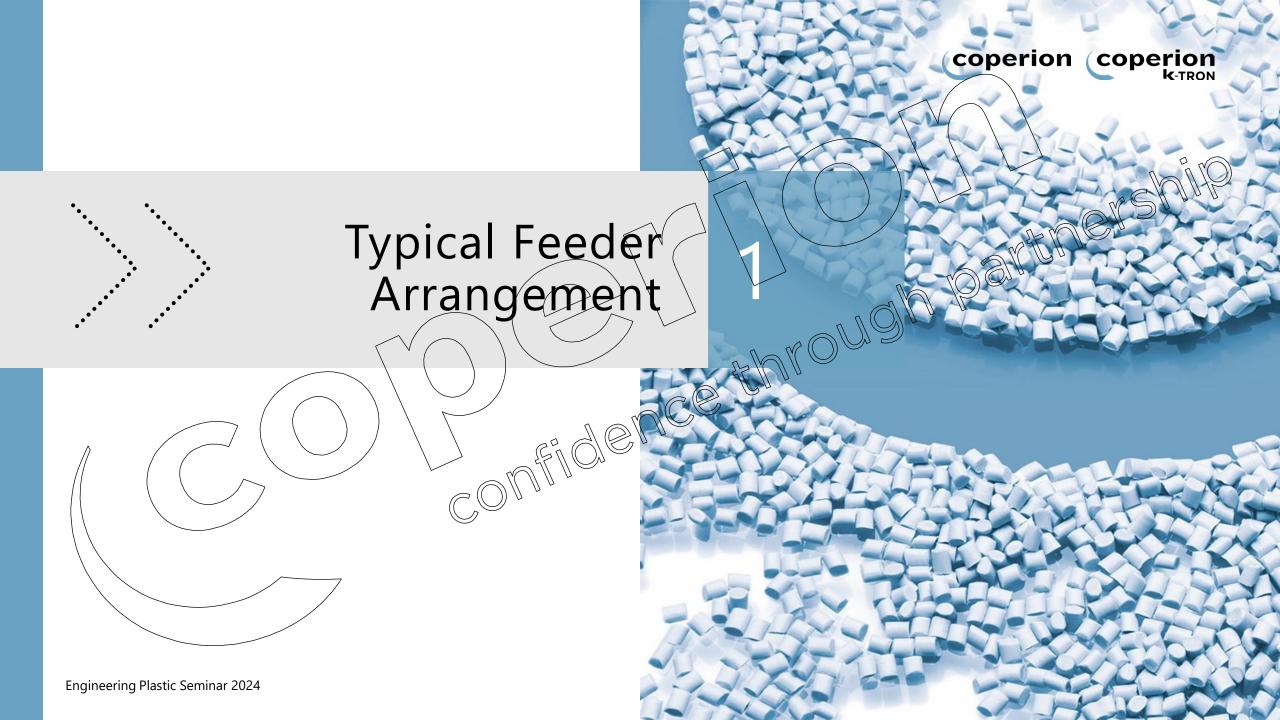
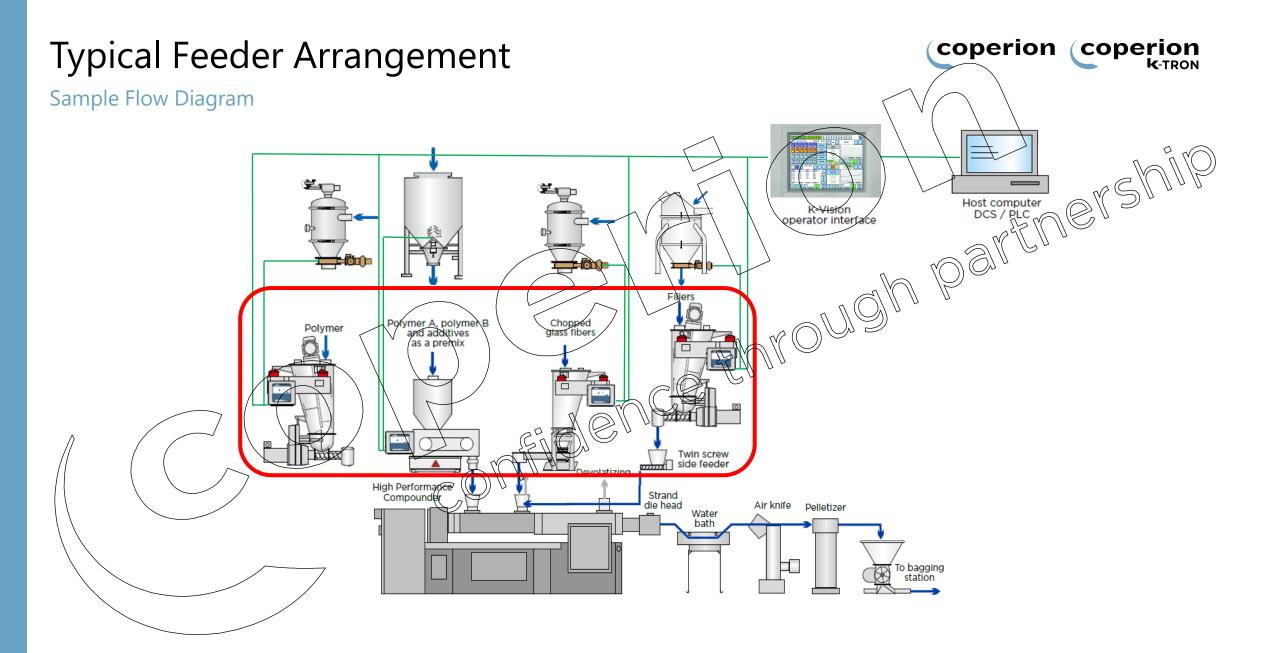


coperion coperion k-TRON **CHAPTERS** Typical Feeder Arrangement Recipe Management Feeder Variety Showcase mart Controlled Smart Controllers Takeaway

