



engineered[®]
services



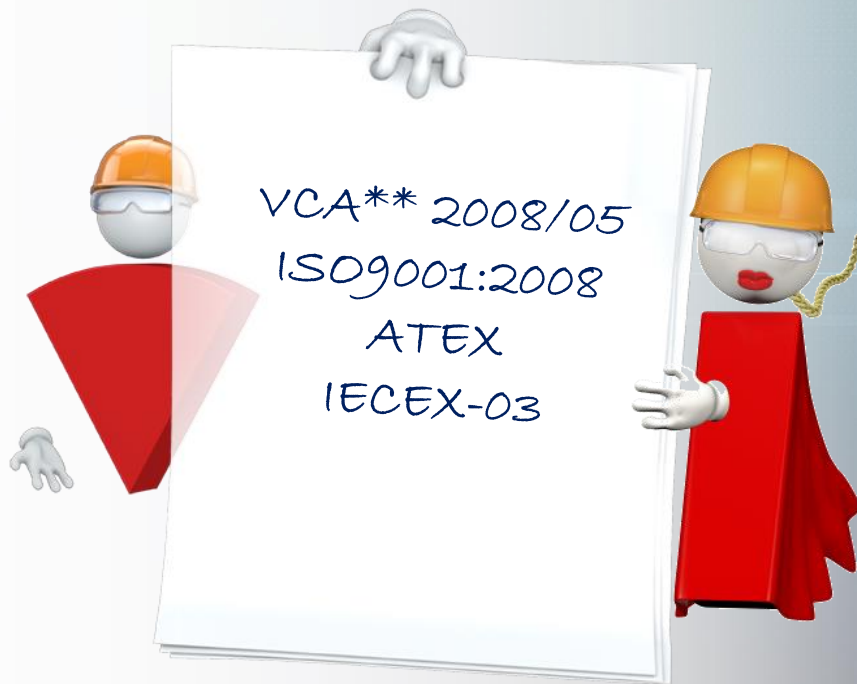
KIC LAS EVENT
14/09/2017

HOOYBERGHS
HANS

SALES
MANAGER



STAF & Quanda



Safety
Targets
Always
First

Quality
Needs
Daily
Attention



Evolution of MP



2001

Maintenance Partners foundation

2006

Workshop Zwijndrecht

2009

MP joins Mitsubishi Industries Ltd.

