



KAESER blowers in water management

Micaela Novais Henrique Cunha & Manuel Dias

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Agenda

1. Who we are
2. ... some blower basics
 - How we compress air
 - KAESER blower solutions
3. Our engineering, consulting and service
4. Summary



Micaela Novais Henrique Cunha & Manuel D

Who we are



name: Henrique Cunha
position: Sales Manager Blowers and
Mobile Compressors
company: KAESER Portugal

e-mail: henrique.cunha@kaeser.com
phone: +351 (91) 7847932



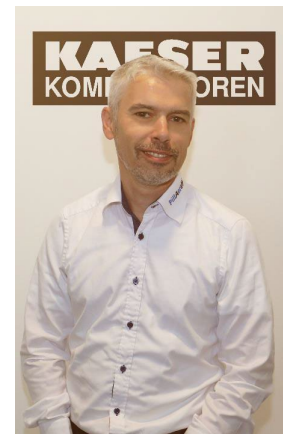
Micaela Novais
Engineering and Consulting
Blowers and Compressors
KAESER Portugal

micaela.novais@kaeser.com
+351 (252) 080441



Manuel Dias
Regional Product
Sales Manager Blowers
KAESER Kompressoren SE

manuel.dias@kaeser.com
+49 (0) 176 1201 1235



The company

... a family company ...



1919

Carl Kaeser Senior

Machine workshops
established in Coburg, Germany



1937

Carl Kaeser Junior

Product lines:

- reciprocating compressors
- oil-lubricated rotary screw compressors



1979

Thomas Kaeser

Product line:

- MOBILAIR
- lobe blowers
- dryers
- Oil-free rotary screw compressors
- SIGMA CONTROL
- ...



Today

Managing Board:

Thomas Kaeser and his wife
Tina-Maria Vlantoussi-Kaeser

KAESER Compressores Portugal

National Network of technical and commercial service



Sede Portugal

**KAESER
COMPRESSORES Lda**
Zona Industrial da Poupá II
Rua C, Lote 5 e 7
4780-321 Santo Tirso
→ [Todas as localizações](#)

Today

35 employees distributed across departments:

- Technical Service
- Commercial department
- After Sales Support
- Projects & Applications
- Logistics
- Administration

1988

Motivar opens in Santo Tirso

2011

KASER takes over Motivar and
estabilshes KAESER Compressores Lda

KAESER is one of the largest suppliers
of compressed air systems, with more
than 8200 employees worldwide

Stock locations



... our compressed air product family

Compressors, mobiles, dryers, blowers and controllers



Piston compressors



Oil free and oil injected rotary screw compressors



SIGMA AIR MANAGER 4.0
compressed air management
system



MOBILAIR
portable compressors

Made in Germany



... for more than 100 years ...

