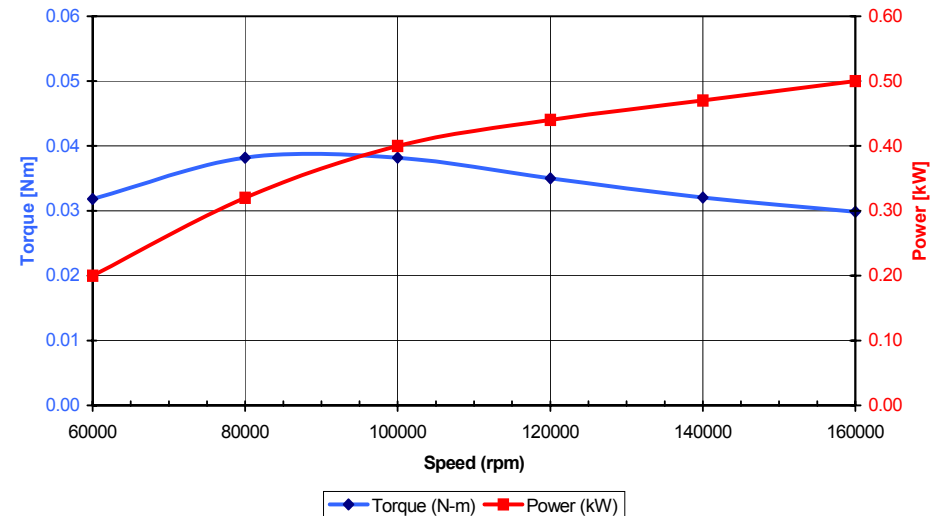


Spindle Datasheet

SC 1060-OA



MOTOR	
Speed Range	60 000 – 160 000 rpm
Torque (S1-100%)	0.03 N·m [0.27 in·lb]
Power (S1-100%)	0.5 kW [0.67 hp] at 160 000 rpm
Frequency Range	1000 to 2667 Hz
Voltage Range	52.5 to 140 VAC
Maximum Amperage	4.2 amps
Motor Type	AC asynchronous, 2-pole, 3-phase induction motor
SPINDLE DRIVE	
Drive Type	Type PCS 410 frequency converter
BEARINGS	
Bearings	Two (2) angular-contact bearings, hybrid-ceramic, ABEC 7/9 precision
Mounting	Front and rear single bearings, mounted in "O" arrangement with shaft length compensation to provide constant spring pre-load
Lubrication	Oil-air lubrication using Type POAL-2 oil-air bearing lubrication system
SHAFT DATA	
Runout Accuracy	≤ 2 μm [0.00008"] radial runout in spindle taper.
Balance Quality	≤ 1 mm/sec radial vibration velocity at maximum speed
Radial shaft stiffness	25 N/μm [141,000 lb/in] measured at spindle nose
Axial shaft stiffness	17 N/μm [96,000 lb/in]
SPINDLE COOLING	
Cooling	Liquid circulation (1 part Dowtherm® SR1 to 2 parts distilled water) through spindle housing using Type RCS 1001 cooling system.
TOOL CLAMPING	
Toolchange	Manual
Collets	Type SC 40 collets (3mm, 1/8" maximum collet capacity)
SENSORS	
Motor Protection	PTC thermistor in stator
Speed Sensing	Tachometer
CONNECTIONS	
	<ul style="list-style-type: none"> • liquid cooling (2 x Ø6 mm tubes) • oil-air lubrication (2 x Ø2.5 mm tubes) • power cable (1 meter length with connector included with spindle)
MOUNTING / WEIGHT	
Housing Diameter	Ø60mm h5 [2.3622 " +0/-0.0005"]
Mount Type	Type 9060 plane mount
Net Weight	2.5 kg [5.5 lb]




Spindle Datasheet

SC 1060-OA




SC 1060-OA Standard Equipment:

