

Technology, knowledge and customer service, a formula for increased productivity and higher equipment lifetime

LIEBHERR



LIEBHERR Group & Port Equipment

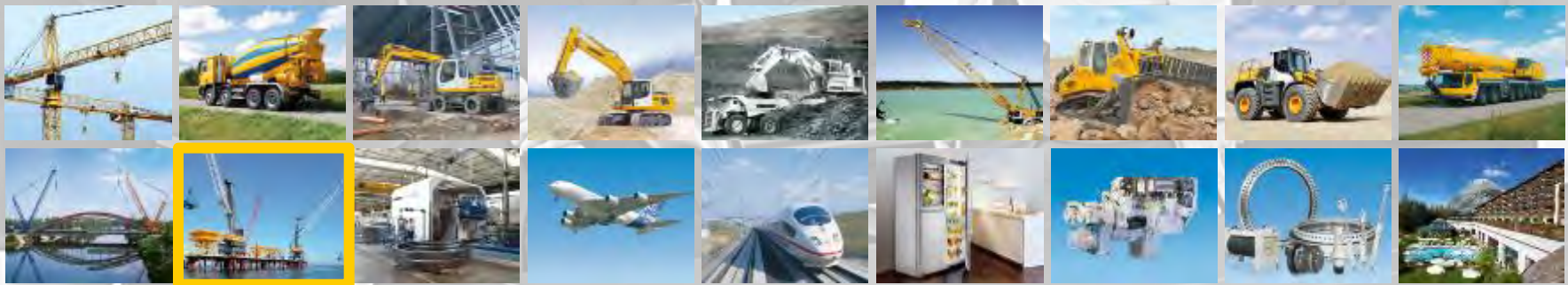


LIEBHERR – a family business



Company founded in 1949 by Dr.-
Ink. E.h. Hans Liebherr

€8.9 billion turnover (2014), 41,000 employees
130 companies worldwide.





LIEBHERR – Port Equipment



LIEBHERR – Port Equipment





LIEBHERR – Port Equipment



LIEBHERR Werk Nenzing – AUSTRIA



Founded 1976
>1650 employes

EXPANSION 2014/2015



New office building
nearly complete



LIEBHERR Rostock – GERMANY



EXPANSION 2014

New production plant

Founded 2005
>1500 employes



LIEBHERR Killarney – IRLAND



Founded 1958
>630 employes





Competence Centres

with Maritime Hubs



LIEBHERR South Africa



THE AFRICAN MARITIME HUB
We have moved to: 2 Kubu Avenue
Riverhorse Valley, Durban



LIEBHERR

Founded 1958
>420 employees



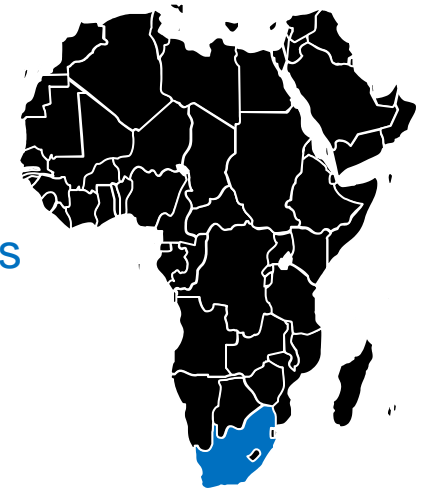


LIEBHERR

Maritime Cranes

Technology, knowledge and customer service, a formula for increased productivity and higher equipment lifetime

- Boost speed with **Pactronic®**
- Discover potential with **Lidat®**
- Knowledge transfer with **LiSIM® Training Solutions**





Boost speed with Pactronic®



BOOST SPEED – with Pactronic®



Practical result – on a LHM 550



“... we are reaching frequently a peak turnover of 1.800 t/hour... ”

Bulk Cereals

45 m³ Grab

Slewing angle 120°





Discover Potential and start Forecasting with Lidat[®]



Discover potential – with Lidat®



LIDAT® – What is it? How it works?