Magnetic bearing
turbo blower



Rotary screw blowers



Rotary lobe blowers



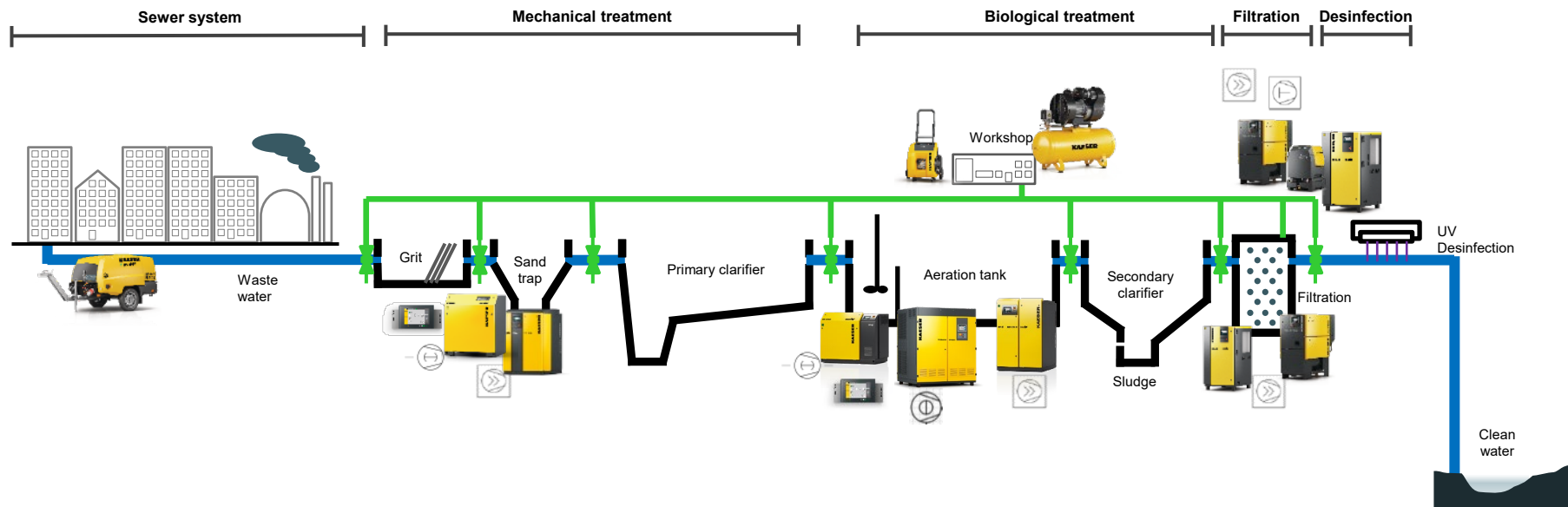
SECOTEC®
refrigeration dryers



Compressed air filters



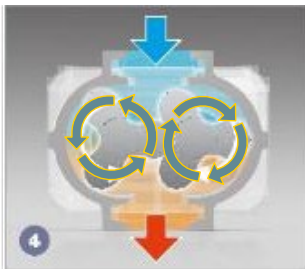
Product examples in a Waste Water Business



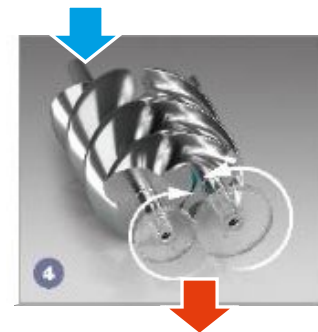
- blue: water
- green: compressed air

How do we compress the medium?

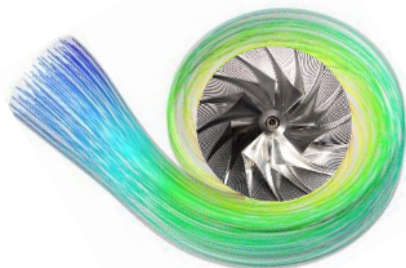
Rotary LOBE rotors with OMEGA profile



Rotary SCREW rotors with SIGMA profile



High speed TURBO impeller



Blowers portfolio



,L' and ,M' lobes

		OMEGA rotary lobe blower
Free air delivery	[m³/min]	1,0 – 160
	[m³/h]	60 – 9.600
	[cfm]	36 – 5.650
Differential pressure	[mbar(g)]	Pressure ≤ 1000 Vacuum ≤ 500
	[psig]	Pressure ≤ 14,5 Vacuum ≤ 7,25
Rated motor power	[kW]	1,5 - 250
	[HP]	2 – 335



,L' and ,M' screws

	SIGMA rotary screw blower
	4,0 – 164
	240 – 9.840
	142 – 5790
	Pressure ≤ 1100 Vacuum ≤ 550
	Pressure ≤ 15,95 Vacuum ≤ 7,98
	7,5 - 250
	10 – 335