2012

Rotorshop

2014

Launch of Engineered Services

2015

Management Buy Out

2016

Establishment of MP France



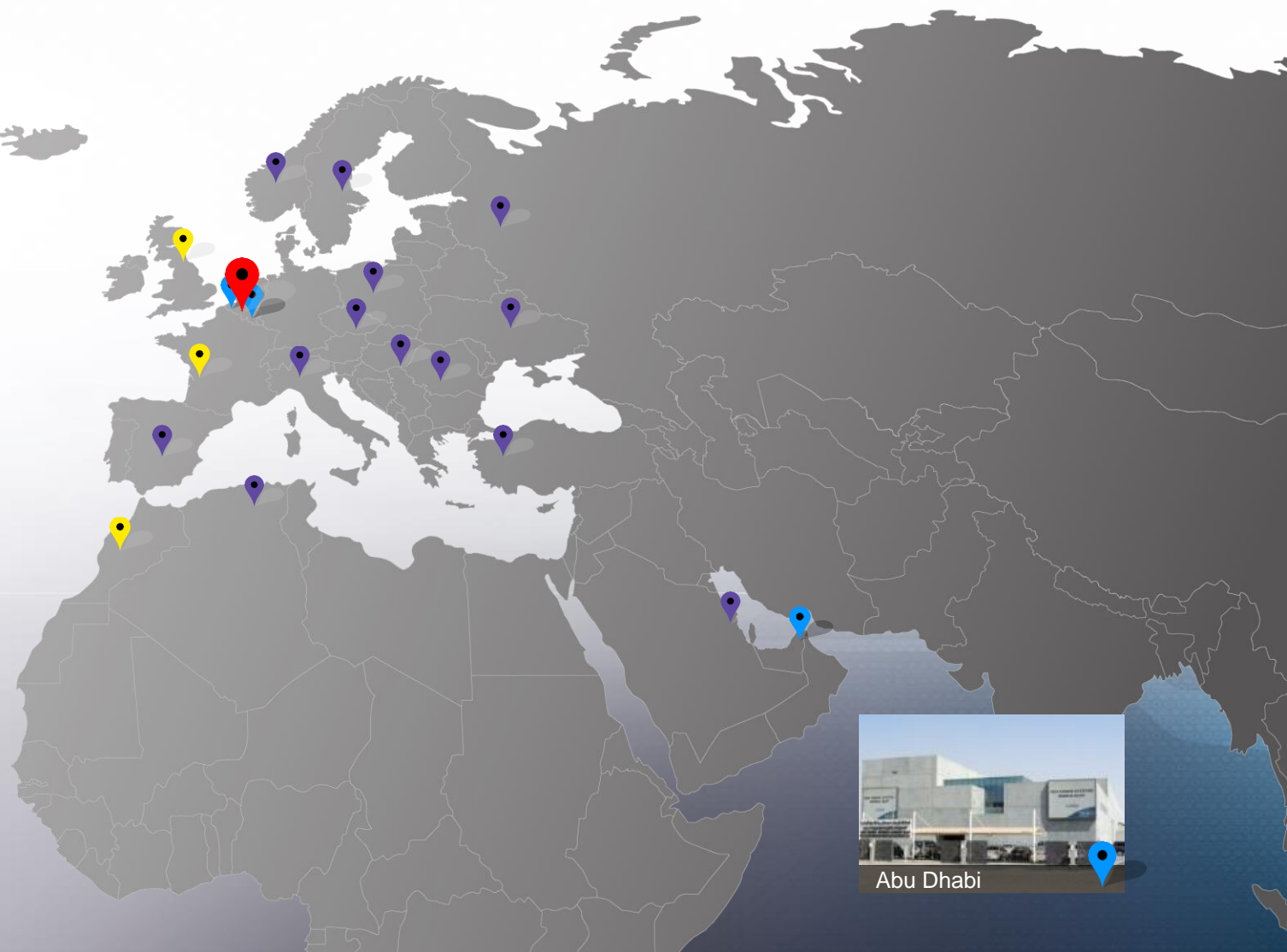
Maintenance Partners DNA



Locations



-  Main Workshop
-  Satellite Workshop
-  MP Office
-  Authorized Agent



Business Units



Turbomachinery

Compressors, Steam Turbines & Generators



Rotating

Day to day maintenance of electrical & mechanical rotating equipment



Wind

Main Components, LTSA, Onsite works & Wintell



Business Development

Transformers, Hydro & Wintell



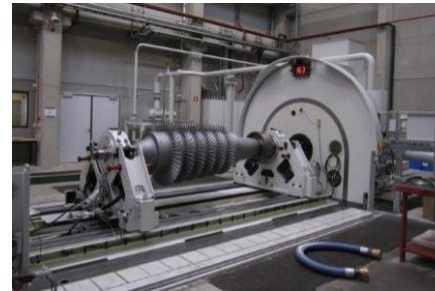
MP Fact sheet

General

Turnover	39 Mil. €	Employees	225		
Shopfloor	20 000m²	Workshops	110	Engineering	24
		Field	52	Other	39

Technical

Lifting capacity	<110T	Electrical Test Facilities	Loaded testing <550KW
	<13,6m under hook	Diagnostics	Partial Discharge
High speed balancing	<12.000 rpm		16-channel
Machining Capacity	<6M length	Re-Engineering	3D Measuring
	<1.1M diameter		Measuring & Control Room
	<10T	Welding robot	
VPI	<2.7M diameter	Field service fleet	Service Vans
	<4M length		Tool Containers



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A leap into THE FUTURE



In the boardroom...

44% of assets in North West Europe will reach end of lifetime within 10 years

Half of my expert-personnel will retire in the near future

Should we invest in new installations or extend the lifetime of existing ones?

How do I ensure safe and reliable operation of aging equipment?

Onsite...

How can maintenance & repair improve uptime?

Is the right machine in the right place?

At what capacity level do machines perform?



At the maintenance department...

How can meantime between failures be extended?

Are the right spare parts available?

Can materials or design be improved?

Engineered Services

One stop shop



Audit
Safety
Efficiency
Re \ Engineering

Bottlenecks

Quality

Action plan

Improvements

Spare Parts

Project management

Field

Report

Training

Follow up

Commissioning

Lessons learned

Advanced Technology



State of the Art Facility



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MAINTENANCE
PARTNERS

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Machine Capabilities

Genetically modified and
synthetic organisms are
being used to create
new products and
services. These organisms
are designed to perform
specific tasks, such as
producing biofuels,
remediating the
environment, and
creating new materials.
The use of synthetic
organisms is a rapidly
growing field, and it is
expected that it will
continue to grow in the
future.

Chemically, DNA consists of
four bases: adenine, thymine,
guanine, and cytosine. These
bases are arranged in a
double helix structure, with
adenine pairing with thymine
and guanine pairing with
cytosine. The sequence of
these bases determines the
genetic code, which is used
to synthesize proteins.

