



**TIDAL FLUID POWER**

AVAILABILITY, SERVICE, QUALITY, PRICE

# PISTON MOTOR

## SAE BENT AXIS

SCM010-130

SCM 010-130 SAE is a range of robust axial piston motors especially suitable for mobile hydraulics.

SCM 010-130 SAE is of the bent axis type with spherical pistons. The design results in a compact motor with few moving parts, high starting torque and high reliability.

It covers the entire displacement range 10-130 cm<sup>3</sup>/rev at a max working pressure of 40 MPa (40 bar.)

The combination of a tapered roller bearing and a radial bearing provides for high radial load tolerance and a long life time.

The motor's high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.



### Features:

High Maximum Speed

Smooth operation over the entire speed range

Available in many different configurations of shaft and connections

High efficiency

Speed sensor available as an option

Suitable for applications with high angular accelerations due to its rotary stiffness

Type		010	012	017	025	025	034	034	040	047	056	064	084	084	090	090	108	108	130	
					SAE B	SAE C	SAE B	SAE C					SAE C	SAE D	SAE C	SAE D	SAE C	SAE D		
Displacement	Cm <sup>3</sup>	9.6	12.6	17.0	25.4	25.4	34.2	34.2	41.2	47.1	56.7	63.5	83.6	83.6	90.7	90.7	108	108	130	
Working Pressure (max continuous)	Bar	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	300
Working Pressure (max Intermittent)	Bar	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	350
Revolutions (max intermittent)	rpm	8250	8250	8250	6500	6500	6500	6500	5900	5900	5900	5900	4800	4600	4800	4600	4800	4600	4600	4600
Revolutions (max continuous)	rpm	7500	7500	7500	5900	5900	5900	5900	5300	5300	5300	5300	4400	4200	4400	4200	4400	4200	4200	4200
Revolutions (min continuous)	rpm	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Power (max intermittent)	(kw)	41	50	70	80	80	110	110	120	135	165	180	200	190	215	205	255	245	255	
Power (max continuous)	(kw)	15	20	25	40	40	55	55	60	65	80	90	100	100	110	110	130	130	135	
Starting Torque theoretical value	Nm/bar	0.15	0.20	0.27	0.40	0.40	0.54	0.54	0.66	0.75	0.89	1.0	1.33	1.33	1.44	1.44	1.71	1.71	2.06	
Weight	(kg)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	15.0	15.0	15.0	15.0	18.0	35.0	18.0	35.0	18.0	35.0	35.0	

Phone: 07 3889 4591

[www.tidalfuidpower.com.au](http://www.tidalfuidpower.com.au)  
[sales@tidalfuidpower.com.au](mailto:sales@tidalfuidpower.com.au)



SCM	012	W	P	SB4	B13	S3	U	1	00
Description	Displacement	Direction	Shaft Seal	Mounting Flange	Shaft Type	Connection Cover	Connections	Drainage	Speed Sensor
<b>S</b> (Sunfab)  <b>C</b> (Cast Iron)  <b>M</b> (Motor)	010cm <sup>3</sup> /rev	W = Independent	P = FPM, High Pressure, High Temp	<b>SB2 = SAE B 2 Hole</b>  <b>SB4 = SAE B 4 Hole</b>  <b>SC4 = SAE C 4 Hole</b>  <b>SD4 = SAE D 4 Hole</b>	B13 = 13T 16/32 B25 = 25.4 Keyed	S1-40° mount flange vertical	U = UN Thread (S covers only)  G = ISO G Thread  M = Metric Flanged	1 = External Drainage	00 = No Speed Sensor  P1 = Prepared for speed sensor  S1 = Fitted speed sensor type PNP  S2 = Fitted speed sensor type NPN
	012cm <sup>3</sup> /rev				B13 = 13T 16/32 B25 = 25.4 Keyed				
	017cm <sup>3</sup> /rev				B13 = 13T 16/32 B25 = 25.4 Keyed				
	025cm <sup>3</sup> /rev				B13 = 13T 16/32 C14 = 14T 12/24 B25 = 25.4 Keyed	S2-40° mount flange horizontal			
	034cm <sup>3</sup> /rev				B13 = 13T 16/32 C14 = 14T 12/24 B25 = 25.4 Keyed	S3-40° threaded connection			
	040cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 C32 = 31.7 Keyed	V1-90° mount flange vertical			
	047cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 C32 = 31.7 Keyed				
	056cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 C32 = 31.7 Keyed	V2-90° mount flange horizontal			
	064cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 C32 = 31.7 Keyed				
	084cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 D13 = 13t 8/16 C32 = 31.7 Keyed D44 = 44.45 Keyed	R1- side connections flanged			
	090cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 D13 = 13t 8/16 C32 = 31.7 Keyed D44 = 44.45 Keyed	K3- Combicover 90° and side conn. Thread			
	108cm <sup>3</sup> /rev				C14 = 14T 12/24 C21 = 21T 16/32 D13 = 13t 8/16 C32 = 31.7 Keyed D44 = 44.45 Keyed				
130cm <sup>3</sup> /rev	D13 = 13t 8/16 D44 = 44.45 Keyed								

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