A Katana is a Japanese product, it’s made with a traditional know-how started in 300 a.C.. Katana is manufactured with care and precision of details. Only years of experience can give the necessary capacity to build a masterpiece.

This is what we do with our pumps. Our 100 years of Japanese experience in pumps manufacturing are the base to project and realize pumps with high quality performance, reliability and cutting-edge mechanical parts.

We look forward not forgetting the past.

EBARA new vertical multistage pumps named “EVMS” are manufactured with the highest standards of quality, to achieve reliable operating performance by means of strict technical evaluation criteria and control programs that involve the whole manufacturing process.

We listen to the market. Our design is unique. EVMS can offer the exceptional values through the cutting-edge solutions that best suits your needs.
- **Pump Type**
  EBARA vertical multistage in line pumps EVMS

- **Model range**
  1, 3, 5, 10, 15, 20 m³/h flow sizes

- **Maximum operating range (Pressure/Liquid temperature)**
  16 bar or 25 bar / -30 to +140 °C

- **Material version (bottom casing)**
  EVMS (AISI 304), EVMSL (AISI 316), EVMSG (Cast iron)

- **Pipe connections**
  Round flange / Loose Flange / Oval flange / Victaulic® / Clamp

- **Motor**
  High Efficiency motor IE3 over 0.75 kW, 50 Hz / 60Hz,
  Single phase / Three phase
  PTC as standard for the above 1.5 kW
Main product features

1. Innovative hydraulic solutions
   - **Any motor, anywhere.**
   - **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load
   - **Long life of the motor bearing**
   - **High pump efficiency** classified in MEI > 0.7 as the most efficient models
   - **Patent Application n.VI2014A000271**

2. Energy saving
   - **High efficiency IE3 motor starting from 0.75 kW** complied with the EuP 2005/32/EC and ErP 2009/125/EC directives
   - **The VFD (Variable frequency drive) and the commercial sensor** can be directly mounted on EVMS to maintain physical constant operations such as pumping pressure depending on the conditions of use

3. Piping connection options
   - The various pipe connections are available depending on the application requirements
   - The external dimensions can be adjusted to the replacement of the existing pump in the wide majority

<table>
<thead>
<tr>
<th>Material</th>
<th>Round flange DIN (incl. ANSI depending on models)</th>
<th>Loose Flange DIN (incl. ANSI depending on models)</th>
<th>Oval Flange</th>
<th>Plug-In connection (Victaulic®, Clamp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AISI304/</td>
<td><img src="image1" alt="Round flange DIN" /></td>
<td><img src="image2" alt="Loose Flange DIN" /></td>
<td><img src="image3" alt="Oval Flange" /></td>
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<tr>
<td>AISI316</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast Iron</td>
<td><img src="image1" alt="Round flange DIN" /></td>
<td><img src="image2" alt="Loose Flange DIN" /></td>
<td><img src="image3" alt="Oval Flange" /></td>
<td><img src="image4" alt="Plug-In connection" /></td>
</tr>
</tbody>
</table>

4. Shaft seal solutions
   - **Shaft seal material:**
     - B: Resin impregnated carbon graphite
     - Q: Sintered silicon carbide
     - Qg: Silicon carbide with carbon graphite
   - Carbon or graphite inclusions with silicon carbide can be used as dry lubricant to reduce friction.
   - It’s conforming to EN12756 (ex DIN 24960)

5. Easy maintenance
   - **The cartridge shaft seal** enables the plug in replacement of the shaft seal without disassembling the motor bracket
   - **The spacer coupling** allows easy maintenance without having to remove heavy motors over 5.5 kW.

6. Smart plug solutions
   - **Air ventilation plug**
   - **Water filling & sensor plug**
   - **Commercial sensor fitting**
   - **Measurements for suction and discharge pressure / drain**
Reliability is made by numbers

1 Million
Cycles of the endurance test*

2 Times
Higher test criteria than nominal operating conditions*

3 Times
Much less axial thrust load than common pumps

The pump axial thrust load is caused by the unbalance of the static pressure between a front shroud and a back shroud of an impeller. That always causes the reduction of the bearing life of the motor.

General methods to work with the axial thrust load are as below.

• Increasing the size of motor bearing or using enhanced motor bearings.
• Mounting additional ball bearings on the pump bracket.

These measurements are historically known to cause complicated mechanical structures.

EBARA new designed impeller “Shurricane” can reduce the pump axial thrust load with high pump efficiency by means of the innovative hydraulic design method.

EVMS can accept the commercial motors without any modifications and improve the maintenance cycles of motor bearing.

Any motor, anywhere.
Fields of applications

INDUSTRY

- **Water treatment**
  - reverse osmosis
  - ultra-filtration
  - water purification
  - micro-filtration
  - softening, ionizing
  - and demineralising systems
  - swimming pools
  - separators
- **Boiler feeding**
  - steam systems
  - condensate systems
- **Wash and clean**
  - vehicle washing systems
  - industrial part washing
  - laundry systems
  - supply of liquids with acids and bases
  - supply of chemical liquids
- **Chilling**
  - handling of refrigerants for cooling
  - thermal control systems
  - industrial cooling
  - laser cooling
- **Machine tooling**
  - cooling lubricant supply for tooling machines
- **Pressure boosting**
  - pressure boosting for industrial use
- **Food & beverage**
  - food washing systems
  - bottle wash systems
- **Pharmaceutical industries**
- **Marine applications**
  - freshwater, deckwash, high fog and fire fighting on ships