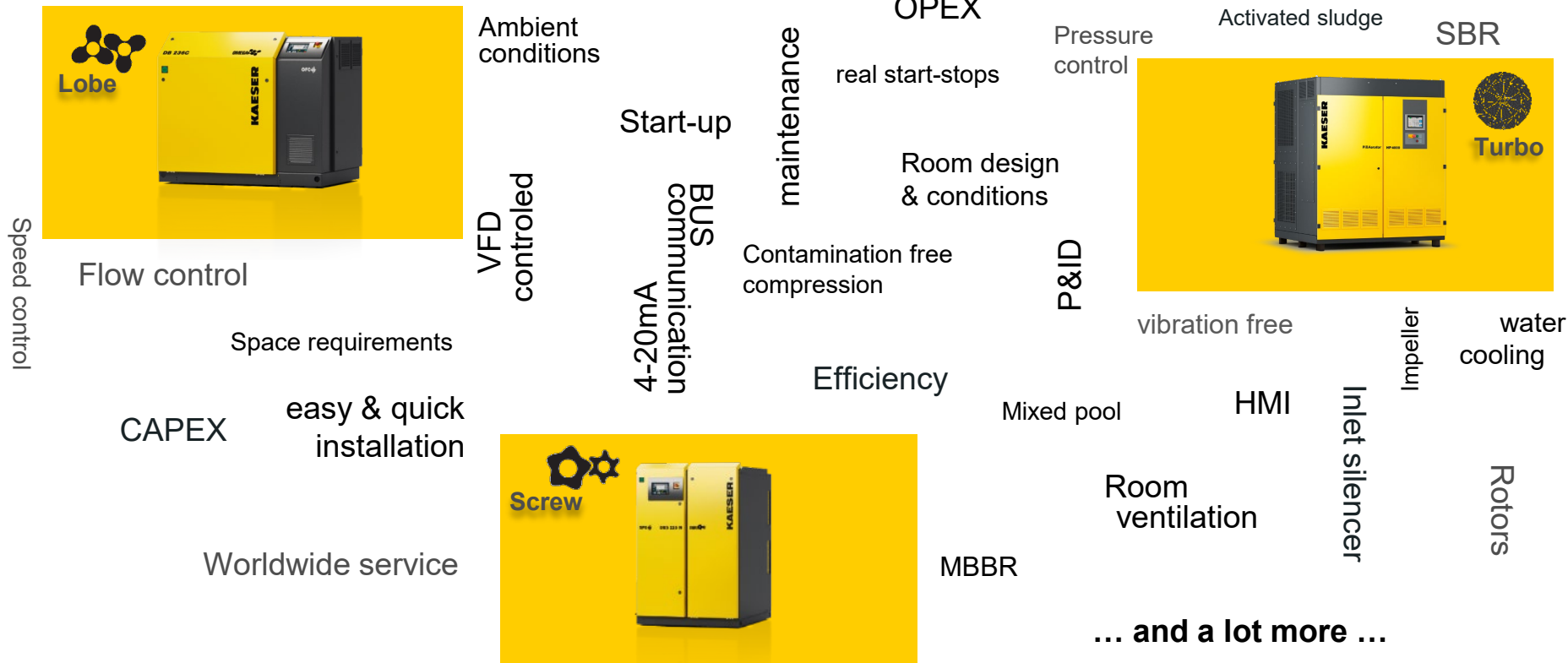
,L', ,M' and ,H' impellers

	High speed turbo blower
	18,4 - 255
	1.100 – 15.300
	590 – 9000
	Pressure ≤ 1400
	Pressure ≤ 20,3
	150 & 300
	200 & 400



Key question: Which technology is the best?

From CAPEX to OPEX



Project milestones



Equipment supplier

- Flow measurement
- Data analysis

- re-sizing plant
- adapting flow demands
- switching technology

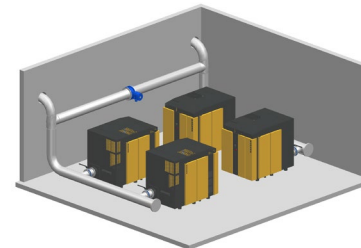
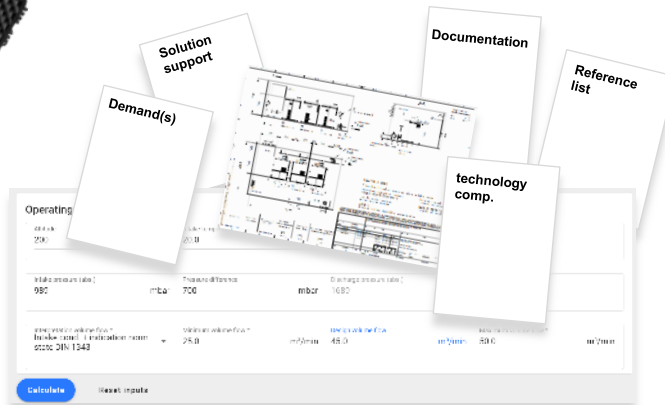
- Fine-design
- 2D / 3D
- Room ventilation
- Documentation

- bidding
- final negotiation

- civil works like
- pipe work
 - blowers
 - valves
 - sensors
 - etc.

- controls of
- blowers
 - valves
 - pumps
 - etc.

