

ENGINEERING TOMORROW

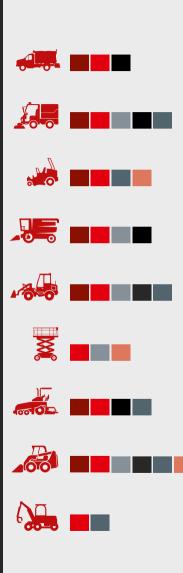
Danfoss Power Solutions presents

Orbital Motor Portfolio

Navigate through this e-book by clicking on the different icons









- Delivering premium power across the board
- Motors cover small to large, medium to heavy-duty needs
- Pressure capability up to 280 bar [4,061 psi]



The cost-competitive option

- The W-series is a competitive fit at a competitive price in low to medium-duty cycle applications
- High reliability and pressure ratings from 160-207 bar [2,320-3,000 psi]



The new generation of OMP and OMR motors

- A modular platform, and form and fit with your existing applications
- Improves performance
- Reduces total cost of ownership



An outstanding performer in a wide range of applications

- Highly efficient and dependable
- · The rugged motors are especially suited for low flow and high pressure situations
- · A perfect fit for use in the mobile hvdraulic market



For tough applications

- · With pressure capability up to 350 bar [5,080 psi]
- High starting torgue
- · The energy-efficient choice for the toughest working environments

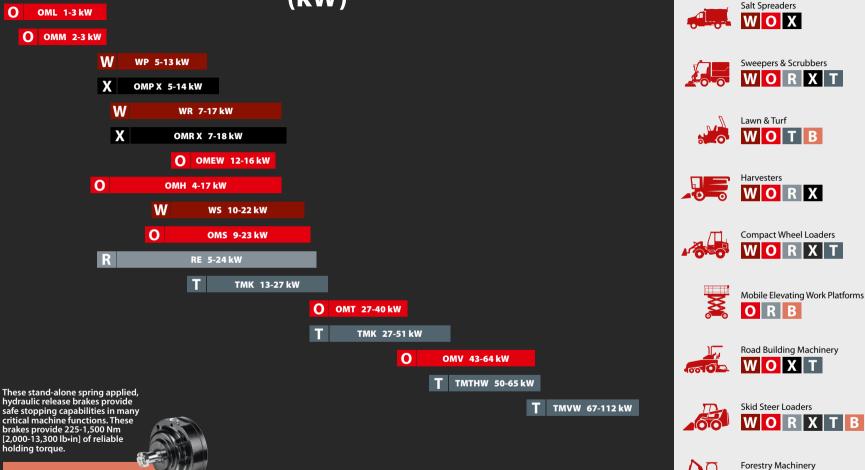


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225-1,500 Nm

Stand alone brakes

Orbital Motor Portfolio (kW)



APPLICATIONS

B

O T



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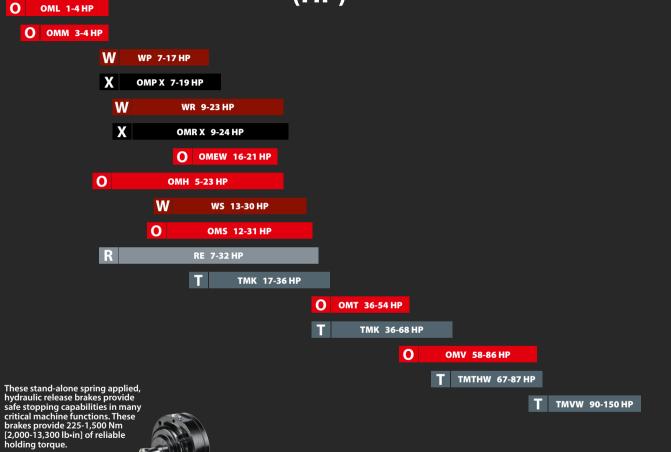


0

225-1,500 Nm

Stand alone brakes

Orbital Motor Portfolio (HP)





