



Perske Saw Arbor Motors

Ideal for high volume, heavy duty wood cutting.

Those in the field of lumber processing are facing many new demands to be safer and more efficient in order to stay competitive. There is a movement toward minimizing waste by optimizing sawing of logs, as well as a need for more reliable, higher-performing equipment to achieve these goals.

In environments that demand high-volume production and high-efficiency, Perske saw arbor motors really shine. Our saw arbor motors are specifically designed for heavy duty wood cutting and offer the features listed below.

Features for durability:

- Rugged construction
- Rated for continuous duty or intermittent where required

Features for efficiency:

- Extremely high stalling torque as well as overload capacity (2-3 times full load)
- Totally enclosed and fan cooled (TEFC) to handle heavy volume without overheating
- Equipped with saw collars for direct mounting of blades, circular saws, pendulum saws, and tools for heavy duty woodworking applications

Features for performance:

- Slim, low profile design; allows for deeper cutting depth than standard motors
- Lifetime lubricated bearings
- Low vibration ensures uniform cutting and shaping patterns

Perske saw arbor motors offer special features for enhanced operator safety, including a squirrel caged design. Special ventilator-cooled electromagnetic and high pressure braking action are available. Also ideal for heavy duty cutting and shaping of metals, plastics, and stone.



| MOTOR SERIES TYPE | POWER OPTIONS (HP) | MAX. SPEED AVAILABLE (RPM) | SAW COLLARS DIAMETER | SHAFT NUT |
|-------------------|--------------------|----------------------------|----------------------|------------|
| KNS 50 | 1 to 2 | 3,600 | 80mm | M20 |
| KNS 60 | 2.7 to 5.3 | 3,600 | 100mm | M20 |
| KCS 70 | 5 to 12 | 3,600 | 120mm | M30 |
| KS 80 | 10 to 24 | 3,600 | 160mm | M30 |
| KS 90 | 30 | 3,600 | 180mm | M36 |
| KS 110 | 50 to 75 | 3,600 | 200mm | M56 |
| KS 140 | 75 to 105 | 3,600 | 300mm | M76 |
| KS 160 | 130 to 160 | 3,600 | Special | Special |
| KS 200 | 200 to 230 | 3,600 | Special | Special |

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| TOOL SYSTEMS: | <ul style="list-style-type: none"> • Saw collars/flanges with threaded nut (RH or LH) • HSK-C • Hydro-clamp chuck system • Cylindrical shaft with or without key • Cylindrical shaft with or without key and outside thread • Cylindrical shaft with or without key and inside thread |
| FREQUENCY: | <ul style="list-style-type: none"> • 60 HZ (3,600 RPM) standard (Some motors are capable of running up to 7,200 RPM) • Electrical performance data (HP) are only valid for the stated constant frequency |
| VOLTAGE: | <ul style="list-style-type: none"> • 230/460V standard according to DIN/VDE regulations; however, other voltage options are available including 575V for Canada |
| BEARINGS: | <ul style="list-style-type: none"> • Lifetime lubricated, high precision bearings (where required) • Drive end bearing is fixed and non-drive end bearing is self-aligning • With heavy tooling, double bearing arrangements are recommended for front bearing position to eliminate axial shaft play |
| FEATURES: | <ul style="list-style-type: none"> • TEFC motors are self-ventilated with a built in fan which works most effectively at the motor's maximum operating speed • Labyrinth seals at both ends of the motor to protect against dust or particle penetration into the motor when under power • Motors are balanced to a vibration speed of $V_{eff} = 1.8$ mm/sec at zero load and rated operating speed • Terminal box can be located on right or left side pending customers preference • An electromechanical brake can be integrated as an option • Motors are available according to NEMA or CSA standards (L.R. 16 865) |

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



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