



technologies
recool

RECYLING COOLANTS IN CNC MACHINES

INDUSTRY NEEDS AND REASONS

★ **Coolants in CNC machines;**

- Contaminated by dust, sawdust, garbage and external oils
- Generates anaerobic bacteria and heavy odor
- Replaced in 3-6 months

★ **Recycling of coolant (cutting fluids) used in CNC machines is needed for sustainable production.**

Other production costs:



Coolant costs:



Cutting material costs:





EXISTING PROBLEMS IN THE SECTOR

Inefficiency

- CNC end blunting
- CNC equipment rusting
- Oil change time

High Costs

- Frequent coolant change
- Decrease in work efficiency
- Damage to equipment
- Waste cost

Employee Health Threat

- Bacterial origin; skin and respiratory diseases

Harm of Wastes to Nature

- Chemicals in the coolant structure seriously harm the environment

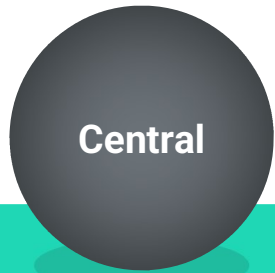


AVAILABLE SOLUTIONS IN THE INDUSTRY



Low Cost – Inefficient Solutions

- Vacuum bench cleaning machines
- External oil separation machines



High Cost – Efficient Solutions

- Central cleaning systems with ozone
- Integrated cleaning systems with ozone

RC-001

Mobility

Bacteria Elimination

Particle Filtering

External Oil Separation



PLC Control

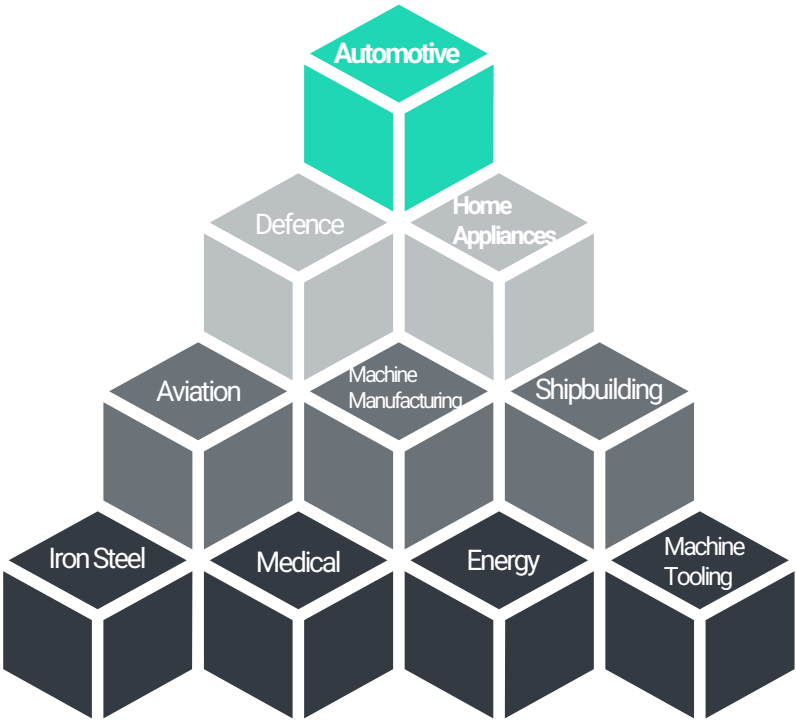
Instant Data Retrieval

RESPECT FOR NATURE, PEOPLE, PRODUCTION



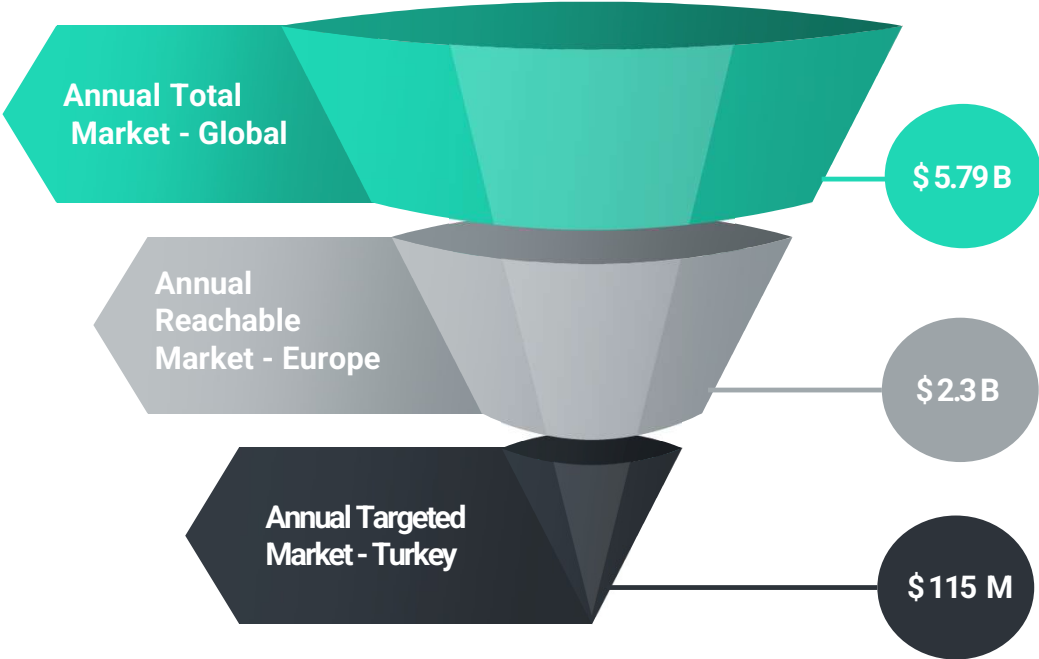
CURRENT MARKET DATA

- Industries -



- Coolant Market -

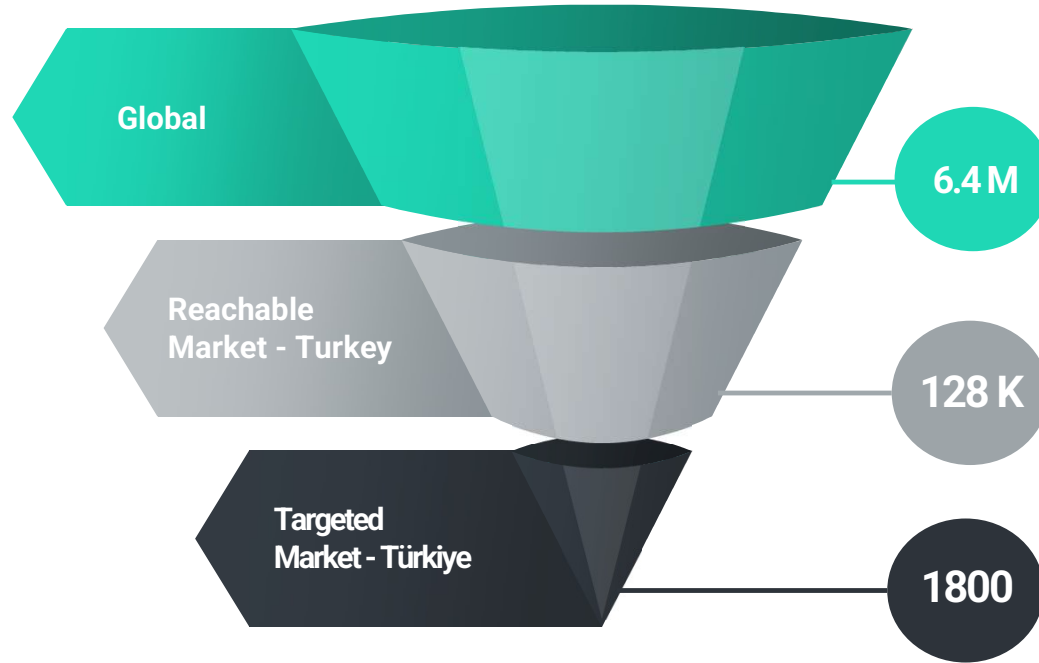
Annual Growth %3.8



*Metal working Fluids Market – Global Industry Trends

CURRENT MARKET DATA






- CNC Machines (Quantity) -



★ An average of 10,000 new CNC machines are sold annually in Turkey.