Salt Spreaders

W O X



O T



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-series

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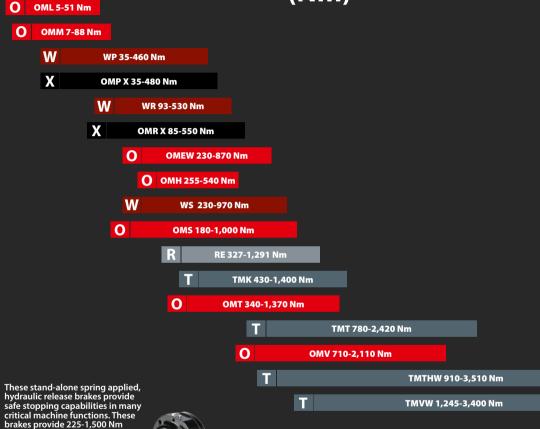
[2,000-13,300 lb•in] of reliable

225-1,500 Nm

Stand alone brakes

holding torgue.

Orbital Motor Portfolio (Nm)



APPLICATIONS





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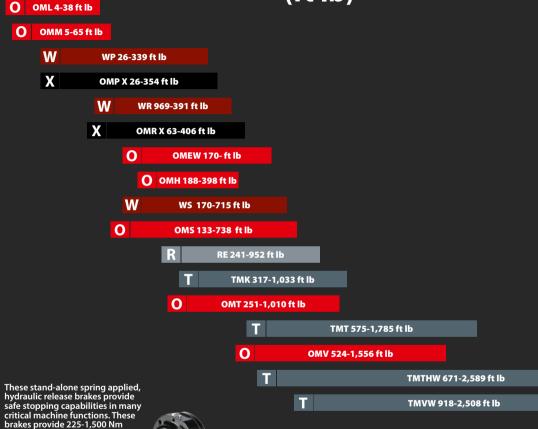
[2,000-13,300 lb•in] of reliable

225-1,500 Nm

Stand alone brakes

holding torgue.

Orbital Motor Portfolio (ft lb)











$\overline{\mathbf{x}}$	Mobile Elevating Work Platforms			
	0	R	B	









Salt Spreaders / Augers / Conveyors / Dispensings

Augers / Conveyors WOX

- Optimize efficiency over the life of the application maintain right dosage of salt
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions

Spreaders / Spinners WO

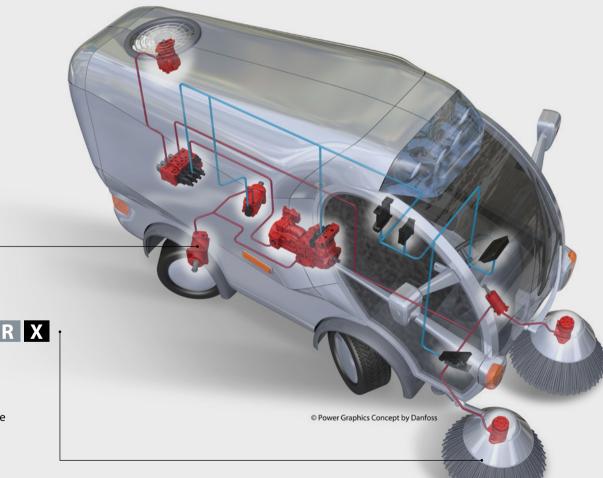
- Optimize efficiency over the life of the application maintain right dosage of salt
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions
- High torque for crushing lumps of salt



Sweepers & Scrubbers

Traction Motors **O T**

- Take advantage of efficiency, durability and starting torque
- Wheel mount and shaft mount
- Integrated brakes and loop flushing
- Speed sensor compatibility



Broom / Brush Motors WORX

- Full range of motors for any duty cycle
- Optimize efficiency over the life of the application – maintain broom / brush speed
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions



Traction Motors WOT

- Take advantage of efficiency, durability and high starting torque
- Wheel mount and shaft mount
- Integrated brakes and loop flushing
- High bearing capacity
- Outstanding motor efficiency for reduced fuel consumption

Brakes B -

- Integrated or stand alone brakes
- Spring applied hydraulic release
- Up to 2,000 Nm of reliable holding torque



Chaff Spreaders WOX.

