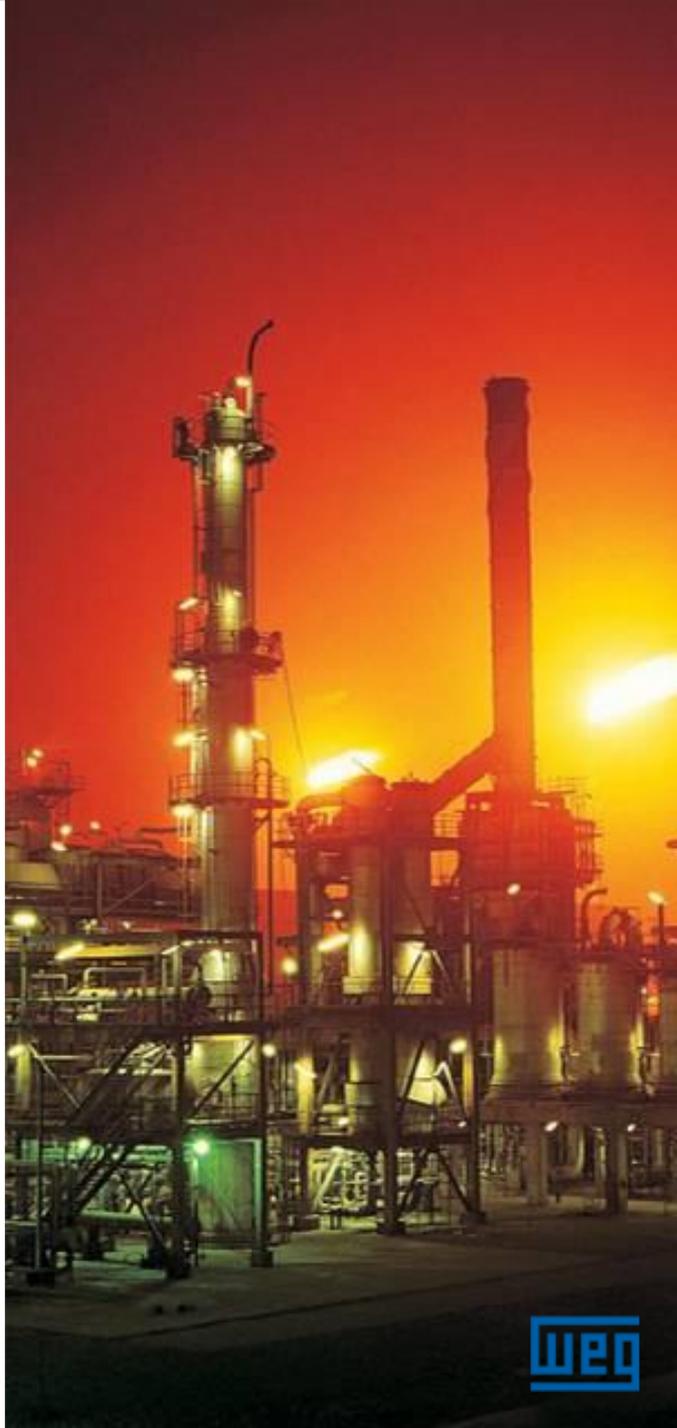


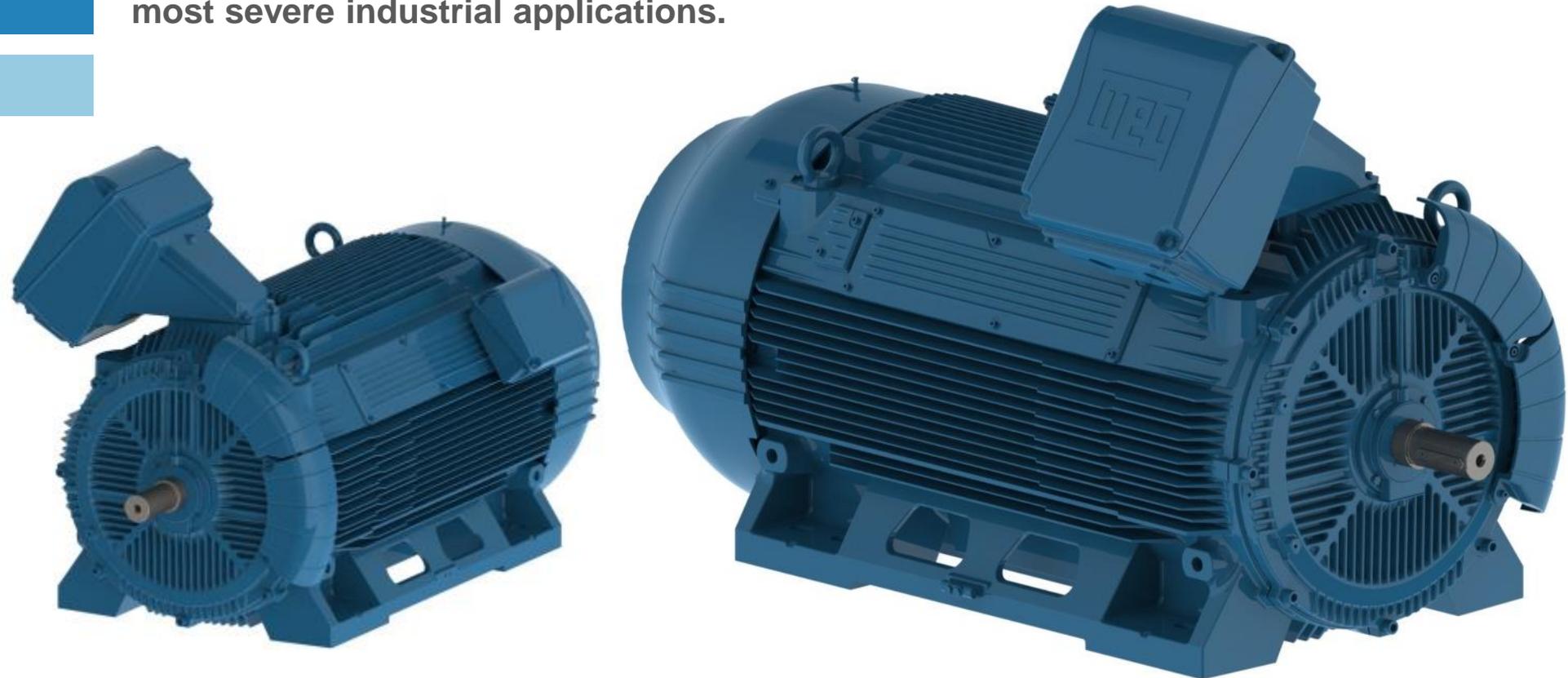
New WMO's Engineered Industrial Motors Platform

W50



New W50 Motors

The WEG W50 motor line is a product designed for industrial applications featuring high performance and reliable for the most severe operating conditions. Intensive optimization works have been carried out by WMO engineering team with the application of state-of-art tools aiming at achieving an optimized yet robust design, making it suitable to the most severe industrial applications.



Benefits

- Rugged and compact design
 - Fully manufactured on high quality cast-iron
 - Modular construction
 - Low vibration levels
 - Low noise levels:
 - 82dB(A) at 3600 rpm (60Hz)
 - 78dB(A) at 3000 rpm (50Hz)
 - Rigid Shaft Design for all motors up to 3600 RPM – no VSD limitations
- Rolling Bearings for all motors and speeds – grease lubricated
 - Low bearing temperature
 - Suitable for oversized terminal boxes and a wide range of accessories
 - High overall performance
 - High energy efficiency levels
 - 100.000 hours Bearing L10h life (direct drive)
 - Reduced motor length and weight
 - Suitable for high speed applications – up to 5000 RPM (under request)



