<table>
<thead>
<tr>
<th>Table of Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Introduction to Wittur Group</td>
</tr>
<tr>
<td>Wittur Range of Products</td>
</tr>
<tr>
<td>Wittur Latest References</td>
</tr>
<tr>
<td>Detailed References</td>
</tr>
</tbody>
</table>
Wittur Group one of the world’s largest independent supplier of components and systems for the elevator industry.

Wittur’s product portfolio includes elevator doors, safety components, gearless and hydraulic drives, cars, car frames and counterweight frames.

Wittur is present throughout the world with 11 production plants and 21 sales companies.
## Introduction to Wittur Group

### Wittur Group Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1968</td>
<td>Horst Wittur founds his own company <strong>Wittur Aufzugsteile GmbH + Co.</strong></td>
</tr>
<tr>
<td>1980</td>
<td>Establishment of Selcom Aragon (today <strong>Wittur Elevator Components S.A.</strong>) in Zaragoza, Spain.</td>
</tr>
<tr>
<td>1991</td>
<td>Establishment of LMC Management GmbH (today <strong>Wittur Holding GmbH</strong>) in Wiedenzhausen, Germany.</td>
</tr>
<tr>
<td>1993</td>
<td>Takeover of Asfen (today <strong>Wittur Asansör Sanayi Ve Ticaret Ltd. Sirketi</strong>) in Istanbul, Turkey.</td>
</tr>
<tr>
<td>1995</td>
<td>Establishment of Suzhou Selcom (today <strong>Wittur Elevator Components (Suzhou) Co., Ltd.</strong>) in Suzhou near Shanghai, China.</td>
</tr>
<tr>
<td>1999</td>
<td>Takeover of SAD (today <strong>Wittur Electric Drives GmbH</strong>) in Dresden, Germany.</td>
</tr>
<tr>
<td>2000</td>
<td>Takeover of KONE’s production plant (today <strong>Wittur GmbH</strong>) in Scheibbs, Austria.</td>
</tr>
<tr>
<td>2009</td>
<td>Takeover of Soimet (today <strong>Wittur S.A.</strong>) in Buenos Aires, Argentina.</td>
</tr>
<tr>
<td>2010</td>
<td>Establishment of <strong>Wittur S.r.o.</strong> in Krupina, Slovak Republic.</td>
</tr>
<tr>
<td></td>
<td>Establishment of <strong>Wittur Elevator Components Pvt. Ltd.</strong> in Chennai, India</td>
</tr>
</tbody>
</table>
Introduction to Wittur Group

- We aim to be highly attractive to our customers by offering top-quality products and best in class services.
- Group-wide focus on common objectives.
- Four strategic drivers to achieve excellence:
  - Corporate Leadership
  - Sales Power
  - Operational Performance
  - Innovation
Introduction to Wittur Group

Wittur Executive Management Board

Walter Rohregger
CEO

Christian Witt
Finance & Controlling

Andreas Zwerger
Production technology, Quality, IT, Purchasing

Sergio Biglino
Asia, MNC’s, Marketing

Ercüment Hızal
R&D,
Middle East, Russia

Javier Navamuel
Europe, Americas, Africa
Introduction to Wittur Group

Sales Power: Regional Customer Service

- Engineering
- Local language sales and after sales
- Local structures tailored to specific market requirements
- Product customisation
- Package design and supply
- Job-site inspection
- Spare parts distribution
- Quick feedback to customers’ requests
Introduction to Wittur Group

Worldwide Presence

Production Companies
Trading Companies
Introduction to Wittur Group

Operational performance: Wittur production plants

Argentina, Buenos Aires
12.000 m² (10.000 covered)

Austria, Scheibbs
33.000 m² (20.000 covered)

Brazil, Cambe
20.000 m² (2.400 covered)

China, Suzhou
86.000 m² (30.000 covered)

Italy, Parma
58.000 m² (32.300 covered)

Chennai, India
8.000 m² (4.500 covered)

Italy, Bergamo
36.000 m² (8.500 covered)

Germany, Dresden
9.000 m² (4.500 covered)

Slovakia, Krupina
39.000 m² (5000 covered)

Spain, Zaragoza and Madrid
42.000 m² (22.000 covered)

Turkey, Istanbul
12.000 m² (7.000 covered)

© 2012 WITTUR - All rights reserved
8 Centers of Competence focused on product specific R&D and manufacturing

