DRUM PUMP
PRODUCT CATALOGUE
Follow us on social media!

- www.instagram.com/ekinendustriyel
- www.facebook.com/ekinendustriyeltr
- www.youtube.com/Ekin Endüstriyel
- www.linkedin.com/company/ekinendustriyel
- www.twitter.com/ekinendustriyel
Sustainable Innovation, Quality Standardization and Dynamism

Ekin has entered Turkey’s sector of the imported plate heat exchanger, with their customer-focused vision and dynamic. Ekin has expanded into new and upcoming investments. One of the main steps was gaining the identity of being a producer. Ekin has started the production of plate heat exchangers with the brand of 'MIT'. We have grown in the philosophy of quality, through initially adapting to ISO Quality Management.

MIT plate heat exchangers have now become a solution to engineering problems in the world market and have grown through an expansion of franchises.

Engineering Approaches, Integrated Solutions

Ekin has expanded into the production of components, sales, and after-sales service by employing expert engineers. The factors that guided Ekin to success are their exceptional customer service to the needs and wants of consumers, modern facilities, and becoming partners to projects that involve high-end technology.

Ekin is an expert company which has a wide product range which includes plate heat exchangers, accumulation tanks, water heater tanks, installation, and its service group and submit competitive advantages to mechanical installation sector in Turkey and all around the world.
APPLICATION FIELDS

HEAT TRANSFER PRODUCTS
- Gasketed Plate Heat Exchangers
- Brazed Heat Exchangers
- Shell & Tube Heat Exchangers
- Air Fan Oil Cooler
- Economizers
- Coils and Radiators

PRESSURE VESSELS
- Water Heater Tanks
- Water Storage Tanks
- Buffer Tanks
- Expansion Tanks
- Stainless Steel Process Tanks
- Balance Tanks / Dirt Separators / Air Separators
- Pressurized Air Tanks
- Neutralization Tanks
- Air Tubes
- Steel IBC Tanks with ADR

COMPLETE SYSTEMS UNITS
- Heat Stations
- Steam Package Systems
- Special Designed Systems
- Dosing Systems
- Substations
- Thermoregulators

FOOD GRADE SYSTEMS
- Pasteurizers with plate heat exchangers
- Hygienic Pasteurizers with Shell & Tube Heat Exchangers
- Cheese and whey Systems
- UHT – Sterilization Systems
- CIP Systems
- Hygienic Storage and Process Tanks
- Homogenizers
- Standardization Systems
- Evaporators
- Turn-key Projects

FLUID TRANSFER PRODUCTS
- Lobe Pumps
- Hygienic Centrifuge Pumps
- Turbo / Roots / Centrifuge Blowers
- Drum Pumps
- Acid Pumps
- Dosing Pumps
- Monopumps
- Air operated Double Diaphragm Pumps (AODD)

VALVES
- Thermoplastic Valves
- Plastomatic Valves

ENERGY SYSTEMS
- Solar Collectors
- Water Heater Tanks for Solar
Content

1. Dino Drum Pumps
All kinds of impeller models adopted sealless design, moisture dry-running is available resistance more than 30 minutes operation.

Safety Coupling
Effectively prevent motor failure.

Compact Design
Fast strip down for quick change of pump and motor.

Flange Connection
PPHT, SS316, PVDF.

Barb Fittings
Special design for quick and safe change of fittings.

High Quality Shaft
SS Series: SS316
PPHT, PVDF Series, Hastelloy.

PTFE Guide Sleeve
Ensure shaft stability.

Threaded Design
Easy maintenance without any special tools required. Quick change of impeller and housing.

HD-E1-V
HD-E2-V
HD-A1
HD-A2
HD-A6

High Performance Bearing Sets
For better performance and reduce power consumption. Stainless steel for high temperature application.

Inner & Outer Tube
PPHT, PVDF SS316.

Rulon Shaft Bushing
Rulon for better acid and alkali resistance, high wear resistance and low friction.

