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<th>Date</th>
<th>Changed</th>
<th>Rev</th>
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<tr>
<td>October 2014</td>
<td>Changed to Danfoss layout</td>
<td>DA</td>
</tr>
<tr>
<td>November 2012</td>
<td></td>
<td>CD</td>
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## Technical Information

### OMSW with brake nose Orbital Motors

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<td>24</td>
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<tr>
<td><strong>Weight of motors</strong></td>
<td></td>
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</tbody>
</table>
Danfoss is a world leader within production of low speed orbital motors with high torque. We can offer more than 3,000 different orbital motors, categorised in types, variants and sizes (including different shaft versions).

The motors vary in size (rated displacement) from 8 cm³ [0.50 in³] to 800 cm³ [48.9 in³] per revolution.

Speeds range up to approximate 2,500 min⁻¹ (rpm) for the smallest type and up to approximate 600 min⁻¹ (rpm) for the largest type.

Maximum operating torques vary from 13 N·m [115 lbf·in] to 2,700 N·m [24,000 lbf·in] (peak) and maximum outputs are from 2.0 kW [2.7 hp] to 70 kW [95 hp].

Characteristic features of Danfoss Orbital Motors

- Smooth running over the entire speed range
- Constant operating torque over a wide speed range
- High starting torque
- High return pressure without the use of drain line (High pressure shaft seal)
- High efficiency
- Long life under extreme operating conditions
- Robust and compact design
- High radial and axial bearing capacity
- For applications in both open and closed loop hydraulic systems
- Suitable for a wide variety of hydraulics fluids

Technical features of Danfoss Orbital Motor

The programme is characterised by technical features appealing to a large number of applications and a part of the programme is characterised by motors that can be adapted to a given application. Adaptions comprise the following variants among others:
A wide range of Orbital Motors

- Motors with corrosion resistant parts
- Wheel motors with recessed mounting flange
- OMP, OMR- motors with needle bearing
- OMR motor in low leakage version
- OMR motors in a super low leakage version
- Short motors without bearings
- Ultra short motors
- Motors with integrated positive holding brake
- Motors with integrated negative holding brake
- Motors with integrated flushing valve
- Motors with speed sensor
- Motors with tacho connection
- All motors are available with black finish paint

Survey of literature with technical data on Danfoss Orbital Motors

Detailed data on all Danfoss Orbital Motors can be found in our motor catalogue, which is divided into more individual subcatalogues:

- General information on Danfoss Orbital Motors: function, use, selection of orbital motor, hydraulic systems, etc.
- Technical data on small motors: OML and OMM
- Technical data on medium sized motors: OMP, OMR, OMH
- Technical data on medium sized motors: DH and DS
- Technical data on medium sized motors: OMEW
- Technical data on medium sized motors: VMP
- Technical data on medium sized motors: VMR
- Technical data on large motors: OMS, OMT and OMV
- Technical data on large motors: TMT
- Technical data on large motors: TMV

A general survey brochure on Danfoss Orbital Motors gives a quick motor reference based on power, torque, speed and capabilities.
Data survey

Speed, torque and output

Max. speed / Max. torque / Max. output

[light] Intermittent values
[dark] Continuous values

The bar diagrams above are useful for a quick selection of relevant motor size for the application. The final motor size can be determined by using the function diagram for each motor size.

- OMSW can be found here: Function diagrams on page 13.

The function diagrams are based on actual tests on a representative number of motors from our production. The diagrams apply to a return pressure between 5 and 10 bar [75 and 150 psi] when using mineral based hydraulic oil with a viscosity of 35 mm²/s [165 SUS] and a temperature of 50°C [120°F]. For further explanation concerning how to read and use the function diagrams, please consult the paragraph “Selection of motor size” in the technical information “General” 520L0232.
## Technical Information  
### OMSW with brake nose Orbital Motors

