# EFFICIENCY IN COMPOUNDING



## Coperion – Complete Solutions from a Single Source

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coperion confidence through partnership

## Extruder Line – Value Ratio







## Single Component Change Possible









>> Increased heater power

Separate temperature control zone for side and top heaters



## **Optimization of Die Heads**



## Old Design



Current Design



## Example Rate and Energy Improvements



## Example for Rate Increase





>> Combination of modification can boost the benefit depending on application





## Example Degassing Improvements



## Example – Degassing of melt



Coperion Extrusion Days I Batch-to-Conti I 13.-14.11.18 I Page 11



EXTRUSION DAYS EFFICIENCY IN COMPOUNDING Vent Stuffers – to Allow High Degree of Fill



Previous design: DSE principle

### New design: ZS-EG principle



Vertical arrangement over the ZSK

Horizontal arrangement on ZSK side







## Example Material Improvements



## **Coperion Full Service Agreements**





#### > Full-Service Contract

Maximum efficiency and optimum operational availability of machines/plants through inspection and maintenance services entirely from one source.

#### Expanded Service Contract

Regular inspections and preventive maintenance work, adapted individually to the requirements of your machines/plants

#### Service Contract

Regular inspections and preventive maintenance work, combined with fixed service packages.

#### **Expanded Inspection**

Regular inspections and maintenance services, combined with fixed service packages.

#### Inspection Regular inspections of machines/plants.

## Safe budget planning on operational cost for extruders

Service Contract may include wear and tear parts like:

## confidence throughScrew elements/shafts

- >> Extruder barrels
- >> Gear box bearings/overhauls

Range of services



## Example Control System Upgrade



## Why Control System Modernization







## **Overview of Control Units**







## **Coperion ServiceBox**

EXTRUSION DAYS EFFICIENCY IN COMPOUNDING

- Small size
- 11 Connection possibilities
- On/off switch
- Modern quadcore processor
- High temperature resistance





# Thank you very much for your attention!



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