

QUICK COUPLINGS

WATER/ HYDRAULIC/ PNEUMATIC



tst[®]
QUICK COUPLINGS

- Contents
 - Saving potential in Europe
 - Facts and reasons
 - The optimization moduels
 - Your benefits
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**Savings of
the compressed air production in the EU
3.8 Mrd. CHF per year**



■ Facts

- ✓ The production of compressed air consumes are approx. 10% of the electricity demand in European factories.
- ✓ According to the study "Efficiency of compressed air" has an average engineering company, with annual sales of **CHF 25 million**, potential savings in the production of compressed air annually **CHF 10,000.-**.
- ✓ According to the study "Efficiency of compressed air" has an average chemical company, with annual sales of **CHF 100 million**, potential savings in the production of compressed air annually **CHF 19,000.-**.
- ✓ Compressed air systems blow away **CHF 30 million** each year in Switzerland.

- The issue in dealing with compressed air

Why energy savings of approx. 30% are possible for average European compressed air systems.

- Reason 1

Lack of cost awareness in dealing with compressed air.



■ Reason 2

Too high working pressure because of:

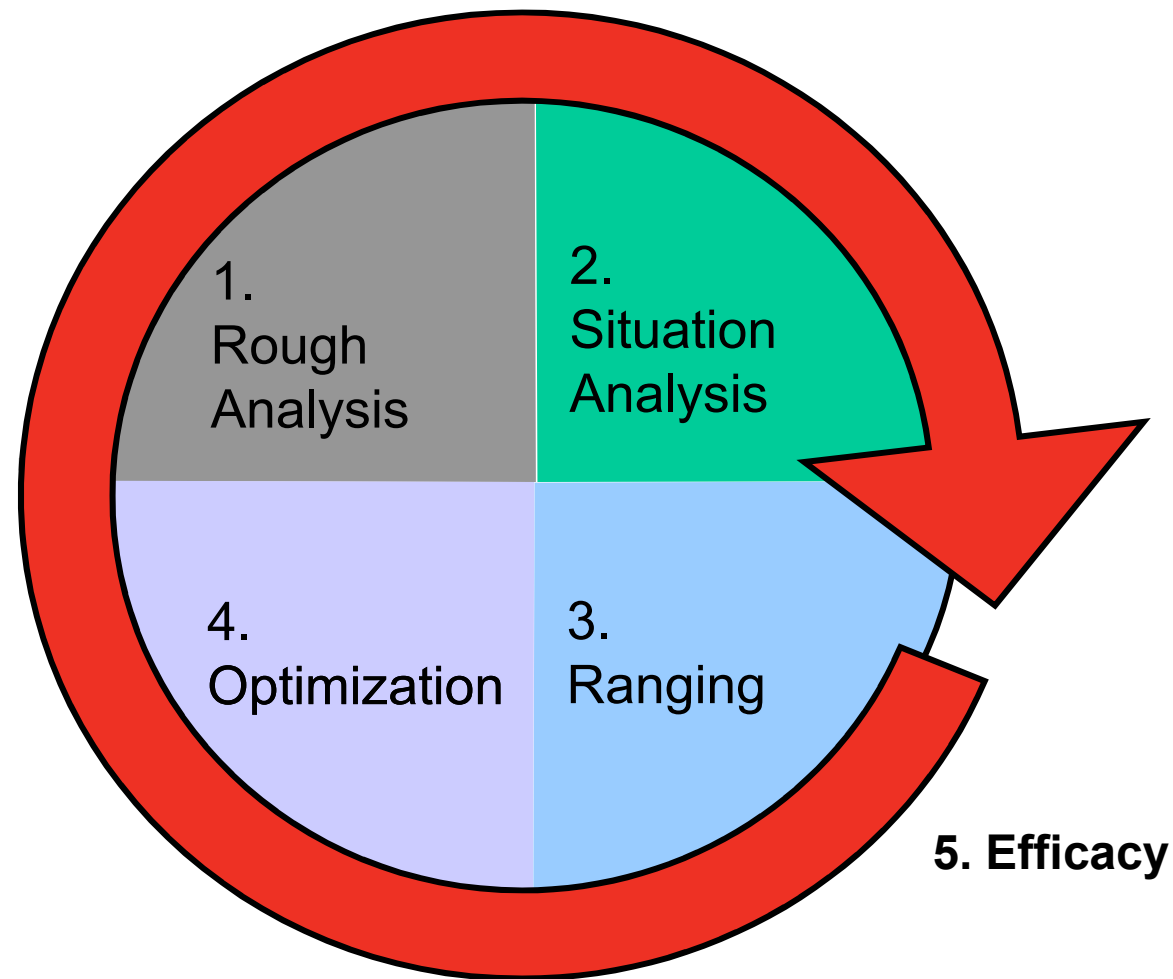
- ✓ Never dealt with optimization.
- ✓ Line systems were misinterpreted or never adjusted.
- ✓ Air fittings are misinterpreted.
- ✓ Machines which require more pressure, not be supplied separately.
- ✓ Too many "pressure-eater" are installed (spiral hoses, pipe transitions, tapers, couplings etc.).