LIDAT®
GPRS Modem



Data transferred to the
LIEBHERR server



@



LIDAT Machine details: LHM 550

WebFacts mode: View

Status	Communication: <input checked="" type="checkbox"/> OK
	GNSS: <input checked="" type="checkbox"/> OK
	SAT/Status: <input checked="" type="checkbox"/> OK
	Electricity: <input checked="" type="checkbox"/> OK

Key data

Last transfer	17/03/2011 09:08
Time since last transfer	0 Days, 1 Hour, 12 M
Service hours	1188 hours
Fuel level	52 %

Maintenance details

Next service (transfer)

Name:	Service 500 h
Remaining:	100.00 hours

Next service (date)

Name:	Service 500 h
Due on:	02-12-2011

Machine position

Last position update: 17/03/2011 09:09:57

Basic data

Owner/tyre	Client
Owner:	LHM
Manufacturer:	Liebherr
Year of construction:	2011

[Start](#)[Machines](#)[Notifications](#)[Restrictions](#)[Maintenance](#)[Reports](#)[Settings](#)

Machine details: 140868


WebParts mode: [All machines](#)[Deployments](#)[Machine management](#)[Find machines](#)[Map overview](#)[Sell machines](#)[Transfer machines](#)[Register Liebherr machine](#)[Register non-Liebherr machine](#)[Machine groups](#)[Machine types](#)[Machine pool](#)[Fleet](#)[Modem management](#)[Software update](#)

Machine position



Last update: 09/09/2012 18:00:10

Master data

Ownership type		Owner
Owner		LWN
Manufacturer		Liebherr

maintenance details

Next due maintenance

Name	machine maintenance 500 operating hour
Date	06/08/2012

Version: 4.5.0

[Release Notes](#)

LIDAT® - Real Time Service



Port Director/manager

Technical & Maintenance Staff

LIDAT® Benefits - Directors/Managers



Get online/real time operation reports to optimize operation

Program alerts, ex. Wind speed.

Get detailed reports easy

LIDAT® Benefits – Technical & maintenance staff



Get **full info** about the crane status and historic



Maintenance scheduling, thought notifications and alerts messages



Get a full **TELESERVICE assistance** by LIEBHERR service engineer who can log directly on the crane, diagnostic, and carry out online troubleshooting

LIDAT® - Teleservice by a Liebherr Engineer

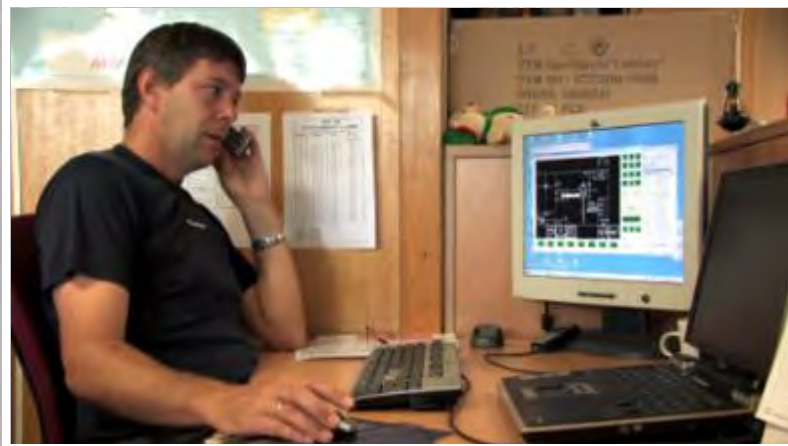


Connection

Diagnostic

Carry out online trouble shooting

Give a full technical support





Restart work as soon as possible

- à Shorter stand still times
- à Faster support
- à High availability ratio





Knowledge transfer with LiSIM[®] Training Solutions



Advanced training – with Liebherr Simulator®



Advanced training – with Liebherr Simulator®



LAF training Equipment - Operator



1 x STS & RTG LiSIM simulator with motion feedback.