PVDF Impeller
Robust construction to improve abrasion resistance.
PUMP SERIES

Special design for easy repair and quick change of spare parts without any special tool. PTFE guide sleeve and PVDF impeller with abrasion resistant and to make shaft running more stable. Shaft bushing is made of Rulon for best chemical resistance. PPHT PVDF SUS316 tube available with drive shaft made of SUS316 or Hastelloy. It’s the best choice for transferring chemical fluid.

INDUSTRY SERVED
Electronic Optoelectronics Semi-conductor Waste water Chemical industry Petrochemical Laboratory Food industry Cosmetic Biochemistry Paper making industry Painting industry Pharmaceutical Ship industry automotive and other industries.

<table>
<thead>
<tr>
<th>Container Type</th>
<th>Model</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5GAL Bottles</td>
<td>HD-Material 700</td>
<td>700mm (27&quot;)</td>
</tr>
<tr>
<td>55GAL Drums (200L)</td>
<td>HD-Material 1000</td>
<td>1000mm (39&quot;)</td>
</tr>
<tr>
<td>Barrels &amp; Tanks</td>
<td>HD-Material 1200</td>
<td>1200mm (47&quot;)</td>
</tr>
<tr>
<td>IBC'S</td>
<td>HD-Material 1500</td>
<td>1500mm (60&quot;)</td>
</tr>
<tr>
<td>Large Stronge Vessels</td>
<td>HD-Material 1800</td>
<td>1800mm (72&quot;)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Max Temp.</th>
<th>Common Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHT (Polypropylene)</td>
<td>80 °C / 175 °F</td>
<td>Acetic Acid, Sulfuric Acid, Hydrochloric - 20%, Nitric Acid - 20%. Alkalies, Ferric Chloride</td>
</tr>
<tr>
<td>PVDF</td>
<td>100 °C / 212 °F</td>
<td>Concentrated Nitric Acid, Sulfuric Acid-66 Baume, Sodium Hypochlorite, Propionic Acid, Stearic Acid, Hydrofluoric Acid</td>
</tr>
<tr>
<td>SS</td>
<td>100 °C / 212 °F</td>
<td>Alcohol, Gasoline, Aqueous Ammonia, Isopropyl Ether, Solvents, Petroleum Products</td>
</tr>
</tbody>
</table>

For safety, it’s recommended to connect ground wire when pumping flammable or solvent liquids.
HD HIGH VISCOSITY SCREW PUMP

Applications
From high to low viscosity liquid aggressive or neutral liquid polymer lubricator ink shampoo PU & PVC resin and so on.

Test Conditions
Viscosity: 5,000cps
Performance curves may vary 10% based on applications.

<table>
<thead>
<tr>
<th>HD-HV HIGH VISCOSITY SERIES</th>
<th>HD-SS700-HV</th>
<th>HD-SS1000-HV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>HD-SS700-HV</td>
<td>HD-SS1000-HV</td>
</tr>
<tr>
<td>Size</td>
<td>700mm Size (27”) 5 GAL. Bottles</td>
<td>1000mm (39”) 55 GAL. (200L) Drum</td>
</tr>
<tr>
<td>Max. Temp.: 120 °C / 248 °F</td>
<td>Outlet Dimension: 27.5 mm / 33 mm</td>
<td></td>
</tr>
<tr>
<td>Pump: SUS316</td>
<td>Rotor: SUS316</td>
<td></td>
</tr>
<tr>
<td>Stator: PTFE</td>
<td>Max. Viscosity: 100,000cps</td>
<td></td>
</tr>
<tr>
<td>Mec. Seal: SIC</td>
<td>O-ring: PTFE</td>
<td></td>
</tr>
<tr>
<td>Max. Flow Rate: 90 L/min (tested with 2000 cps epoxy and HD-A6 air Motor)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Pressure: 10 bar</td>
<td>Weight: 12 kg</td>
<td></td>
</tr>
</tbody>
</table>
### AIR MOTOR & HD-E MOTOR