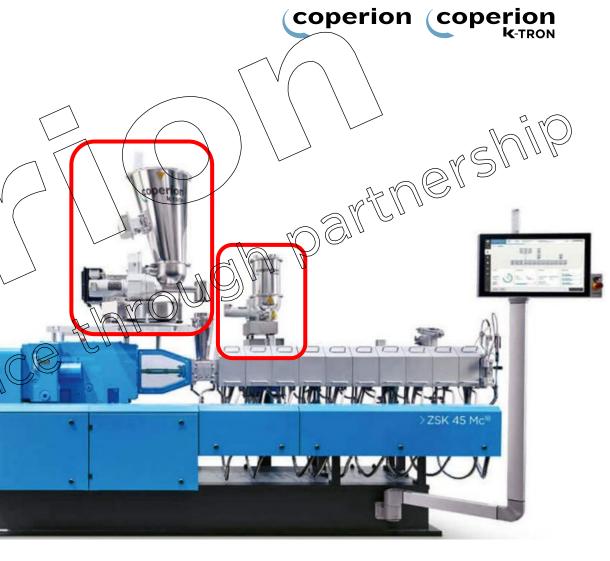




Typical Feeder Arrangement

Sample Site Photos







Recipe Management

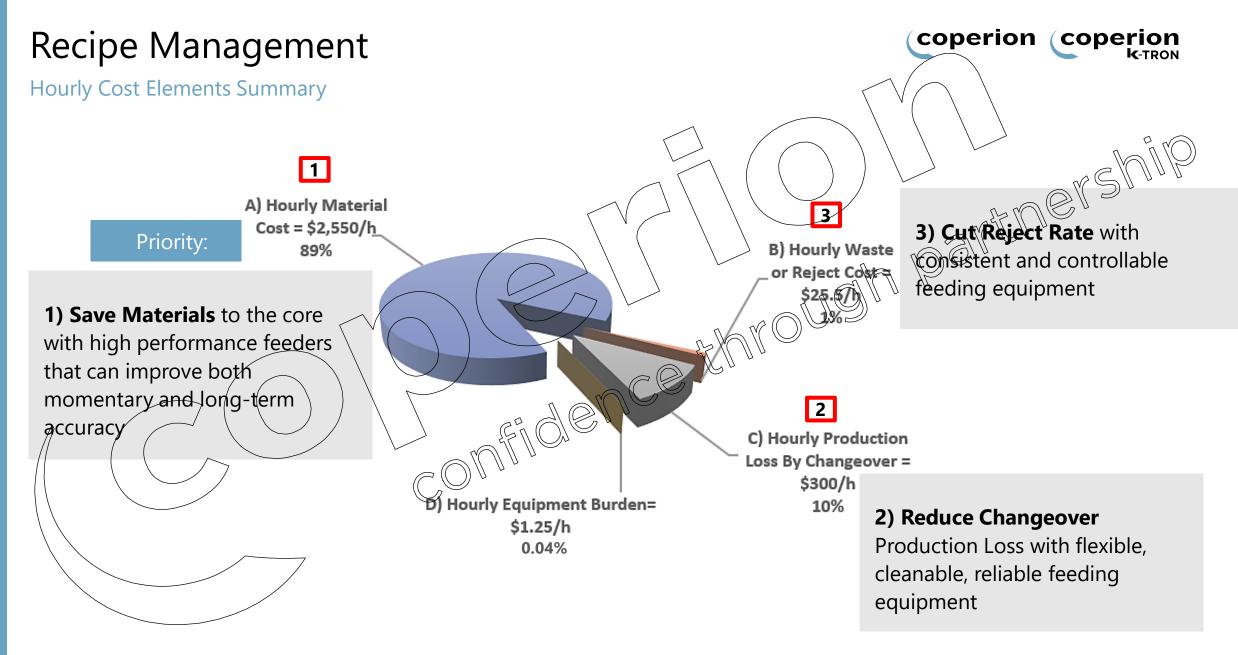
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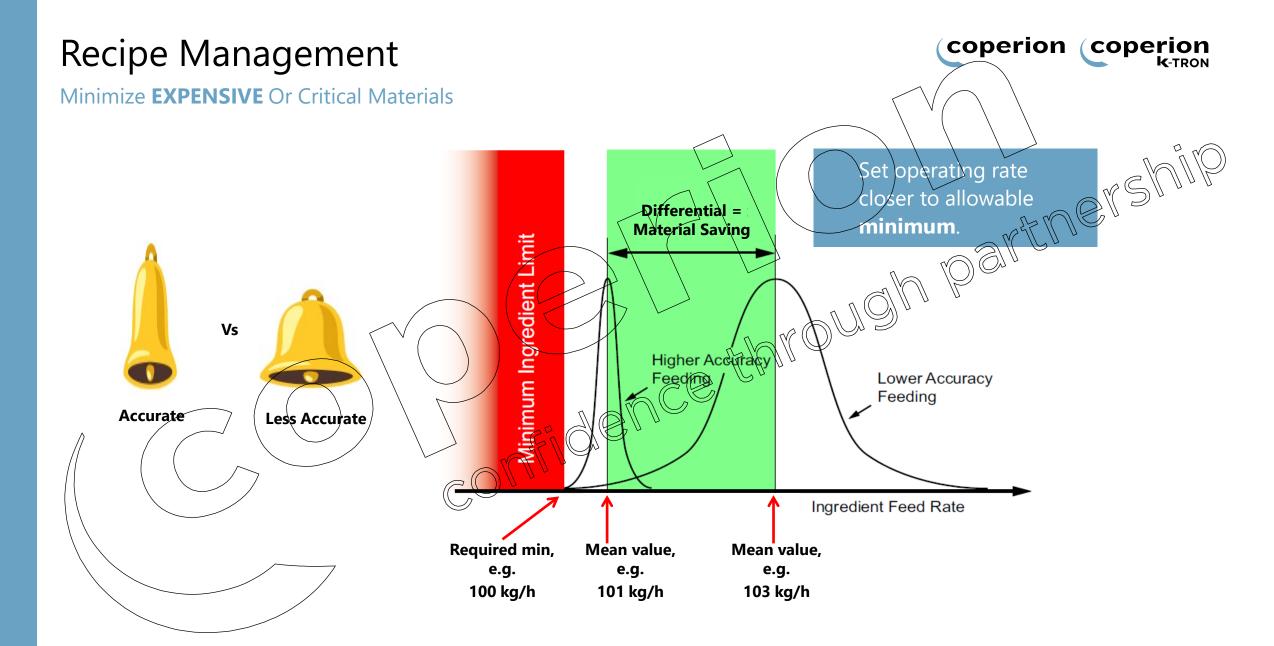
Sample Recipe On Compounding

