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|  | <p>Potential Commodities</p> |
| <p>2020-09-23</p> | <p>Sourcing channel Ukraine</p> |

Bearings



General Requirement:


Long life, high precision and suitable for universal motors with high rotational speed.

Today's suppliers :

- Europe, Japan and China

Yearly turnover Kärcher 1 Million EUR in total over all.

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Stamping parts



General Requirement:


High precision and many metal sheet versions available. Follow-on compound process as well as standard processes. Downstream hardening processes
Standard steels and stainless steels

Today's suppliers :

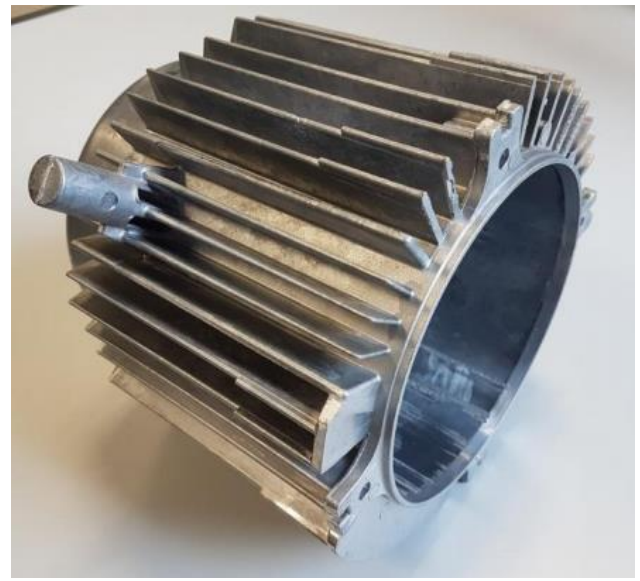
- Europe and Taiwan

Yearly turnover Kärcher 900.000 EUR in total over all.

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Die-casting



General Requirement:

High precision injection machines and high precision machining machines to overwork the raw parts. Required injection machine sizes between 300 and 750 to (only cold chamber horizontal)


- Needed material:
 - ❖ EN-AC - 43400
 - ❖ EN-AC - 44300
 - ❖ EN-AC - 46000
 - ❖ EN-AC - 47100
- All parts are mechanically reworked. Some parts with surface treatment (sand blasting.)

Today's suppliers :

- Europe and China

Yearly turnover Kärcher 8 Mio. EUR in total overall.

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Brass parts



General Requirement:

High precision dies and raw materials. Forging presses with continuous heating and forging system. High precision machining center to process the parts and reach small tolerances (transfer machine and CNC-Center).

- All parts are mechanically reworked
- Some parts with surface treatment (sand blasting)


Used brass alloys: CW617N and CW724R

Today's suppliers :

- Europe Turkey and China

Yearly turnover Kärcher 5 Mio. EUR in total overall.

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Machined parts (Turning ,Milling, Grinding etc.)



General Requirement:


Good raw materials (Steel, Brass Aluminum etc.)
 Also high precisions CNC machines to overwork and machine the parts and tolerances.

Today's suppliers :

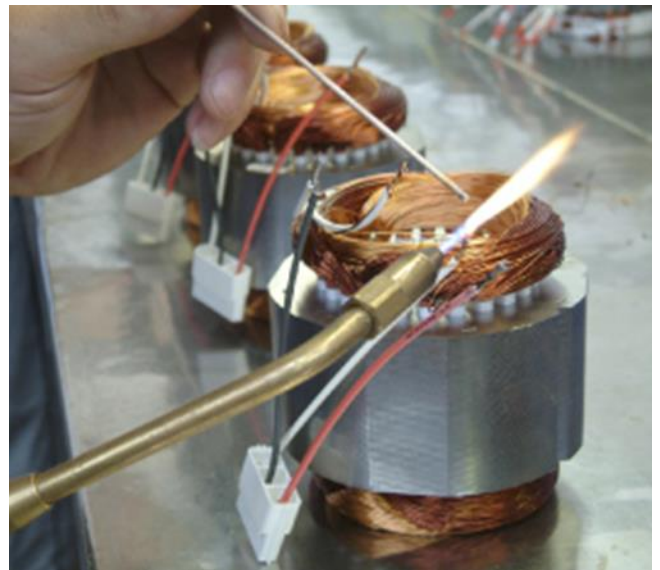
- Europe, Taiwan and China

Yearly turnover Kärcher 10 Mio. EUR in total overall.

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Asynchronous Electromotor



General Requirement:

Supplier which supply already motors to global companies and have a good R&D

Main products:

1. hollow shaft motors - 6,3 kW to 30 kW
2. Rotors / Stators
 - a. Stator Diameter 128mm - 2,0 kW to 4,5 kW
 - b. Stator Diameter 145mm - 4,0 kW to 6,5 kW
 - c. Stator Diameter 164mm - 6,5 kW to 8,0 kW

Today's suppliers :

- Europe and China

Yearly turnover Kärcher 7,8 Mio. EUR in total overall.

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