- High torque and consistent speed
- Speed sensor compatibility
- High pressure shaft seals
- Seal protector available

Auger / Belt Drive Motors WOX

- Industry-leading torque
- High pressure shaft seal for series operation
- Bearing packages for high radial loads
- Seal protector available

© Power Graphics Concept by Danfoss

Header / Side Cutter / Reel Drive Motors WORX

- Full range of motors for any duty cycle. Sugar cane, wheat, sorghum, beets
- Optimize efficiency over the life of the application
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions
- Speed sensor capability allows you to know exactly how the machine is performing or adjust for different crops

Compact Wheel Loaders

Work Tool Motors WORX

- Full range of motors for any duty cycle
- Optimize efficiency over the life of the application
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions

Traction Motors **TO**

- Take advantage of efficiency, durability and starting torque
- High bearing capacity
- Outstanding motor efficiency for reduced fuel consumption
- Wheel mount and shaft mount
- Integrated brakes and loop flushing



Mobile Elevating Work Platforms

Traction Motors OR

- High efficiencies at low speeds allows the application to move smoothly even when climbing a ramp at low speeds
- Take advantage of efficiency, durability and starting torque
- Wheel mount and shaft mount
- Integrated brakes and loop flushing

Brakes **B** -

- Integrated or stand alone brakes
- Spring applied hydraulic release
- Up to 2,000 Nm of reliable holding torque





Road Building Machinery

Conveyer / Belt Drive WOX

- Full range of motors for any duty cycle
- Optimize efficiency over the life of the application maintain constant flow
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions

Auger / Screed Motors OR

- Full range of motors for any duty cycle
- Optimize efficiency over the life of the application maintain flow
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions

Skid Steer Loaders / Multi-Terrain Loaders

Work Tool Motors WORX ·

- Full range of motors for almost any duty cycle
- Optimize performance and value by selecting the right motor for the application
- Bearings, shaft seal, and seal protector guarantee long life in harsh conditions