★ In the first year, we are targeting 1.5% of the reachable market in Turkey

COMPETITION ANALYSIS

Feature					
Solid Particle Filtration	★★★★★	★★★★★	★★★★★	★★★★	★★★★★
External Oil Separation	★★★★★	★★★★★	★★★		★★★★★
Bacteria Filtration	★★★★★		★★★★★		
Mobility	★★★★★	★★★★★		★★★★★	
Instant Data Tracking	★★★★★				
Cost Efficiency	★★★★★	★			

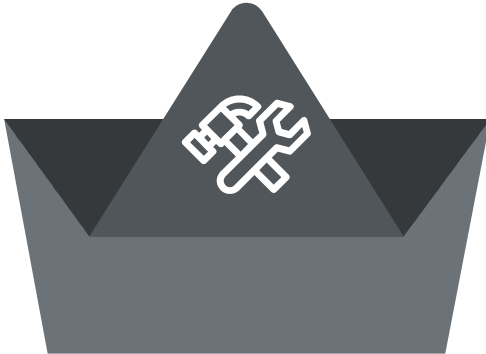
REVENUE MODELS



★
**Product Sales
Service**



★
**Onsite Filtering
Service**



★
**Post-Warranty
Maintenance Service**

ACHIEVEMENTS



We performed our first trial run at Otokar company with successful test results.



Recool Technologies became the approved supplier of Arçelik.



Tubitak 1512 BIGG program has been completed



Planning to arrange trial run with Akdaş, Sampa, AYD Makina, Valfsan, Baykal Makina, Standart Kalıp, Alp Form, CMS Jant and Elsan companies.

