



Cutter Pumps

The cutter pumps of the series SFC are suited for cutting aluminium chips or similar materials and for pumping these materials along with the coolant fluid. An agitator located at the pump suction helps to break up and separate any large bundles of chips or birds nests which reach the pump suction.

The hardened cutting unit (> 60HRC) is cutting chips and the semi-open impeller with its large clearances allows to pump the particles along with the coolant fluid from the machine back to the filter. The SFC pumps are capable of handling chip to coolant ratios of up to 1.5% by weight.

The SFC pumps are equipped with the user-friendly 45 degree flange connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

For more information see mechanical features within the technical information section.

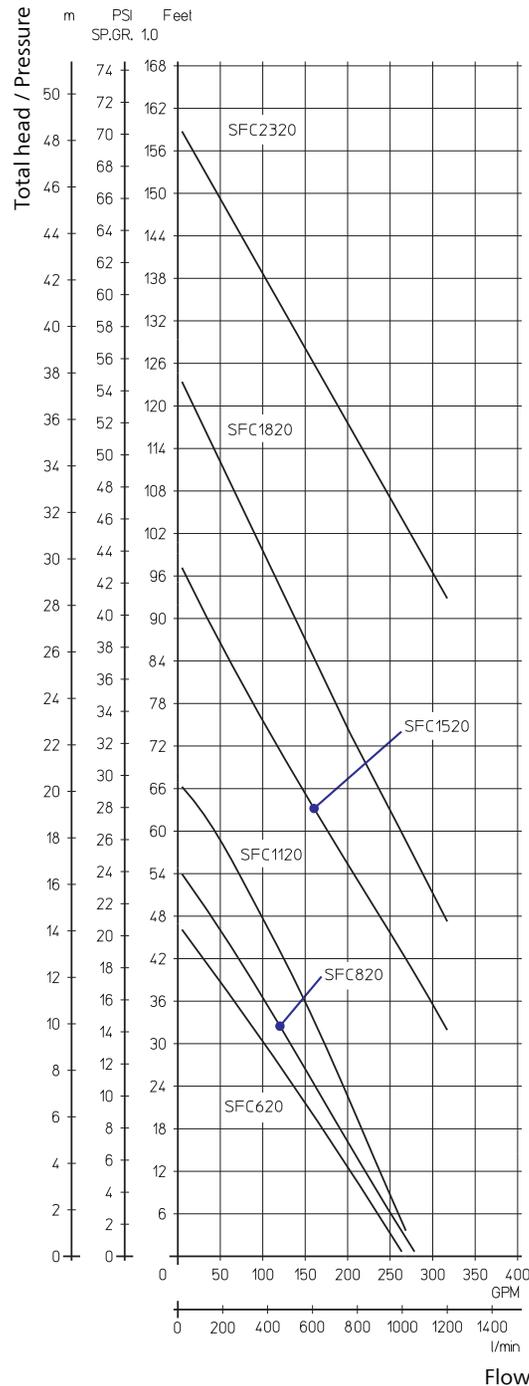


Applications

- Types of fluid
 - coolants
 - cooling/cutting oils on request
- Max. chip to coolant ratio by weight: 1.5 %
- Chip material: Aluminium
- Kinematic viscosity ...200 SSU (...45 mm²/s)
- Pumping temperature 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Agitator	Highly ductile steel
Shaft	steel



