

ERKA Radiator

Company Overview



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The Company at a Glance



PANOTO-ERKA, was established in 1975. Company had been serving local automotive market by producing copper-brass radiators. Due to increase in global demand, company transformed itself into a global cooling supplier and it has been serving local and foreign market since 1998.

On recent restructuring as a part of specialisation, ERKA mainly carries out its manufacturing for agricultural products specially for “TRACTOR RADIATORS”

Panoto now specialized in the production of cooling solutions for “POWER GENERATORS”

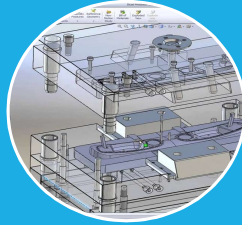
Overview



Timeline



**Work force &
Departments**



**Design &
Engineering**



Production Lines



Major Brands

Timeline

1975

Panoto-ERKA, Istanbul founded Company which initially produced radiators for local automotive market successfully.

1990

ERKA has expanded its range by tractor radiators.

1990-1998

ERKA had been OEM of Uzel Tractor and TOFAŞ Automotive.

1998

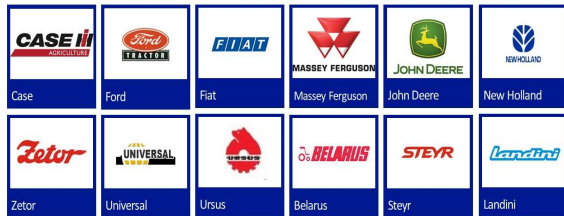
Launched its operations for foreign market.

2000's

Certified by ISO 9001 quality system.

2019

As a global player, Erka provided cooling solutions to more than 46 countries.



Workforce



Sales :10 Employees



Production: 165 Employees

15,000 sqm Facility



Engineering: 11 Employees



Quality: 5 Employees

“ Experienced Employees, P&D Team with engineering and design experts, Sales & Marketing team and Quality Assurance Team as a part of our specialization.

The company which has a highly specialized workforce more or less 200 people, operates from it's 15.000 sqm factory which is strategically located at the crossroads of Europe and Asia. This strategic location offers numerous logistical advantages to **our clients.”**

Marketing & Sales

We Export Worldwide...

Choosing The best service and support as significant as choosing the best products on the market.

We export our products to over 46 different countries for all over the World.

Quality Assurance

**CERTIFICATE**
Management system as per
ISO 9001 : 2015
In accordance with TÜV Teknik Kontrol ve Belgelendirme A.Ş. procedures, it is hereby certified that
**PANOTO**
RADIYATÖR MAKİNE SAN. VE TİC. A.Ş.
Panoto Radyatör Makina San. ve Tic. A.Ş.
Beylikdüzü OSB Mah., Mustafa Kurtuluş Cad., No 18/A, Beylikdüzü,
TR-34510 İstanbul,
Turkey
applies a management system in line with the above standard for the following scope
Design, manufacturing and marketing of engine cooling radiators for
internal combustion engines
Certificate Registration No. 1002810
Audit Report No. TR 121
Valid from 2016-11-23
Valid until 2019-11-22
Initial certification 2010
Certification Body
at TÜV Teknik Kontrol ve Belgelendirme A.Ş.
Istanbul, 2018-02-26
The certificate remains valid until the above stated date if and only if there is an uninterrupted compliance with the requirements of
the standard and certification contract

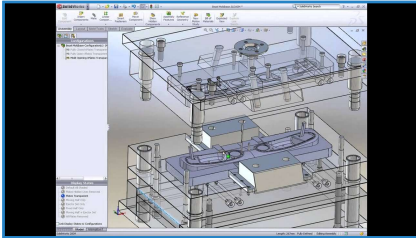
ISO 9001:2015
Approved

**CERTIFICATE**
Management system as per
ISO 9001 : 2015
In accordance with TÜV NORD CERT procedures, it is hereby certified that
**PANOTO**
RADIYATÖR MAKİNE SAN. VE TİC. A.Ş.
Panoto Radyatör Makina San. ve Tic. A.Ş.
Beylikdüzü OSB Mah., Mustafa Kurtuluş Cad., No 18/A, Beylikdüzü,
TR-34510 İstanbul,
Turkey
applies a management system in line with the above standard for the following scope
Design, manufacturing and marketing of engine cooling radiators for
internal combustion engines
Certificate Registration No. 44 100 103552
Audit Report No. TR 121
Valid from 2016-11-23
Valid until 2019-11-22
Initial certification 2010
Certification Body
at TÜV NORD CERT GmbH
Istanbul, 2018-02-26
This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to
regular surveillance audits
TÜV NORD CERT GmbH Langemarkstraße 20 45141 Essen www.tuev-nord-cert.com