LAF training Equipment - Operator



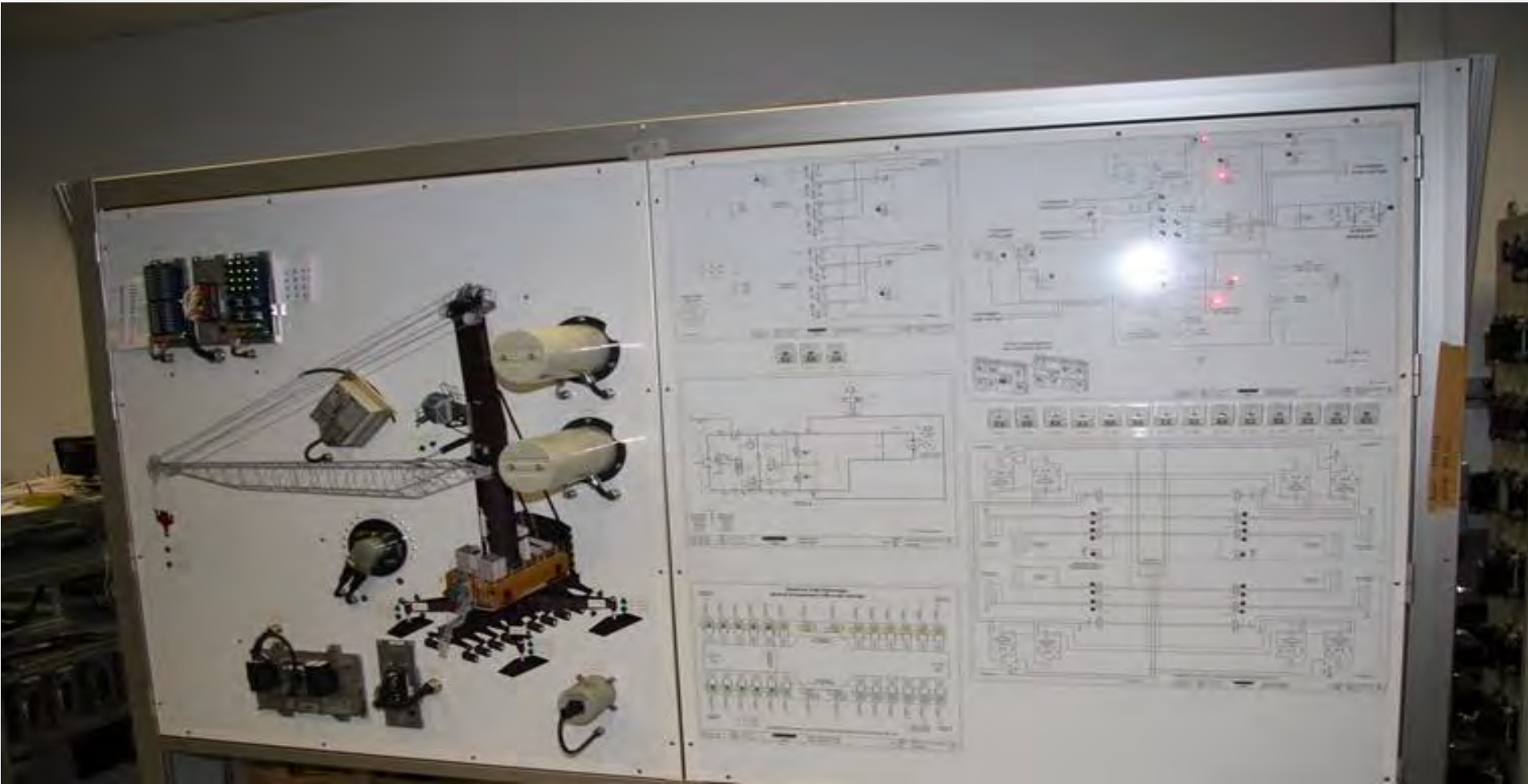
2 x LHM LiSIM simulators



LAF training Equipment - Technical



1 x LHM Technical simulator wall



LIEBHERR Africa – Training Portfolio



LiSIM®