■ Reason 3

Leakage:

- ✓ Leakage at the accumulator
- ✓ Leaks in pipes
- ✓ Leaks in Compressed air service units, couplings and fasteners
- ✓ Leaks from hoses
- ✓ Leaks from branches and pipe connections
- ✓ Leaks in machines and tools

- The optimization modules



Compressed air system - optimization



1. Rough
Analysis

consisting of:

- ✓ Inspection of the plant
- ✓ Receiving the relevant data compressor
- ✓ Consultation



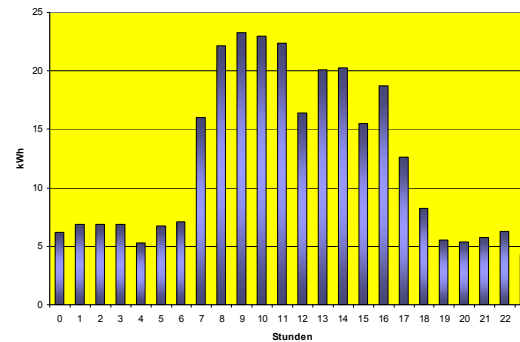
Compressed air system - optimization



2. Situation Analysis

consisting of:

- ✓ Gathering of the compressor performance- curve
- ✓ Analysis of the curve
- ✓ Costing of the leakage losses



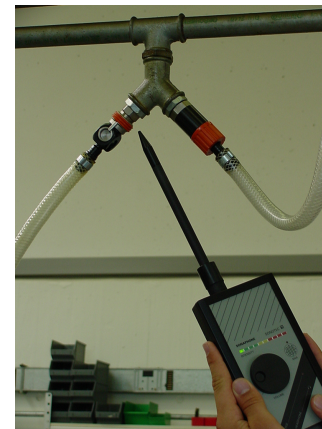
Compressed air system - optimization



3. Ranging

consisting of:

- ✓ Leak ranging, marking the leaks
- ✓ Immediate repair of minor damage by the person who is provided by the customer
- ✓ Ranging protocol
- ✓ Final discussion



Compressed air system - optimization



4. Optimization

Under circumstances it might be commissioned other specialists for the optimization.

We are happy to be available with our Know How and our corresponding contacts at any time.

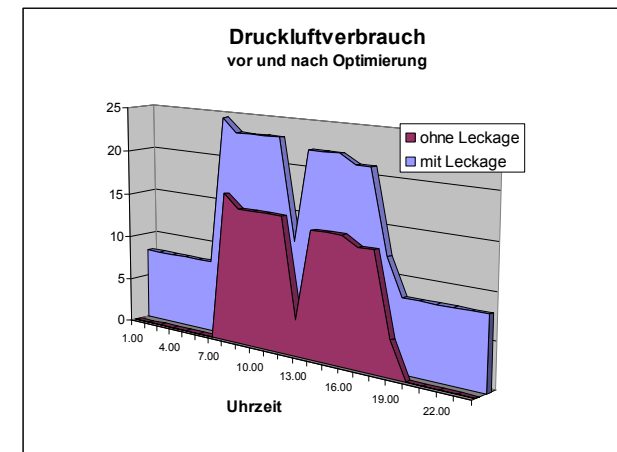


Compressed air system - optimization



consisting of:

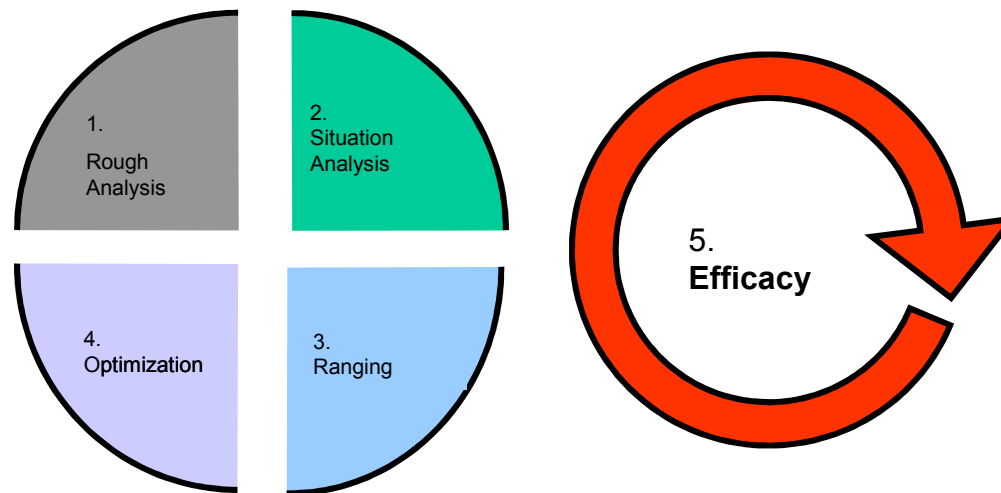
- ✓ Gathering of the compressor performance- curve
- ✓ Analysis of the curve



Compressed air system - optimization



The different modules can be carried out independent of each other.