IAF & DAKKS
Accredited

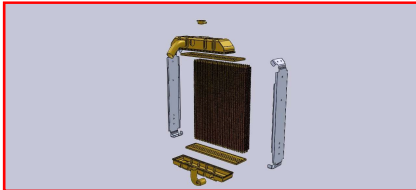
We operate under a quality management system certified to **ISO 9001:2015** with all processes firmly controlled and continuously monitored.

ERKA maintains statistical records of the entire process ranging from **input sourcing, input procurement, production, process quality control, final quality control, dispatch** and all other stages thereby enabling it to identify and correct shortcomings in the system.



Mold Design

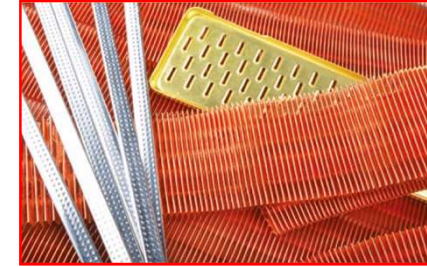
Experienced draftsmans design new molds for radiators to be added to product range.



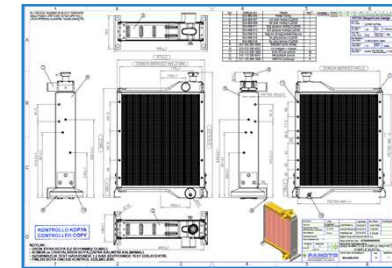
3D Drawing

We are also capable to prepare 3D Drawings for our Cooling Solutions.

Engineering



High Quality Materials and Workmanship



2D Drawing

Our Technical Department prepares the 2D Cad drawings.

**Responsive and Prompt
Engineering Assistance**

ERKA Radiator Production lines



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Production Lines

Tube Forming Machine



PA-500

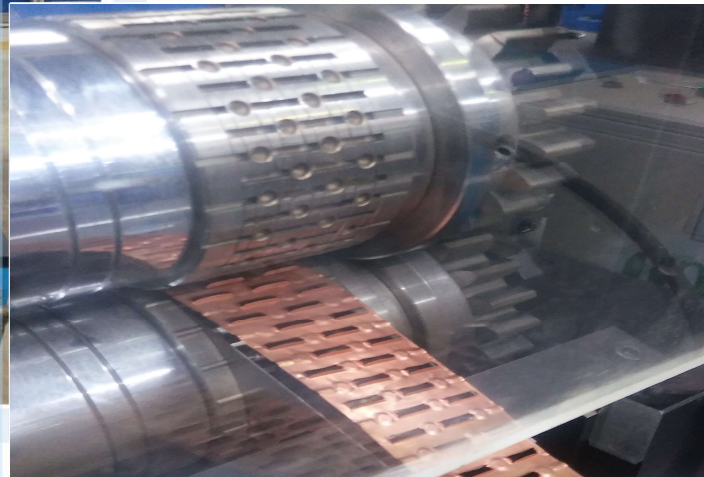
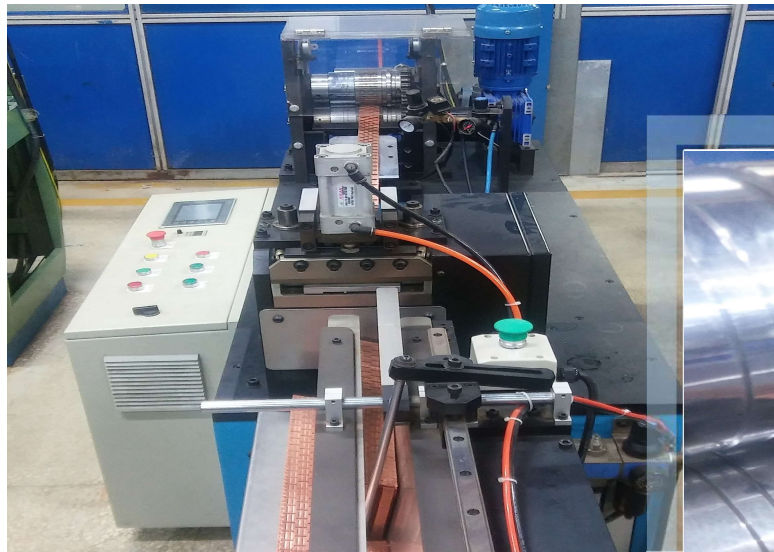
**Full-Automatic
Programmable Control**

