

# Routing

## Perske High Frequency Routing Motors Built for especially demanding applications.

Perske motors have long been recognized as the first choice of the woodworking industry for a wide range of routing, finishing, and shaping applications. Our high frequency routing motors also excel in the cutting, trimming, and shaping of various materials including metal, plastic, stone, glass, and composites.

Perske's complete line of routing motors offers tremendous flexibility to meet almost any production requirement. A variety of mounting options and configurations can be suited to tasks like cabinet making and finishing, sign manufacturing, and cutting and forming doors and staircases — and the list goes on and on. Our routing motors are designed for superior performance and offer the features and benefits listed below.

### Overall benefits:

- High frequency offering speeds up to 34,000 RPM
- Micron quality run-out
- Heavy-duty design and construction for a reliable workhorse that won't break down in production cycles
- Direct tool mounting achieves precise and accurate cutting within very small tolerances, as well as prolonged tool life expectancy and efficient cutting performance
- Various tool holding options enable cost effective methods for tool use and changeover
- Range of collet capabilities to support tool sizes as small as 1/8 inch and as large as 1 inch
- Long service life performance with low maintenance needs due to special lifetime lubricated angular contact bearings
- 100% continuous duty rated with heavy duty production performance and high overload capacity

### Overall features for versatility:

- Motors can be placed in either a horizontal or vertical position
- Can be mounted on CNC industrial routers to meet heavy production levels
- Can also be mounted on a router table or bench for light production requirements



Perske Tough for 50 years  
[www.cripperske.com](http://www.cripperske.com)

MOTOR SERIES TYPE	POWER OPTIONS (HP)	MAX. SPEED AVAILABLE (RPM)	MAX. TOOL CAPACITY	COLLET & COVERNUT	HSK-C	QUICK CLAMPING SYSTEMS	CUSTOM DESIGN
KRS 35	1 to 3	18,000	1/2"	Y	N	N	Y
KRS 50	4 to 6.5	18,000	5/8"	Y	Y	N	Y
KRSV 51	6.5	18,000	1"	Y	N	Y	Y
KRS 60	9.0	18,000	3/4"	Y	Y	N	Y
KRSV 61	9.0	18,000	1"	Y	Y	Y	Y
KNO 70	10 to 17	18,000	1"	Y	Y	Y	Y
VS 50/60	2 to 7	24,000	1/2"	Y	N	N	Y
VUS 50/60	1 to 3.5	24,000	1/2"	Y	N	N	Y

<b>TOOL SYSTEMS:</b>	<ul style="list-style-type: none"> <li>• Collet &amp; covernut</li> <li>• HSK-C / HSK-F</li> <li>• Quick clamping systems</li> <li>• Cylindrical shaft with or without key</li> <li>• Cylindrical shaft with or without key and outside thread</li> <li>• Cylindrical shaft with or without key and inside thread</li> </ul>
<b>FREQUENCY:</b>	<ul style="list-style-type: none"> <li>• 60 to 500 HZ (3,600 to 30,000 RPM)</li> <li>• Electrical performance data (HP) are only valid for the stated constant frequency</li> </ul>
<b>VOLTAGE:</b>	<ul style="list-style-type: none"> <li>• 230/400V standard according to DIN/VDE regulations; however, other voltage options are available</li> <li>• Insulation class F standard</li> <li>• If using a static frequency converter, it is necessary to use line reactors or filters to smooth out the sine wave</li> </ul>
<b>BEARINGS:</b>	<ul style="list-style-type: none"> <li>• Lifetime lubricated, high precision hybrid bearings</li> <li>• Drive end bearing is fixed and non-drive end bearing is self-aligning</li> <li>• With heavy tooling, double bearing arrangements are recommended for front bearing position to eliminate axial shaft play</li> </ul>
<b>FEATURES:</b>	<ul style="list-style-type: none"> <li>• TEFC motors are self-ventilated with a built in fan which works most effectively at the motor's maximum operating speed</li> <li>• Labyrinth seals at both ends of the motor to protect against dust or particle penetration into the motor when under power</li> <li>• Motors are balanced to a vibration speed of <math>V_{eff} = 1.8</math> mm/sec at zero load and rated operating speed with micron quality runout</li> <li>• Most motors are available according to NEMA or CSA standards (L.R. 16 865)</li> <li>• Synchronous, Water Cooled, Force Cooled, and Non-Ventilated motors available</li> </ul>

**Don't see what you need? Ask about Perske custom motors built to your unique requirements.**

