

Welcome at WIMA

Wilsdruffer  
Maschinen- und Anlagenbau GmbH

# introduction WIMA



- managing director: Günter Specht & Jörg Thomas
- employees: 85 +
- trainees / students: 3 +
- foundation: 2007
- experience: over 25 years
- locations: Wilsdruff, near Dresden  
Hattingen, near Essen
- sales manager for sweden: Stephan Rößler

**wima.**  
*The Complete System*





inquiry



analysis



engineering



design



assembly



adjustments on  
changed conditions



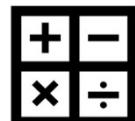
inspection at site



check installation situation



creation offers



machine adjustment



inspection / service / maintenance



extensive spare parts stock



customers requests



order handling



realisation / production



documentation  
of the machine life



satisfied customers

# introduction WIMA

**wima.**  
*The Complete System*



Screening  
machines



Twin shaft log  
washers



Sand traps



Bucket wheels



Heavy media  
separators



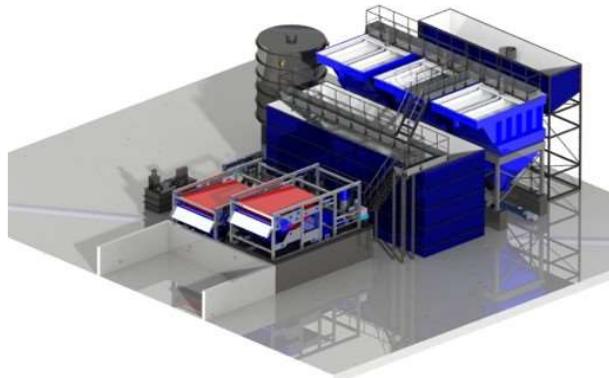
Feeders



Steel and sheet metal constructions

# introduction WIMA

**wima.**  
*The Complete System*



Water treatment  
plants



HDS-Series  
Recycling Industry

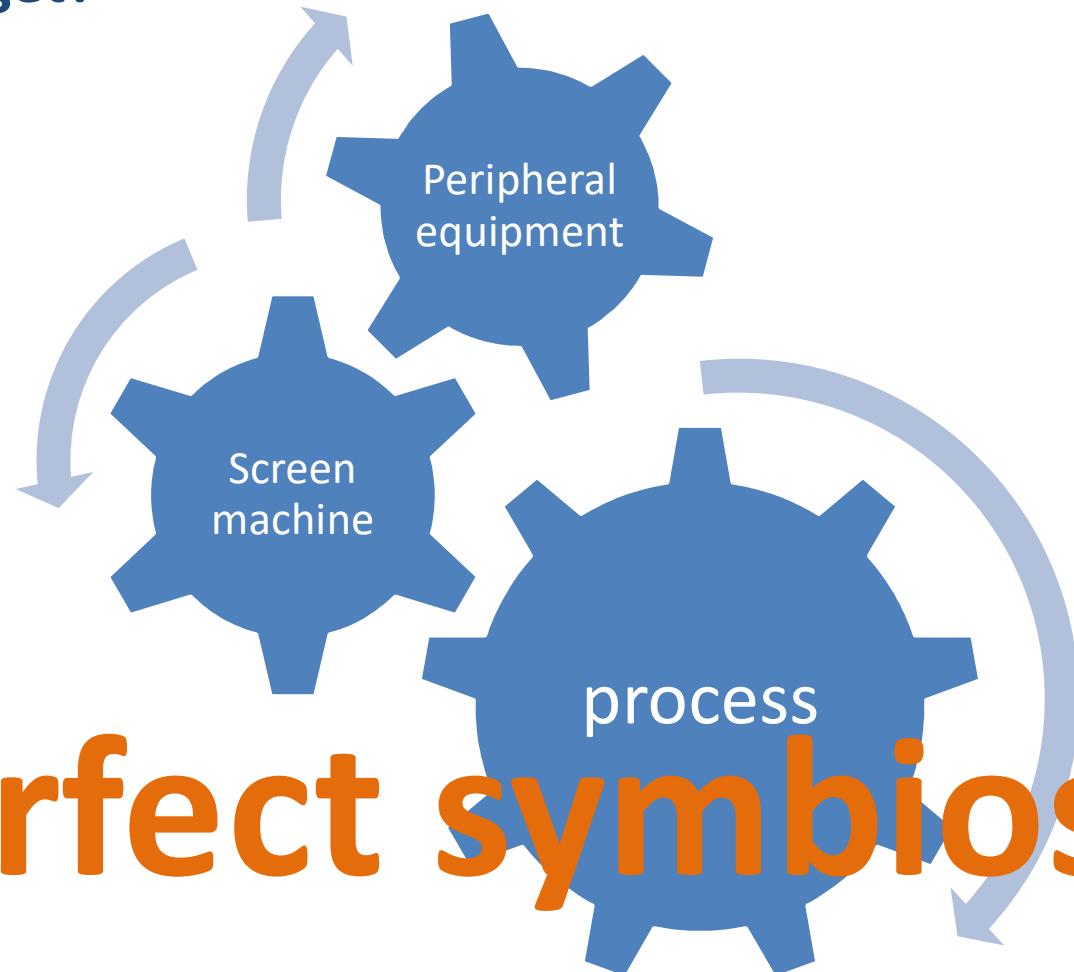


Small Business Projects



What is the target?

**wima.**  
*The Complete System*



... perfect symbiosis...

# What the target?

## process

- Grain distribution/ crusher discharge curves
- Grain shape
- Cutting point
- Feed material
- Material moisture
- Layer heights
- Contamination
  - Organic (loam, clay, wood, coal)
  - Chemical (contaminated soil/earth)
- Current screening limits
  - oversize grain, undersize grain
- applicable standards
  - EN 13043 (asphalt)
  - EN 12620 (cement)
  - EN 13450 (track ballast)

## Screen machine

- machine
  - manufacturer
  - type, size, inclination
  - number of decks
  - distance of decks
- Machine parameter
  - Stroke, RPM
- Water volume m<sup>3</sup>/h
- Water pressure
- Nozzle size and number
- Nozzle distance to the screen surface

## Peripheral equipment

- feed situation (feeding chute)
- discharge situation
- Continuous wide-area feed
- Type of screening surface currently used
  - Wire, PU
  - supplier
- Mesh size of the screening surface currently in use
- Are there any current problems?
  - Plugging, caking on the screen surface

# What the target?

## process

- Grain distribution/ crusher discharge curves
- Grain shape
- Cutting point
- Feed material
- Material moisture
- Layer heights
- Contamination
  - Organic (loam, clay, wood, coal)
  - Chemical (contaminated soil/earth)
- Current screening limits
  - oversize grain, undersize grain
- applicable standards
  - EN 13043 (asphalt)
  - EN 12620 (cement)
  - EN 13450 (track ballast)

## Screen machine

- machine
  - manufacturer
  - type, size, inclination
  - number of decks
  - distance of decks
- Machine parameter
  - Stroke, RPM
- Water volume m<sup>3</sup>/h
- Water pressure
- Nozzle size and number
- Nozzle distance to the screen surface