### Versions

<table>
<thead>
<tr>
<th>Mounting flange</th>
<th>Spigot diameter (front/rear end)</th>
<th>Bolt circle diameter (BC)</th>
<th>Shaft</th>
<th>Port size</th>
<th>Euro version</th>
<th>US version</th>
<th>Side port version</th>
<th>End port version</th>
<th>Standard shaft seal</th>
<th>Drain connection</th>
<th>Check valve</th>
<th>Main type designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel</td>
<td>Ø5.0 in / Ø5.0 in</td>
<td>Ø 5.8 in</td>
<td>Tap. 1 1/4&quot;</td>
<td>7/8 - 14 UNF</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>OMSW</td>
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<tr>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>No</td>
<td>OMEW</td>
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<td>X</td>
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<td></td>
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<td>X</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>No</td>
<td>OMSW</td>
</tr>
</tbody>
</table>

Motors are painted black

### Features available (options)

Shaft options:
- 1 3/8" shaft
- Side port G 1/2
- End port G 1/2

High pressure shaft seal
Code numbers

*OMSW code numbers*

<table>
<thead>
<tr>
<th>Code Numbers</th>
<th>Displacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>160</td>
</tr>
<tr>
<td>151F</td>
<td>2502</td>
</tr>
<tr>
<td>151F</td>
<td>2512</td>
</tr>
<tr>
<td>151F</td>
<td>2522</td>
</tr>
<tr>
<td>151F</td>
<td>2532</td>
</tr>
</tbody>
</table>

**Ordering**

Add the four digit prefix “151F” to the four digit numbers from the chart for complete code number.

Example:

151F2514 for an OMSW 200 as sideport version and with drain connection

*Orders will not be accepted without the four digit prefix.*
## Technical data

### Technical data for OMSW

<table>
<thead>
<tr>
<th>Type</th>
<th>OMSW 125</th>
<th>OMSW 160</th>
<th>OMSW 200</th>
<th>OMSW 250</th>
<th>OMSW 315</th>
<th>OMSW 400</th>
<th>OMSW 500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motor size</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geometric displacement</td>
<td>cm³</td>
<td>[in³]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>125.7</td>
<td>[7.67]</td>
<td>159.7</td>
<td>[9.75]</td>
<td>200.0</td>
<td>[12.20]</td>
<td>250.0</td>
</tr>
<tr>
<td></td>
<td>315.0</td>
<td>[19.22]</td>
<td>393.0</td>
<td>[23.98]</td>
<td>488.0</td>
<td>[29.78]</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum speed</strong></td>
<td>min⁻¹ [rpm]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>470</td>
<td>375</td>
<td>300</td>
<td>240</td>
<td>190</td>
<td>155</td>
</tr>
<tr>
<td></td>
<td>720</td>
<td>560</td>
<td>450</td>
<td>360</td>
<td>285</td>
<td>230</td>
<td>185</td>
</tr>
<tr>
<td><strong>Maximum torque</strong></td>
<td>N·m [lbf·in]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum output</strong></td>
<td>kW [hp]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum pressure drop</strong></td>
<td>bar [psi]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Intermittent operation: the permissible values may occur for max. 10% of every minute.
2) Peak load: the permissible values may occur for maximum 1% of every minute.

### Technical Information:

- **OMSW with brake nose Orbital Motors**
- **Technical data**

For max. permissible combination of flow and pressure, see function diagram for actual motor.
Technical data

Max. permissible shaft seal pressure

**OMSW with check valves**

The pressure on the shaft seal never exceeds pressure in the return line.

**OMSW with drain connection**

Use of the drain connection:
The shaft seal pressure equals the pressure in the drain line.

Without use of the drain connection:
The shaft seal pressure equals the average of input pressure and return pressure.

**Max. pressure on shaft seal**

[dotted line] Intermittent operation: the permissible values may occur for max. 10% of every minute

[solid line] Continuous operation
Technical data

Pressure drop in motor

![Graph showing pressure drop in motor]

The curve applies to an unloaded motor shaft and an oil viscosity of 35 mm²/s [165 SUS]

Oil flow in drain line

The table below shows the max. oil flow in the drain line at a return pressure less than 5-10 bar [75-150 psi].

