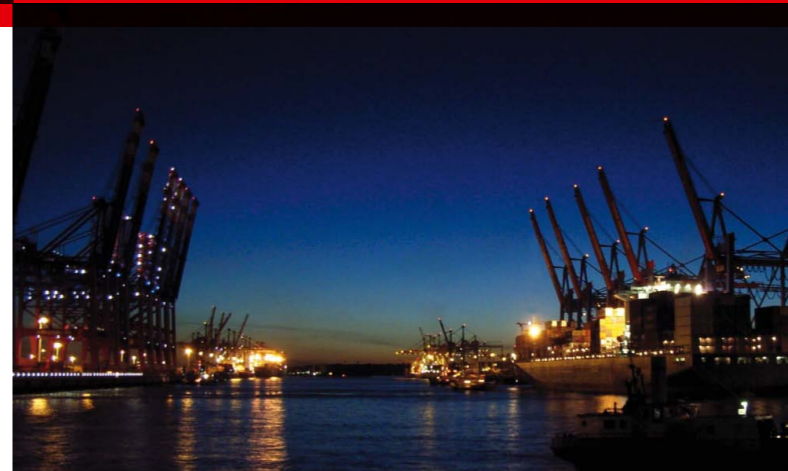
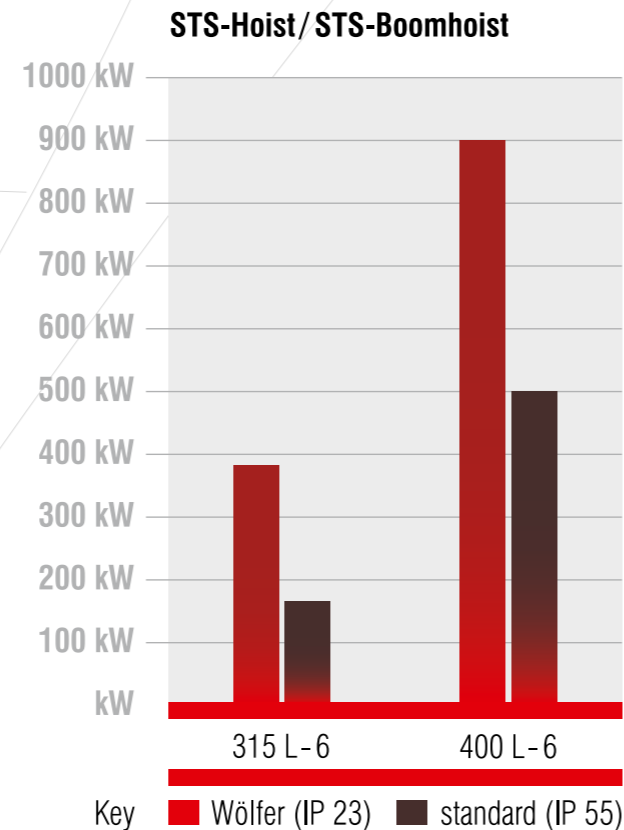




# Wölfer moves the world

## Technology, that moves your world

- Squirrel-cage and slip-ring motors
- Range of power 2,2 to 2100 kW
- Frame size 100 to 560 to IEC
- Degree of protection IP 23 to IP 56
- Rated voltages up to 690 V
- Self ventilation/forced ventilation/without ventilation
- Since april 2008, Wölfer has been TÜV certified according to DIN EN ISO 9001:2000 for its quality management
- Wölfer has one of the most powerful and modern load test systems for electric motors in Northern Germany



## Reasons for a cooperation



Franz Wölfer Elektromaschinenfabrik Osnabrück GmbH  
 Postfach 4380 · 49033 Osnabrück · Industriestraße 14 · 49082 Osnabrück  
 Telefon +49 (0) 541 / 990 22-0 · Telefax +49 (0) 541 / 990 22-22  
 info@woelfer-motoren.com · www.woelfer-motoren.com



Franz Wölfer  
 Elektromaschinenfabrik  
 Osnabrück GmbH®



## Franz Wölfer Elektromaschinenfabrik – What we do

- We apply our extensive know-how to produce highly efficient motors for drive mechanism solutions
- For 70 years now Franz Wölfer Elektromaschinenfabrik has been developing and manufacturing smooth-running electric motors
- Our employees work hard to ensure highest quality standards
- Customers throughout the world are convinced by our innovative products
- In the production of motors for hoisting equipment are we leader in quality and technology
- We produce efficient motors for use in general mechanical engineering, in hoisting equipment and in shipbuilding
- We can offer you individually produced electric motors according to wishes and exigencies

### Reference list (Extract)

<b>Port of Dunkerque</b>	(France)	Straddle Carrier: Hoist
<b>Port of Le Havre</b>	(France)	Straddle Carrier: Hoist
<b>Port of Southampton</b>	(UK)	Straddle Carrier: Hoist
<b>Port of Rotterdam</b>	(Netherland)	ASC: Hoist, Trolley, Gantry
<b>Port of Gioia Tauro</b>	(Italy)	STS-cranes: Hoist, Boomhoist
<b>Port of Valencia</b>	(Spain)	RTG-cranes, STS-cranes: Hoist
<b>Port of Algeciras</b>	(Spain)	STS-cranes: Hoist
<b>Port of Hamburg</b>	(Germany)	Straddle Carrier, AGV, STS-cranes: Hoist, Main-Drive, Boomhoist, Trolley, Gantry
<b>Port of Bremerhaven</b>	(Germany)	Straddle Carrier, AGV, STS-cranes: Hoist, Boomhoist, Trolley, Gantry
<b>Port of Wilhelmshaven</b>	(Germany)	Straddle Carrier: Hoist

## Advantages of customer designed Wölfer-motors

- Excellent control characteristics, also in high range of speed
- High pull-out torques ensure a secure range of speed far up into the range of field-weakening
- Low moment of inertia, low starting current and short acceleration time
- Robust design, but often smaller weight and frame size
- The possibility to use smaller cables and inverters due to lower current
- Minimized service after commissioning
- Low life cycle costs
- The usage of specially designed rotors with special slots