Arranged Trial Runs
with below companies

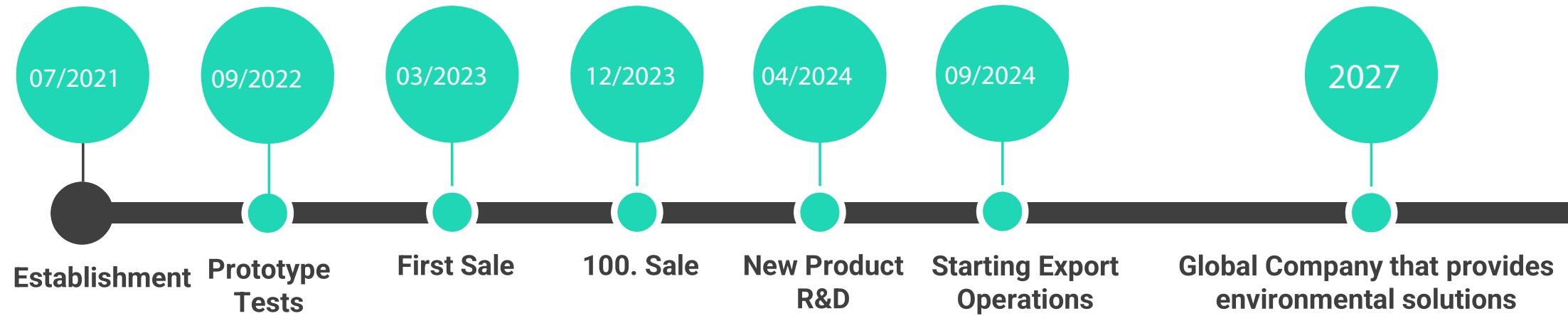
Otokar **TürkTraktör**



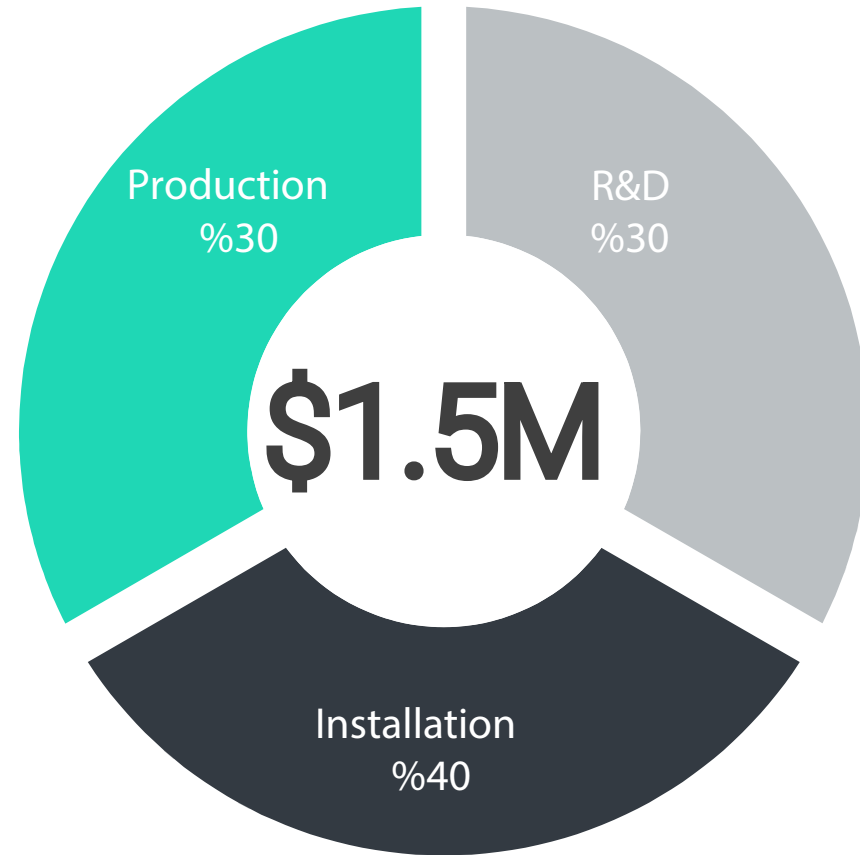
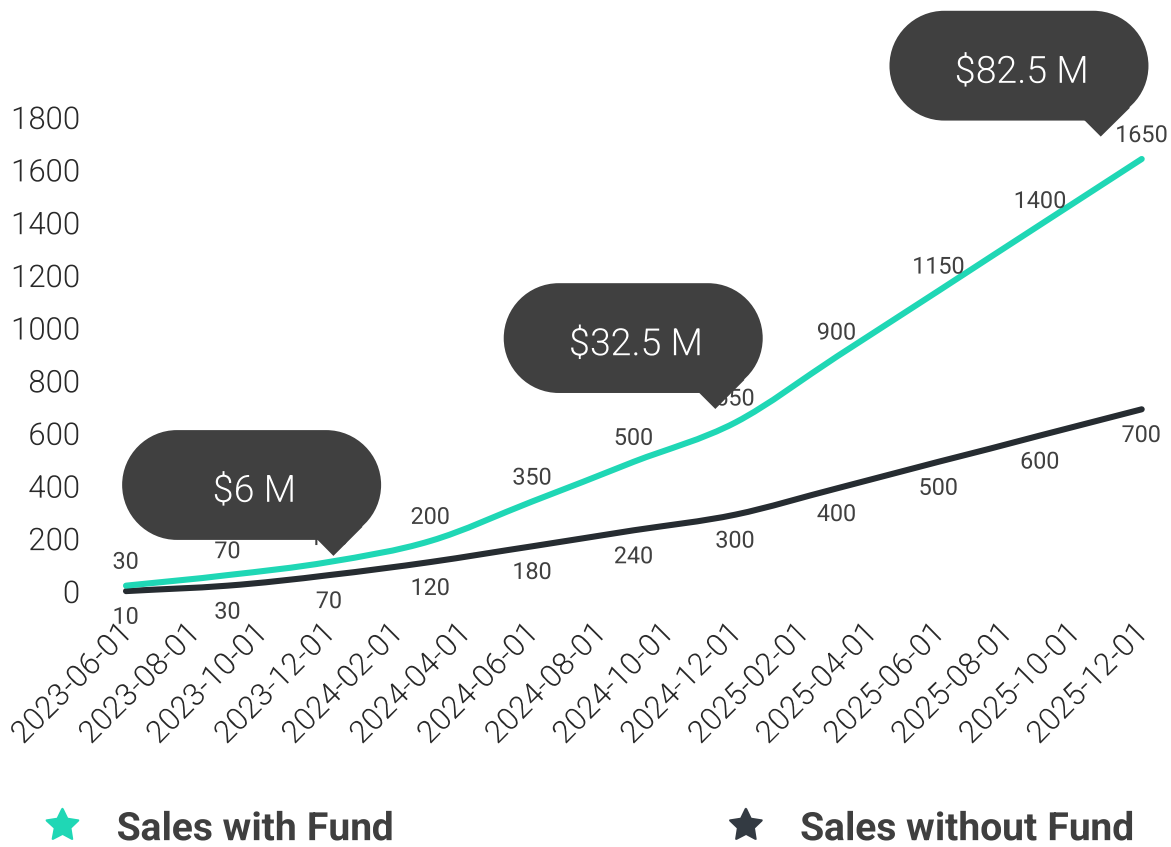
TOFAŞ



RECOOL TECHNOLOGIES MILESTONES



ABOUT THE FUND



ENVIRONMENTAL IMPACT

- **The amount of carbon emission reduction with 1 RC-001 is 992 tons CO₂ / year**
- **The annual amount of carbon emissions in the use of coolant worldwide is 1 Giga ton.**





www.rockefeller-sct.com