<table>
<thead>
<tr>
<th>Pressure drop bar [psi]</th>
<th>Viscosity mm²/s [SUS]</th>
<th>Oil flow in drain line l/min [US gal/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 [2030]</td>
<td>20 [100]</td>
<td>1.5 [0.40]</td>
</tr>
<tr>
<td></td>
<td>35 [165]</td>
<td>1.0 [0.26]</td>
</tr>
<tr>
<td>210 [3050]</td>
<td>20 [100]</td>
<td>3.0 [0.79]</td>
</tr>
<tr>
<td></td>
<td>35 [165]</td>
<td>2.0 [0.53]</td>
</tr>
</tbody>
</table>

Direction of shaft rotation

![Diagrams showing direction of shaft rotation]
Permissible radial shaft load

The output shaft runs in tapered roller bearings that permit high axial and radial forces.

The permissible radial load on the shaft is shown for an axial load of 0 N as a function of the distance from the mounting flange to the point of load application.

The curve is based on $B_{10}$ Bearing life (2000 hours or 12 000 000 shaft revolutions at 100 min$^{-1}$) at rated output torque, when mineral-based hydraulic oil with a sufficient content of anti-wear additives, is used.
Explanation of function diagram use, basis and conditions can be found on page 5.

[blue] Continuous range
[pink] Intermittent range (max. 10% operation every minute)

Intermittent pressure drop and oil flow must not occur simultaneously.
Explanation of function diagram use, basis and conditions can be found on page 5.

[blue] Continuous range
[pink] Intermittent range (max. 10% operation every minute)

Intermittent pressure drop and oil flow must not occur simultaneously.
Technical data

Explanation of function diagram use, basis and conditions can be found on page 5.

[blue] Continuous range

[pink] Intermittent range (max. 10% operation every minute)

Intermittent pressure drop and oil flow must not occur simultaneously.
Explanation of function diagram use, basis and conditions can be found on page 5.

[blue] Continuous range

[pink] Intermittent range (max. 10% operation every minute)

Intermittent pressure drop and oil flow must not occur simultaneously.
Shaft version

A: Tapered 1 1/4 in shaft
N: Cone 1:8 SAE J501
M: 1 - 20 UNEF across flats 1 7/16 in Tightening torque: 200 ± 10 Nm [1770 ± 85 lbf-in]
O: Parallel key 5/16 x 5/16 x 1 1/4 SAE

Port thread versions

A: UNF main port
C: 7/8 - 14 UNF o-ring boss port
B: UNF drain port 7/16 - 20 UNF o-ring boss port
Dimensions

OMSW with side port and check valve

OMSW with side port and check valve

D: 7/8 - 14 UNF; 16.76 mm [0.66 in] deep

E: Thread for external brake 4 x 5/16 - 18 UNF; 13 mm [0.51 in] deep
### Technical Information

**OMSW with brake nose Orbital Motors**

#### Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>$L_1$ mm [in]</th>
<th>$L_2$ mm [in]</th>
<th>$L_3$ mm [in]</th>
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</thead>
<tbody>
<tr>
<td>OMSW 125</td>
<td>21.8 [0.86]</td>
<td>58.8 [2.31]</td>
<td>100.2 [3.94]</td>
</tr>
<tr>
<td>OMSW 160</td>
<td>27.8 [1.09]</td>
<td>64.8 [2.55]</td>
<td>106.2 [4.18]</td>
</tr>
<tr>
<td>OMSW 200</td>
<td>34.8 [1.37]</td>
<td>71.8 [2.83]</td>
<td>113.2 [4.46]</td>
</tr>
<tr>
<td>OMSW 250</td>
<td>43.5 [1.71]</td>
<td>80.5 [3.17]</td>
<td>121.9 [4.80]</td>
</tr>
<tr>
<td>OMSW 315</td>
<td>54.8 [2.16]</td>
<td>91.8 [3.61]</td>
<td>133.2 [5.24]</td>
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C: 7/16 - 20 UNF; 11.43 mm [0.45 in] deep
D: 7/8 - 14 UNF; 16.76 mm [0.66 in] deep O-ring boss port
E: Thread for external brake 4 x 5/16 - 18 UNC; 13 mm [0.51 in] deep
## Dimensions