**Max. Inlet Air Pressure:** 87psi (6bar)

**Air Consumption:** 0.55Nm/min @6 kg/cm²

**Joint (air):** 1/4” NPT

**Accessories:** Muffler Air Regulator

**Casing:** Aluminum (Epoxy)

**Max. Viscosity:** 700 cps

**RPM:** 7,500 (3bar Air Pressure)

**RPM:** 18,000 (6bar Air Pressure)

**Horsepower:** 420w (0.56HP)

**Weight:** 1 kg

### VARIABLE SPEED CONTROL MOTOR

**HD-A1 OIL FREE AIR MOTOR**

- Max. Inlet Air Pressure: 87psi (6bar)
- Air Consumption: 0.55Nm/min @6 kg/cm²
- Joint (air): 1/4” NPT
- Accessories: Muffler Air Regulator
- Casing: Aluminum (Epoxy)
- Max. Viscosity: 700 cps
- RPM: 7,500 (3bar Air Pressure)
- RPM: 18,000 (6bar Air Pressure)
- Horsepower: 420w (0.56HP)
- Weight: 1 kg

**Test Conditions**

- Pump tested in 25 °C water, 500L drum, with 1” outlet.
- Performance curves may vary ±10% based on applications.
- Max. head is obtained by closing outlet.

Please install the air filter for reduce moisture from the compressed air supply.

**VARIABLE SPEED CONTROL MOTOR**

- HD-E1-V 110 V / 1 / 50-60Hz / 485w
- HD-E2-V 220 V / 1 / 50-60Hz / 485w
- Max. Viscosity: 1,000 cps
- Max. RPM: 20,000rpm (NO-LOAD)
- Overheated Protector
- Safety Handling Switch
- Casing use fireproof material
- 5m SJT Electronic Wire & Plug Included
- Protection: IP44
- Weight: 3 kg

**Test Conditions**

- Pump tested in 25 °C water, 500L drum, with 1” outlet.
- Performance curves may vary ±10% based on applications.
- Max. head is obtained by closing outlet.

**NOT:** Suitable for pumping flammable or combustible liquid.
AIR MOTOR & HD-E MOTOR

Test Conditions

- Pump tested in 25 °C water, 500L drum, with 1” outlet.
- Performance curves may vary ±10% based on applications.
- Max. head is obtained by closing outlet.

Please install the air filter for reduce moisture from the compressed air supply.

<table>
<thead>
<tr>
<th>HD-A2 OIL FREE AIR MOTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Inlet Air Pressure: 87psi (6 bar)</td>
</tr>
<tr>
<td>Air Consumption: 0.55Nm/min@6kg/cm²</td>
</tr>
<tr>
<td>Joint (air): 1/4” NPT</td>
</tr>
<tr>
<td>Casing: Aluminum (Epoxy)</td>
</tr>
<tr>
<td>Max. Viscosity: 1,200cps</td>
</tr>
<tr>
<td>RPM: 8,000 (3bar Air Pressure)</td>
</tr>
<tr>
<td>RPM: 18,000 (6bar Air Pressure)</td>
</tr>
<tr>
<td>Horsepower: 560w (0.75HP)</td>
</tr>
<tr>
<td>Weight: 1.2 kg</td>
</tr>
</tbody>
</table>
OPTIONS

NOZZLE

- Control the flow rate easily.
- Keep the operating environment clean.
- Design to transfer to small containers safely.
- Body Polypropylene
- O-Ring Viton

GROUND WIRE

- It’s important to connect ground wire when pumping flammable or explosive liquids.
- Each 150cm length 16ga electronic wire set comes with clip for connects.

ADAPTOR

- Barrel Adaptor
- Material PP SS 43mm(1.7 inch) thread Air Leaking Adaptor
- Material PP SS Viton barrier to prevent corrosive air from leaking.

WALL BRACKET

- SUS316

TRANSFER HOSE

- PFA Hose
  - 1000mm
  - 1500mm
  - 2000mm is available upon request.
- Braided Hose.

STRAINER

- Recommend when pumping dirty chemical liquids
- Material : PP/PVDF& SS316
- PP Mesh : 2x11mm

DIGITAL FLOW METER

- Casing PP
- Rotor ECTFE
- Sensor CPVC
- Inlet/Outlet 1"PT
- LCD display

HANGER

- SUS304
- For high viscosity series.

