



coperion

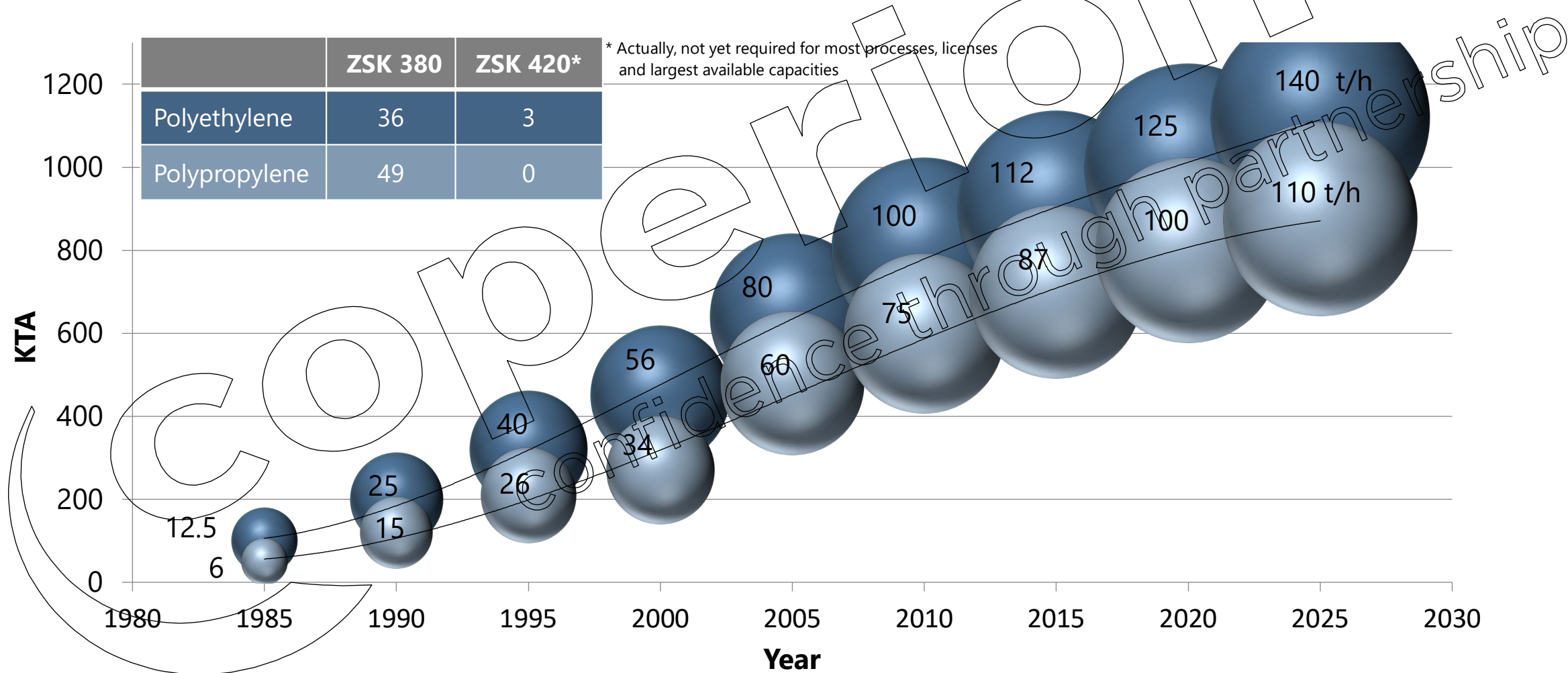
Compounding & Extrusion in Polyolefins

Roadshow Vietnam Nov 2024

Peter von Hoffmann
General Manager Business Unit Engineering Plastics

Capacity growth in Polyolefin plants

The trend is going up



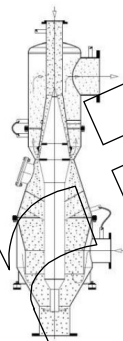
Key components for mega capacity plants

Ready for 1000 kta and more

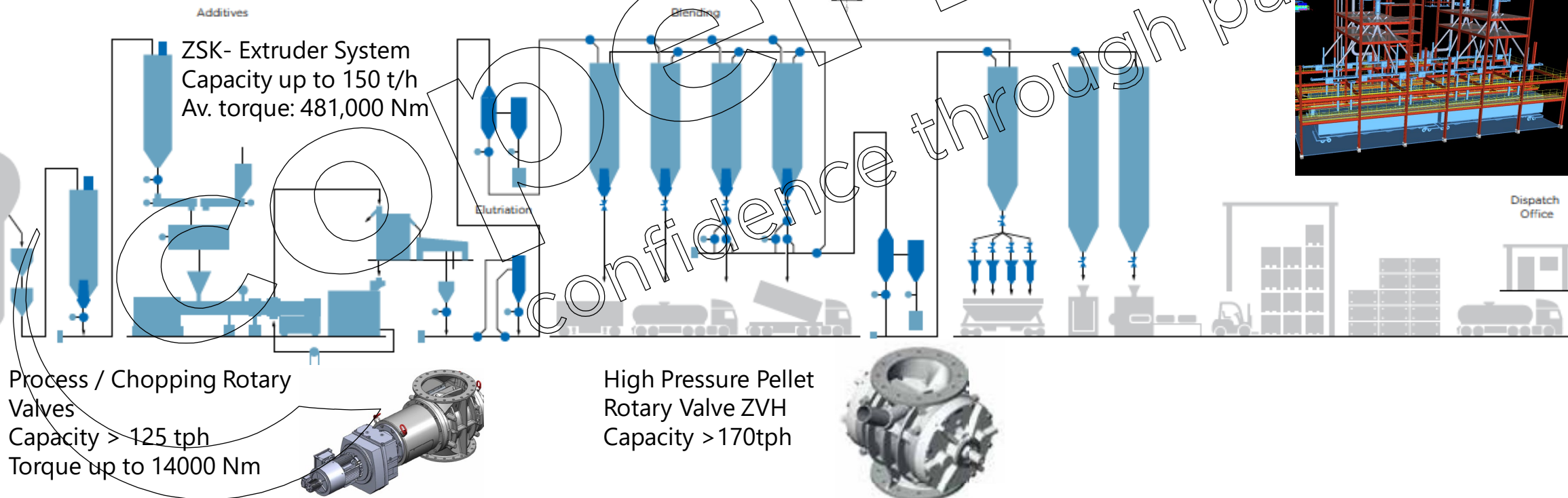
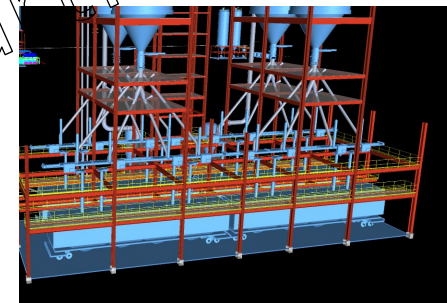
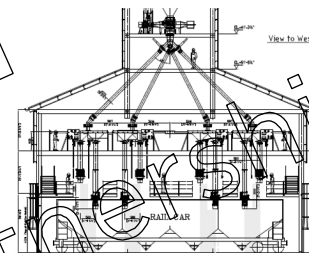
High Pressure Powder
Rotary Valve ZXQ
Capacity > 140tph



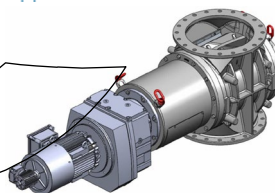
Pellet Cleaner / Elutriator UGS
Capacity > 150tph



Railcar Loading Facility
Capacity > 400tph



Process / Chopping Rotary
Valves
Capacity > 125 tph
Torque up to 14000 Nm



High Pressure Pellet
Rotary Valve ZVH
Capacity > 170tph



Confidential

Product demands steadily increasing

Bimodal HDPE

- Demands for > 100 t/h
- Energy efficient processes and lower operating costs
- No pellet fines generation
- Coloring of pipegrades (driven by infrastructure developments)

HDPE / LLDPE

- Demands for 100 t/h - 150 t/h
- Energy efficient processes and lower operating costs
- No pellet fines generation

PP

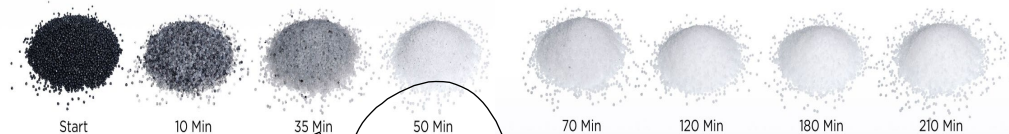
- High peroxide ppm's requirement challenge homogenization in extruder and pelletizer performance
- Request for devolatilization and deodorizing
- Demands for 100 t/h - 120 t/h
- Energy efficient processes and lower operating costs
- No pellets fines generations

Extruder Layout



COPERION's differentiators on the market

COPERION could provide unique advantages for the customers



Coperion Lean Concepts:

- Holistic optimizations downstream the reactor
- Saving potentials in space, building, equipment, CAPEX/OPEX,

Energy Savings:

- e.g. pressure reduced discharge
- Optimited screw profiles
- Also as retrofit

Color Change:

- Colored pipe grades on one line due to self-cleaning
- With process guarantee
- No waste, all prime-product

Quality / Reliability:

- Increase of overhaul cycles through techn. Features
 - 98% onstream
- Monitoring systems
- Emergency spares stock

Highest capacities:

- actually: 1000 kta for PE, 750 kta for PP
- Equipment for even high capacities available
- „Economy of scale“

Unique technical features:

- e.g. non-distructive clutch
- on-line filter screen
- Superpositioning gearboxes,



Contact

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Thank you
very much for
your attention.

You're very welcome to follow us.