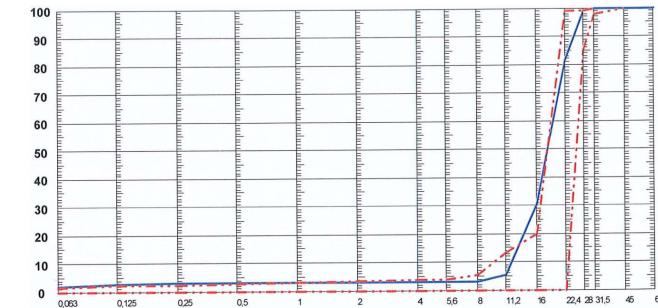
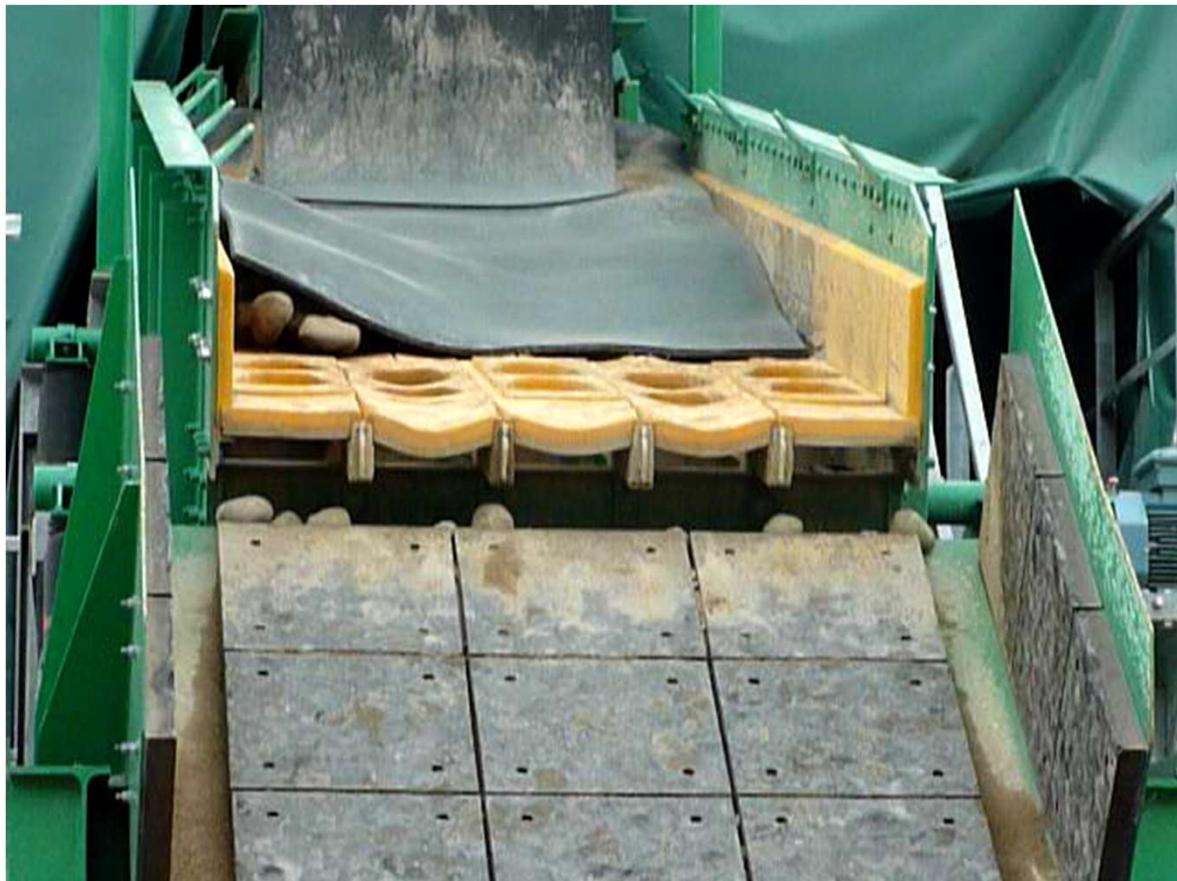
## Peripheral equipment

- feed situation (feeding chute)
- discharge situation
- Continuous wide-area feed
- Type of screening surface currently used
  - Wire, PU
  - supplier
- Mesh size of the screening surface currently in use
- Are there any current problems?
  - Plugging, caking on the screen surface



## What is the target?

**wima.**  
The Complete System



400 t/h  
0 - 150 mm  
Naturmaterial

4. Meter Trennung bei 200 mm // 1.-3. Meter Trennung bei 80 mm  
Deck 1

15°

# What the target?

## process

- Grain distribution/ crusher discharge curves
- Grain shape
- Cutting point
- Feed material
- Material moisture
- Layer heights
- Contamination
  - Organic (loam, clay, wood, coal)
  - Chemical (contaminated soil/earth)
- Current screening limits
  - oversize grain, undersize grain
- applicable standards
  - EN 13043 (asphalt)
  - EN 12620 (cement)
  - EN 13450 (track ballast)

## Screen machine

- machine
  - manufacturer
  - type, size, inclination
  - number of decks
  - distance of decks
- Machine parameter
  - Stroke, RPM
- Water volume m<sup>3</sup>/h
- Water pressure
- Nozzle size and number
- Nozzle distance to the screen surface

## Peripheral equipment

- feed situation (feeding chute)
- discharge situation
- Continuous wide-area feed
- Type of screening surface currently used
  - Wire, PU
  - supplier
- Mesh size of the screening surface currently in use
- Are there any current problems?
  - Plugging, caking on the screen surface



# Was ist das Ziel?

**wima.**  
The Complete System



4L	4R	5L	5R	6L	6R	7L	7R	8L	8R		
										ohne Material	
										mit Material	



# What the target?

## process

- Grain distribution/ crusher discharge curves
- Grain shape
- Cutting point
- Feed material
- Material moisture
- Layer heights
- Contamination
  - Organic (loam, clay, wood, coal)
  - Chemical (contaminated soil/earth)
- Current screening limits
  - oversize grain, undersize grain
- applicable standards
  - EN 13043 (asphalt)
  - EN 12620 (cement)
  - EN 13450 (track ballast)

## Screen machine

- machine
  - manufacturer
  - type, size, inclination
  - number of decks
  - distance of decks
- Machine parameter
  - Stroke, RPM
- Water volume m<sup>3</sup>/h
- Water pressure
- Nozzle size and number
- Nozzle distance to the screen surface

## Peripheral equipment

- feed situation (feeding chute)
- discharge situation
- Continuous wide-area feed
- Type of screening surface currently used
  - Wire, PU
  - supplier
- Mesh size of the screening surface currently in use
- Are there any current problems?
  - Plugging, caking on the screen surface