- BOT
- Transition
- Training
- On-site support



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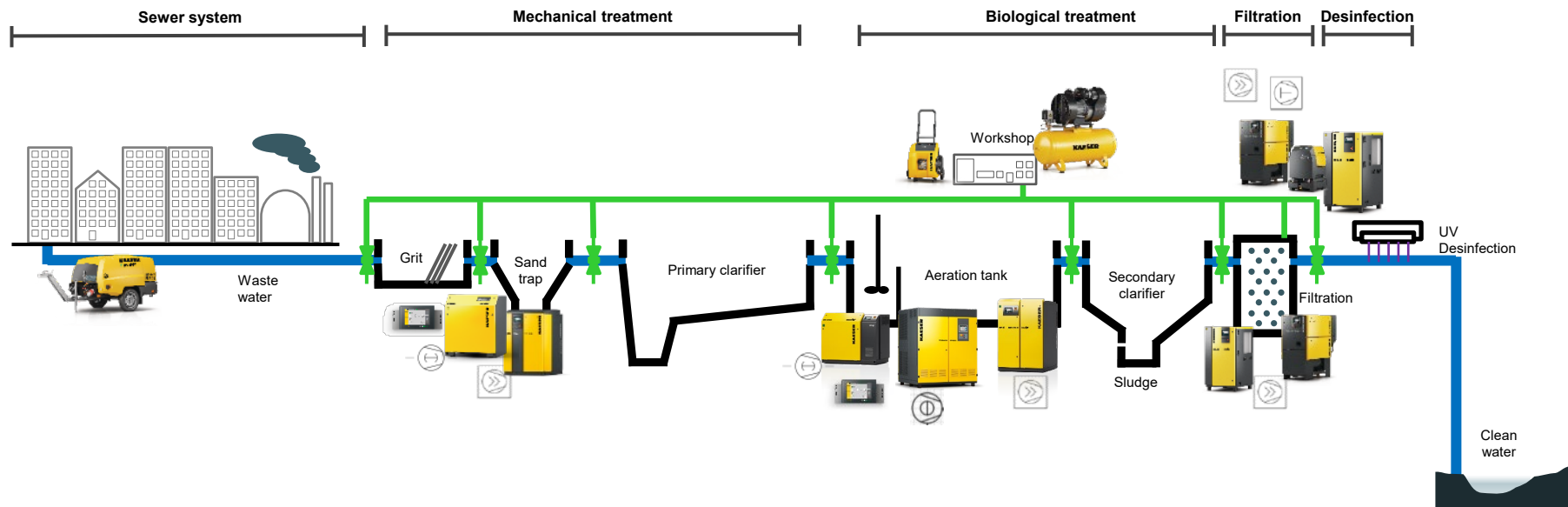
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Compressed air filters



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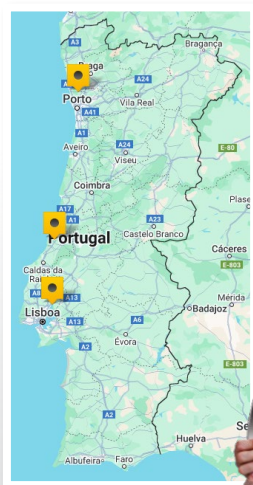
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KAESER Customer Segments



Our technical service

All over the country



Local stock

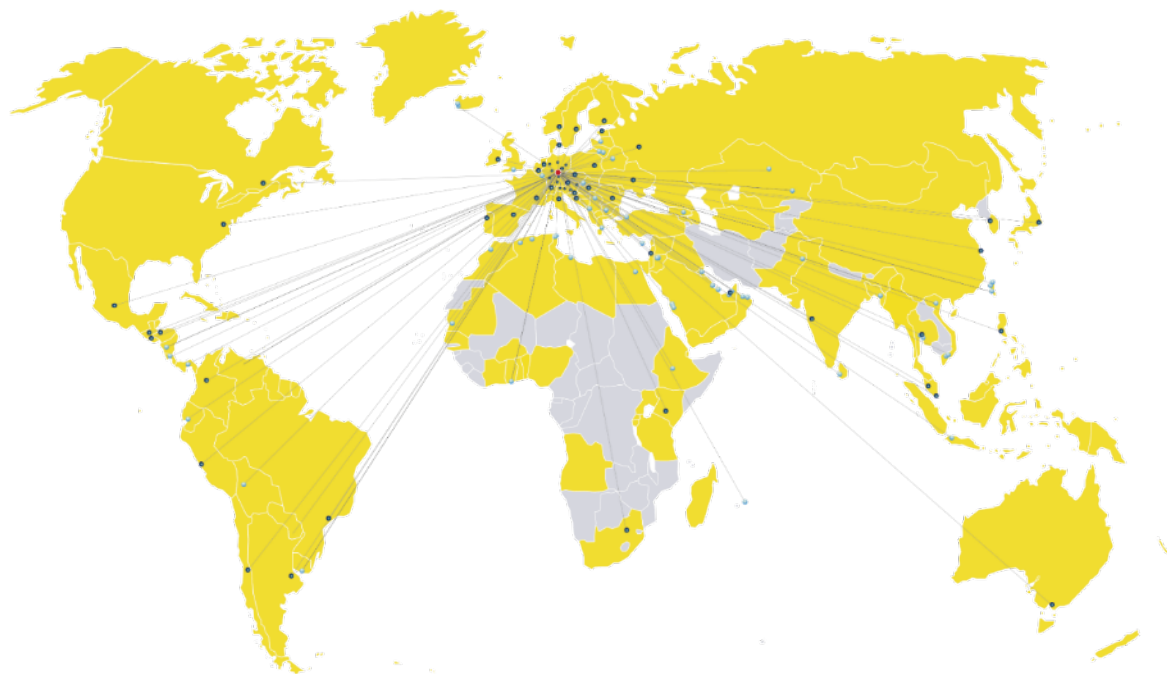


A wide network

24h / 7 days per week

Our company network

Directly present in more than 100 countries



- subsidiaries
- local partners



...any questions?



Thanks for your attention

Micaela Novais, Henrique Cunha & Manuel Dias