Compressed air system - optimization



■ Your benefits

- ✓ Saving the power consumption
- ✓ Reduction of maintenance and maintenance costs
- ✓ Increase in performance on machines and tools
- ✓ Long life compressor



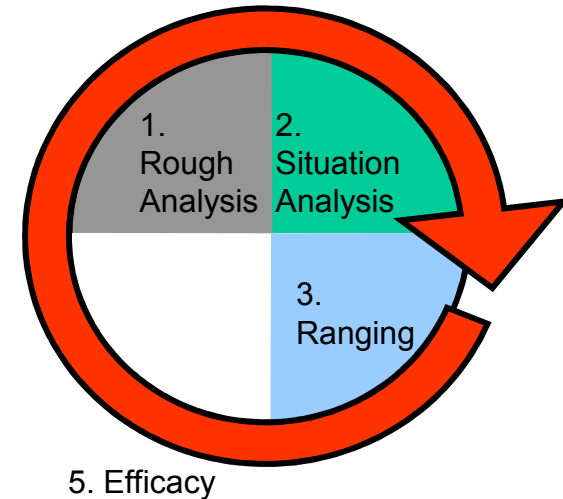
The ecological aspect!

**In addition to the
financial savings and
increased efficiency:**

■ Service package 1

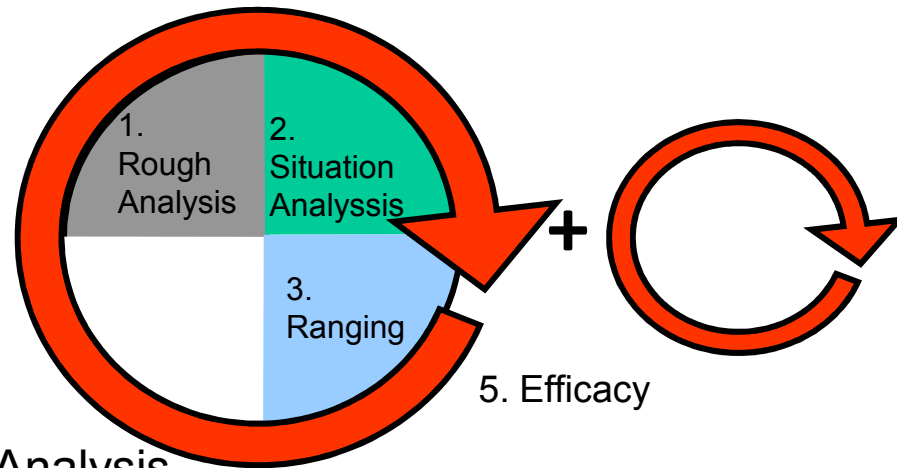
consisting of:

- Modul 1 - Rough Analysis
- Modul 2 - Situation Analysis
- Modul 3 - Ranging
- Modul 5 - Efficacy



You save CHF 225.-

■ Service package 2



consisting of:

- ✓ Modul 1 – Rough Analysis
- ✓ Modul 2 – Situation Analysis
- ✓ Modul 3 – Ranging
- ✓ Modul 5 – Efficacy
- ✓ Modul 5 – Efficacy as a continuous process after one year

You save CHF 475.-

- Why the customer are working with us:
 - ✓ High processing safety
 - ✓ Detailed final inspection
 - ✓ High flexibility for customer specific requirements
 - ✓ Competitive market pricing

Compressed air system - optimization



ISO 9001 Certified Quality System

13145



KALİTE YÖNETİM SİSTEMİ BELGESİ
QUALITY MANAGEMENT SYSTEM CERTIFICATE



TÜRK STANDARDLARI ENSTİTÜSÜ
bu belge ile

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President of TSE

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the requirements of the TS EN ISO 9001:2008

Scope of the certificate is given in annex

Belge No /Certificate No KY-3448-04/10-R
Belge Tarihi / Date of Certificate 07.10.2010
Geçerlilik Tarihi / Valid Until 07.10.2013
Revizyon Tarihi / Date of Revision 07.10.2010

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Compressed air system - optimization



Thank you for your attention!
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