## What is the target?



**wima.**  
*The Complete System*

## *Small Business Projects (screen stations)*

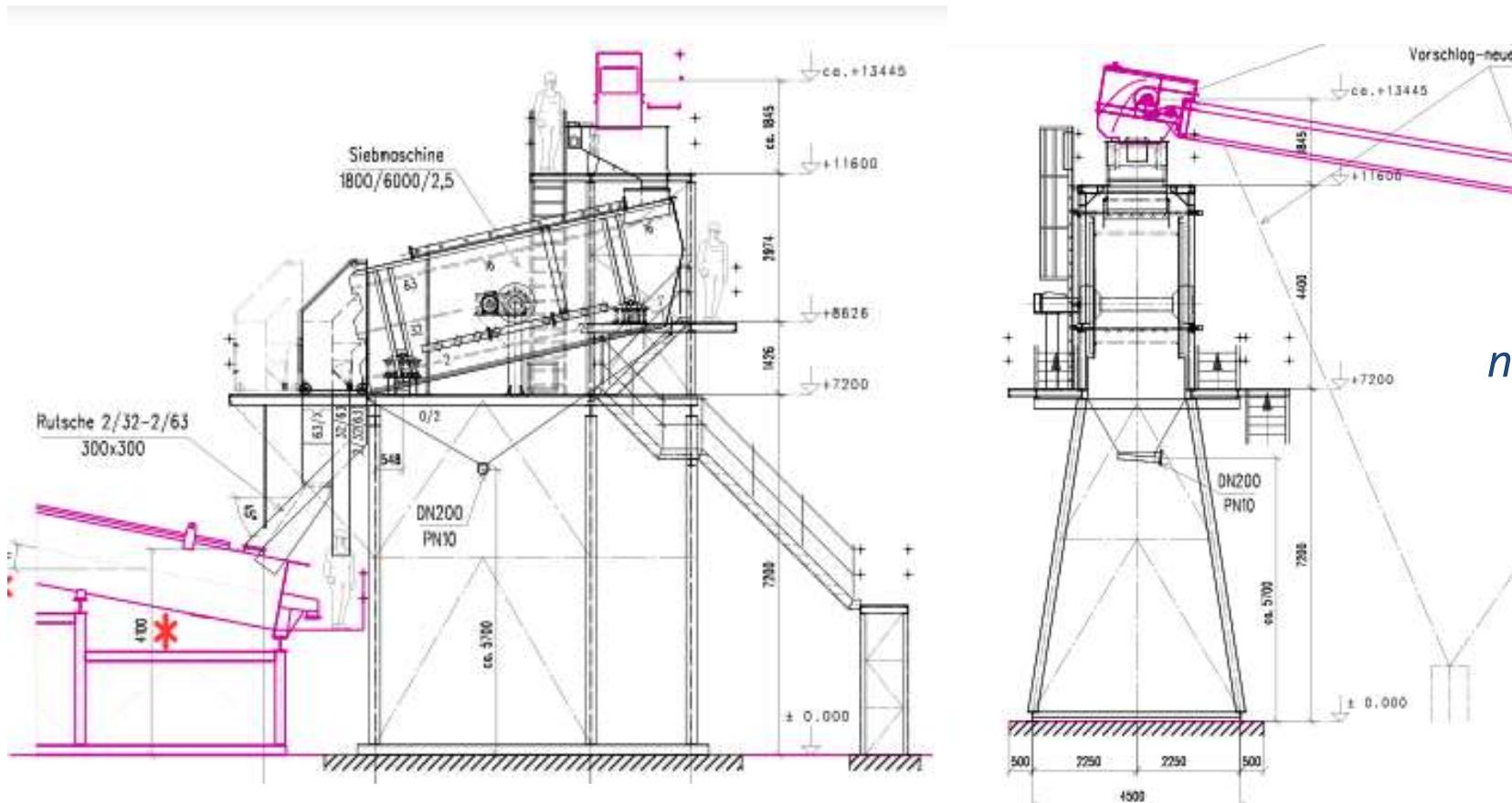


*existing screen station*

**wima.**  
The Complete System

## *Small Business Projects (screen stations)*

**wima.**  
The Complete System



*Layout  
new screen station*

## *Small Business Projects (screen stations)*



**wima.**  
The Complete System

*New screen station*

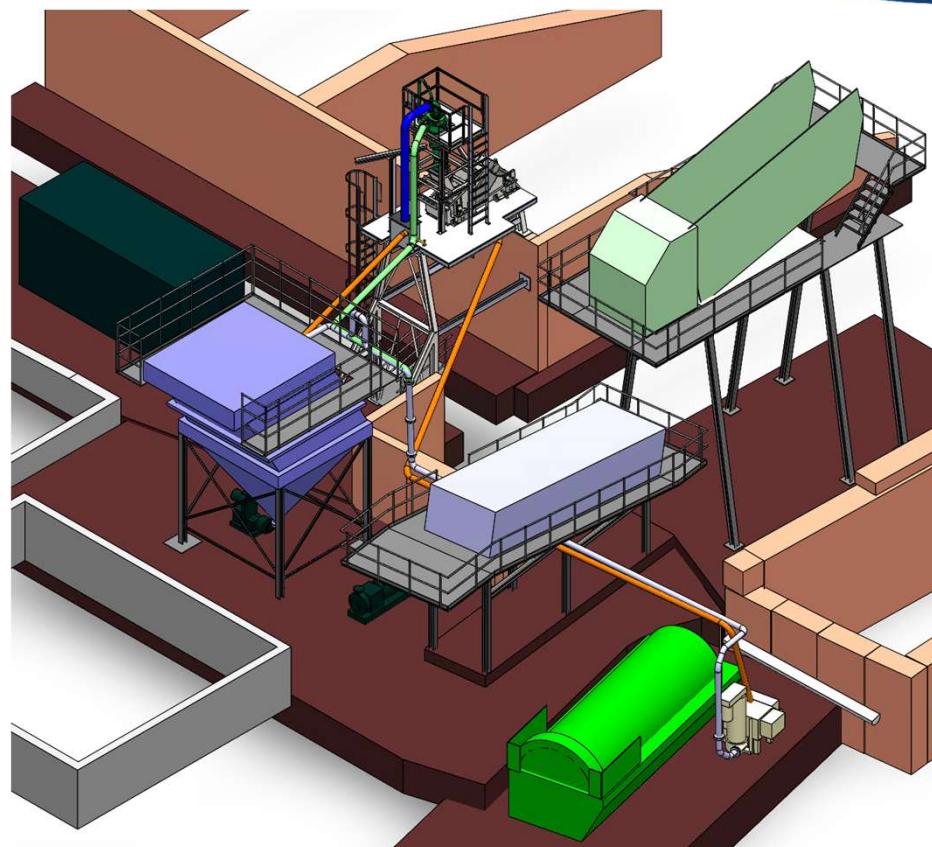
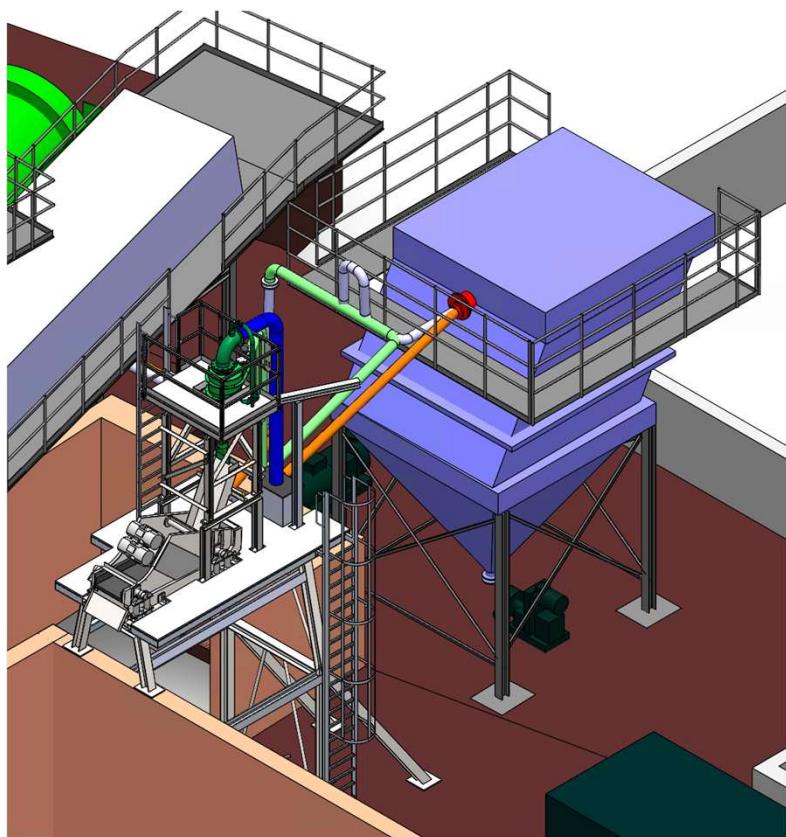
## *Small Business Projects (dewatering machine with cyclon)*

