawing, a 3D model, or the broken part itself — measured and reverse-engineered.

02

CAM programming

Toolpaths programmed and simulated on screen before a single chip is cut.

03

Material •

Tool steel, alloy and heat-treated steel, cast and ductile iron, stainless, aluminium, bronze or German Artelon — chosen for the job.

04

CNC turning •

Shafts, rolls, bushes, rings and threads on our CNC lathes, including live-tool 4th-axis work.

05

4 & 5-axis milling •

Helical rotors, star spiders, housings and blocks cut in one set-up on the four- and five-axis centres.

06

Wire cutting & grinding

Hardened profiles cut on CNC wire, journals and shafts ground to final size.

07

Heat treatment

Hardening and tempering where the part needs to wear, done under the same quality system.

08

Inspection & delivery •

Measured against the drawing, first piece and every batch, then packed and shipped.

AT A GLANCE

Everything we turn and mill

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

Batch production Seam roller blocks **Press bed plates**

Timing pulleys Rebar mill rollers

Flow meter rotors Aluminium parts

Reverse engineering **Slewing bearings**

Grinding rings **Machine tool spares**

Manifold blocks Saw blades

Connecting rods Cutting blades

Compressor rotors Pump screws

Shaft grinding **Star spiders** Couplings **Pinion shafts**

Grooved pulleys Internal splines

Lead screws Bearing housings

Mixer shafts Ceramic spares

Punches **Screw elements**

Pipe mill rolls **Bushes & sleeves**

PARTS INDEX

31 kinds of part we machine

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

Milled parts

- Pump screws & helical rotors
- Flow meter rotors
- Artelon star spiders & cams
- Press bed plates, 150–500 t
- Bearing housings & pillow blocks
- Aluminium profiles & housings
- Manifold & valve blocks
- Internal gears & helical splines
- Hardened knives & cutting blades

Turned parts

- Steel cutting punches
- Grinding rings for mining
- Pinion & splined shafts
- Bushes, sleeves & threaded hubs
- Lead screws & bronze nuts
- Mixer & screw shafts
- Couplings — steel & ductile iron

Rolls & pulleys

- Pipe drawing & forming rolls
- Lead rollers for rebar mills
- Seam roller base blocks for spiral pipe lines
- Multi-groove mill & grinder pulleys
- Timing pulleys

Spare parts in series

- Ceramic plant spares — spindles, slip pump bodies & valves
- Lathe & machine tool spares
- Extruder screw & kneading elements
- Batches made to one drawing

Repair & maintenance

- Slewing bearings to Ø2000 mm
- Connecting rods — re-boring
- Screw air compressor rotors
- Saw blade sharpening to Ø1800 mm
- Crusher rotor shaft grinding
- Reverse engineering from a worn sample

4 & 5-axis milling

21 PIECES



5-axis CNC at work

Our five-axis machining centre cutting a part in one set-up.



Splined gear shaft on 5 axes

A splined shaft with an integral gear, machined on the five-axis centre.
ELBADRINDUSTRIES.COM

CNC turning

10 PIECES



STEEL CUTTING NEW

Grinding metal Ring

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للصناعات المعدنية

Made in Egypt

المصانع
البدر

NEW
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Mining Industry

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Grinding rings for mining

A large batch of metal grinding rings for a mining customer.

Rolls & pulleys

08 PIECES

Dine

HEAT RESISTANT MATERIAL

**درفيل تشكيل
مواسير حديد**

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البحر

CERTIFIED ISO 9001 GUARANTEE

Made in Egypt






Pipe forming rolls

Heat-resistant forming rolls for a steel pipe mill.

Spare parts in series

09 PIECES



Spare parts in series

Long spindles machined as one batch for a ceramic plant.

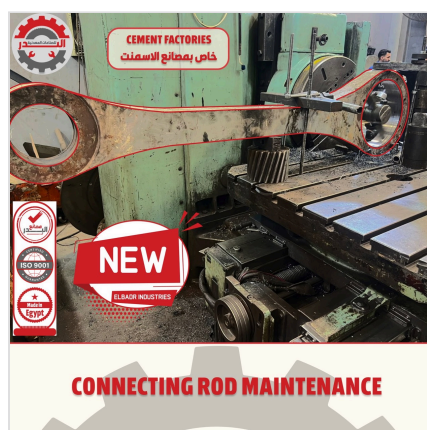
Repair & maintenance

04 PIECES



Slewing bearing, Ø2000 mm

Maintaining a 2000 mm slewing bearing and its 1800 mm geared ring for a cement plant.



Connecting rod maintenance

A cement plant connecting rod on the boring mill, its bearing seats being restored.



Screw air compressor

The twin rotors of a screw compressor, back in shape after maintenance.



1800 mm saw blade sharpening

Re-sharpening a 1800 mm circular saw blade for a cardboard mill.

ON FILM

Chips flying

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



FILM 01

Five-axis CNC, running

Our 5-axis machining centre at work on the shop floor.



FILM 02

A hexagon on two simultaneous axes

Cutting a six-sided part with the 3rd and 4th axes moving together.



FILM 03

From 3D model to 4-axis part

A grooved sleeve, from the 3D drawing and the CAM program to the finished part.



FILM 04

An Artelon cam on the 4th axis

A motion-transfer cam cut from German Artelon using the lathe's fourth axis.



FILM 05

Seam roller base block — wire cutting

A base block for a spiral pipe line's seam roller, cut on CNC wire cutting.



FILM 06

Turning a pipe drawing roller

A tool-steel roller for a pipe drawing line, on the CNC lathe.



FILM 07

Lead rollers for a rebar mill

Turning lead rollers for a reinforcing-steel mill on our CNC lathes.



FILM 08

Milling an Artelon star



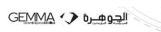
FILM 09

A 690 mm mill coupling

CLIENTS

50 companies who trust us

Cement, ceramic, steel, glass, food, petroleum and more — the plants we machine parts for.



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.

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