More than 300 international Patents

Test towers: Wittur GmbH in Austria (49 m), Wittur Electric Drives GmbH in Dresden, Wittur Elevator Components S.A. in Madrid

Specific test labs for doors, drives, hydraulics and safety systems

Constant activity of product certification according to existing and new directives and standards

World wide wittur (www): network of companies focused on global cooperation
Introduction to Wittur Group

Modernisation

- Product compliance to **new directives and standards**
- **Safety** upgrade of existing lifts
  - EN81/80 (S.N.E.L.)
  - Automatic car doors in door-less lifts
  - EN81-1/-2/A3 (unintended car movement)
- **Accessibility** upgrade of existing lifts
  - Automatic doors instead of swing doors
  - Wider automatic doors using new door types
- Improvement of **optical design** and **ride comfort** (noise, vibrations)
- Modifications for better **energy efficiency** of the complete elevator and its components
- **Modernisation packages** tailored to specific manufacturers and product models
## Introduction to Wittur Group

### Sales by product 2011

<table>
<thead>
<tr>
<th>Product</th>
<th>Sales (€)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing Doors</td>
<td>940,000</td>
</tr>
<tr>
<td>Car Doors</td>
<td>198,000</td>
</tr>
<tr>
<td>Lift Cars</td>
<td>2,600</td>
</tr>
<tr>
<td>Slings</td>
<td>32,000</td>
</tr>
<tr>
<td>Safety Devices</td>
<td>74,000</td>
</tr>
<tr>
<td>Hydraulic Drives</td>
<td>6,000</td>
</tr>
<tr>
<td>Gearless Drives</td>
<td>3,400</td>
</tr>
<tr>
<td>Lift Packages</td>
<td>1,500</td>
</tr>
</tbody>
</table>
Introduction to Wittur Group

Range of Products
Wittur Range of Products

Doors

Cars

Hydraulic Drives

Gearless Drives

Safety Devices

Overspeed Governors

Car Slings

Systems

Also on the web: www.wittur.com
Wittur Range of Products

Standard installations for:

- Residential buildings
- Modernisation projects
- Various traffic flows
- Easy & low maintenance
- Wide-purpose models
High traffic installations for:

- Public & office buildings
- High performance
- Long life-cycle
- Vandal-resistant models
Wittur Range of Products

Prestigious installations for:

- Prestigious buildings
- Medium & high traffic
- Round and underdriven models
Customised installations for:

- High-tech & panoramic buildings
- Customised design
- Patented applications
- Patented safety devices
- Innovative solutions
- Special models
Wittur Range of Products

**Special** installations for:

- Marine (96/98/EC)
- Industrial applications
- Freights
- Sloping lifts
- Wide finishing selections
- *Water-proof* and *explosion-proof* executions
MDS1 door for residential lift applications

- Quick and easy installation
- Reliable and durable
- ECO+ brushless door drive designed for low power consumption during operation (Average: 11W) and standby (2.5 W)
- Available in a wide variety of finishes
- Compact cardboard package (40% more products in the same volume compared to other doors on the market)
- EN81-58 E120 Fire certification as standard; EN81-58 EI60, BS476 E120, GOST E30 available as option
Wittur range of products

- Extremely narrow total package
- Suitable for EN 81/80 (SNEL)

FINELINE®: the door for modernization

**NEW!**
EN 81-58 E90

Very compact

car door +
sill gap +
landing door =
115 mm
Wittur Range of Products

- New patented folding car door available with flat or W-panels
- High reliability and performance with ECO+ drive
- Sturdy deformation-resistant panels coupled together using high-strength extruded aluminium hinges

ECO Bus car door
Wittur Range of Products

Car door operators: Hydra PLUS

- Coupler with integrated car door lock
- Pre-adjusted & tested for fast and easy installation
  - Continuous weight detection
  - Self-learning feature
  - Preset speed profiles
- High speed operation with new Eco / Midi / Supra brushless drives
Wittur Range of Products

Car door operators: Hydra 3000 PLUS

- Overall height significantly reduced
- Sill width from 50 mm
- Brushless motor can be installed on the right or left-hand side
- Suitable for top and front fixing
- Powered by new energy efficient ECO+ drive: reduced power consumption
Wittur Range of Products

Residential & heavy duty applications

- Prestigious installations:
  - exclusive design
  - innovative solutions
  - round models
  - panoramic cars
Wittur Range of Products

Gearless Drives

- High efficiency – lower energy consumption
- Oil free (environmentally friendly)
- No mechanical parts (no backlash, no vibrations, low noise)
- High suspension load
- Maintenance-free operation
- Gearless + inverter package available
Wittur Range of Products