**wima.**  
The Complete System



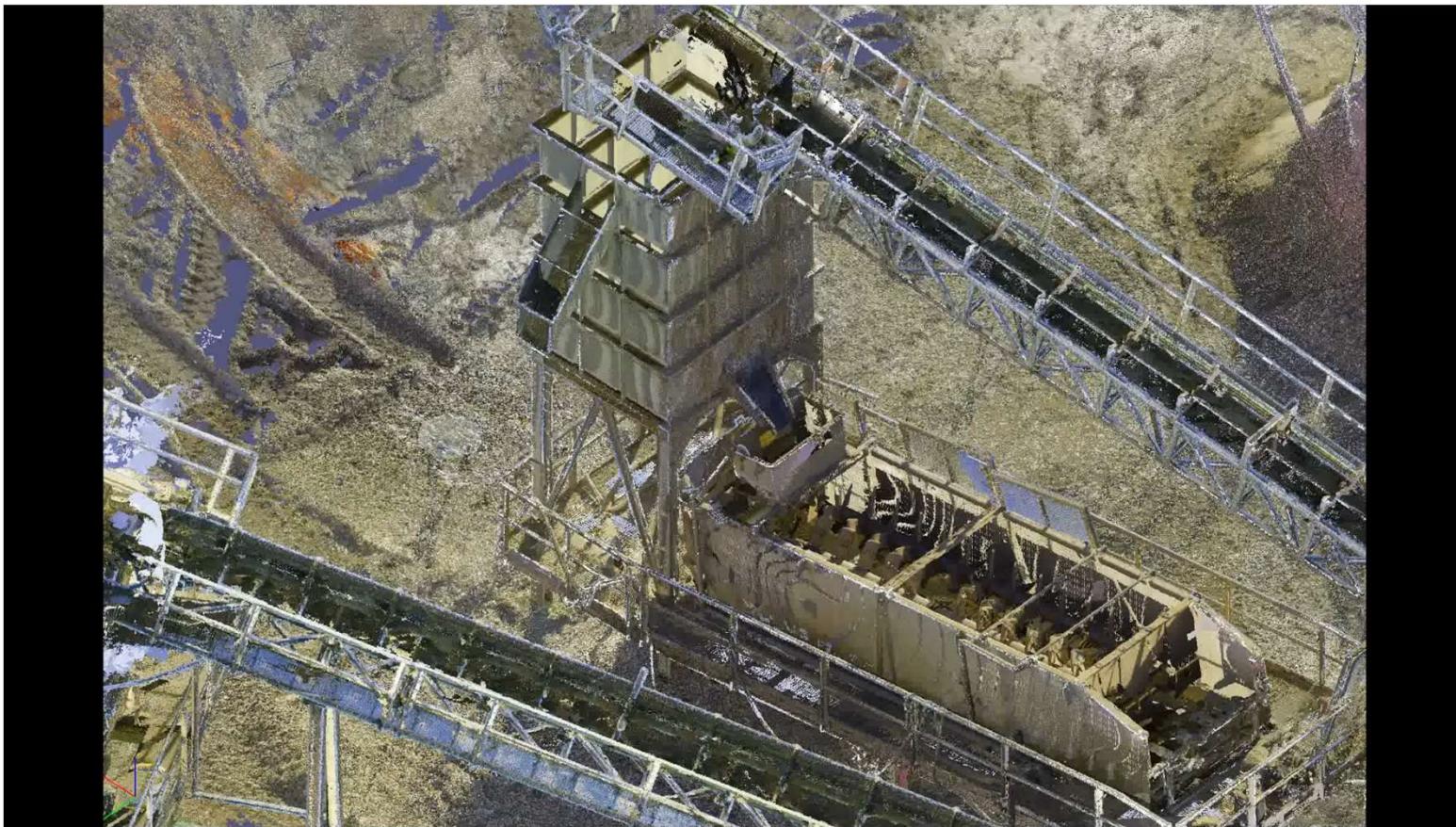
## *Small Business Projects (dewatering machine with cyclon)*