Number of Units 3

Capacity 3600 meter / hour

Production Lines

Flat Fin Forming Machines



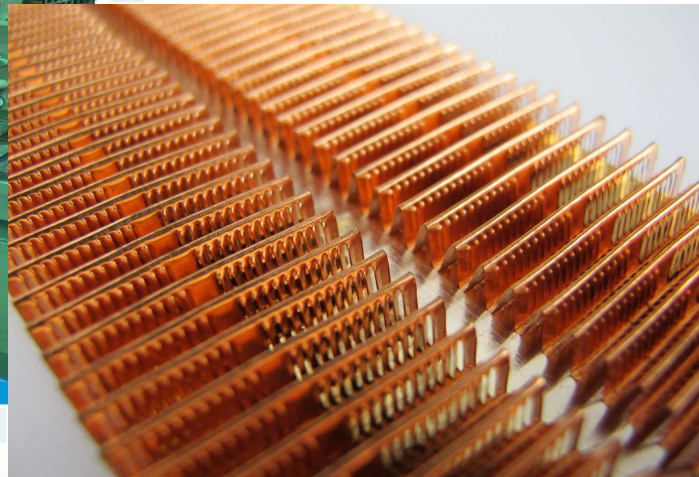
PA-70

Full-Automatic Programmable Control

Number of Units	9
Capacity	900 meter / hour
Variation	11

Production Lines

Schöler Zigzag Fin Rolling Machines



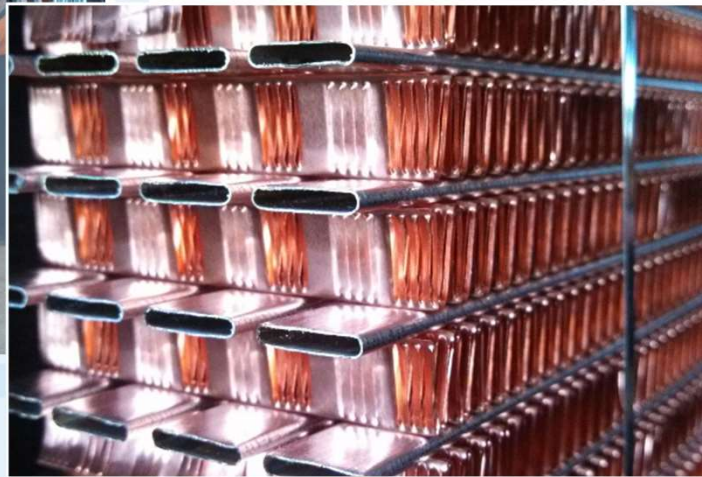
PCO

Semi-Automatic Programmable Control

Number of Units	4
Capacity	4000 zz / hour
Variation	3

Production Lines

ERKA Radiator Core Align Machine



Core Assembly Machine

Semi-Automatic Hydraulic Controlled

Number of Units 5

Maksimum Core Size Up to 6 m²

Production Lines

Prima Power Punch Machine



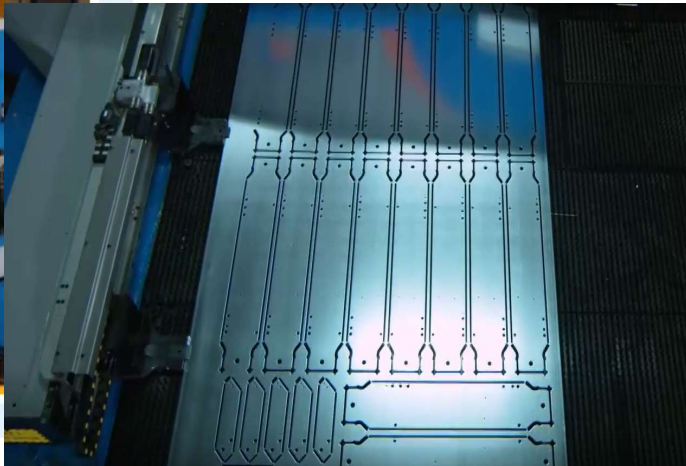
E5X Punch Press

Fully servo-electric

Sheet Size	2,500x1,250 (mm) (99.6" x 50")
Punching Speed	Up to 700 hpm, 1mm between holes
Punching Forces	23 Ton
Total Rotation Speed	133 rpm

Production Lines

Finn Power Punch Machine



Finn-Power E6

Higher range of automation and optional features

Sheet Size	1,500x3,000 (mm) (121x60) (inch)
Punching Speed	Up to 900 hpm, 1mm between holes
Punching Forces	23 Ton
Total Rotation Speed	133 rpm

Production Lines

Euromac Punch Machine



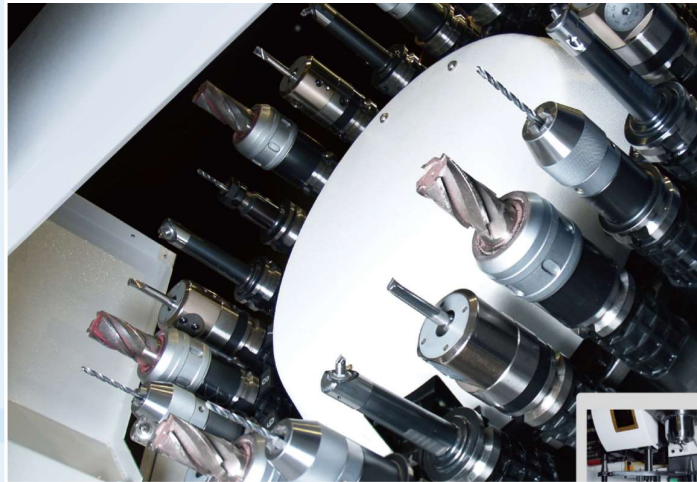
Euromac CX 750/30 CNC

CNC Controlled

Plate Thickness	6 mm
