Shaft seal
A double rim ring in Viton with metallic framework to resist pressure forms the shaft lubricated seal. The bushing, keyed on the shaft has a special machining with an our exclusive technology to grant perfect sealing and an exceptional life.

Casing
Modern numerical control machining centers, constantly monitored by means of continuous testing technical specialization and continual modernization with the most technically up-to-date machinery, is applied in all machining work in order to guarantee the obligation we assume towards the Certified Quality of our compressors.

Painting
All TM.C screw compressors have a modern, environmentally friendly, protective paint. The surface finish protects the castings effectively against corrosion even after many years of operation.

Rotors
The heart of every screw compressor is the air end. The multistage automatic screw manufacturing process, operated with latest CNC machines and the use of top grade materials assure the closest tolerances as well as greater reliability. A final grinding process, coupled with computer operated multistep rotor control guarantees 100% accuracy of each rotor profile.

Bearings
Because of rotational speeds and bearing loads TM.C screw compressors are equipped with top quality bearings that provide a high bearing capacity and assure long bearing life.
Index

Oil Injected Screw Compressor for air
Sizes 4 to 160 kW

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Outside view drawing/ Data tables
Main features
New profile 5/6 lobe relation
High volumetric efficiency
Low running cost
Low air discharge temperature
Low noise level
Discharge pressure range of 3 barg to 15 barg (43.5 psig to 220 psig)

Assembly system
The assembly systems for the SCA series are:
- base plate mounted
- flange mounted

Sizes

SCA8
SCA8DA - SCA8DR - SCA8GA - SCA8GR

SCA9
SCA9DR - SCA9GR

SCA10
SCA10DR - SCA10GR

SCA12
SCA12DR - SCA12GR

SCA13
SCA13DR - SCA13GR

SCA14
SCA14DR - SCA14GR

SCA22
SCA22DR - SCA22BR - SCA22GR

A axial air outlet
B (belt) belt driven
D (direct) direct or belt driven coupling (SCA22D only direct coupling)
G (gear) gearbox incorporated
R radial air outlet
Drive: Male
Lobe combination: 5/6
Male rotor size: 74 mm
Female rotor size: 61.6 mm
L/D: 1.65

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 18 Kg – 40 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 74 mm
Female rotor size: 61.6 mm
L/D: 1.65

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 20 Kg – 44 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 74 mm
Female rotor size: 61.6 mm
L/D: 1.65

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 30 Kg – 66 lbs

Data Tables

<table>
<thead>
<tr>
<th>Air Capacity</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Power (W)</td>
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<thead>
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<th>Power</th>
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<tr>
<td>Speed (rpm)</td>
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</table>
Drive: Male
Lobe combination: 5/6
Male rotor size: 74 mm
Female rotor size: 61.6 mm
L/D: 1.65

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 32 Kg – 71 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 108.6 mm
Female rotor size: 90.4 mm
L/D: 1.09

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 40 Kg – 88 lbs

Outside view drawing

Data Tables

Air Capacity

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<th>Speed (rpm)</th>
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Power

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Air Capacity

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Power

<table>
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<th>Speed (rpm)</th>
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<th>15</th>
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<td>Power (kW)</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
</tr>
</tbody>
</table>
Drive: Male
Lobe combination: 5/6
Male rotor size: 108,6 mm
Female rotor size: 90,4 mm
L/D: 1,09

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 61 Kg – 134 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 108,6 mm
Female rotor size: 90,4 mm
L/D: 1,56

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 45 Kg – 99 lbs
SCA10G-R

Outside view drawing

Data Tables

Air Capacity

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Drive: Male
Lobe combination: 5/6
Male rotor size: 108.6 mm
Female rotor size: 90.4 mm
L/D: 1.56

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 66 Kg – 146 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 108,6 mm
Female rotor size: 90,4 mm
L/D: 1,82

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 51 Kg – 112 lbs
Drive: Male  
Lobe combination: 5/6  
Male rotor size: 108.6 mm  
Female rotor size: 90.4 mm  
L/D: 1.82  

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
Weight: 72 Kg – 159 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 126 mm
Female rotor size: 105 mm
L/D: 1.70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 74 Kg - 163 lbs

Data Tables

<table>
<thead>
<tr>
<th>Speed (rpm)</th>
<th>Air Capacity (m³/min)</th>
<th>Power (kW)</th>
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### Data Tables

#### Air Capacity

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<td>Air Capacity</td>
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#### Power

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<td>60</td>
<td>70</td>
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</table>

Drive: Male  
Lobe combination: 5/6  
Male rotor size: 126 mm  
Female rotor size: 105 mm  
L/D: 1,70  
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
Weight: 99 Kg - 218 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 147.3 mm
Female rotor size: 122.6 mm
L/D: 1.70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 108 Kg – 238 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 147,3 mm
Female rotor size: 122,6 mm
L/D: 1,70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 140 Kg – 309 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 217 mm
Female rotor size: 183 mm
L/D: 1.70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 393 Kg – 866 lbs
SCA22G-R

Outside view drawing

Data Tables

<table>
<thead>
<tr>
<th>Speed (rpm)</th>
<th>Air Capacity (m³/min)</th>
<th>Power (kW)</th>
</tr>
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<tbody>
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</table>

Drive: Male
Lobe combination: 5/6
Male rotor size: 217 mm
Female rotor size: 183 mm
L/D: 1.70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 490 Kg – 1080 lbs
Drive: Male
Lobe combination: 5/6
Male rotor size: 217 mm
Female rotor size: 183 mm
L/D: 1.70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig
Weight: 397 Kg – 875 lbs