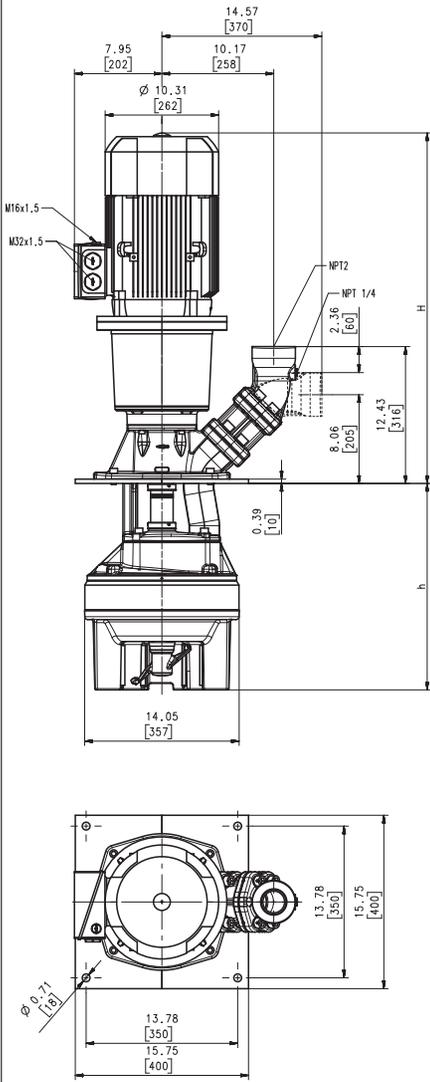
Cutter Pumps

SXC2824S

Axial/semi-open impellers



SXC2824S



Dimensions in Inches / mm

Type	Flow at head		Height	Depth of immersion		Weight		Power (4-pole) 3~ HP kW	Voltage V	Frequency Hz	Current Speed	
	GPM /Feet l/min /m	H inch mm	h inch mm	h inch mm	Lbs kg	HP kW	AMPS				RPM	
SXC2824S480	200/45 750/14	31.9 809	18.74 476	428 194	10 7.5	460	60	12.4	1770			
610			23.86 606	432 196								
730			28.58 726	439 199								



Cutter Pumps

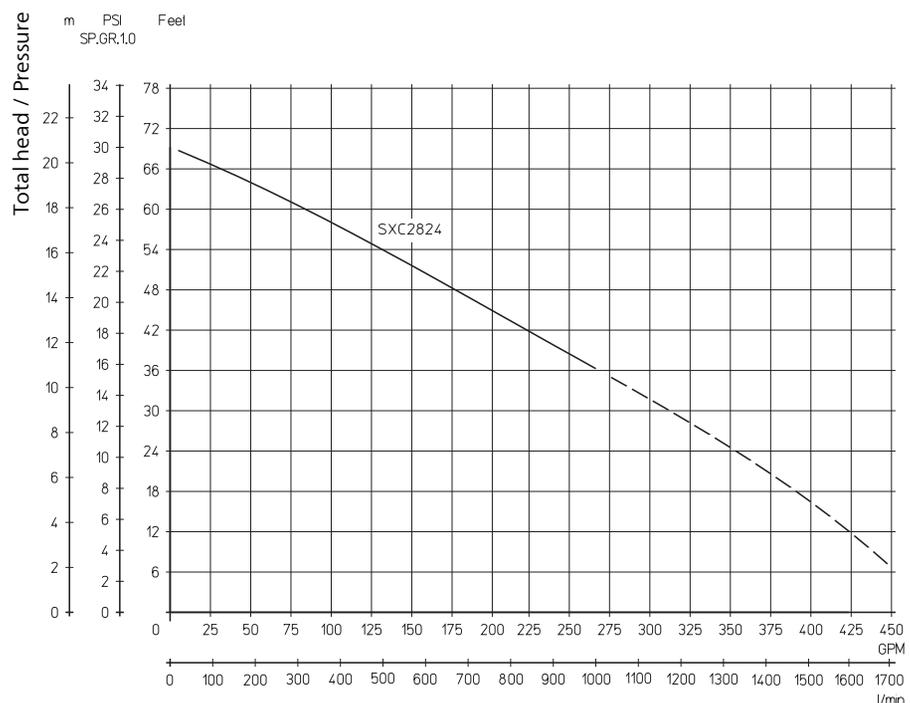
The cutter pumps of the series SXC are designed to handle low alloyed steels, machining steel and cast iron / aluminum combinations. Chips can also be in the shape of birds nests or chip bundles, and must be supplied to the suction inlet of the pump. The chips are picked up by the agitator, broken up if necessary, cut, and then delivered by the pump. The SXC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge. For more information see lifting pumps features SXC/SPC within the technical information section.

Applications

Types of fluid
 coolants
 cooling/cutting oils on request
 Max. chip to coolant ratio by weight:
 0.5 %
 Chip material:
 Low alloyed steel, machining steel,
 cast iron/aluminum combinations
 Kinematic viscosity
 ...200 SSU (...45 mm²/s)
 Pumping temperature
 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	coated (> 60 HRC)
Shaft	steel



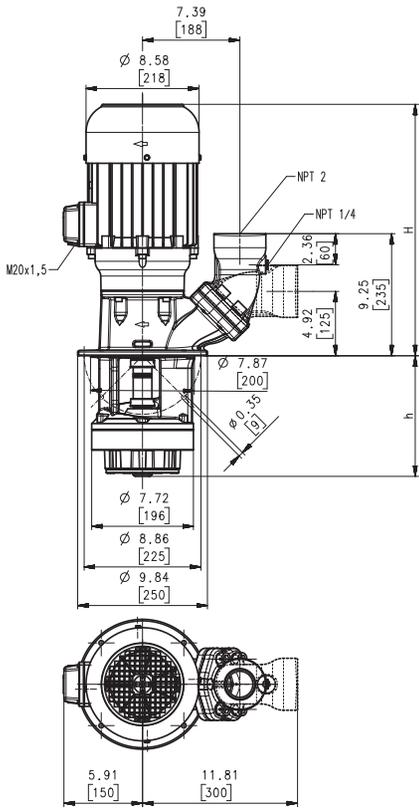
Cutter Pumps

SPC820S

Axial/semi-open impellers



SPC820S



Dimensions in Inches / mm

Type	Flow at head		Height		Depth of immersion		Weight		Power 3~		Frequency		Current Speed	
	GPM /Feet l/min /m	H inch mm	h inch mm	h inch h mm	Lbs kg	HP kW	V	Hz	AMPS	RPM				
SPC820S230	100/32	19.8	9.13	232	156.6	71	5.1	230	60	12.8	3520			
	400/9.5	503					3.8	460	60	6.4	3520			
330			13.07	332	161.0	73								
460			18.19	462	165	75								