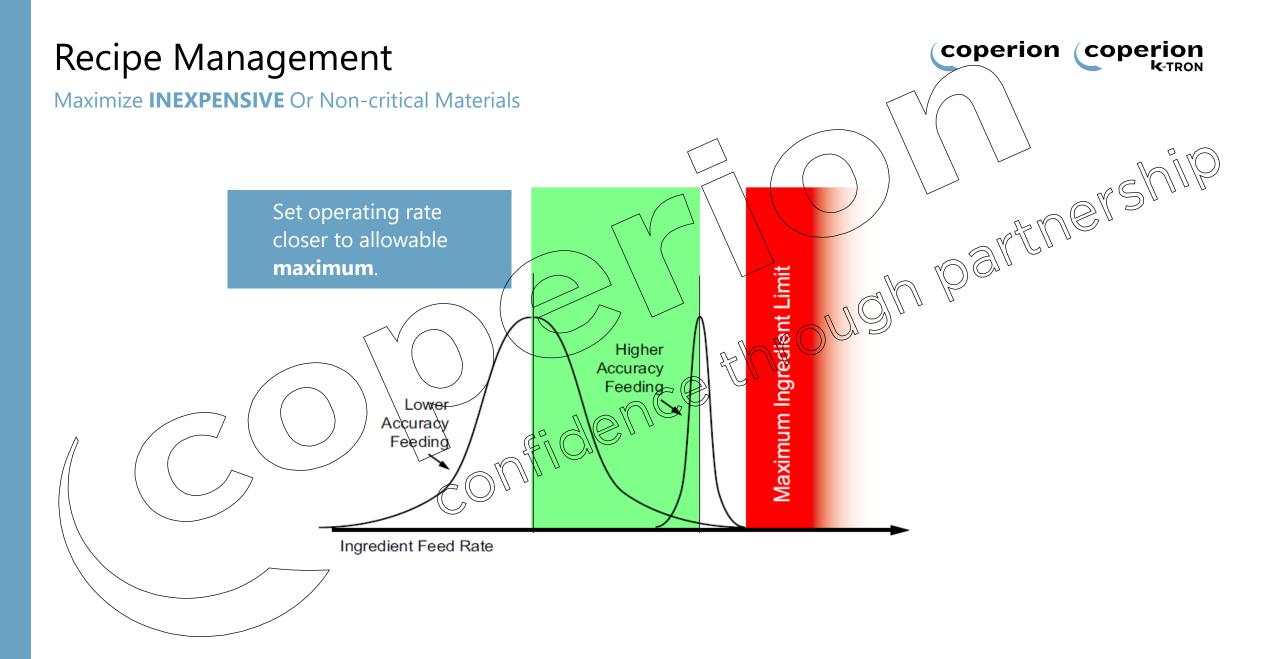
Fdr# N	Material Name	Geometry	min %	max %	min BD, kg/l	max BD, kg/l	Min rate, kg/h	Max. rate, kg/h	Min. rate, l/h	Max. rate, I/I	Feeder Model	Hopper size L	Refill Per Hour
1 F	Plastic Resin	pellet	15	80	0,4		75 \	400	75	1000	K2-ME-D5/S60	110	8
2 (Glass Fiber	fiber	10	50	0.27	0.35	50	250	142.9	92\$\93	K3-ML-D5-V200	110	8
3 F	Flame retardant	powder	10	50	0.6	1.6	50	250	31.25	476.67	K2-ML-D5-T35	110	4
4 F	Filler (CaCo3, BaSo4, talc, silica, mica)	Powder/flakes	10	50	0.16	1	50	~25\0 (50	1562.5	K2-ML-T60	160	9
γ ,	Processing additive mix (AQ, dispersant) + pigment	powder	0.5	15	0.4	2.1	2.5	75	1.19	187.5	K2-ML-D5-T35	50	4
6 p	Modifying additive mix (UV powder, slip \powder, PPA powder, coupling agent pellets)	Powder pellet	0.5	30	0.3	1	2.5	150	2.5	500	K2-ML-D5-S60	110	4
\\ 7 F	Recyled plastic	flake/pellet	5	80	0.3	1.2	25	400	20.83	1333.3	K2-ML-S60	180	7
8 L	Liquid	liquid	1	3	1	1	2.5	250	2.5	250	LLW	60	4

coperion coperion Recipe Management **Hourly Cost Elements** Extrusion Rate, kg/h = 1000 1,000 kg Unit Material Cost, \$/kg = 3 On-line Production Time/Uptime, % = 85 A) Hourly Material Cost, \$/h = Extrusion Rate, kg/h x Unit Material Cost, \$/kg x Uptime Reject or Waste Rate, % = 1 25.50 \$/h B) Hourly Waste or Reject Cost, \$/h = 2550*0.01 15 | % Recipe Changeover Downtime (Ignore Labor), % = 15 5 \$/kg Unit Material Sell Price, \$/kg = 5 C) Hourly Production Loss By Changeover, \$/h = Extrusion Rate kg/h Recipe changeover downtime % x (Sell Price - Cost) 300 \$/h 100,000 \$ Equipment acquisition cost, \$ = 100,000 Equipment life expectancy, year = 10 10 year 8,000 h/y Operating hours per year = 8000 D) Hourly Equipment Burden, \$/h = Equipment Acquisition Cost, \$ / 10 years /8000 hours 1.25 \$/h

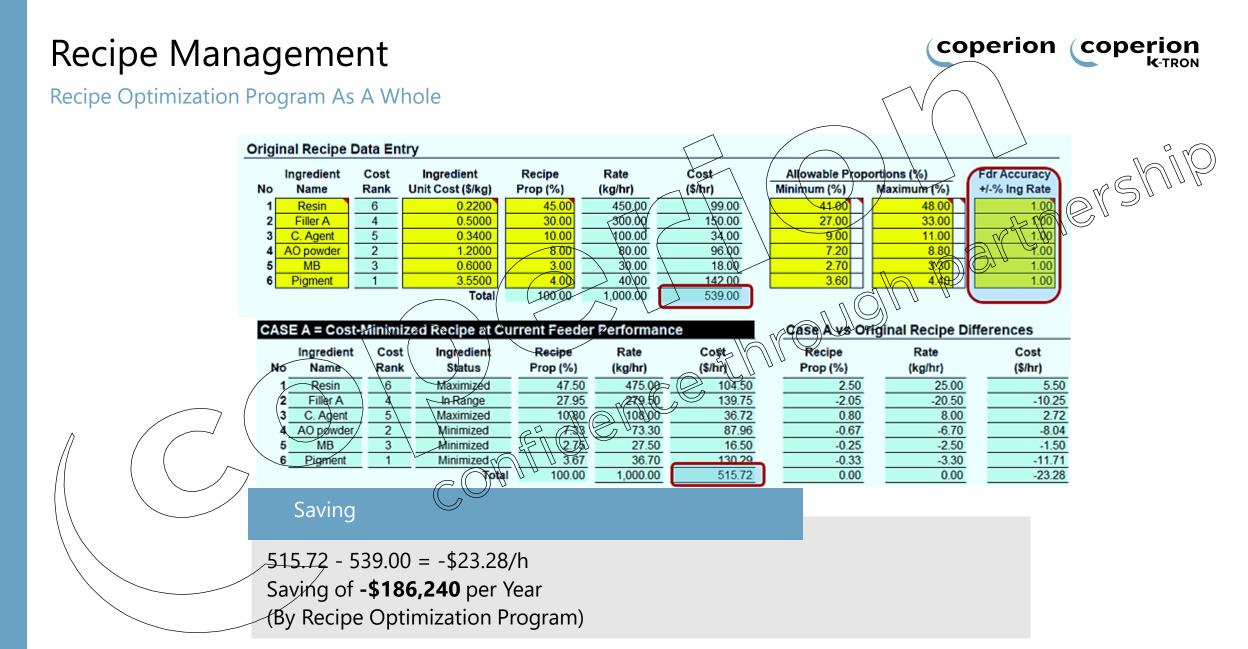
Precise Feeding Saves a lot of Money 28/11/2024

