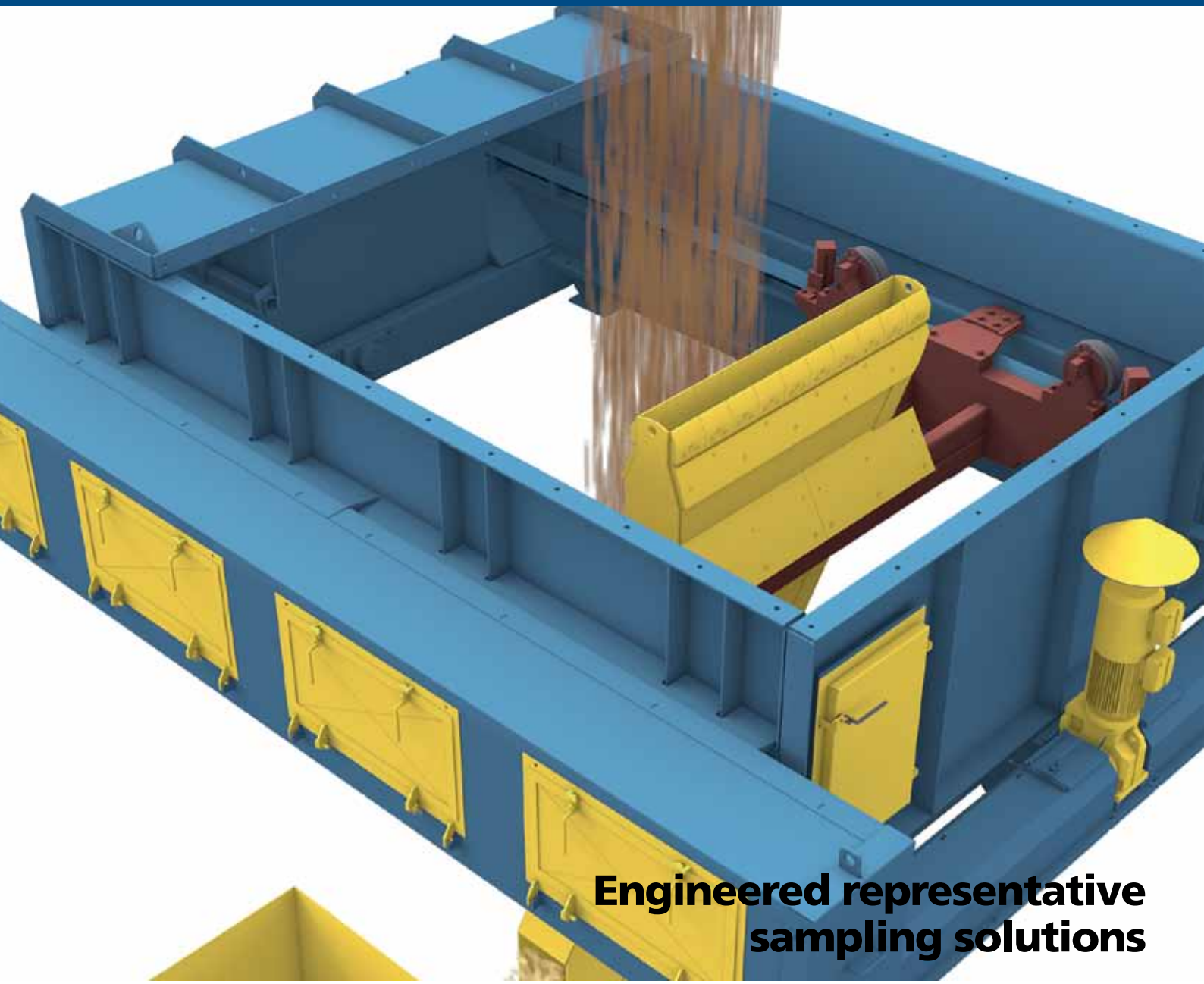
One Source

Essa® sampling systems



Engineered representative sampling solutions

FLSmidth

Engineered representative sampling solutions

Rotary sample collector

Essa® RSC Series
8 Bucket
5L or 10L capacity buckets

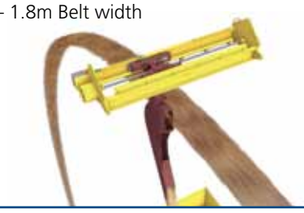
1

Ball screw linear primary & secondary samplers

Essa® BSLS 50 Series Samplers
< 5,000 TPH Feed rate
1.2 – 1.8m Belt width

Essa® BSLS 40 Series Samplers
< 3,000 TPH Feed rate
1.0 – 1.8m Belt width

2



Belt drive linear primary sampler

Essa® BDLS 63/80 Series Samplers
4,000 – 16,000 TPH Feed rate
1.2 – 2.5m Belt width

3

Rotary sample collector

Essa® RSC Series
Automatic lid sealing
Ergonomic design and robust construction

4

Synchronous belt drive linear primary sampler

Essa® SBD 3700 Sampler
7,000 – 16,000 TPH Feed rate
2.0m Belt width

5

Ball screw linear secondary samplers

Essa® BSLS 25 Series Samplers
< 500 TPH Feed rate
0.3 – 1.0m Belt width

6

Automated size fraction & moisture analysis robot cells

7





Sampler Type	Synchronous Belt Drive	Belt Drive Linear	Belt Drive Linear	Ball Screw Linear	Ball Screw Linear
Essa® Model Range	SBD 3700	BDLS 80	BDLS 63	BSLS 50	BSLS 40
Principle of Operation	Linear Cross Stream	Linear Cross Stream	Linear Cross Stream	Linear Cross Stream	Linear Cross Stream
Drive Mechanism	2 x Toothed Belts	1 x Toothed Belt	1 x Toothed Belt	Ball Screw	Ball Screw
Sampling Stage	Primary	Primary	Primary	Primary	Primary and Secondary
Feed Rate*	7,000 to 16,000 TPH	7,000 to 16,000 TPH	4,000 to 7,000 TPH	<5,000 TPH	<3,000 TPH