Cutter Pumps

The cutter pumps of the series SPC are designed to handle and reliably cut plastic Chips (no bundles).

The higher number of cutting blades results in an increased cutting frequency of all chips to be consistently cut into small pieces.

The SPC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

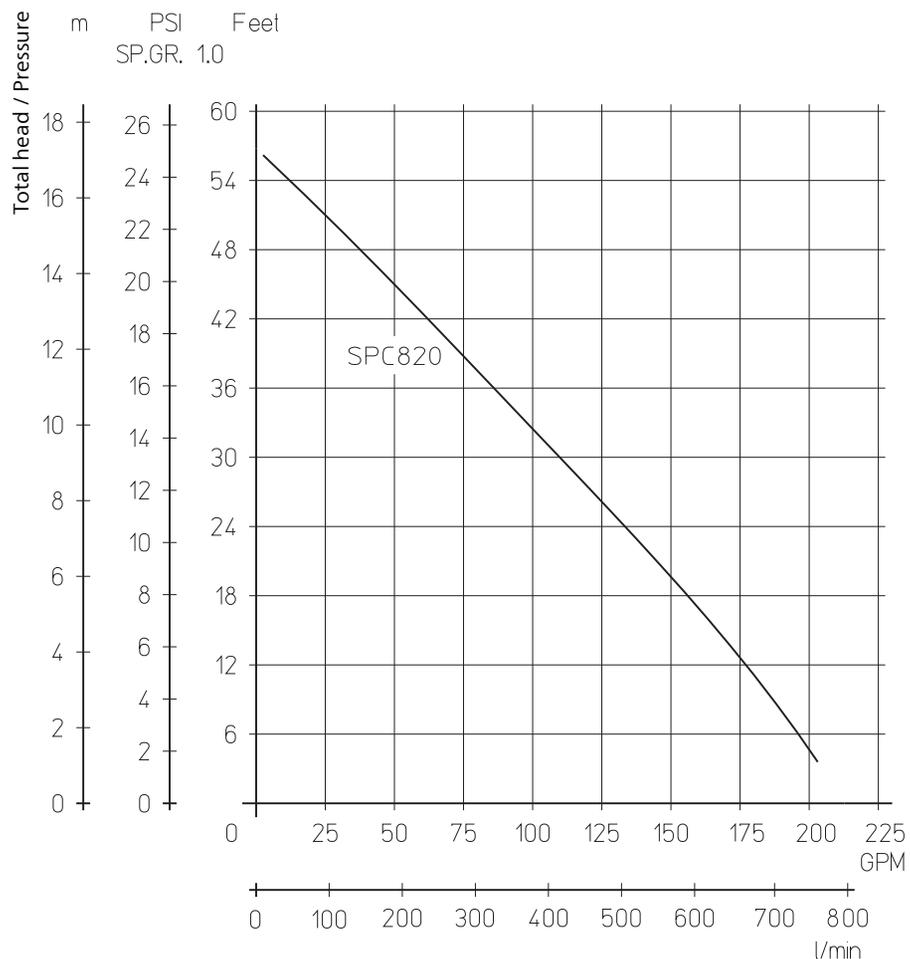
For more information see lifting pumps features SXC/SPC within the technical information section.

Applications

- Types of fluid
 - coolants
 - cooling/cutting oils
- Max. chip to coolant ratio by weight: 0.3 %
- Chip material: Plastic
- Kinematic viscosity ...140 SSU (...30 mm²/s)
- Pumping temperature 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Shaft	steel