Hydraulic Drives

- 3 families of pump units available with mechanical and electronic valve and with inverter
- Wide application range from freights elevators to home lifts
- MRL compact system
- Hydraulic cylinders in “slim” execution to reduce oil quantity
- Patented silence kit
- Wide range of accessories
Wittur Range of Products

- Wide application range
- Brake force control available
- Long life-cycle
- MRL arrangement available
- Nominal speeds up to 13 M/S
- Fast action in case of tripping
UCM Solutions according to EN 81 1/2 : A3

- EOS electronic overspeed governor triggers the safety gear (solution #1) or machine brake (solution #2) after a predefined distance from floor level or after exceeding a predefined speed: fast intervention times and fast tripping after detection.
Wittur Range of Products

- Complete product range (speed-load)
- Suitability for all common guide rail types
- Single action / dual action, instantaneous / progressive
- Easy installation
- Modular design
- Modernisation arrangements
- Compliant to several standards
Wittur Range of Products

- Total flexibility of slings width & height
- Modular concept for free selection of attached components (i.e. safety gears, guide shoes)
- All common suspension types: 1:1 – 2:1 – 4:1
- Insulated rope suspension & interfaces from car to car slings for optimum ride comfort
Wittur Range of Products

MRL W Line Machine Roomless Lift System

- Lift Directive compliant system integrating Wittur main components
- Reduced Engineering and installation efforts
- Modular system from 320 kg up to 2500 kg.
- Most load discharged on pit through guiderails
- Low energy consumption
- Low maintenance
Wittur Range of Products

MRM W Line lift System for modernisation

- Plug-and-play system for fast and easy installation
- Packaging and shipping specially designed according to logical process for lift assembly
- Energy efficiency according to VDI 4707
- Rated load up to 630 kg
- Maximum rated speed 1 m/s
- Travel height up to 30 meters
- Minimum pit depth 225 mm
- Minimum headroom 2600 mm
- One entrance or two entrances
Wittur Range of Products

HHL W Line, more than a “Homelift”

- Suitable for removing architectural barriers in residential, office or public buildings
- Optimal use of available space
- Plug-and-play system for fast and easy installation
- Compact and silent hydraulic drive located inside the controller cabinet for easy access
- Wide range of finishings to complement any interior design
- Compliant with the requirements of the new Machine Directive 2006/42/EC and the prEN 81-41
Introduction to Wittur Group

Latest References
Wittur References

Outstanding Building Applications

- The National Stadium, Beijing
- China World Trade Center Phase3, Beijing
- 99 Bishopsgate, London, UK
- Isozaki Towers, Bilbao, Spain
- Torre Agbar, Barcelona, Spain
- Torre Sacyr, Vallehermoso, Spain
- Westhafen Tower, Frankfurt, Germany
- Is Kulerer, Istanbul, Turkey
- Kanyon Tower, Istanbul, Turkey
- Hyatt Center, Chicago, USA
- Q1 Tower, Gold Coast City, Australia
- HSB Turning Torso, Sweden
- Pirelli Tower, Milan, Italy
- Astana Concert Hall, Kazakhstan
- Tower 42, London
Wittur References

- Metro of Lisbon, Portugal
- Metro of Vienna, Austria
- Metro of Istanbul, Turkey
- Metro of Berlin, Germany
- Metro of Hong Kong
- Metro of Barcelona, Spain
- Metro of Madrid, Spain
- Metro of Valencia, Spain
- Metro of Bilbao, Spain
- Atocha Train Station, Madrid
- Main Central Station, Berlin
Wittur References

- Eurotheum Hotel, Frankfurt, Germany
- Grand Hotel am Dom, Erfurt, Germany
- Orange County Hotel, Antalya, Turkey
- Fame Residence Lara Resort, Antalya, Turkey
- Fame Residence Kemer Resort, Antalya, Turkey
- Sherwood Breezes Resort, Antalya, Turkey
- Hotel Puerta America, Madrid, Spain
- Hilton Hotel, Valencia, Spain
Wittur References

- Madrid Barajas, Spain
- Istanbul Atatürk, Turkey
- Beijing, China
- Warsaw, Poland
- Dubai, U.A.E.
- Kuala Lumpur, Malaysia
- Barcelona, Spain
- New Delhi, India