---

<table>
<thead>
<tr>
<th>Material</th>
<th>Length</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHT</td>
<td>700</td>
<td>810</td>
<td>700</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>1100</td>
<td>1000</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>1290</td>
<td>1200</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1500</td>
<td>1590</td>
<td>1500</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>1890</td>
<td>1800</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td>PVDF</td>
<td>700</td>
<td>810</td>
<td>700</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>1100</td>
<td>1000</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>1300</td>
<td>1200</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>1500</td>
<td>1600</td>
<td>1500</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>1900</td>
<td>1800</td>
<td>170</td>
<td>41</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td>SS</td>
<td>700</td>
<td>810</td>
<td>700</td>
<td>170</td>
<td>42</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td>1100</td>
<td>1000</td>
<td>170</td>
<td>42</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>1300</td>
<td>1200</td>
<td>170</td>
<td>42</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1500</td>
<td>1600</td>
<td>1500</td>
<td>170</td>
<td>42</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>1900</td>
<td>1800</td>
<td>170</td>
<td>42</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>SS-HV</td>
<td>1000</td>
<td>1300</td>
<td>1025</td>
<td>166</td>
<td>56</td>
<td>28</td>
<td>33</td>
</tr>
</tbody>
</table>

*(Unit: millimeter) Special length is available upon request.
Ekin is aware that the progress in its sector is possible through continuous development and learning.

Ekin Academy, established with this awareness, aims to provide high-quality and sustainable development with its modern education methods, to provide successful employees and to provide value to the society through social responsibility projects.

Training and development programs that will make a direct contribution to the results of our employees' work processes and which will make a difference in their personal development are prepared by Ekin Academy.

For our business partners and customers, our training modules prepared by our expert staff provide training support for pre-sales and post-sales issues such as commissioning, operation, maintenance and repair of our products.

In cooperation with universities within the scope of corporate social responsibility projects, we are experiencing the happiness of adding value to the society by allowing the engineer candidate, who aims to take place in the fields where Ekin is active, to meet with the sector and to experience the theoretical knowledge acquired in the fields of application.

**In-Company Trainings**

Ekin Academy conducts technical, leadership, strategy development, sales and training and development programs for different tasks in the fields of heat transfer, pressure vessels, package systems, food systems and liquid transfer.

**Out-of-Company Trainings**

We are realizing conferences and training activities to our business partners, professional groups and institutions where we carry out social responsibility projects in various locations of Turkey.
At Ekin, we produce a proactive solution by our engineering staff who are specialized in their field. Our team, which works with the aim of unconditional customer satisfaction, works selflessly in order to gain customer loyalty by raising the bar of success in products, services and processes.

We are happy to share our accumulated knowledge with our valued customers. Ekin will continue to be the best solution partner for you in all applications with all kinds of heating and cooling applications.

Customer Satisfaction
Customer rights are protected in all circumstances.

Privacy Policy
Aware of the importance of protecting personal information, personal information is not shared with third parties.

Information Security
The requirements of ISO 27001 information security management system are fulfilled at Ekin.

Ethical Values
In all our business relations, our principle of mutual benefit by adhering to laws and ethics is our principle.
PROFESSIONAL SYSTEM SOLUTION CENTER

From our MIT professional system solution center, you can get help with problems with your pumps, heat exchangers and your system. Our solution center consisting of our expert engineers will be happy to help you.

• Domestic hot water installations.
• Central and district heating systems.
• Milk, yogurt, buttermilk heating, cooling and pasteurization systems.
• Industrial cooling and heating systems.
• Oil cooling systems.
• Energy recovery systems.
• Pool heating systems.
• Steam installations.

It is vital for your system to be designed and implemented correctly in the first installation in order to be able to operate at the desired capacity, smoothness and long life. For this reason, you can get first-hand the technical support you need during the installation phase of your system and the problems that may arise in the business; You can reach us 24 hours (216) 444 35 46 in 7 days.

We would like to reiterate that we will be happy to share our knowledge accumulated over many years with our valued customers in order for your system to work correctly and performance.

Ekin will continue to be the best solution partner for you in all applications with all kinds of heating and cooling applications.
Our products are produced with Turkish engineering technology in **135 countries** in the world today...