**wima.**  
The Complete System



## *Small Business Projects (Log washer with silo)*

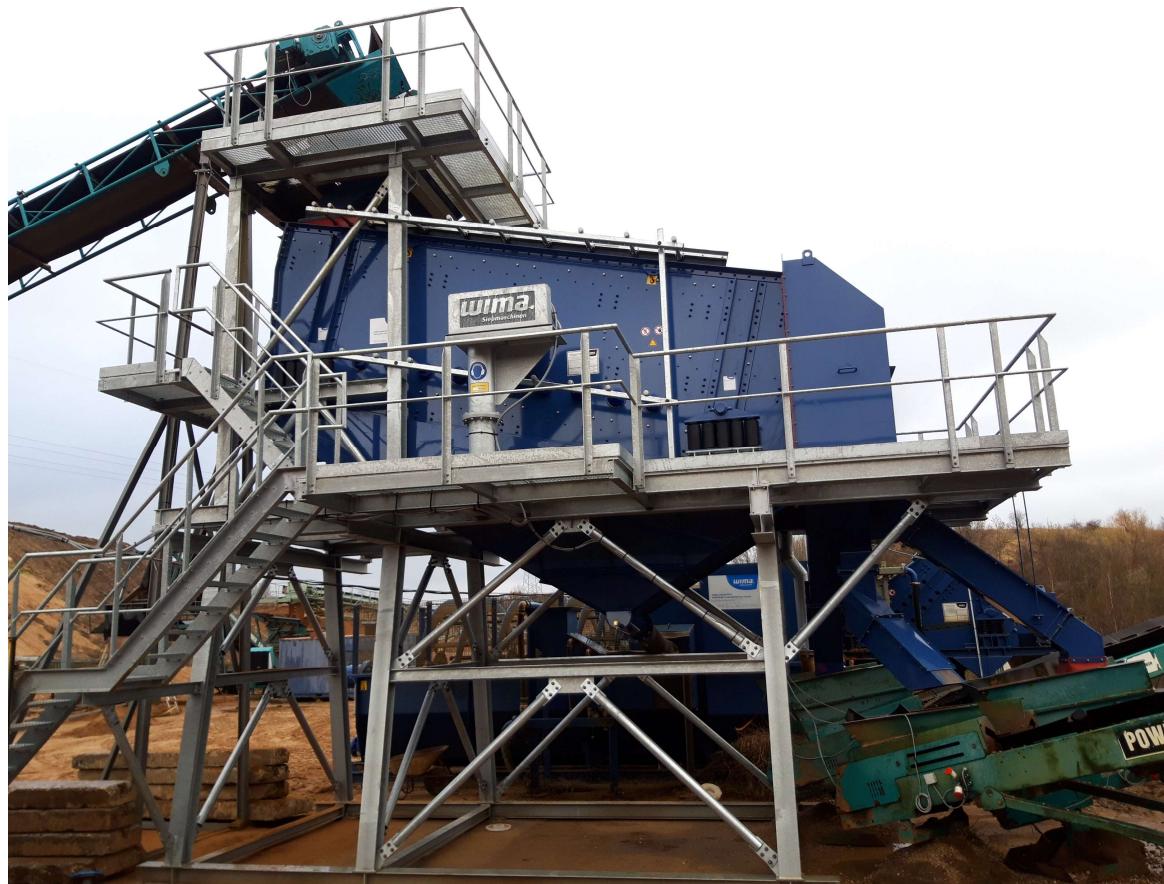
**wima.**  
The Complete System



# introduction WIMA

## *Screening machines*

**wima.**  
The Complete System

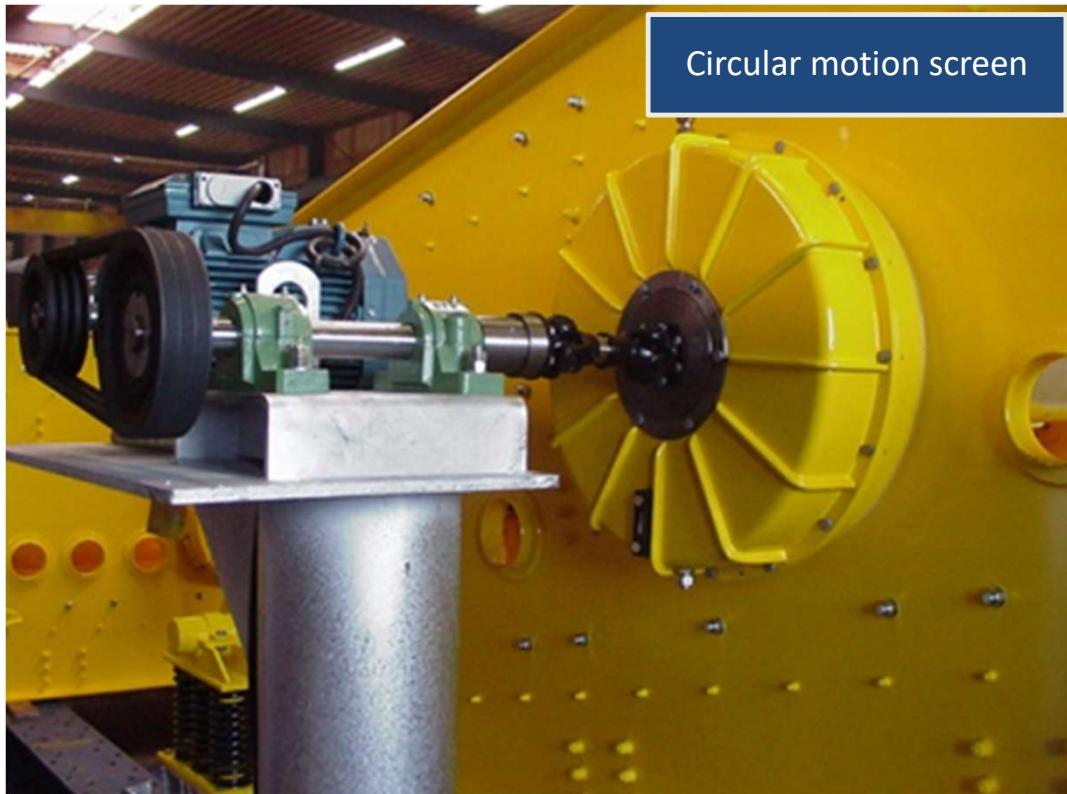


# introduction WIMA

## *Screening machines*

**wima.**

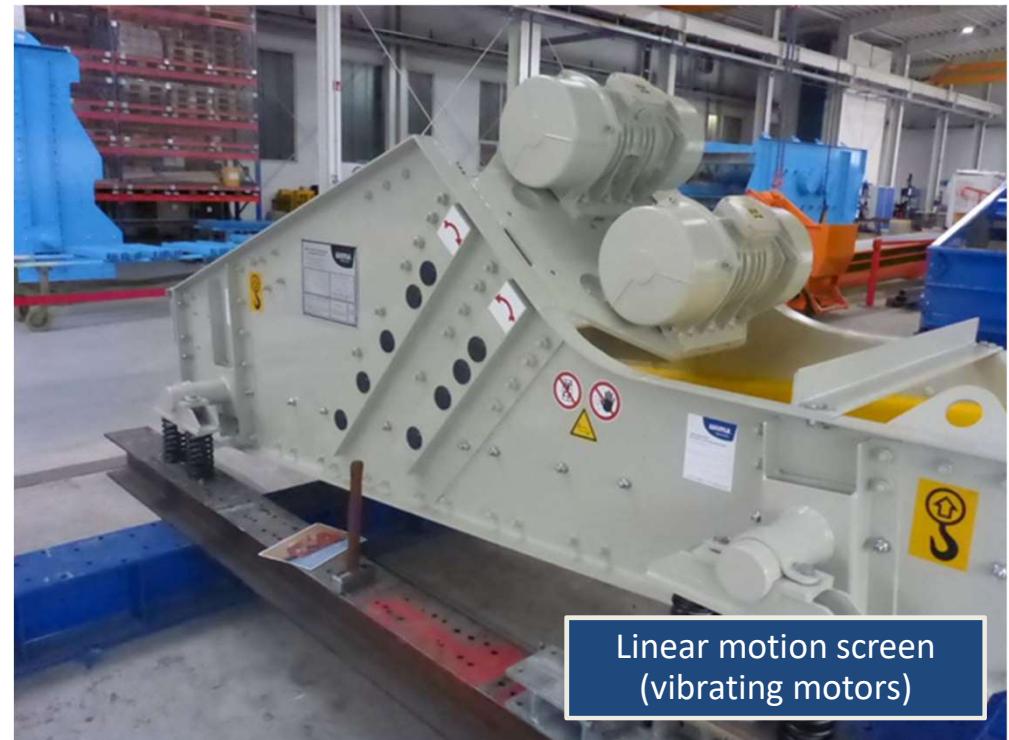
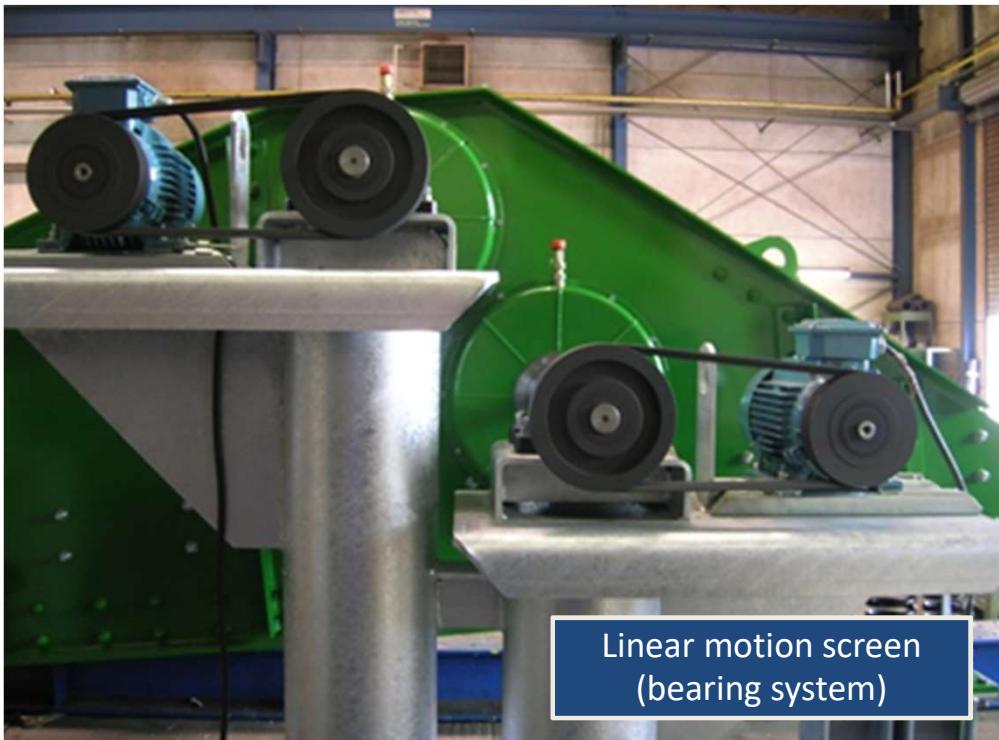
*The Complete System*