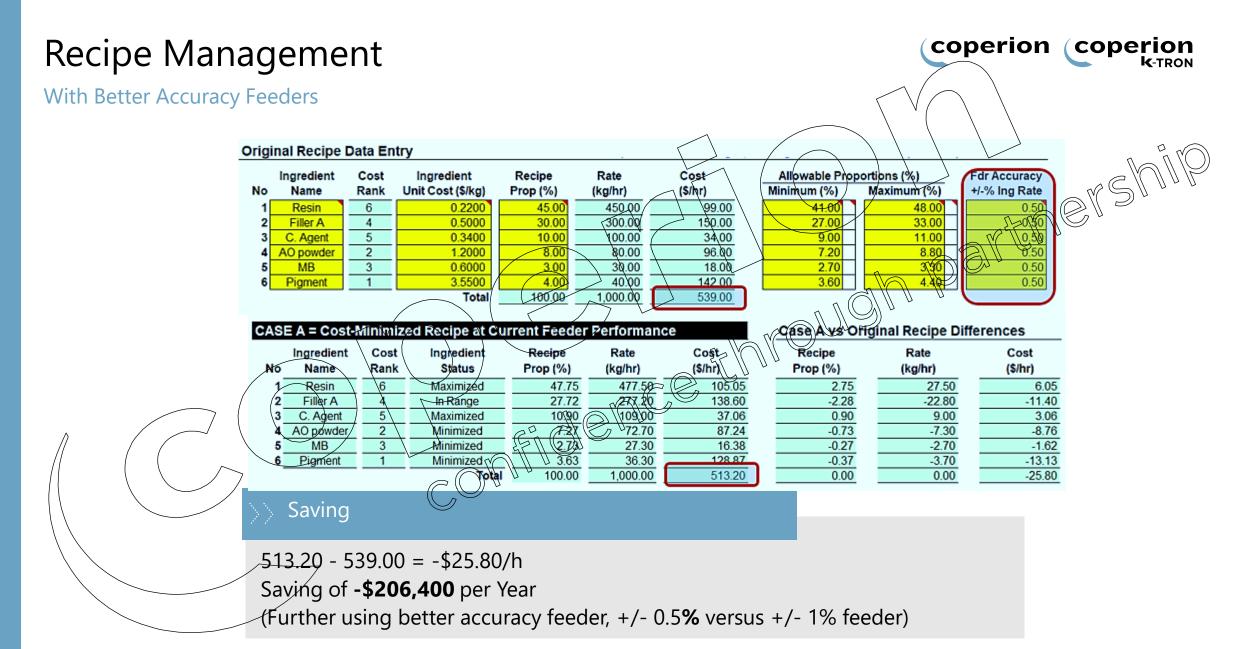






11





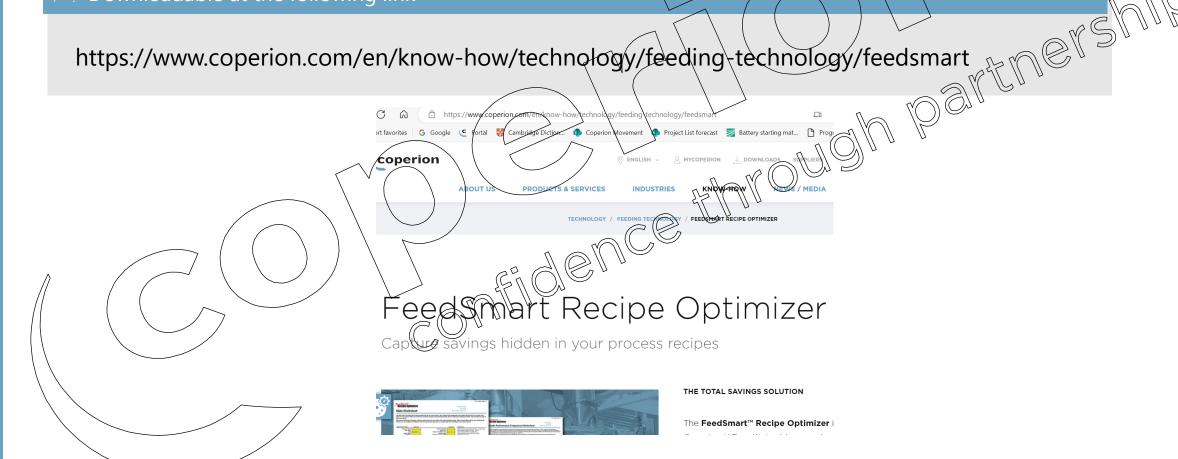


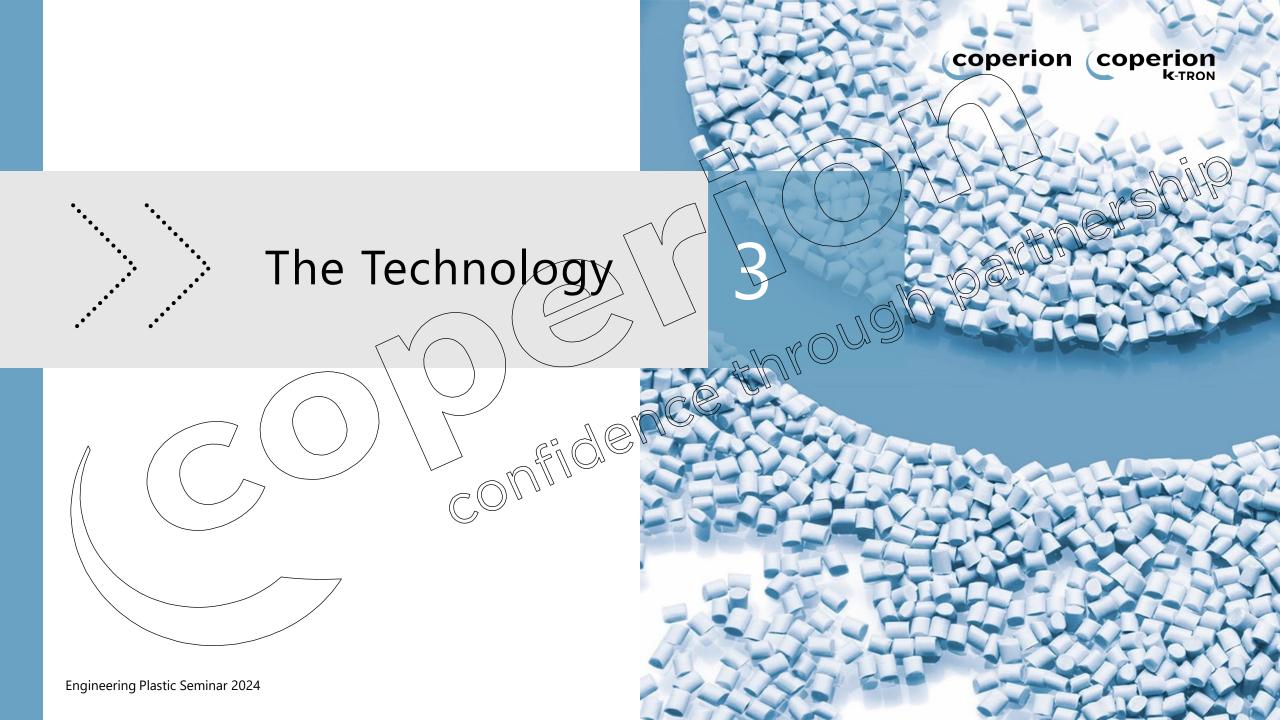
Feedsmart Recipe Optimizer

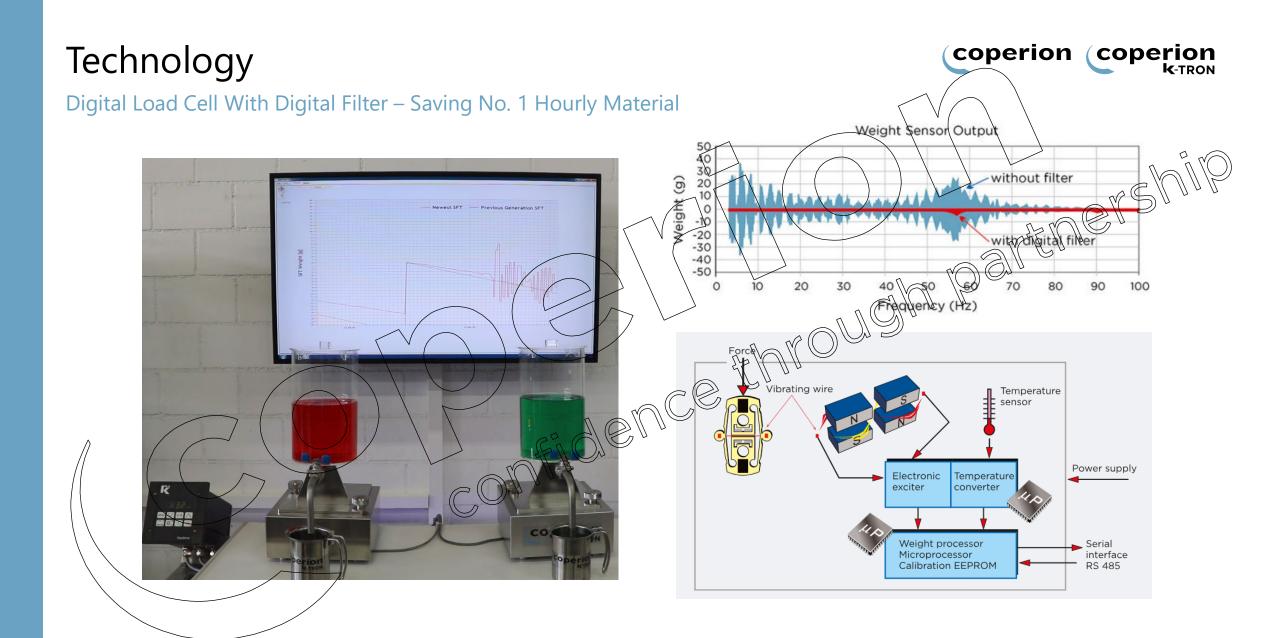
Downloadable at the following link

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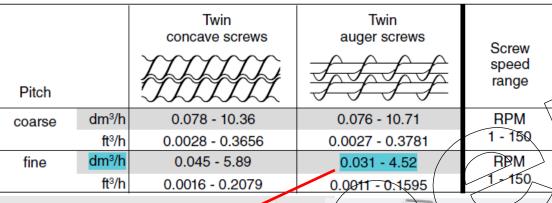






Technology

Proven Showcase of Accuracy, with Microfeeder MT12 – Saving No. 1 Hourly Material







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Assumed bulk density 0.5 kg/dm3

15 grams per hour.