Within cells, DNA is organized
into structures called
chromosomes. These
chromosomes are made of
DNA and proteins. The
DNA is wrapped around
proteins called histones, which
form a nucleosome structure.
The nucleosome is the basic
unit of DNA packaging, and
it is the repeating unit of
chromatin. The chromatin is
further organized into
higher-order structures, such
as the chromosome.

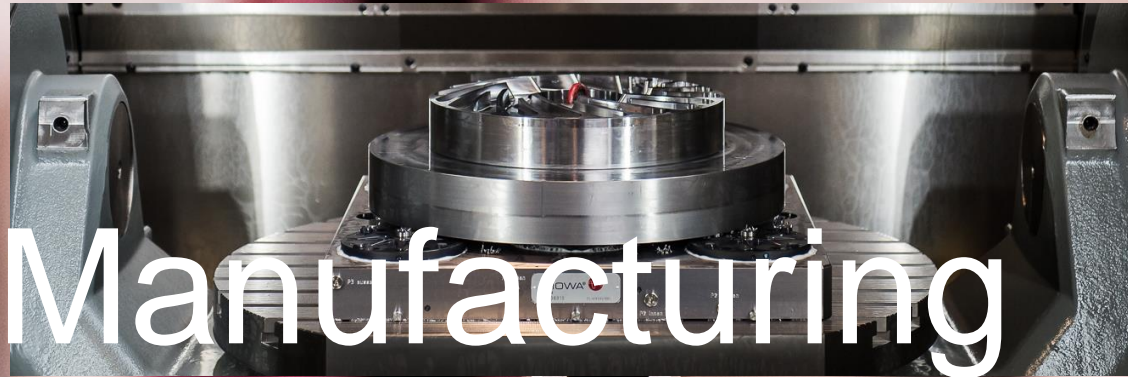
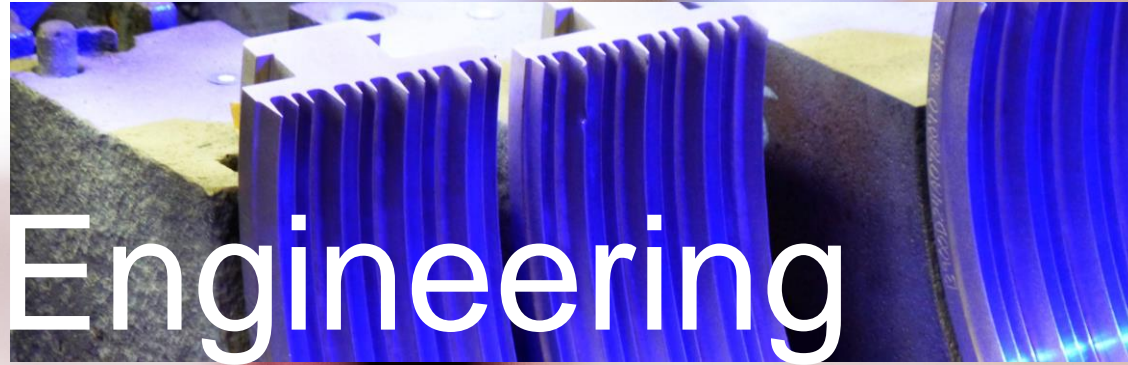


