Perske Electric Motor Spindle with HSK-F63 Automatic Tool Changing System

Ideal for shaping and cutting applications of various materials.

Motor Description:
- Slim, low profile Perske motor design allows deeper cutting depth and performance
- Lifetime lubricated, high precision angular contact bearings with double bearing arrangement on front bearing position to eliminate axial play
- Air-cooled, self-ventilated
- Continuous duty rated (S1-100%) with high overload capacity
- HSK-F63 tool interface with automatic tool change system
- Pneumatic release unit with position sensors to monitor tool system status

Performance Guide: PERSKE Motor Series with HSK-F63 for automatic tool change

<table>
<thead>
<tr>
<th>Type</th>
<th>Drawing</th>
<th>Weight</th>
<th>Output (kW/HP@S1 duty)</th>
<th>Synchronous frequency/synchronous speed</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>kg/lbs.</td>
<td>100Hz 6,000 rpm</td>
<td>150Hz 9,000 rpm</td>
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<td>KNWS 61.13-2D</td>
<td>MS 4464</td>
<td>28/62</td>
<td>4.0/5.5</td>
<td>5.0/6.8</td>
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<td>KCWS 71.16-2D</td>
<td>MS 182-493-1</td>
<td>50/111</td>
<td>6.6/8.9</td>
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<td>KRWS 80.14-4D</td>
<td>MS 4475</td>
<td>70/155</td>
<td>10.0/13.5</td>
<td>12.0/16.1</td>
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HSK-F63 Automatic Tool Changing System:

Benefits:
- Automatic tool change reduces tool set-up time and increases tool seating accuracy
- HSK-F63 tooling interface allows for same tool use on multiple machines
- Motor is self-ventilated, eliminating need for water or oil cooling
- Retention force in excess of standard range allowing for use of heavy tooling
- Three sensors pre-set for electronic monitoring of tool clamping positions ensures high level of safety

System Components:
- HSK-F63 tool interface
- Push bar with fixed cams for monitoring shaft position
- Pneumatic release unit with integrated sensor system (3 sensors)

Tooling Demand:
- Tooling must be balanced to G6.3 specifications (minimum requirement for standard routing). For the larger tool weights, G2.5 specs are required
- Maximum diameter of the tool can be 12.5” (320 mm)
- Maximum tool center of gravity is 3.9” (100 mm) in front of HSK plane surface
- Maximum tool weights are determined for each Perske motor type