Maximum Conveyor Width**	2,0m	1,2m to 2,5m	1,2m to 2,5m	1,2m to 1,8m	1,0m to 1,8m
Pipe Diameter	n/a	n/a	n/a	n/a	n/a
Suitable for Slurry?	No	No	No	Yes	Yes




Sampler Type	Ball Screw Linear	Belt Drive Linear	Arcual	Vezin	Rotary Tube
Essa® Model Range	BSLS 25	BDLS 25	AS Range	VS Range	RTS Range
Principle of Operation	Linear Cross Stream	Linear Cross Stream	Arcual Cross Stream	Rotary Cross Stream	Rotary Cross Stream
Drive Mechanism	Ball Screw	1 x Toothed Belt	Direct	Direct	Direct
Sampling Stage	Primary, Secondary and Tertiary	Primary, Secondary and Tertiary	Primary and Secondary	Primary, Secondary, Tertiary and Quaternary	Primary, Secondary and Tertiary
Feed Rate*	<500 TPH	<500 TPH	<110 to 1,000 TPH	<8 to 110 TPH	<5 to 10 TPH
Maximum Conveyor Width**	0,3m-1,0m	1,8m	n/a	n/a	n/a
Pipe Diameter	n/a	n/a	150NB to 450NB	40NB to 150NB	Vibratory Feeder
Suitable for Slurry?	Yes	Yes	Yes	Yes	Yes

* Please note that feed rates quoted are general indications only. For the arcual and vezin samplers calculations are based on 60% pipe capacity, 2.5m/sec material velocity and a material pulp density of 1.2. When selecting the correct sampler for an application it is important to model individual customer data to accurately understand the system requirements and installed equipment performance.

** Maximum conveyor width guidelines are based on sampler stroke length. The number of cutter spoons and the cutter spoon aperture size will effect available stroke length in relation to belt width.

www.flsmidth.com/samplers

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