Airport Applications
Wittur References

- Carnival Freedom
- Costa Serena
- Emerald Princess
- Noordam
- Queen Victoria

Marine Applications

By courtesy of FINCANTIERI
Wittur References

Prestigious Shop Applications

- Apple Store, New York
- Apple Store, London
- Prada, New York
- Bulgari, S. Francisco
- Guess Store, London
Wittur References

Special Projects Applications

- Inclined elevator Serebrjanij-Bor-Bridge, Moscow, Russia
- Inclined elevator Rio de la Pila, Santander, Spain
- Inclined elevator, Camino de Zurbarán, Bilbao, Spain
Thank you for your time and attention!
Wittur References: Europe

- Refurbishment of the 20 lifts in the famous Tower 42, the second highest in the City of London, standing at 183 Metres tall
- Pegasus car and landing doors
- Safety components
- WSG-25 gearless drives

Tower 42, London
Wittur References: Europe

Apple Store Covent Garden, London

- Full glass single landing door panels in outstanding dimensions – 3340 mm height and 1120 mm width
- Underdriven door mechanism
- Hidden sill design with components in stainless steel
- 33-passengers, 4-stop system
- Rated load 2500 kg
- Rated speed 1.0 m/s
Wittur References: Europe

Caja Madrid Tower, Madrid, Spain

- 54 floors rise
- 5.0 AND 7.0 m/s speed
- PEGASUS glass framed fire rated, 2 panels center opening
- AMD2 operators
Wittur References: Europe

- Up to 33 floors
- 4.0 m/s Speed
- HYDRA REI120 landing doors
- PEGASUS operators
- OLG Lift-Gearless
- High-Speed safeties

Pirelli Tower, Milan, Italy
Wittur References: Europe

Cardinal Place, London, UK

- Fire and smoke rated HYDRA landing doors, frosted glass-framed panels
- HYDRA car doors, glazed glass-framed panes
Wittur References: Europe

Westhafen Tower, Frankfurt, Germany

- Asynchronous gearless drive units WLG-35.1
- Duty load: 1600 kg
- Suspension: 1:1
- Speed: 5 m/s
- Power: 57 kW
- Ropes: 2 x 8 x 13
- 33 floors, 115 m
Wittur References: Europe

Königstein Castle, Saxony, Germany

- Asynchronous gearless drive unit WLG-35.1
- Duty load: 4500 kg
- Suspension: 2:1
- Speed: 1,5 m/s
- Travel: 50 m
Wittur References: Europe

Water Tower, St. Petersburg, Russia

- Synchronous gearless drive units WSG-08
- Travel: about 40 m
Serebrjanij-Bor-Bridge, Moscow, Russia

- Asynchronous gearless drive units WLG-35.3 for inclined lifts
- Duty load: 1,000 kg
- Car weight: 3,500 kg
- Counter weight: 14,500 kg
- Suspension: car 1:1/ cw 4:1
- Speed: 1,75 m/s
- Height: 111 m
- Span width: 138 m
Wittur References: Europe

Main Central Station, Berlin, Germany

- Synchronous gearless drive units WSG-W8.4
- Duty load: 1500 kg
- Suspension: 2:1
- Speed: 2.5 m/s
- Travel: 41 m
Wittur References: Europe

- CF series: car frames including high speed safety gears & roller guides
- CWT series: counterweight frames
- AMD car door operators & landing mechanisms
- Equipment for ‘jump lift installation’

HSB Turning Torso, Sweden
Inclined elevator Rio de la Pila, Santander, Spain

- Inclination of 32°, travelling a height difference of 38m at 1m/s.
- A yearly estimate of 2.7 million users in 180,000 free trips.
- 2009 Elevator World “Project of the Year”
Wittur References: Europe

- CF series: car frames including high speed safety gears & roller guides
- CWT series: counterweight frames
- AMD car door operators & landing mechanisms

99 Bishopsgate, London, UK
Wittur References: Europe

Torre de Agbar, Barcelona, Spain

- 39 floors
- 4m/s
- panoramic passenger lifts
- fire-rated glass framed Pegasus landing doors
- fire-rated stainless steel Pegasus landing doors
- glass framed Pegasus car doors
- stainless steel Pegasus car doors
- freight elevator
- fire-rated stainless steel landing doors
Wittur References: Europe

Torre Sacyr, Vallehermoso, Spain

- Landing doors Hydra, fire rated EN81-58
- Car doors Hydra Plus with Supra operator
- Wittur cars in stainless steel
- Wittur car frames WCS-60
- Wittur safety gears SGB-type
- Wittur speed governor OL-type
Wittur References, Europe