Product features – Basic Scope



- ✓ Rated Output: 125 to 1750 HP
- ✓ Number of Poles: 2 to 12
- ✓ Frame Sizes: IEC 315 to 450 / NEMA 5009/10 to 7008/9
- ✓ Voltage: Low or Medium Voltages
- ✓ Frequency: 50 or 60 Hz
- ✓ Degree of Protection: IP55
- ✓ Mounting: B3 (Other mountings as optional)
- ✓ Bearing type: Ball Bearings (Sleeve bearings as optional)
- ✓ Suitable for frequency inverter application
- ✓ Cooling Method: IC-411 according to DIN EN 60034-6 Standard



Some new features - W50



New terminal box support



Multiple lifting points



Optimized bearing air baffle



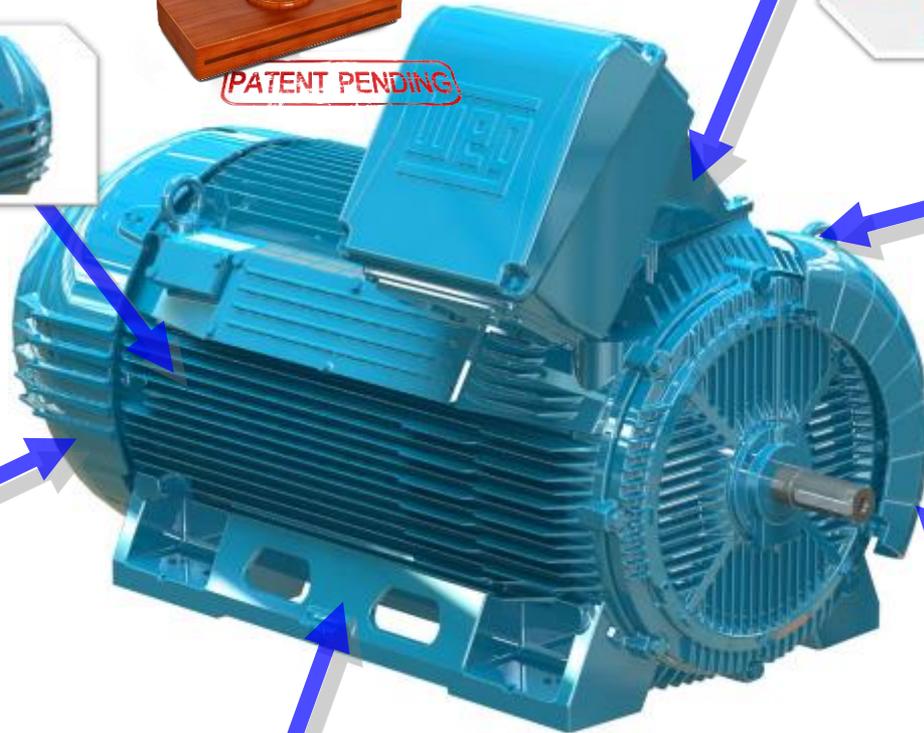
Optimized Feet design



Modular motor design



New Fan cover Design



Summing Up

Adding all the results shown above, we have a more compact a lighter motor when compared to our current HGF design and also the main players on the market.



Lenght and Weight comparison to current HGF

	Frame	Lenght (mm)	Reduction	Weight (kg)	Reduction
W50	315 H/G	1675	12%	2000	9%
	355 J/H	1807	16%	2600	15%
	400 L/K	1840	15%	3200	14%
	400 J/H	1960	21%	3400	26%
	450 L/K	2014	19%	4675	21%
	450 J/H	2164	13%	5280	11%

W50 X Siemens' H-Compact on same output Length and Weight			
Frame		Length (mm)	Weight (kg)
315	50XX	-135	-50
355	58XX	-178	-150
400	68XX	-165	-290
450	70XX	-226	-90

