

- 1 Benefits of flour blending
- 2 Continuous flour blending system
- 3 Flour mixing with batch mixer
- 4 Flour services



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### Benefits of flour blending.

- homogeneous and consistent flour quality
- tailor made flour according to bakers requirement
- Quick reaction time to individual customer requests
- Efficient way to produce a large variety of flours





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## Continuous flour blending system.

Volumetric flour blending.

#### **Characteristics:**

- High throughput at low invest
- Low space requirements
- Low variety and high quality
- Simple recipes





### Continuous flour blending system.

Gravimetric feeding with Graviscrew MSDR.

#### **Characteristics:**

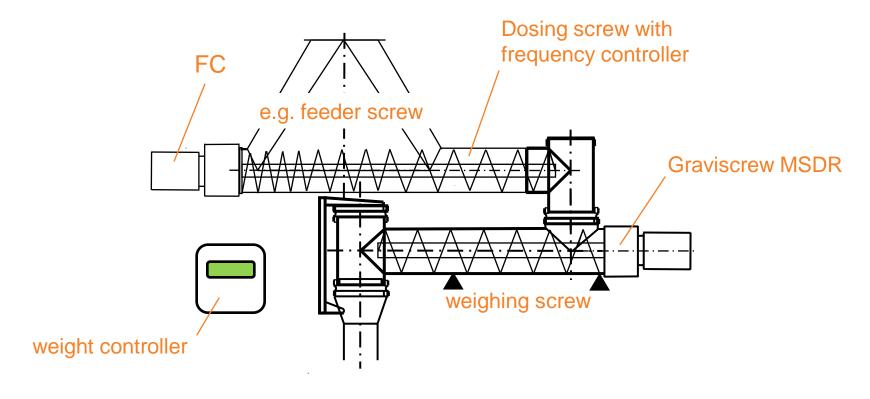
- Gravimetric dosing and metering with continuous weight recording
- Low installation height
- Rugged design
- Accuracy approx. 1.5% if calibrated with a scale





### Graviscrew MSDR.

Function as flow regulator.

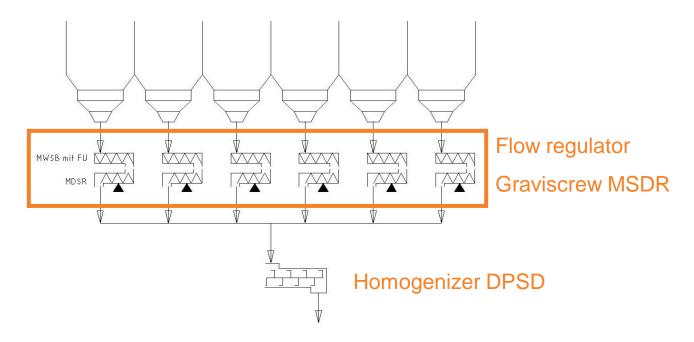






### Application of Graviscrew MSDR.

Continuous blending flow regulation with weight recording.



Easy upgrade of existing finished product silos



### Differential dosing scales.

Loss-in-weight principle with high accuracy



MWBO for main components 1 - 60 m<sup>3</sup>/h



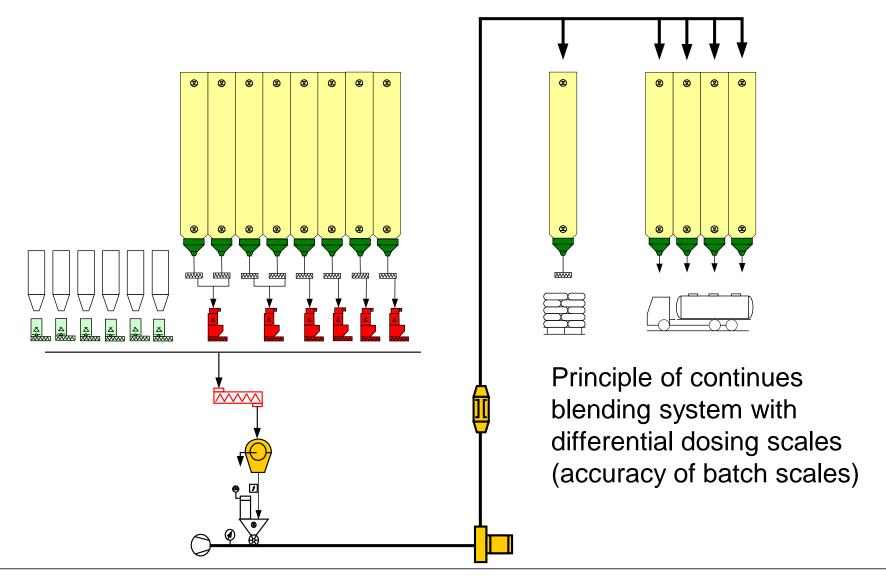
MSDA for minor components 0.2 - 6 m<sup>3</sup>/h



MSDA for micro components 0.2 - 1000 dm<sup>3</sup>/h



### Blending system with loss-in-weight feeder MWBO.





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### Batch blending plant.