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<tr>
<th>Type</th>
<th>$L_1$ mm [in]</th>
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<tr>
<td>OMSW 500</td>
<td>68.4 [2.69]</td>
<td>105.4 [4.15]</td>
<td>146.8 [5.78]</td>
</tr>
</tbody>
</table>
Dimensions

**OMSW with end port and check valve**

---

**D:** 7/8 - 14 UNF; 16.76 mm [0.66 in] deep O-ring boss port

**E:** Thread for external brake 4 x 5/16 - 18 UNC; 13 mm [0.51 in] deep
**Technical Information**

**OMSW with brake nose Orbital Motors**

**Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>L₁ [mm]</th>
<th>L₂ [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMSW 125</td>
<td>21.8 [0.86]</td>
<td>101.8 [4.01]</td>
</tr>
<tr>
<td>OMSW 160</td>
<td>27.8 [1.09]</td>
<td>107.8 [4.24]</td>
</tr>
<tr>
<td>OMSW 200</td>
<td>34.8 [1.37]</td>
<td>114.8 [4.52]</td>
</tr>
<tr>
<td>OMSW 250</td>
<td>43.5 [1.71]</td>
<td>123.5 [4.86]</td>
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<td>OMSW 315</td>
<td>54.8 [2.16]</td>
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<tr>
<td>OMSW 400</td>
<td>68.4 [2.69]</td>
<td>148.4 [5.84]</td>
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<tr>
<td>OMSW 500</td>
<td>68.4 [2.69]</td>
<td>148.4 [5.84]</td>
</tr>
</tbody>
</table>
Dimensions

**OMSW with end port and drain connection**

**OMSW with end port and drain connection**

---

**Technical Information**

OMSW with brake nose Orbital Motors

---

**Dimensions**

---

**C:** 7/16 - 20 UNF; 11.43 mm [0.45 in] deep

**D:** 7/8 - 14 UNF; 16.76 mm [0.66 in] deep O-ring boss port

**E:** Thread for external brake 4 x 5/16 - 18 UNC; 13 mm [0.51 in] deep

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"--- Not Painted
Please note:
The stated dimension is without paint."
## Technical Information

### OMSW with brake nose Orbital Motors

#### Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>$L_1$ mm [in]</th>
<th>$L_2$ mm [in]</th>
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<tbody>
<tr>
<td>OMSW 125</td>
<td>21.8 [0.86]</td>
<td>101.8 [4.01]</td>
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<td>OMSW 160</td>
<td>27.8 [1.09]</td>
<td>107.8 [4.24]</td>
</tr>
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<td>OMSW 200</td>
<td>34.8 [1.37]</td>
<td>114.8 [4.52]</td>
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<td>OMSW 250</td>
<td>43.5 [1.71]</td>
<td>123.5 [4.86]</td>
</tr>
<tr>
<td>OMSW 315</td>
<td>54.8 [2.16]</td>
<td>134.8 [5.31]</td>
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<tr>
<td>OMSW 400</td>
<td>68.4 [2.69]</td>
<td>148.4 [5.84]</td>
</tr>
<tr>
<td>OMSW 500</td>
<td>68.4 [2.69]</td>
<td>148.4 [5.84]</td>
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## Weight of motors

<table>
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<tr>
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<th>Weight [kg] [lb]</th>
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<tr>
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<td>151F2504</td>
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<td>151F2507</td>
<td>13.6 [30.0]</td>
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<td>151F2508</td>
<td>13.6 [30.0]</td>
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<tr>
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<td>13.6 [30.0]</td>
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<tr>
<td>151F2538</td>
<td>13.6 [30.0]</td>
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