# introduction WIMA

## *Screening machines*

**wima.**  
The Complete System



# introduction WIMA

## *Screening machines*

**wima.**  
The Complete System



1-Deck



2-Deck



2,5-Deck



3-Deck

## WIMA drive systems

### *Intermediate shaft / single bearing system*

**wima.**  
The Complete System



## WIMA drive systems

### *Intermediate shaft / multiple bearing system*



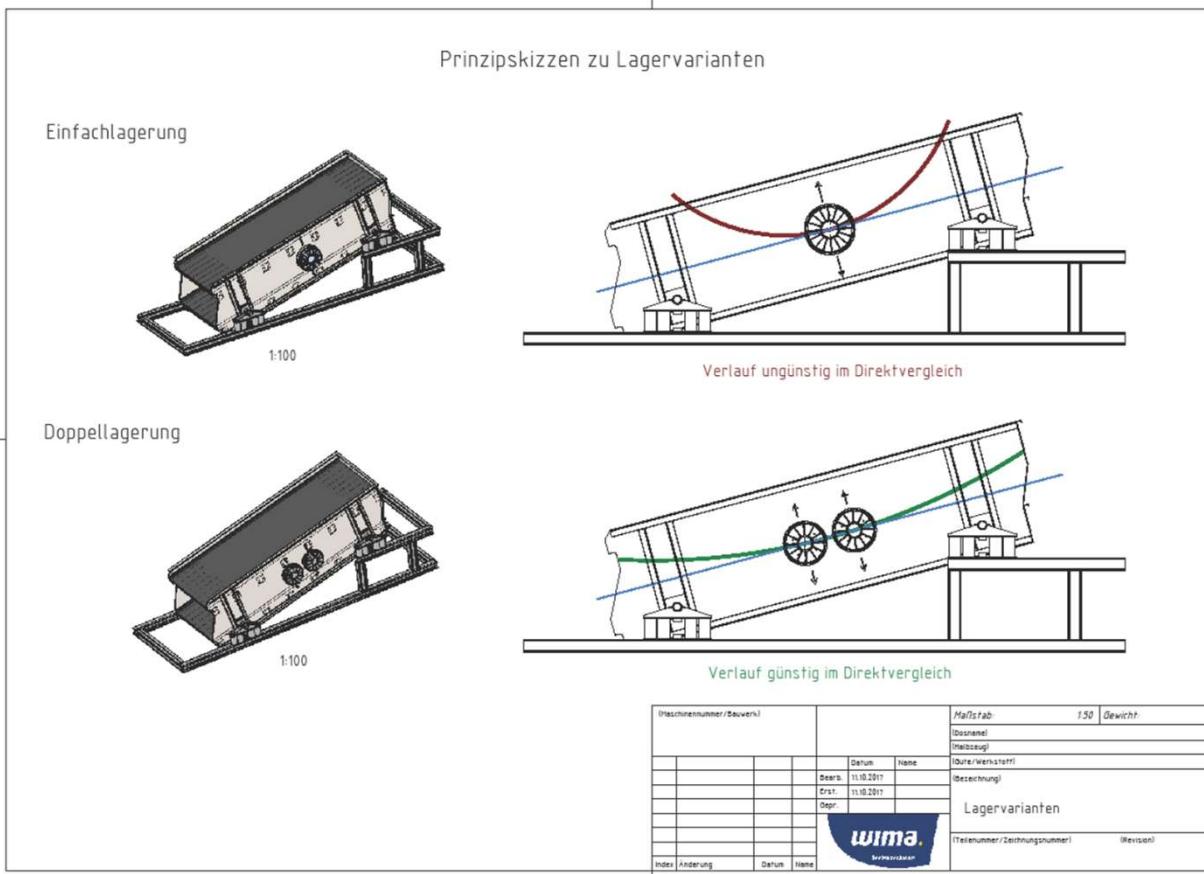
Synchronised double bearing system



# WIMA bearing systems

## *Comparison single and multiple bearing system*

**wima.**  
The Complete System



# WIMA drive systems

## *Vibrating motors*

**wima.**  
The Complete System



## WIMA bearing system

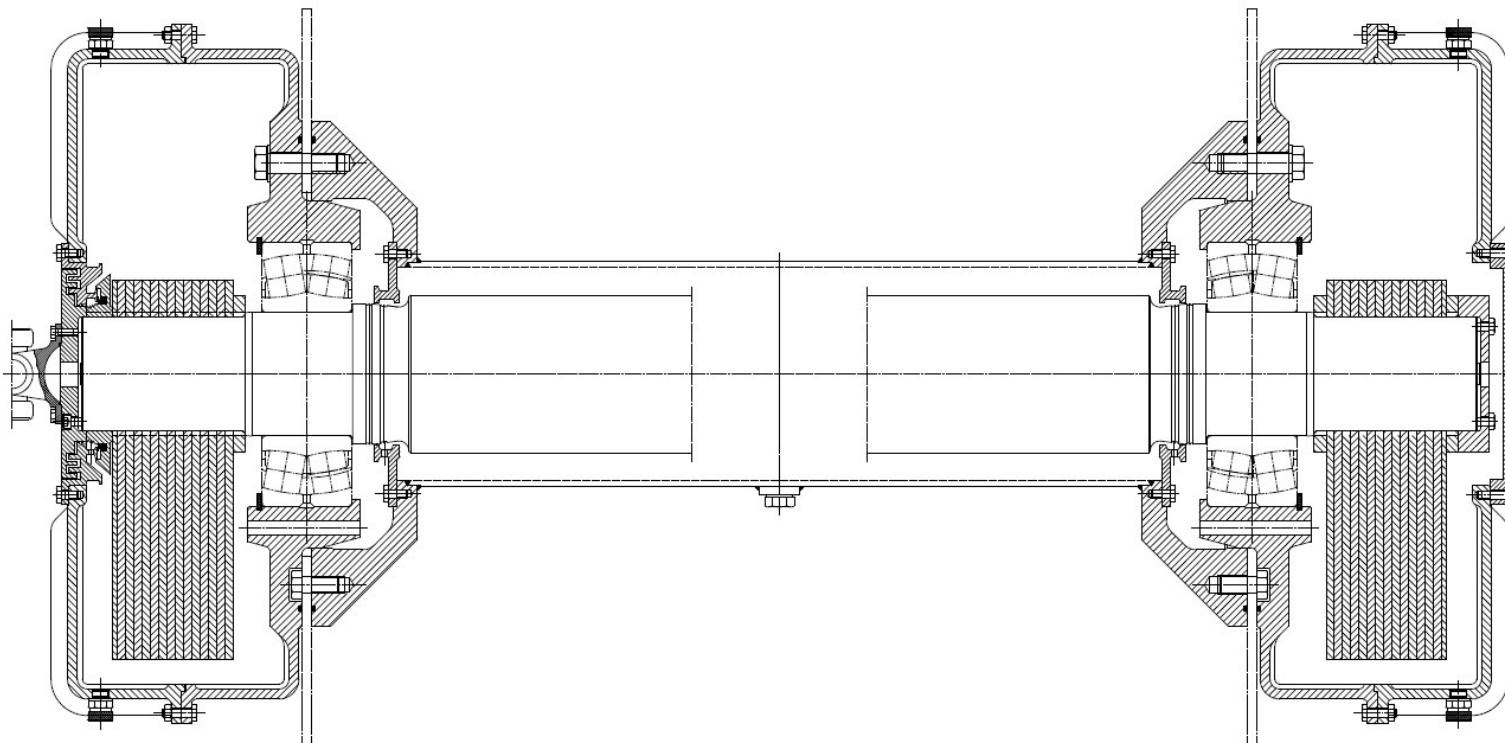
**wima.**  
*The Complete System*



**Bearing system with oil  
splash and mist lubrication**

# WIMA bearing system

**wima.**  
*The Complete System*



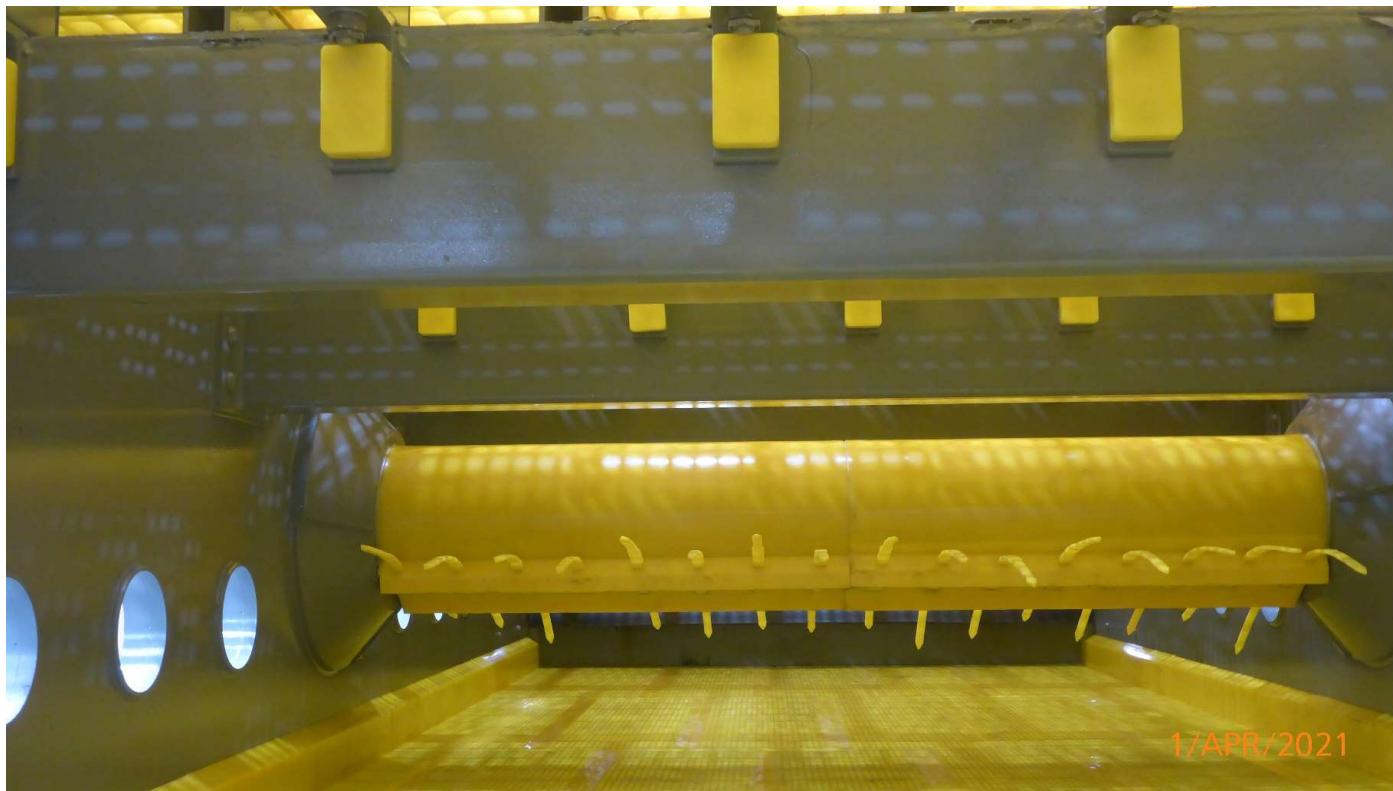
## WIMA wear protection

**wima.**  
*The Complete System*



## WIMA wear protection *Shaft protection tube / flange combination PU / rubber*

**wima.**  
*The Complete System*



## WIMA wear protection *Side walls / cross bearers*



**wima.**  
The Complete System

**Wear protective rubber**  
standard: SH 60/6 mm

options for cross bearers / side walls:

SH 60/10 mm  
SH 40/6 mm  
SH 40/10 mm  
PU- magnet system WS 2.10

## WIMA wear production

### *Cross beam PU-magnet system*

**wima.**  
*The Complete System*



03.01.2024

33

# WIMA wear protection

## Longitudinal bearers

**wima.**  
The Complete System