Isozaki Towers, Bilbao, Spain

- Two-panels telescopic Stainless Steel landing & car doors
Wittur References, Europe

Metro Barcelona, Spain

- Pegasus glass framed landing doors, 4 panels centre opening
- Pegasus plus glass framed car doors, 4 panels centre opening
Wittur References, Europe

- Hydra glass framed landing doors, 2 panels centre opening
- Hydra plus glass framed car doors, 2 panels centre opening

Metro Madrid line 3, Spain
Wittur References, Europe

Palacio de los deportes, Madrid, Spain

- 88 Panoramic landing doors Hydra, fire rated
- 8 Panoramic car doors Hydra
Wittur References, Europe

Barajas Airport, Terminal T4&T4S, Madrid, Spain

- Hydra glass landing doors, 2 panels centre opening
- Hydra belt car doors, 2 panels centre opening
Wittur References, Europe

Museo Thyssen-Bornemisza, Madrid, Spain

- Hydra glass landing and car doors, 2 panels centre opening
- Hydraulic unit Wittur HD
Wittur References, Americas

- CF series: car frames including high speed safety gears & roller guides
- CWT series: counterweight frames
- AMD car door operators & landing mechanisms

Hyatt Center, Chicago, USA
- Round glass doors
  3602 Luna
Wittur References, Africa

- Round glass doors for panoramic lift inside an aquarium
- Round glass doors for a special panoramic lift with an elliptical shape

Morocco Mall, Casablanca
Wittur References, Middle East

- Round Glass Doors
Wittur References, Middle East

Tekfen Tower, Istanbul

- 135 m.
- 28 floors
- Gearless machines, 3,5 m/s
Wittur References, Middle East

- 123 m.
- 30 floors
- Gearless machines, 3,5 m/s

Kanyon Tower, Istanbul
Wittur References, Middle East

Selenium Towers, Istanbul

- 165 m
- 34 floors
- Gearless machines, 3,5 m/s
Wittur References, Middle East

Airport of Dubai, U.A.E.

Concourse 2
- 100 panoramic passenger elevators
- 61 stainless steel service elevators
- 8 trolley-lifts
- 94 fire-rated glass-fr. landing doors
- 163 standard glass-fr. landing doors
- 169 stainless steel landing doors
- 172 glass framed car doors
- 87 stainless steel car doors

Concourse 3
- 142 panoramic elevators
- 49 service elevators
- 88 fire-rated glass framed landing doors
- 412 standard glass framed landing doors
- 160 stainless steel landing doors
- 240 glass framed car doors
- 88 stainless steel car doors
Wittur References: Asia

Kazakhstan Concert Hall, Astana

- 34 complete lift packages
- Three round panoramic lifts with hydraulic drives, with a rated speed of 0.63 m/s and a rated load of 630 kg. Osaka round panoramic cars and Luna Plus round glass doors.
- 31 complete Machine roomless lift packages Wittur MRL W line with rated loads from 400 up to 1,600 kg
- All the supplied lift packages run at a rated speed of 1.0 m/s with travels ranging from 10 to 21 metres.
- Wittur S1 or Wittur S2 permanent magnet energy-efficient gearless drives.
Wittur References, Asia

Posteel Tower, Seoul, South Korea

- Synchronous gearless drive units WSG-19
- Duty load: 1600 kg
- Suspension: 2:1
- Speed: 4 m/s
- Travel: 133 m
- Floors: 28
Wittur References, Asia

Oriental Pearl Tower, Shanghai, China

SPECIAL LIFT:
- 80 m rise
- 4.0 m/s speed
- LUNA, round glass framed door

OTHER LIFTS:
- 264 and 320 m rise
- 7.0 m/s Speed
- HYDRA, 2 panels center opening
Wittur References, Asia

China World Trade Center Phase Three, Beijing

- LUNA, round glass framed doors (LH 2400), bottom driven
- Freight elevator
Wittur References, Asia

The National Stadium, Beijing, China

- Augusta Doors
- Safety components
Beijing Capital Airport, Terminal 3, Beijing, China

- 1.6m/s
- 2,000kg
- Glass framed doors
- Safety components:
  - OL35
  - SGB02
Wittur References, South Pacific

Q1 Tower, Gold Coast City, Australia

- CF series: car frames including high speed safety gears & roller guides
- CWT series: counterweight frames
- AMD car door operators & landing mechanisms
Thank you for your time and attention!