

Upgrade Your PCS & PLK

For Less Maintenance Costs



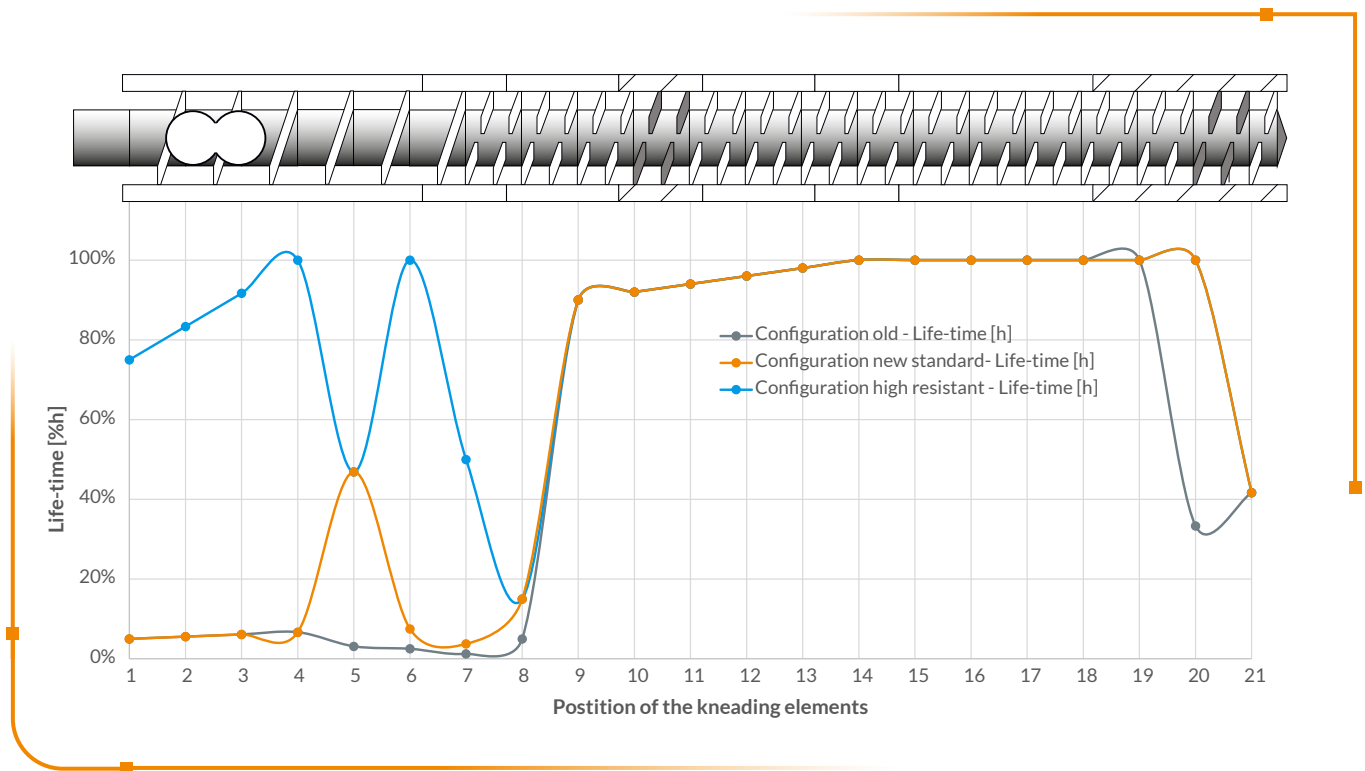
B-403 vs. B-410

Optimized selection of process materials for powder coating

The selection of the best suitable materials for the process section, being B-403 vs. B-410 has a significant impact on investment cost **but even more on maintenance and downtime cost**. Especially in applications with high wear such as seen in compounding of powder coating materials, the results can differ enormously. The comparison of the life time of various materials offers impressive insights.

Wear Behaviour

of Standard and Resistant Materials Along the Process Zone



Complete process configurations including flights, pins, and liners were defined for the intake, kneading and outlet zone. Configurations included previous (B-403), new standard (B-410) and high resistance materials (B-614) in the highwear area.

Uptime for each of the screw elements of the three different configurations was evaluated.

Different material grades in the high-wear area resulted in significant differences in performance.

