



Maßstab für reine Luft

Welcome to Keller Lufttechnik

Conference – „Luftreinhaltung und Lärmschutz“

Krakow - Poland - 25.09.2018 / Referent – Rolf Bernauer



Prozessluft
absaugen



Emissionen
abscheiden



Gereinigte Luft
zurückführen

Tradition and Innovation

- Family business in 4th generation
- > 400 employees | turnover >70 Mio. € (incl. subsidiaries)
- Today global specialist for customized extraction systems
- Total areas Keller's company: 70.000 m²



Keller Lufttechnik Germany: Now



**Capturing & extraction
of process emissions**



**Transportation of
dirty air**



**Filtration
of emissions**



**Fan specifications
for airflow**



**Return of
clean air**



**Additional
customer requirements**

Dust Collection



- Modular design
- KLR-Filter®, or Dry-P cartridge
- Airflow: 500- 16,000+ cfm*



- All-in-one collector for thermal cutting
- Integrated spark arrestor
- Airflow: 600-3,000 cfm*



- Modular bag-house dust collector
- Bag filters in different qualities
- Airflow: 4,000-100,000+ cfm*



- Stand-alone system for MQL
- Approved indoor ex- protection
- Airflow: 500-800 cfm*

Mist Collection



- Individual unit for CNC machines
- Integrated pump & HEPA options
- Airflow: 500-1,500 cfm*



- Two+ machines/centralized systems
- Modular (customized) design
- Airflow: 1,500-12,500 cfm*

Wet Separation



- Dust settles in bucket with slide-gate
- Disposal can occur in operation
- Airflow: 2,200-13,000 cfm*



- Adjustable component placement
- Modular design for large airflow
- Airflow: 8,000-50,000 cfm*

Safety & Energy Efficiency



ProTERM 

- Heat recovery system
- Improves cooling/heating
- Airflow: 8,000-12,500 cfm*



ProFlow

- Airflow monitor
- Horizontal or vertical installation
- Airflow ranges: 400-5,500 cfm*



ProFix 

- Automatic airflow damper
- Internal airflow balancing
- Adjustable extraction efficiency



ProPipe

- Flameless explosion vent
- Approved for indoor use
- For use with metal / organic dust



ProFlap

- Explosion back-pressure flap
- ATEX certified / NFPA69 compliant
- Used for organic and metal dust



ProBox

- Solid state flame barrier
- Pre-separation of coolant / oil
- Airflow: max -2,100 cfm*



ProChip

- Chip separator at machine tools
- Captures mist, not chips
- Volume flow: 800-2,000 cfm

Completing the Keller Solution

Engineering



Controls



Capturing
Elements



Ductwork

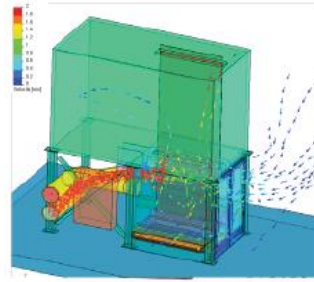
Aftermarket



Service



Spare Parts



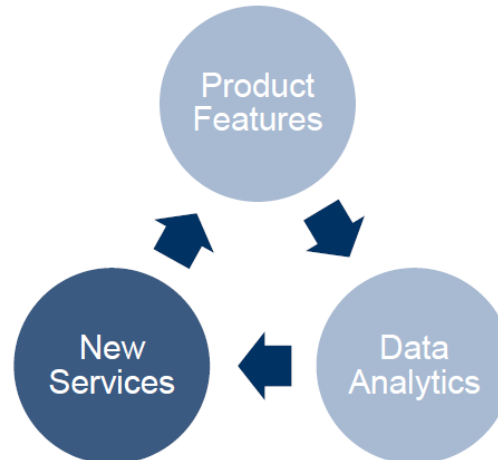
Airflow
Simulation

Implementation step of Industry 4.0

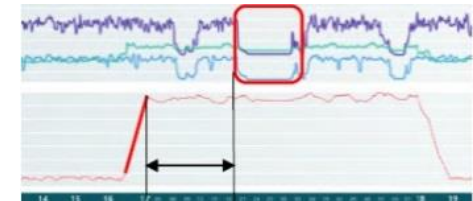
1. step: Internet-ready systems

Aim: Equipping the systems with sensors and information-processing systems

Service-Product „Condition Monitoring“



Source: Bosch Software Innovations GmbH



2. step: Data analysis

Aim: Collection and analysis of field data to get new knowledge for developing new services

3. step: New services

Aim: Implementation of new services based upon the knowledge of previous steps, e.g. Predictive Maintenance

The suitable solution for each process ...

... since our products are represented in each industry

Iron and steel



Chemical, pharmaceutical and food



Plastics and rubber



Building materials, stone



Electrical and electronics



Disposal and recycling of



Represented region-wide ...



... by engineering offices and
service bases!

Operating world-wide ...



... with 3 subsidiaries, licencees
and representative offices



Thank you for the moment !

Keller Lufttechnik GmbH + Co.KG

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