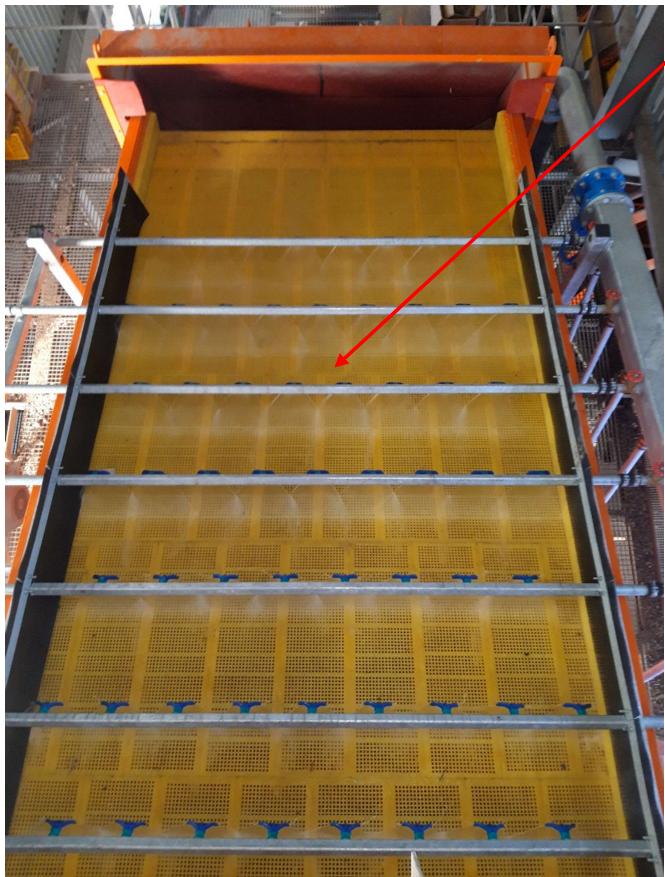


### Longitudinal bearers made of C-Profil for PU-/rubber modular systems

- easy exchangeable
- support „Huck- bolted“ on cross bearer
- wear protection for Huck- bolts made of PU

# WIMA screen media systems

**wima.**  
The Complete System



*offset after each meter  
for an optimal screening  
process, no blind zones  
along the total length  
of the machine*



*sealing side protection bars / screen media  
no backtracking of the material, fastening  
without wedges*

**WIMA screen medias from all well- know manufacturers  
*according customers request for all applications***

**wima.**  
*The Complete System*



**WIMA screen medias from all well- know manufacturers  
*according customers request for all applications***

**wima.**  
*The Complete System*



## WIMA spraying system

**wima.**  
*The Complete System*



## WIMA special features

**wima.**  
*The Complete System*

- tried and tested on the market since 1993
- Longitudinal girder offset for PU modular systems, thus preventing blind running of the screened material
- standard and non-standard screens (screen replacement in the existing steel structure) dimensioning and adaptation of the screening machines to the local conditions
- low oil quantities, no susceptible recirculating oil lubrication
- simple bearing change possible by replacing the bearing unit
- constant availability of spare parts due to standardization of components
- strong service team / availability from 6.00 a.m. to 3.00 p.m.



