

Data Sheet

Orbital Motor TMTHW

The Danfoss TMTHW Orbital Motor cover's the highest performing motor for work functions, the TMTHW is performing excellent on applications where the demand for high torque and high speed is needed (compared to other hydraulic-motor principles). The extra sealing design allows high pressure rating performance. The increased bearing capacity design make the TMTHW more robust and gives more relia-bility in certain applications. Danfoss now has 2 size TMTHW motors.

TMTHW Size: 315-800cc

The TMTHW Motor is designed by Danfoss Power Solutions in Denmark, who for more than 50 years has been developing state-ofthe- art orbital motors. It is based upon the same design principles as the well proven Danfoss TMT Motor.

Features

- · Robust bearing design
- Not sensitive towards return pressure
- Extra patented sealing design
- · High pressure rating
- Excellent performance / weight
- Designed based on decades of experience with orbital motortechnology

Key Data

- Displacement range: 315-800 cc
- Speed (max): 590 rpm
- Output torque (int.): 3510 Nm
- Pressure drop up to 350 bar
- Flow up to 240 l/min
- Effect up to 65 kW
- Port connection G 3/4"

Benefits

- Increased productivity and performance in use
- Better energy-optimizing
- Less service costs



Applications

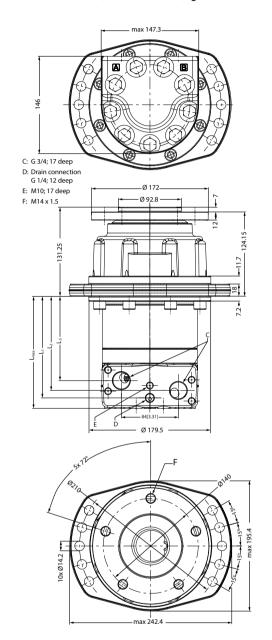
- Harvester heads
- Forest machine
- Conveyer belts
- Skid steer loader
- Stone Crusher
- Crane
- And more

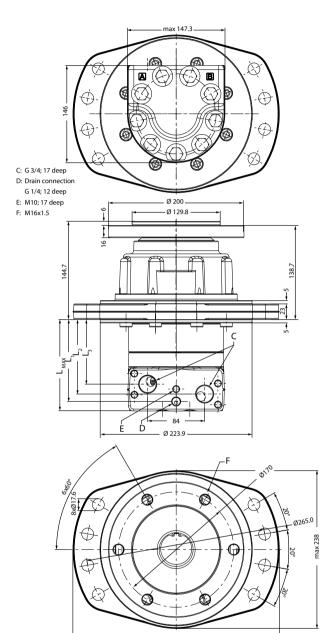
Comprehensive technical literature online at *powersolutions.danfoss.com*



Dimensions

Sizes 315-800cc (left) and 400-800cc (right)





| Size | Output shaft | Weight | Mounting |
|-----------|---------------|--------------|----------------|
| | | | flange |
| 315-800сс | F180/5xM14 BC | 34-38 kg | Wheel 10x ø14 |
| | ø140/PD.ø92.8 | | BC ø210/PD |
| | | | ø180 |
| 400-800сс | F200/6xM16 BC | 42.1-44.5 kg | Wheel 8x ø17,5 |
| | ø170/PD.ø130 | | BC ø265/PD |
| | | | ø224 |

| Size | L _{MAX} (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) |
|------------------|-----------------------|---------------------|---------------------|---------------------|
| 315-800сс | | | | |
| TMTHW 315 | 133.1 | 114.9 | 103.9 | 89.4 |
| TMTHW 400 | 145.2 | 127.0 | 116.0 | 101.5 |
| TMTHW 500 | 153.8 | 135.6 | 124.6 | 110.1 |
| TMTHW 630 | 167.8 | 149.6 | 138.6 | 124.1 |
| TMTHW 800 | 167.8 | 149.6 | 138.6 | 124.1 |

P301 455





| Size | L _{MAX} (mm) | L ₁ (mm) | L ₂ (mm) | L ₃ (mm) |
|-----------|-----------------------|---------------------|---------------------|---------------------|
| 400-800сс | | | | |
| TMTHW 400 | 139 | 120.8 | 109.8 | 95.3 |
| TMTHW 500 | 147.6 | 129.4 | 118.4 | 103.9 |
| TMTHW 630 | 161.6 | 143.4 | 132.4 | 117.9 |
| TMTHW 800 | 161.6 | 143.4 | 132.4 | 117.9 |



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without changes being necessary in specifications already agreed.

All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.