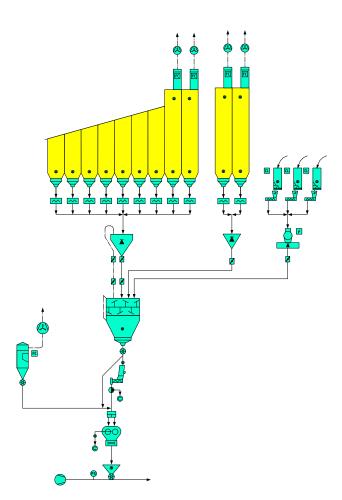
#### Where to use

- Capacities up to 40 t/h
- Ideal for large varieties of recipe changes
- Recipe with many components (macro, minor and micro components)

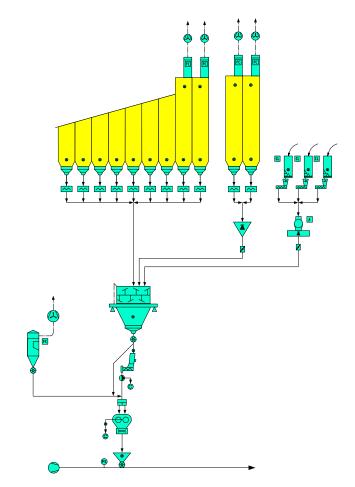




## Overview batch mixing concepts.



3-stages blending with weigher



2-stages blending with integrated weigher



### Bühler's new MRMA Sanimix.

Achievement	Paddle Mixer (MKMA-P	Chopper M	Chopper Mixer (MRMA-C)	
Application	Dry mixes	Specialty m dissolution	Specialty mixer with solids dissolution	
Useable volume		GIOGOIGHIOII		
500l	1000l	2000ℓ	4000ℓ	



# High Sanitation.

- Smooth surface, no gaps, no pockets no corners
- All parts in stainless steel
- No product cross-contamination





## Access for cleaning.

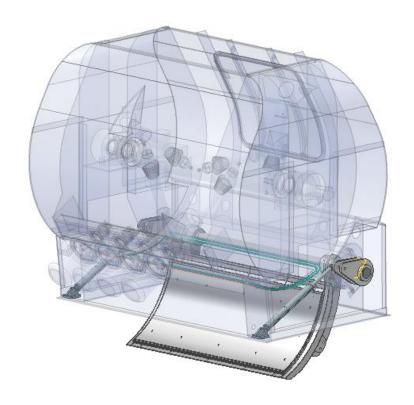
- Large service door
- Easy access to all areas inside the mixer
- Fast opening and closing
- Short cleaning time





### Quick emptying time.

- Emptying time less than 20 sec
- Residue free discharge
- Mixer opening over the entire bottom length
- Bottom flap drive element are placed outside the mixing chamber (no contact with product)





### Premix - Mix line with 3 mixers.





### Sanimix MRMA-4000-C.







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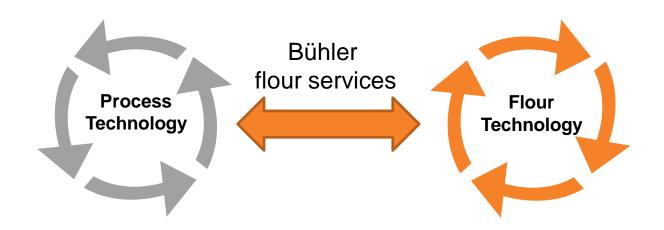


### Flour services.

Tailor made flour.

### **Equipment / Technology / Training**

Product improvements / Application / Training



**Total solution partnership** 



# Bakery Innovation Center.







# Flour blending plants.

Benefits for the miller.

- Homogeneous and consistent flour
- Tailor made to customer requirements
- Specialty flour carry higher margins





www.buhlergroup.com