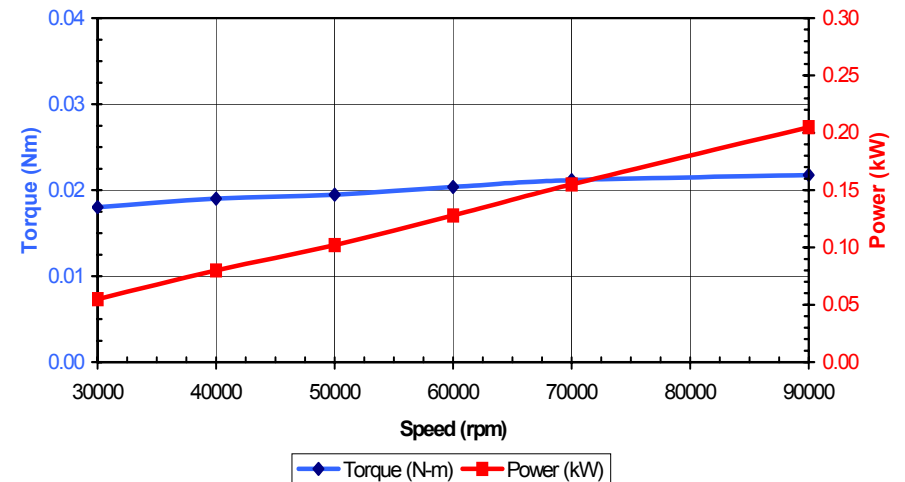


MOTOR	
Speed Range	30 000 – 90 000 rpm
Torque (S1-100%)	0.02 N-m [0.2 in-lb]
Power (S1-100%)	0.21 kW [0.28 hp] at 90 000 rpm
Frequency Range	500 to 1500 Hz
Voltage Range	37.5 to 113 VAC
Maximum Amperage	2.8 amps at full torque (S1-100%)
Motor Type	AC asynchronous, 2-pole, 3-phase induction motor
SPINDLE DRIVE	
Drive Type	Type PCS 410 frequency converter
BEARINGS	
Bearings	Four (4) angular-contact, hybrid-ceramic, high-precision bearings, ABEC 7/9 precision
Mounting	Front and rear duplex sets, mounted in "O" arrangement with shaft length compensation to provide constant spring pre-load
Lubrication	Permanent grease lubrication
SHAFT DATA	
Runout Accuracy	≤ 2 µm [0.00008"] radial runout in spindle taper.
Balance Quality	≤ 1 mm/sec radial vibration velocity at maximum speed
SPINDLE COOLING	
Cooling	Liquid circulation (1 part Dowtherm® SR1 to 2 parts distilled water) through spindle housing using Type 7136 / 7137 coolant system.
TOOL CLAMPING	
Toolchange	Manual
Collets	Type SC 40 collet (3 mm, 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 / 1/4" tubes) power cable (1 meter length with connector) monitor cable (1 meter length with connector)
MOUNTING / WEIGHT	
Housing Diameter	Ø42mm h5 [1.6535 " +0/-0.0004"]
Mount Type	Type 9040 plane mount
Net Weight	1.25 kg [2.75 lbs]



SC 40 Standard Equipment:

SC 40 spindle (w/ 1-meter power cable)
Cat. #550279



Wrenches:

- 1 box wrench 9mm #040422
- 1 box wrench 6mm #040423

Documentation:

- 1 operating instructions #176535
- 1 safety instructions #329139

SC 40 System Components (ordered separately):

Type PCS 410 Frequency Converter:

Cat. #: 332757



Type 7136 / 7137 Cooling System:

Cat. #332370 (115 V)
Cat. #332371 (230 V)



SC 40 Accessories (ordered separately):

Type SC 40 collets:

Cat. #040530, Ø 3mm
Cat. #040533, Ø 1/8"



Type 9040 Plane Mount:

Cat. #: 330299



**Extension Cable Sets
(power and monitor cables):**

Cat. #331297, 3m (9.6 ft)
Cat. #331298, 5m (16 ft)



Base Tubing Kit:

- Cat. #332004 (for liquid cooling connections)
- 5m Ø1/4" tubing (#179525)
 - 1 tubing cutter (#329378)
 - 2 adapter fittings (#176519)