250mg per minute

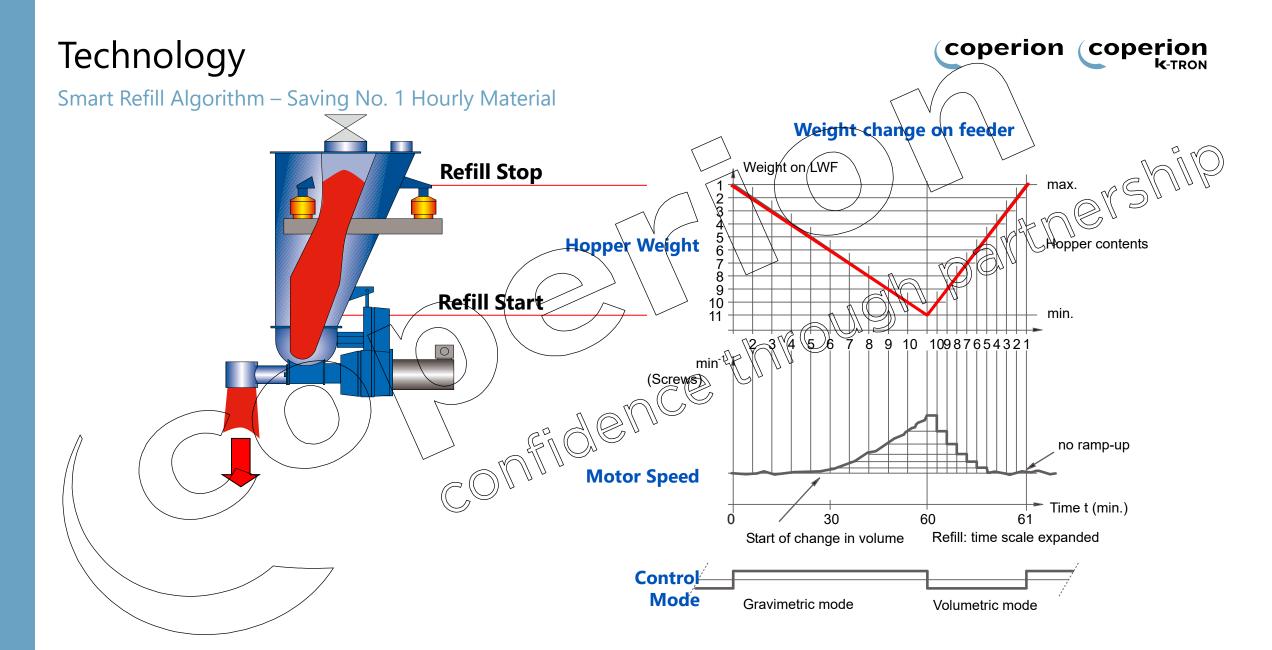
Weight of half a Paracetamol pill

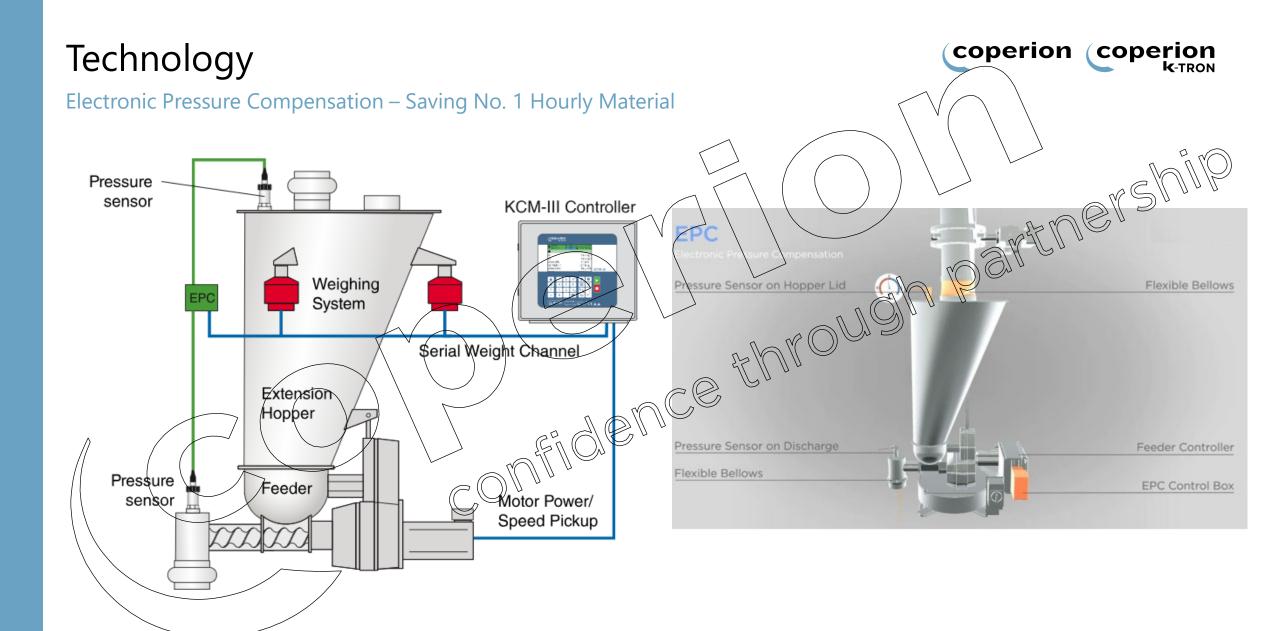












Technology

The Package Of Versatility – Reducing No. 2 Hourly Changeover Loss

Unprecedentedly High Turndown Ratio

Example:

2267/5.2 = 436!

(Maximum is 436 times of minimum)

The possibility of using the same feeder to feed different material when Line

recipe changed

Pitch		Twin_concave screws	Twin auger screws	Twin spiral screws	Double auger screws
coarse	dm³/h	2.9 - 1417	5(2-2267	3.4 - 1398	4.3 - 1712
pitch	ft³/h	0.1 - 50.02	2.18 - 80.03	0.12 - 49.35	0.15 - 60.43
fine	dm³/h	2.1 - 920	2.4 - 1370	1.82 - 1023	2.4 - 1254
pitch	ft³/h	0.07 - 32.48	0.08 - 48.36	0.06 - 36.11	0.08 - 44.27







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The Package Of Versatility – Reducing No. 2 Hourly Changeover Loss



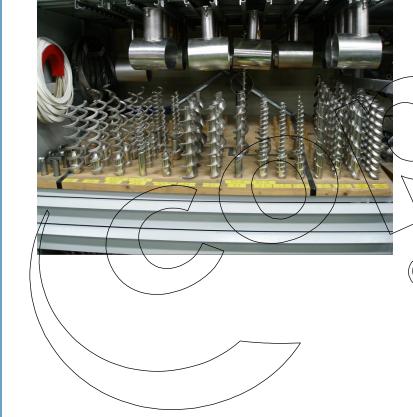
Engineering Plastic Seminar 2024 28/11/2024

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The Package Of Versatility – Reducing No. 2 Hourly Changeover Loss