## WIMA Twin shaft log washers

**wima.**  
The Complete System



## WIMA Twin shaft log washers

**wima.**  
The Complete System

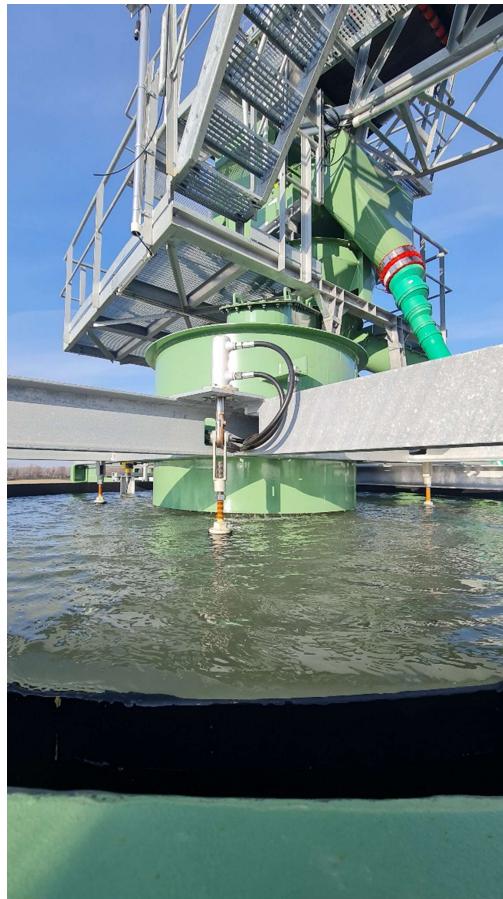


## WIMA sand traps

**wima.**  
*The Complete System*



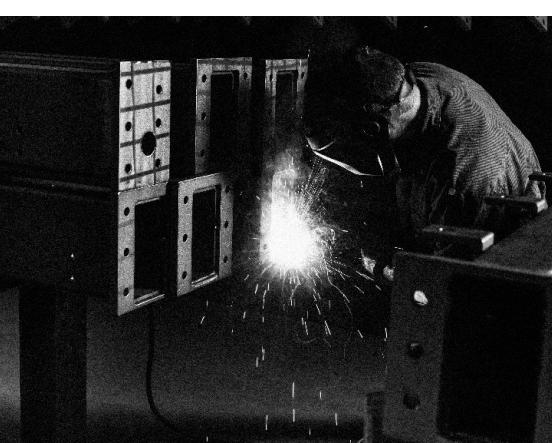
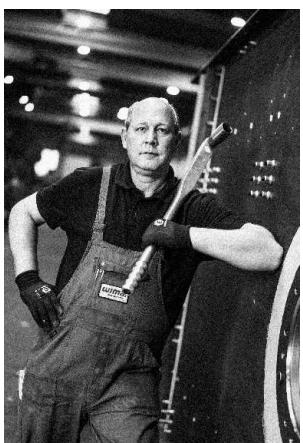
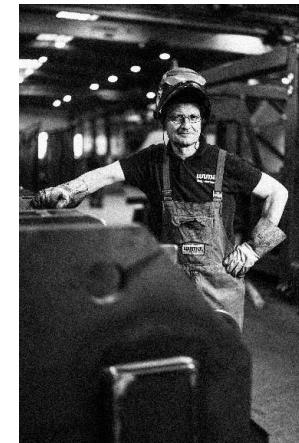
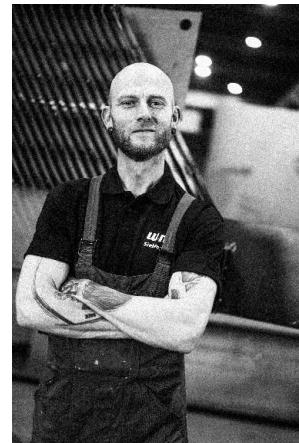
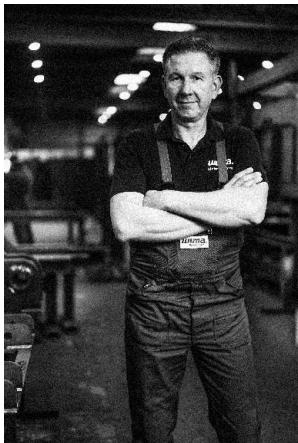
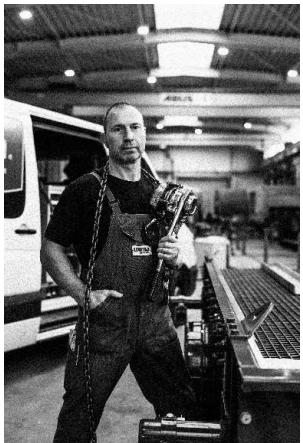
## WIMA heavy media separators



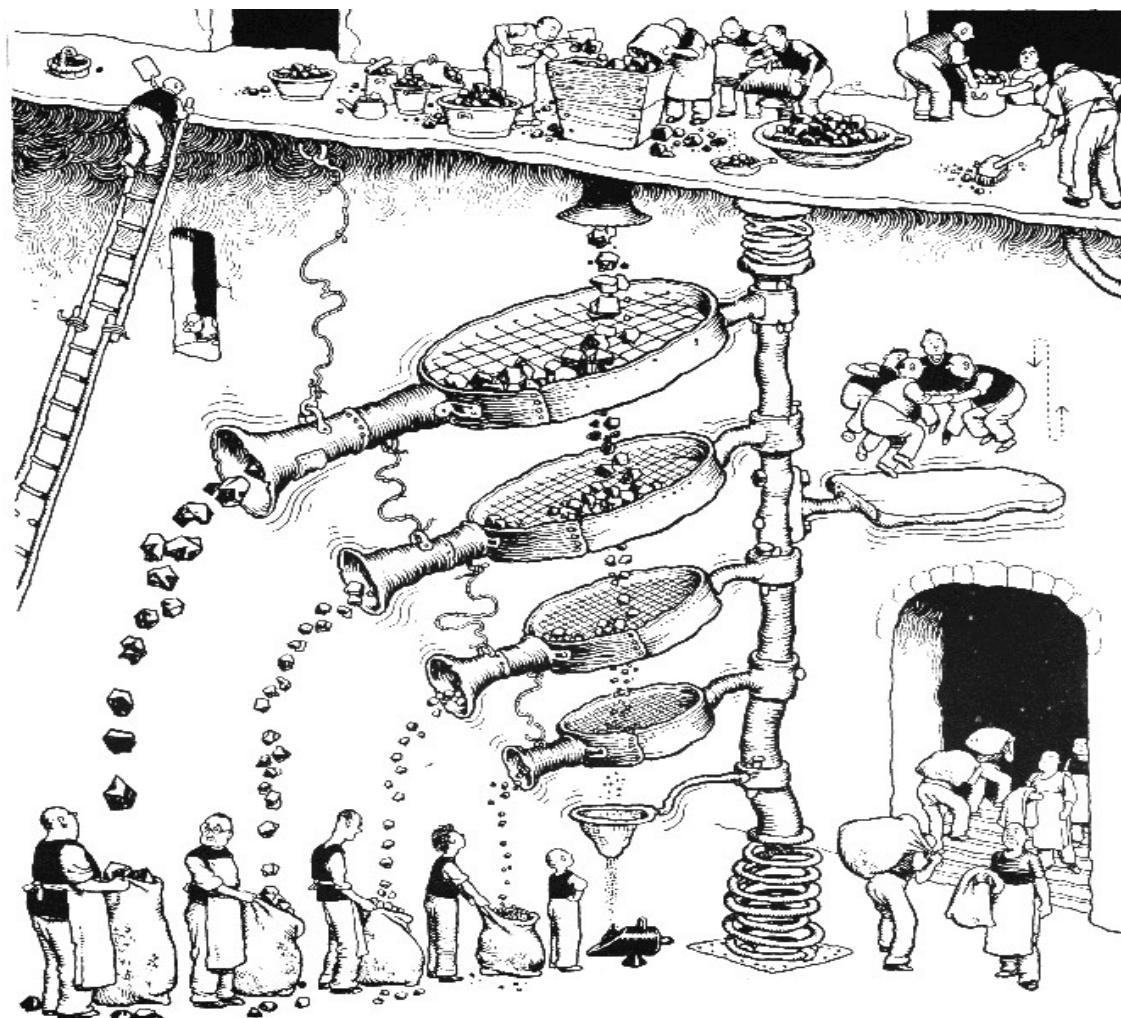
**wima.**  
*The Complete System*

## Our WIMA Team ...

**wima.**  
*The Complete System*



**wima.**  
*The Complete System*



Coke Grading