BUILDING SERVICE

- **Pressure boosting**
  - pressure boosting for buildings
  - pressure boosting for high rise buildings/hotels
- **Sprinkler systems**
- **Fire fighting systems**
  - jockey pump
- **District heating**
- **Heat exchangers / fan heaters**
- **Air conditioning systems**
- **Heating systems**

WATER SUPPLY

- **Water treatment**
  - water treatment plants filtration
  - water treatment plants transfer
- **Pressure boosting**
  - transfer from water treatment plants (mains)
- **Irrigation**
  - golf course / sport fields irrigation
- **Agriculture**
  - sprinkler irrigation
  - drip irrigation
In harmony with our customers

EBARA worldwide service points

please see the contact list on page 21.
EVMS DATA
Performance Range
50Hz

**EVMS 1-3-5-10-15-20**
EVM 32-45-64

**Minimum efficiency index (MEI)**

<table>
<thead>
<tr>
<th>Pump type</th>
<th>MEI</th>
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<tr>
<td>EVMS(1)</td>
<td>&gt; 0.70</td>
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<tr>
<td>EVMS(3)</td>
<td>&gt; 0.70</td>
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<tr>
<td>EVMS(5)</td>
<td>&gt; 0.70</td>
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<td>EVMS(10)</td>
<td>&gt; 0.70</td>
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<td>EVMS(15)</td>
<td>&gt; 0.70</td>
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<td>EVMS(20)</td>
<td>&gt; 0.70</td>
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Performance Range
60Hz

EVMS 1-3-5-10-15-20
EVM 32-45-64
Sectional Drawing
EVMS 1-3-5-10-15-20
## EVMS - Vertical multistage pumps

### Product Specifications

#### EVMS 1-3-5-10-15-20 Pump

<table>
<thead>
<tr>
<th>Version</th>
<th>EVMSG</th>
<th>EVMS</th>
<th>EVMSL</th>
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<tr>
<td><strong>Nominal flow rate (m³/h)</strong></td>
<td>1</td>
<td>3</td>
<td>5</td>
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<tr>
<td><strong>Maximum working pressure</strong></td>
<td>1.6/2.5 MPa (16 bar/25 bar)</td>
<td></td>
<td></td>
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<tr>
<td><strong>Maximum liquid temperature range</strong></td>
<td>-30° to 140°C</td>
<td></td>
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#### Key Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Impeller</td>
<td>EN 1.4301 (AISI 304) EN 1.4401 (AISI 316)</td>
</tr>
<tr>
<td>2. Intermediate casing</td>
<td>EN 1.4301 (AISI 304) EN 1.4401 (AISI 316)</td>
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<tr>
<td>3. Liner ring</td>
<td>EN 1.4301 (AISI 304) + PPS EN 1.4401 (AISI 316) + PPS</td>
</tr>
<tr>
<td>4. Bottom casing</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>5. Casing cover</td>
<td>EN 1.4301 (AISI 304) EN 1.4401 (AISI 316)</td>
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<tr>
<td>6. Shaft</td>
<td>EVMSG 1-3-5-10-15-20 (depend on models)</td>
</tr>
<tr>
<td>7. Shaft sleeve bearing</td>
<td>Tungsten carbide</td>
</tr>
<tr>
<td>8. Shaft seal</td>
<td>Please see the shaft seal options on page 18.</td>
</tr>
<tr>
<td>9. O ring</td>
<td>EPDM FPM</td>
</tr>
<tr>
<td>10. Outer casing</td>
<td>EN 1.4301 (AISI 304) EN 1.4404 (AISI 316L)</td>
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<tr>
<td>11. Motor bracket</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>12. Tie rod</td>
<td>Galvanized steel 6.8 strength class ISO 898/1</td>
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<tr>
<td>13. Coupling</td>
<td>Die cast aluminium (up to 4 kW), Cast iron (from 5.5 kW)</td>
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<tr>
<td>14. Base</td>
<td>Cast iron Die cast aluminium</td>
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</table>

#### Pipe Connection

<table>
<thead>
<tr>
<th>Flange</th>
<th>Option</th>
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</table>
| Oval flange up to 16 bar | ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● •
### Shaft seal data

**EVMS 1-3-5-10-15-20**

<table>
<thead>
<tr>
<th>Pump model</th>
<th>Max liquid temperature range</th>
<th>Shaft seal type</th>
<th>1 Rotating Part</th>
<th>2 Stationary Part</th>
<th>3 Elastomers</th>
<th>4 Spring</th>
<th>5 Collar</th>
<th>Type key</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cartridge</td>
<td>Unbalanced</td>
<td>Balanced</td>
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<tr>
<td></td>
<td>up to 16 bar</td>
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**Legend:**
- ● Standard
- ○ Options
- () Type key

**Diagram:**
- Up to 16 bar
- From 16 bar to 25 bar
### Pipe Connection data

#### EVMS - Vertical multistage pumps

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<th>Flange Type</th>
<th>Maximum operating pressure</th>
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<td>G1½</td>
<td>G1½</td>
<td>G2</td>
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<td>160</td>
<td>200</td>
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<td>100/180</td>
<td>130/215</td>
<td>130/215</td>
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<tr>
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<td>90</td>
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For further information

Data book

Instruction Manual

Kensaku
system for spare parts selection

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