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Single Spiral



Double Auger







Feeder Variety Showcase

Vibratory Feeder



To handle fragile non-uniform, abrasive materials

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tasy to clean

Low energy consumption

Feeder Variety Showcase





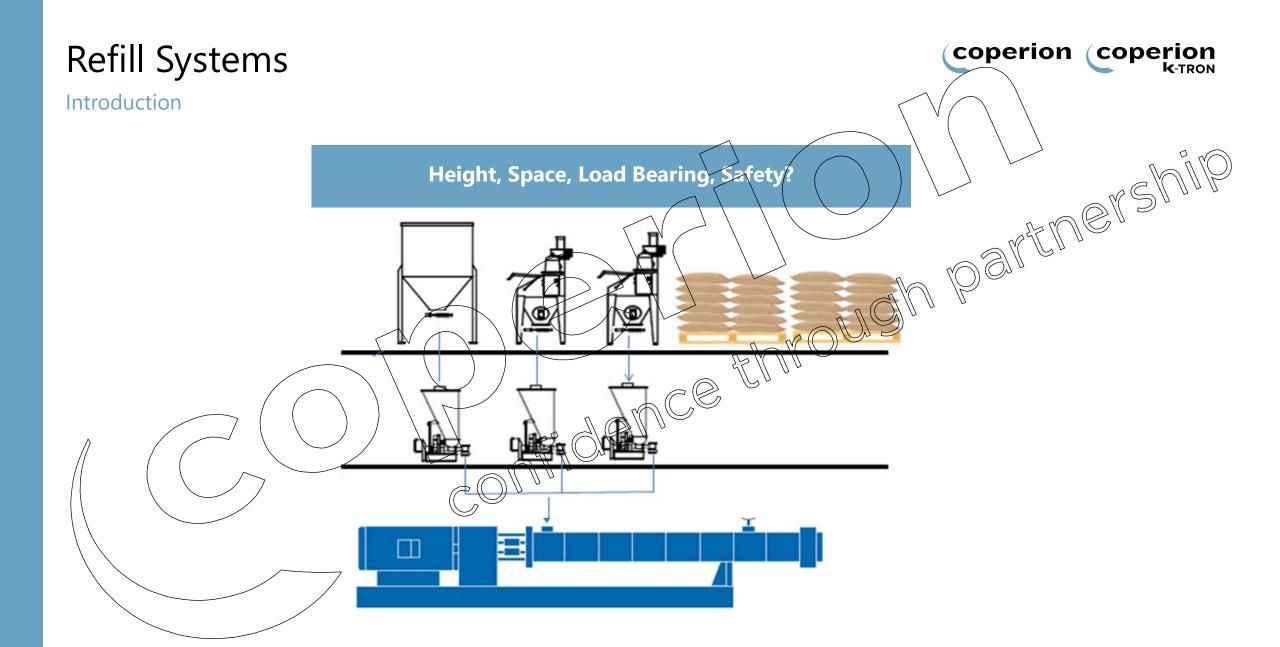
Smart Controllers

KCM / K-Vision

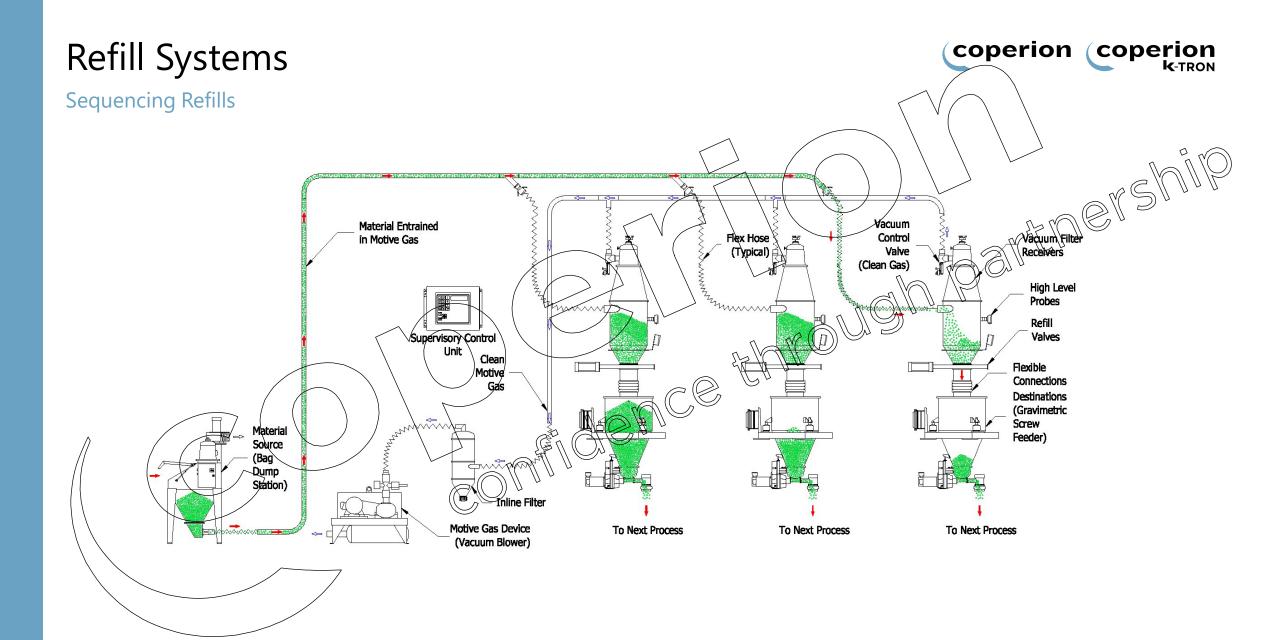


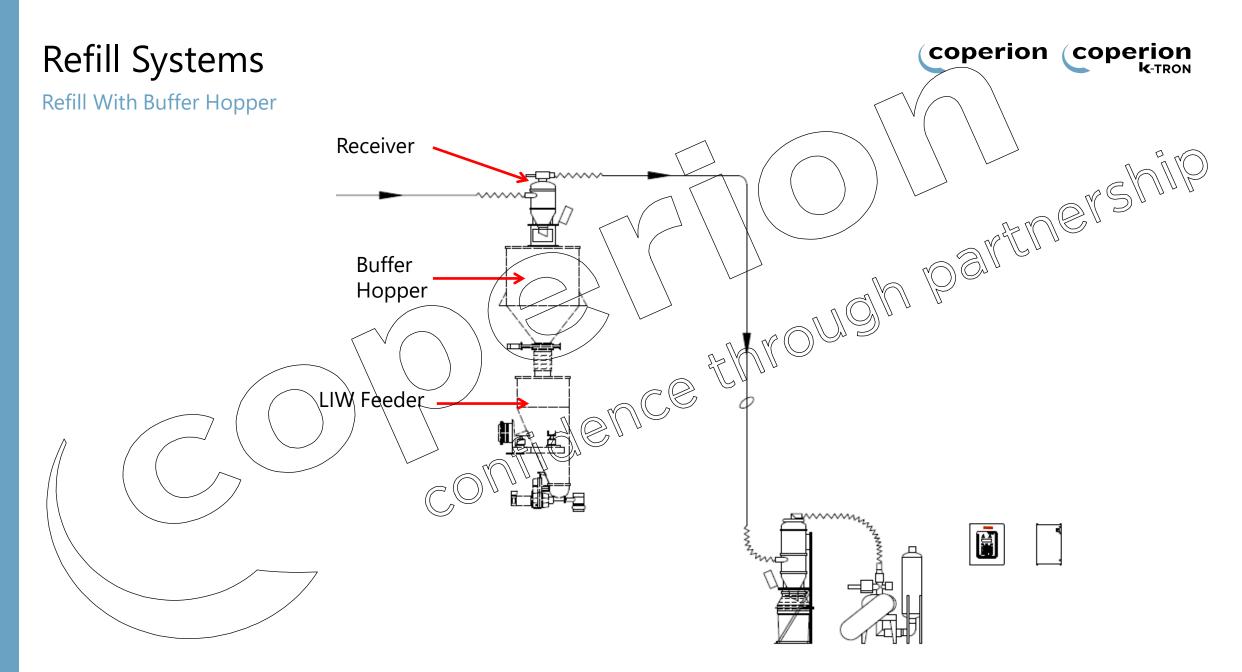