Working Area	1250+R * 750 mm
Punching forces	30 Ton
Max. Number of Strokes	≈ 200 1/min.

Production Lines

Topper Tongtai Vertical Milling Center



TMV-1050 A II

Fanuc Oi-MD Panel

Number of Units	2
Travel X,Y,Z	X:1050, Y:600, Z:530 (mm)
Spindle Speed	10,000 rpm
Table Speed	Up to 30 m/min
Max. Table Load	800 kg
Axis	3 (4 installable)

Production Lines

Baykal Press Brakes



APHS 3106x120

Programmable Multi-Axis Control

Capacity	120 Ton
Working Length	3100 mm
Stroke	260 mm
Maks. Material Thickness	6 mm
Approaching Speed	160 mm/sec.
Working Speed	10mm/sec.

Production Lines

Radiator Core Bake Oven



PCO

Radiator Core Bake Oven

Number of Unit	2
Maksimum Capacity	up to 18 m ²
Warning System	Bulb Alarming

Major Brands We serve in aftermarket

CASE II
AGRICULTURE

Case



Ford

FIAT

Fiat



Massey Ferguson



New Holland

Zetor

Zetor



John Deere



Universal



Ursus

BELARUS

Belarus

STEYR

Steyr

Landini

Landini

“Cooling Solutions for Agricultural Machinery”



Referring technology and considerable experience, **ERKA's** goal is providing quality products at lower costs, delivery on time and perfect service to our customers beyond expectations.



Thank You for Listening

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