<p>SC 1060-OA spindle (w/ 1 meter power cable) Cat. #550160</p> 	<p>Documentation kit:</p> <ul style="list-style-type: none"> • 1 operating instructions (#329464) • 1 safety instructions (#329139) • 1 outline drawing (#330733)
<p>Wrench kit:</p> <ul style="list-style-type: none"> • 1 wrench 6mm (#040423) • 1 wrench 9mm (#140423) 	<p>Collet:</p> <ul style="list-style-type: none"> • 1 #040530, Ø 1/8"


SC 1060-OA System Components (ordered separately):

<p>Type PCS 410 frequency converter:</p> <p>Cat. #: 332764</p> 

<p>Type RCS 1001 refrigerated cooling system:</p> <p>Cat. #: 331666</p> 

<p>Type POAL-2 oil-air Bearing lubrication system:</p> <p>Cat. #: 329870</p> 

SC 1060-OA Accessories (ordered separately):

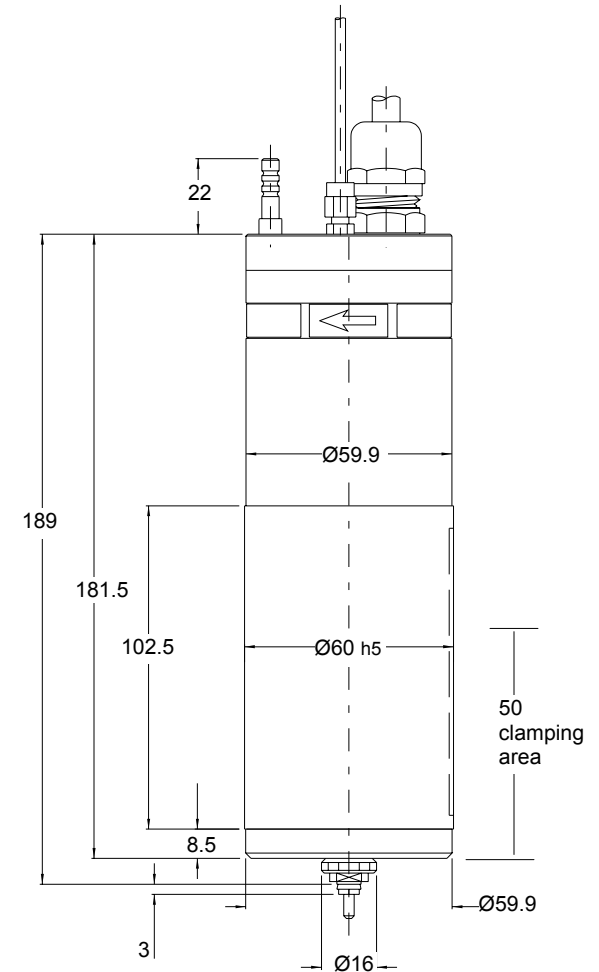
<p>Type SC 40 collets:</p> <p>Cat. #040533, Ø 3mm Cat. #040530, Ø 1/8"</p> 
--

<p>Type 9060 plane mount:</p> <p>Cat. #406705</p> 
--

<p>Extension Cables:</p> <p>Cat. #018030, 3m (9.6 ft) Cat. #018031, 5m (16 ft)</p> 

<p>Base tubing kit (for liquid cooling connections):</p> <p>Cat. #332004:</p> <ul style="list-style-type: none"> • 10m tubing (#316636) • 1 tubing cutter (#329378) • 2 adapter fittings (#176519)
--

<p>Oil-air tubing kit (for lubrication connections):</p> <p>Cat. #332006:</p> <ul style="list-style-type: none"> • 7m Ø2.5mm tubing (#140116) • 2 pcs. connection ferrule (#140120) • 1 pc. pressure gage (#331366)



Fischer Precise USA, Inc.
3715 Blue River Avenue
Racine, WI U.S.A. 53405
Phone: (262) 632-6173
Fax: (262) 632-6730
Email: info@fischerprecise.com
www.fischerprecise.com