Modular Concept

- Sleeve bearing projects as optional

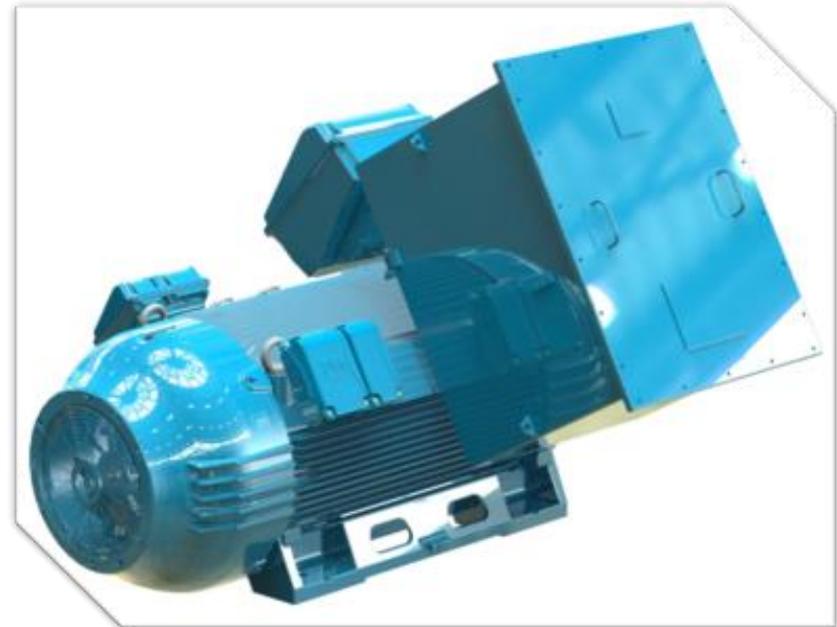


- New optimized modular concept, ease of assemble and transformation without sacrificing the engineered product characteristics