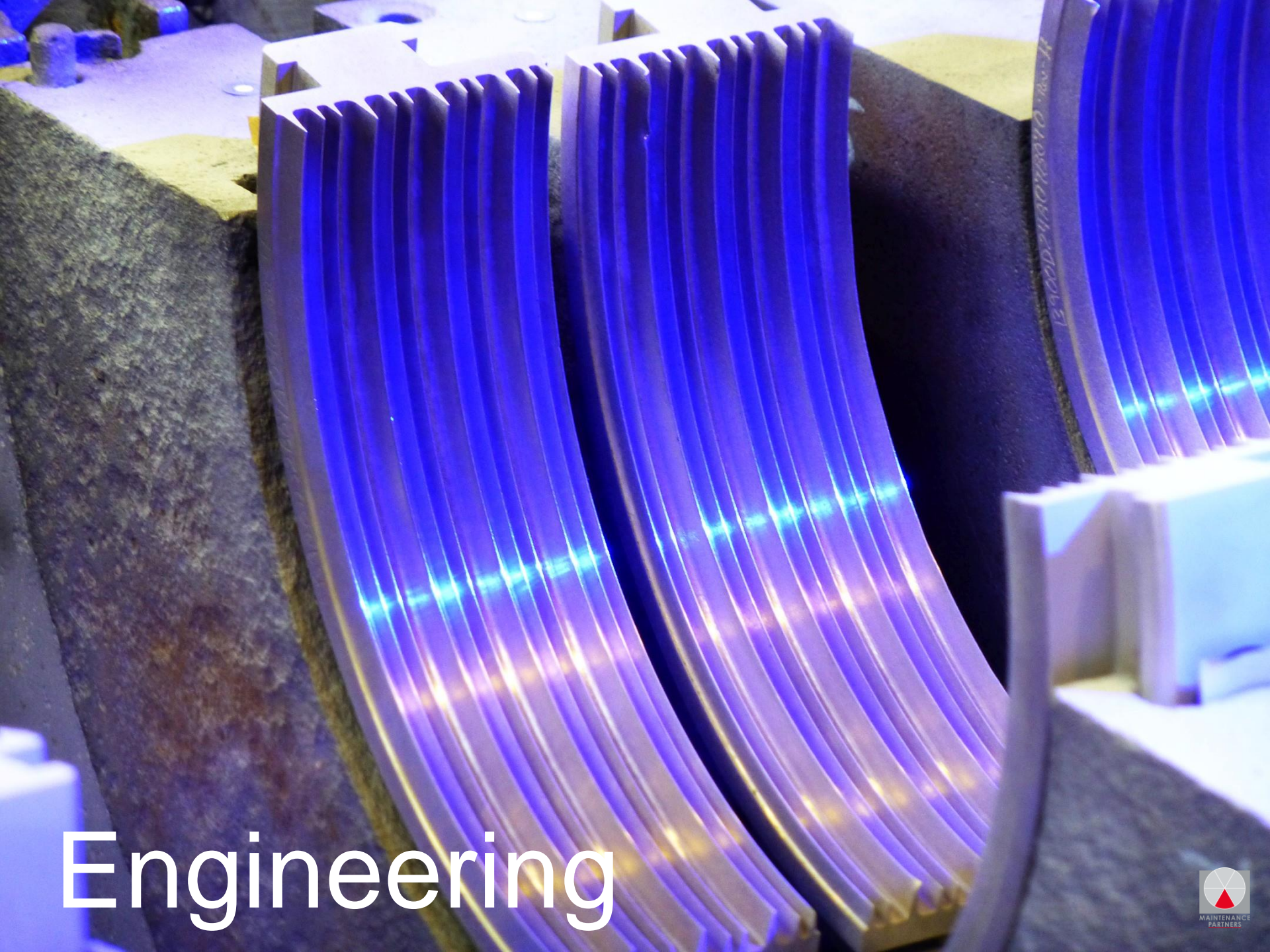
DNA exists in many possible conformations that
include A-DNA, B-DNA, and Z-DNA. A-DNA is a
compact, wide, and shallow structure, while B-DNA
is the standard right-handed helix. Z-DNA is a
narrow, zig-zag structure. The conformation of DNA
is determined by the sequence of its bases, the
chemical environment, and the presence of proteins
that bind to it.

The first published reports of A-DNA X-ray diffraction
patterns were in 1957, and it was shown that A-DNA
was a compact, wide, and shallow structure. This
was in contrast to the standard B-DNA structure.
The A-DNA structure was found to be a compact,
wide, and shallow structure, which is consistent
with the X-ray diffraction data.

Although the A-DNA form is almost common under the
physiological conditions found in cells, it is not a well-defined
structure. It is a flexible structure that can adopt
different conformations. The A-DNA structure is
found in some viruses and in some synthetic
systems.

Compared to B-DNA, the A-DNA form is a wider,
more compact structure. It is a compact, wide,
and shallow structure. The A-DNA structure is
found in some viruses and in some synthetic
systems. The A-DNA structure is a compact,
wide, and shallow structure, which is consistent
with the X-ray diffraction data.





Engineering

Engineering Team

- MP's Engineering team consists of 18 specialists:
 - Material Engineer
 - Design Engineer
 - Process Engineer
 - Technical Specialists (Electrical, Mechanical, Welding & Diagnostics)
 - CAD Drawers
 - Project Managers
- Main Capabilities
 - 3D Scanning of Spare Parts
 - Re-Engineering of spare parts
 - Remodeling damaged spare parts
 - Improving of efficiency (redesign & upgrades)
 - Improving of durability (materials & upgrades)

Engineering - Tools



3 D Scan



ATOS Triple Scan



Material Analyser

Added Value

Our spare parts are manufactured according to the most stringent standards and are 100% compatible. We combine the highest standards with an in-depth understanding of material specifications, manufacturing standards and tolerances:

- Fast delivery
- Inhouse engineering
 - Welding procedures!
 - Material analyzing!
- Inhouse manufacturing
- Onsite installation & commissioning
- Example of a project with our Welding Robot

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A leap into THE FUTURE

Your entire team:



Together with MP, a perfect partnership!