Horizontal End-Suction Pumps

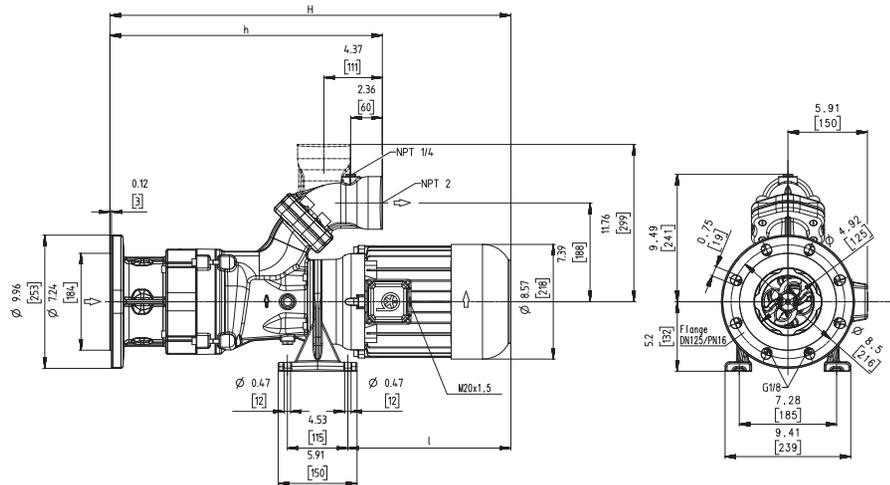
SBC820S...1820S

Axial/semi-open impellers

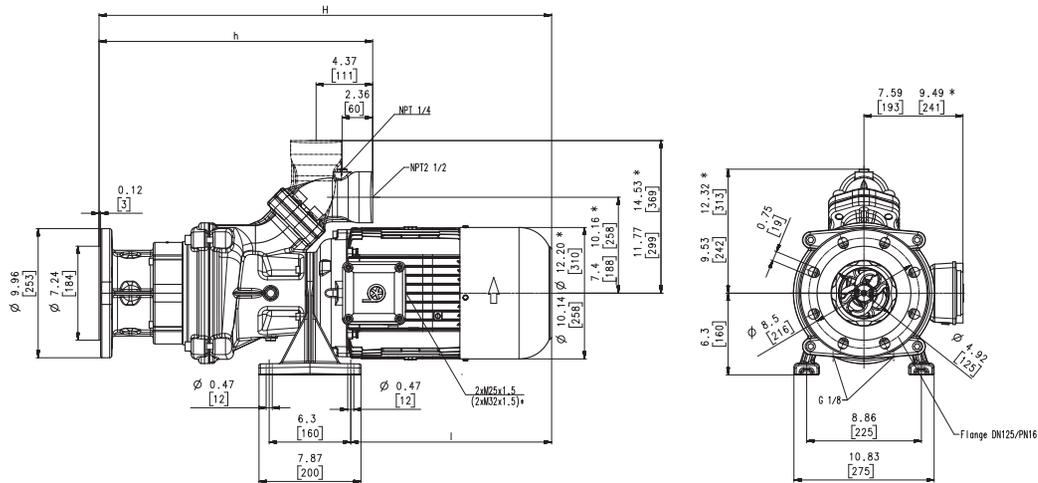


60 Hz

SBC820S...1120S



SBC1520S...1820S



Dimensions in Inches / mm
*) Dimensions SBC1820S

Type	Flow at head		Dimensions		Length		Weight		Power HP kW	Voltage 3~ V	Fre- quen- cy Hz	Current AMPS	Speed RPM	
	GPM /Feet l/min /m	H inch	H mm	h inch	h mm	l Inch	l mm	Lbs						kg
SBC820S	125/30	30.7	780	20.4	518	12.9	328	187	85	6.1	230	60	15.8	3520
	480/9									4.55	460	60	7.9	3520
SBC1120S	175/30	31.9	810	20.4	518	14.1	358	196	89	8.4	230	60	20.8	3510
	690/9									6.3	460	60	10.4	3510
SBC1520S	200/49	35.7	906	21.1	537	16.3	414	291	132	11.5	230	60	27.8	3550
	800/14.5									8.6	460	60	13.9	3550
SBC1820S	225/67	36.0	915	23.9	608	16.6	422	359	163	16.9	230	60	39.2	3560
	900/19.5									12.6	460	60	19.6	3560



Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft. These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.

This pump series is designed for horizontal installations next to a tank and are capable of cutting aluminium chips and similar materials and pumping of these materials along with the coolant fluid. An agitator located at the pump suction helps to break up and separate any large bundles of chips or birds nests which reach the pump suction.

The hardened cutting unit (> 60 HRC) is cutting chips and the above located semi-open impeller allows with its large clearances to pump the particles along with the coolant fluid from the machine back to the filter. The SBC pumps are capable of handling chip to coolant ratios of up to 1.5% by weight.

The SBC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4. For more information see mechanical features within the technical information section (SFC/SBC).



Applications

- Types of fluid
 - coolants
 - cooling/cutting oils on request
- Max. chip to coolant ratio by weight: 1.5 %
- Chip material: Aluminium
- Chip geometry: Chip bundles to max. Ø 3.94 Inch (100 mm)
- Kinematic viscosity ...200 SSU (...45 mm²/s)
- Pumping temperature 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Agitator	Highly ductile steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBC820S...SBC1120S	76 dBA
SBC1520S	78 dBA
SBC1820S	79 dBA

