Life Cycle Cost Comparison

Single Screw Feeder vs. Vibratory Feeder

LOSS-IN-WEIGHT FEEDERS are gravimetric feeders that directly measure the material weight to achieve and maintain a predetermined feed rate. They stand for:

- High accuracy
- Fast batching
- High control

Assumptions for the cost comparison:

- Throughput of about 1,000 kg/h
- Over a time span of 15 years
- Data from July 2021

	Single Screw Feeder	Vibratory Feeder
Procurement		
Purchasing Price	$17,000	$27,000
Start-up costs	$2,000	$2,000
Transport	$1,000	$1,000
Total Procurement Costs	**$20,000**	**$30,000**

Operating Costs

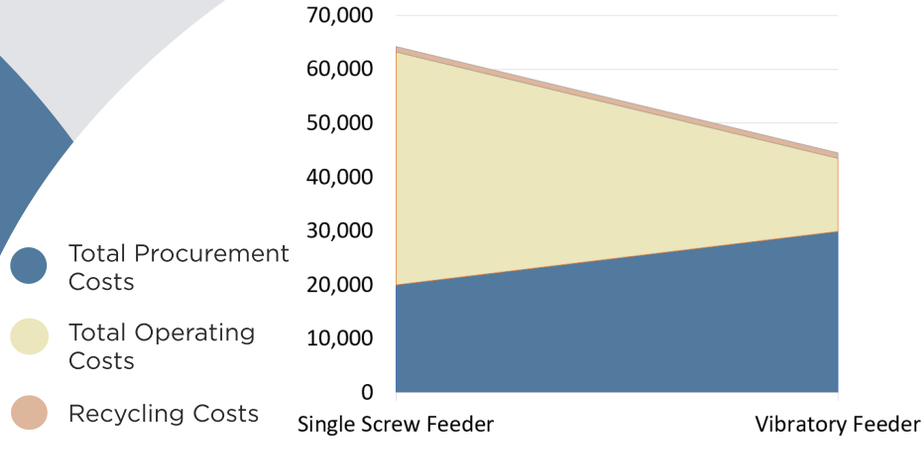
Spare Part Costs	$22,500	$7,000
Maitenance Costs	$2,250	$750
Cleaning Costs	$11,250	$5,625
Energy Costs	$7,200	$85.50
Total Operating Costs after 15 Years	**$43,200**	**$13,460**

Recycling Costs

Net Recycling Costs	**$1,000**	**$1,000**
Total Lifecycle Costs	**$62,550**	**$44,410**

Conclusion
Even though the K3 Vibratory Feeder from Coperion K-Tron is more expensive to purchase, it ends up being 30% cheaper over the course of 15 years. This is mainly achieved thanks to its high energy efficiency as well as low spare parts and maintenance costs.

Total Cost Comparison



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