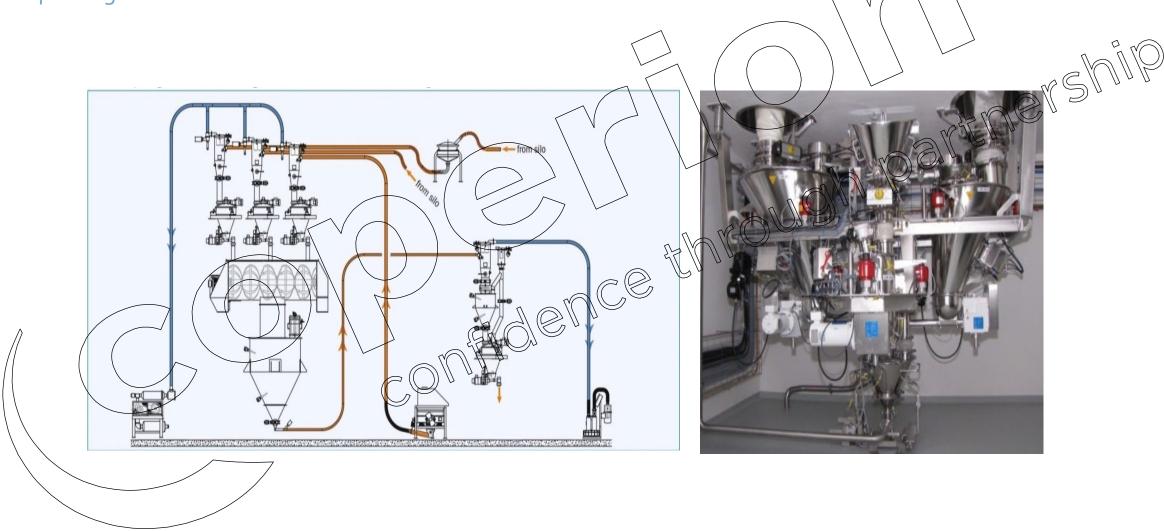
coperion coperion k-tron Refill Systems **Direct Refill** Filter Receiver LIW Feeder





Refill Systems

Sample Diagram And Photo



Refill Systems

Sample Photos

Receiver SS



Receiver hopper and secondary filter



Receiver painted







Refill Systems

Sample Photos

Blow through rotary valve with hopper

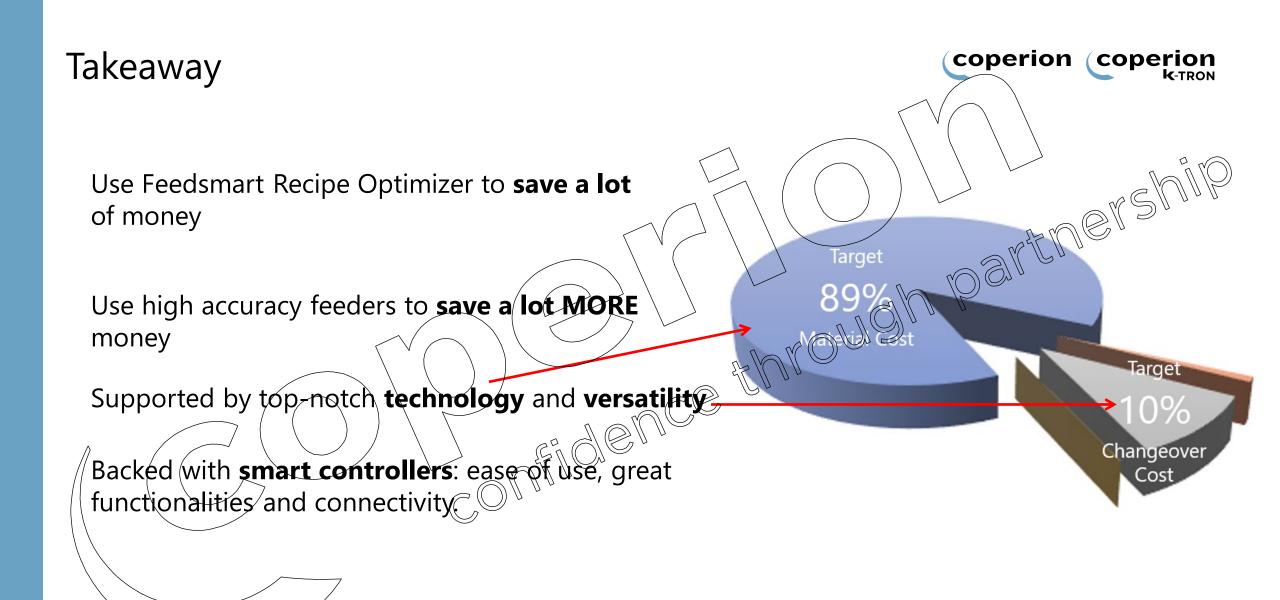






Diverter valve









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