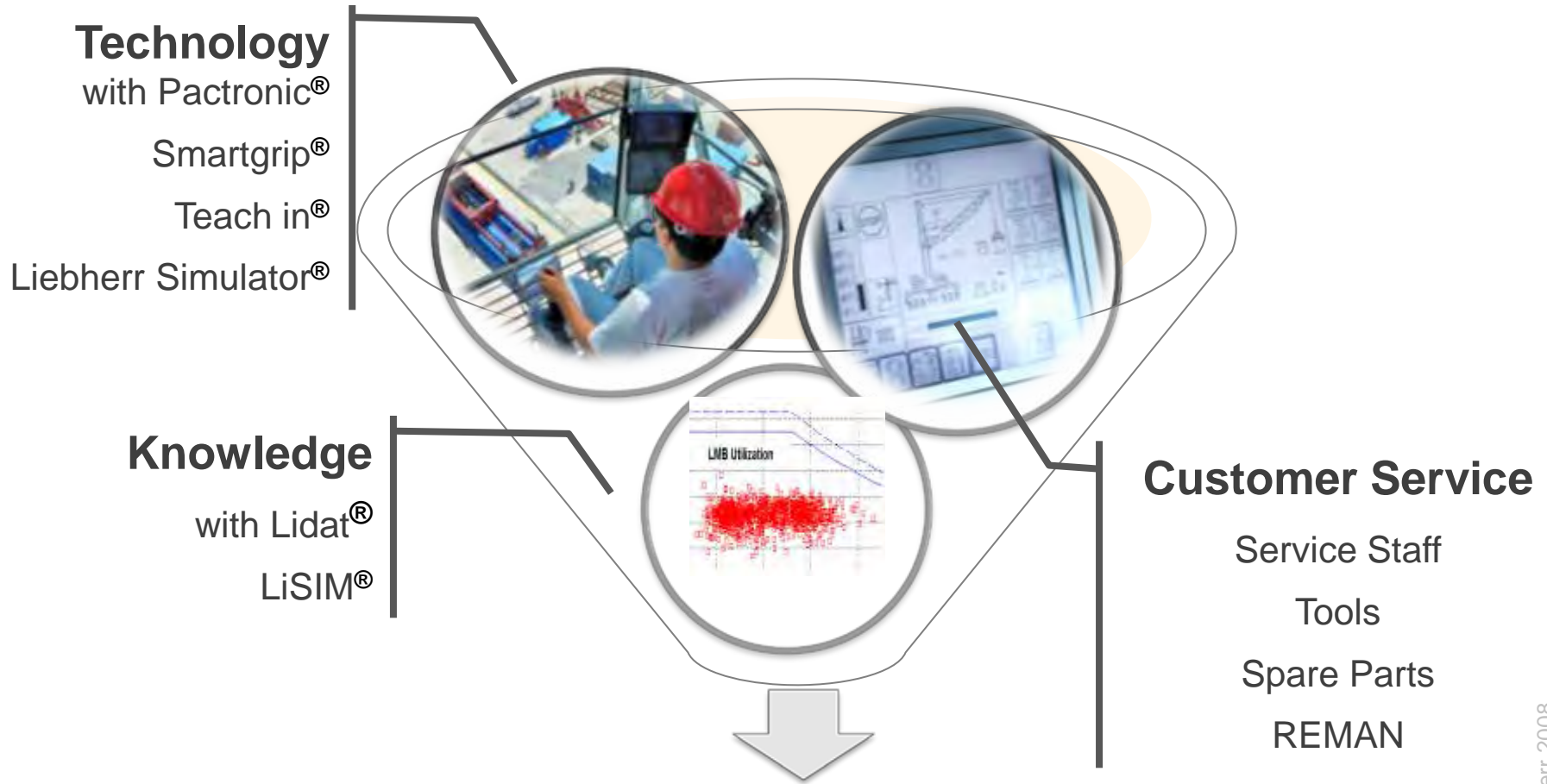
**MARITIME CRANES
TRAINING SOLUTION**



CONCLUSION



Conclusion



MORE turnover / LESS downtime
LONGER lifetime



Thank You



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