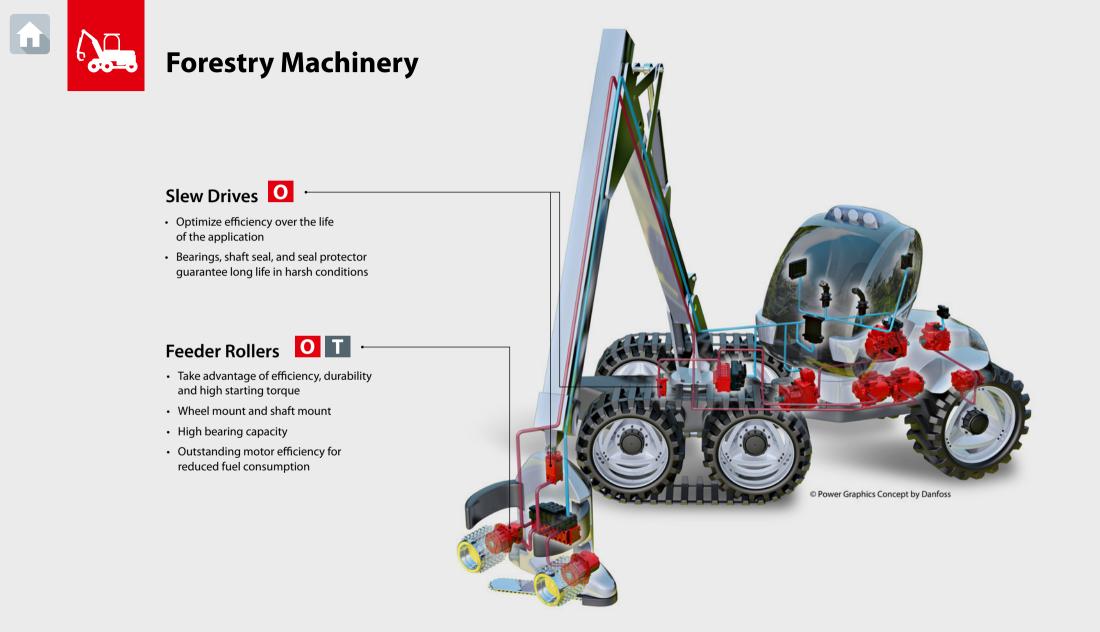
Traction Motors **O**T

- Take advantage of efficiency, durability and starting torque
- Wheel mount and shaft mount

Brakes **B** -

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- Integrated brakes and loop flushing
- Spring applied hydraulic release
- Up to 2,000 Nm of reliable holding torque



The flexible choice

- The O-series is flexible beyond compare. Delivering premium power across the range, these motors cover small to large, medium to heavy-duty needs with pressure capability up to 275 bar [3,990 psi].
- The O-series is the flexible and safe choice that will fit into most applications, and will provide the extended lifetime under tough conditions e.g. at high pressure and speed. Typical applications are: harvesters, drilling, salt spreaders, lawn & turf, and forestry machines.
- The O-series consists of:



O-series



OMP / OMR X

OMM / OML



OMH

OMEW



OMS





OMT



OMV







The competitive option for the competitive market

- The W-series is a competitive fit at a competitive price in low to medium-duty cycle applications. High reliability and pressure ratings from 160-207 bar [2,320-3,000 psi] make these motors a perfect match in a wide range of applications in multiple hydraulic markets.
- The W-series can be used to replace competitor products, and can also be used for low to medium duty applications like: conveyors, walk behind lawn mowers, brooms, winches, and salt spreaders.



• The W-series consists of:



WP







WR

WD

WS

WG



The new generation

- Requirements in your business are increasing and demands are getting tougher. And that is why, we have developed the new standard in orbital motors: The Orbital X Program.
- Orbital X is the new generation of OMP and OMR motors. With its unseen
 modular platform, and form and fit with your existing applications, it redefines
 motor conversion, improves your performance and reduces your total cost of
 ownership. Orbital X is preparing for the future and is where the majority of product
 improvements will be made. A modular build program is available for Orbital X,
 allowing distributors to meet customer demands quickly, with limited inventory.
- The Orbital X is well suited for applications like: harvesters, combines, sweepers & scrubbers, mowers, and road building machines.
- The Orbital X consists of:



Orbital X



OMR X



OMP X

Modular build program





The medium-duty workhorse

- The R-series is an outstanding performer in a wide range of mobile hydraulic applications. Highly efficient and dependable, these rugged motors are especially suited for low flow, high pressure situations. With several bearing options, these motors are well suited for use in the mobile hydraulic market.
- The R-series has outstanding performance especially in situations requiring high pressure and low speed e.g. when climbing a ramp. It is well suited for applications like: aerial work platforms, mixers, augers, winch drives, and swing drives.
- The R-series consists of:



R-series





For tough applications

- With pressure capability up to 350 bar [5,080 psi] and high starting torque, the T-series is the energy-efficient choice for the toughest working environments. Leading performance with a long lifetime makes light work of the heaviest duties. Up against high pressures, thin oil or frequent reversals, our motors are guaranteed to perform smoothly and efficiently – even at low speed.
- The T-series is well suited for applications in harsh environments with tough demands. It provides excellent torque and has high sideload and bearing capabilities. It is well suited for applications like: road building machines, skid steer loaders, forestry machines, and many industrial applications.



• The T-series consists of:



-series



TMT





TMK

TMTHW









ENGINEERING TOMORROW