Modular Concept

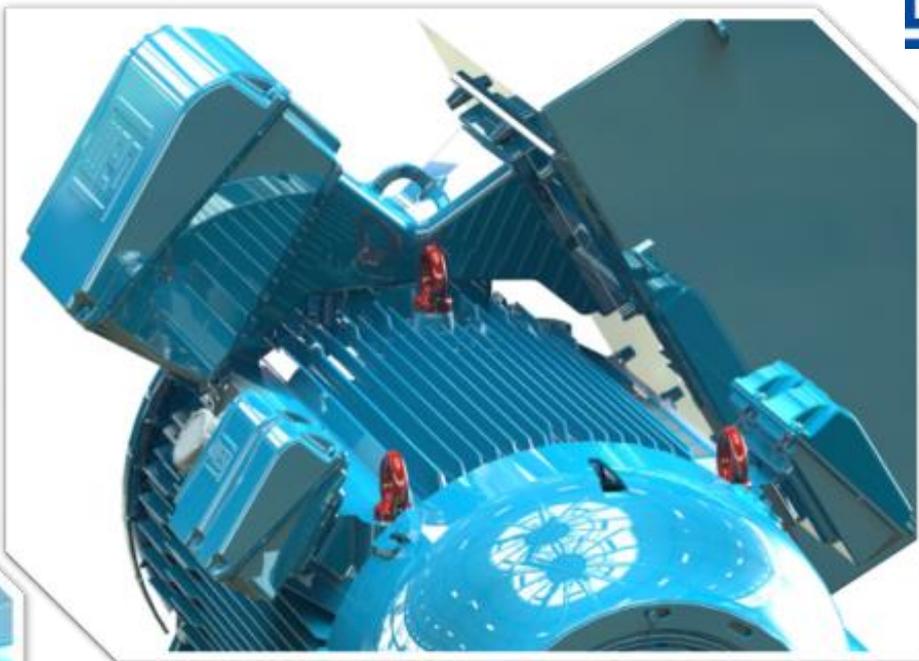
- Shorter vertical motors



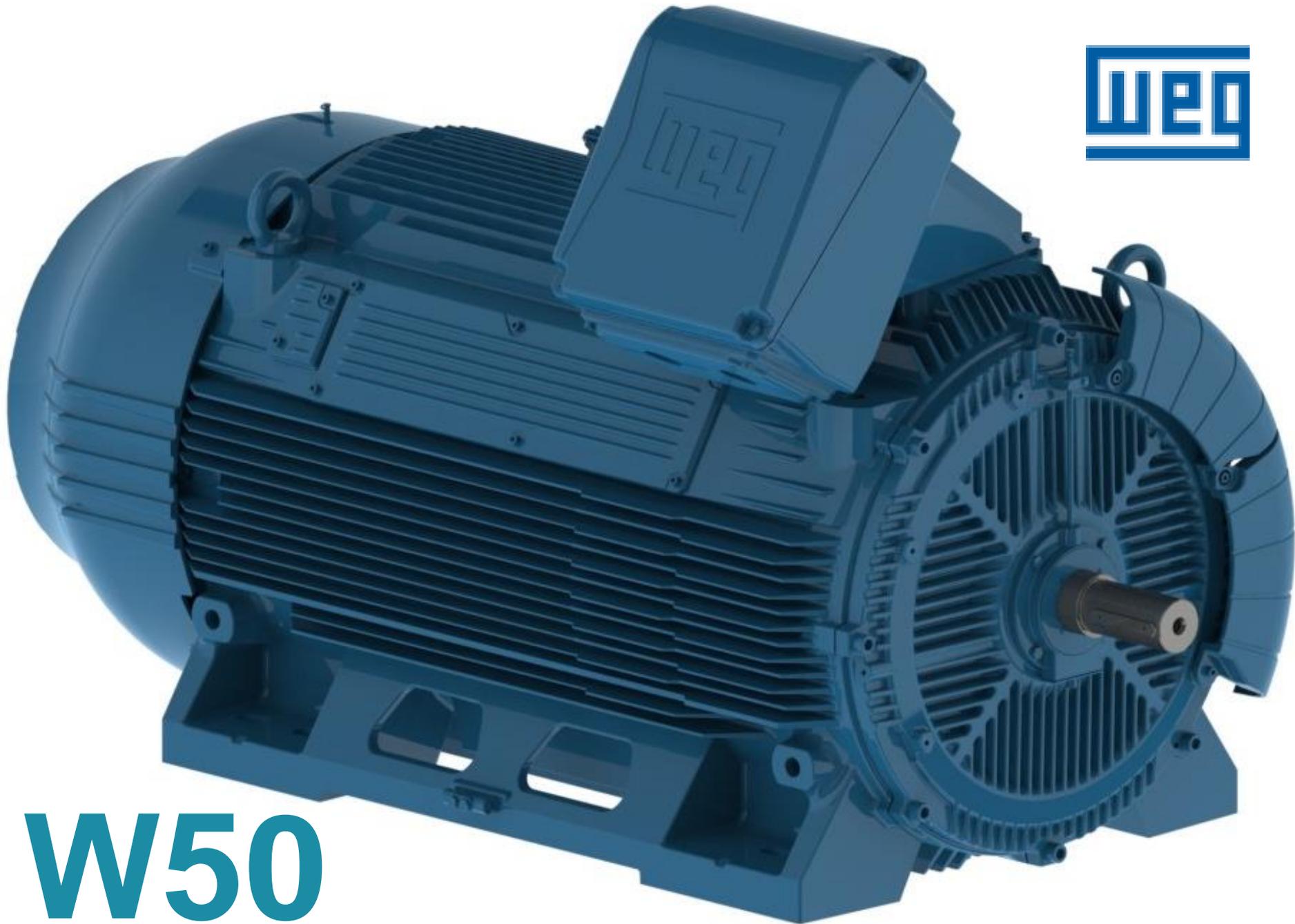
- Supports a wide array of terminal boxes and accessories

Modular Concept

- Modular blower kit



- Multiple lifting lugs positions



W50