**Increased
Lifetime of Parts
3x Longer**



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Solution and Benefits

Our Solution

- + Higher graded, wear resistant materials for flights, liners and pins
- + Use of wear resistant components in the melting zone
- + Customized selection of parts for use with abrasive materials for powder coating applications



Your Benefits

- ✓ Lifetime of parts will be significantly higher combined with lower total cost of ownership.
- ✓ Increased productivity due to less maintenance interruptions.

Save today with your upgrade!

The Parts in Question

By upgrading parts of the process zone, screw elements, pins, liners, it is possible to increase uptime of your PCS and/or PLK significantly.



Kneading and Conveying Elements for the PCS Kneader



Kneading Pins and Corresponding 3-Flight Kneading Elements



Pins and Liners

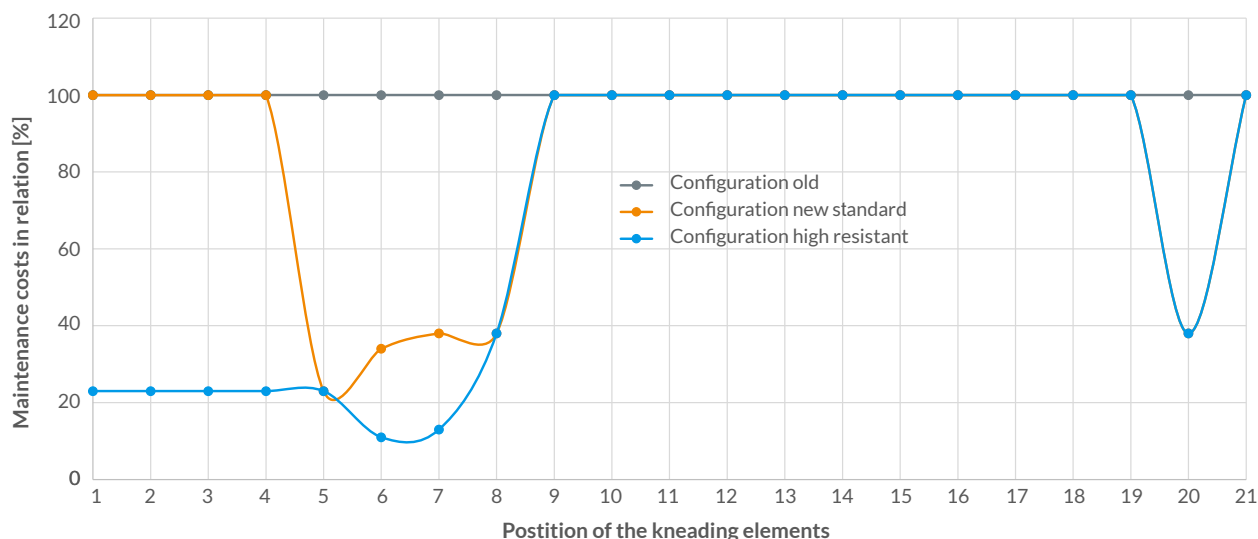


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Material Cost Savings

along the process zone



Calculation applies to screw elements only. Similar situation can be expected for pins and liners.

These choices are compared above:

Material	Price factor	Life-time
B-403	1.0	1
B-410	1.15	3
B-614	4.30	13

A moderate offset in cost will result in significant increase of the life-time and reduction of material cost if using the new standard B-410 material. Even the relatively expensive B-614 will pay back within short time due to the extensive life-time.

Get your savings on the way today.

Resulting material cost comparison of most affected screw elements assuming 3000 hours of operation:

Cost savings*		
Previous Standard	100 % Cost	12 h Stop
New Standard	38 % Cost	4 h Stop
Benefits	62 % Savings	8 h Productivity

* Indicative values. Values depend on the processed materials.

Up to **60%**
Savings
on wearable parts.



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BUSS is 75 years of knowledge, innovative strength and experience in the development of compounding systems. It all stems from our highly experienced employees, who bring maximum quality and professionalism to all our services. BUSS' core competence is customer- and product-specific solutions of processing tasks. Always analogous to the high demands on process technology and product quality as well as the constantly increasing technological market needs. The performance strength and investment security in our systems can be summarized in two words: Swiss quality. All of this makes us a leading supplier of high-quality compounding technology.

Get in touch now

for more individual information about your PCS upgrade!

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