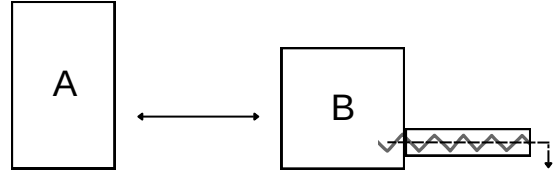


## Single Screw Feeder with Agitation

### Typical application of AS60:

- A. Motor Control
- B. Single Screw Feeder





### Description

Orbetron feeders have been designed to have a wide range of flexibility for the different bulk solid materials and throughput ranges. Our universal single screw feeder AS60 is suitable for feeding granules, pellets, free and non-free flowing powders, regrind materials, flakes, and fibers.

The AS60 is designed with a multiple-wing agitator ensuring full agitation of the entire ingredient compartment. The multiple-wing agitator eliminates bridging and induces free material flow and an optimum screw-filling level for consistent linear mass flow. On all mechanical connections for the material inlet and outlet of the feeder, it is possible to mount different accessories to reach the highest performance and precise accuracy in the desired application. The feeder can be used in a single standalone application or it can be integrated into a multiple feeding system.



### Dosing Performance

Screw Type		S 					F 				
		Spiral					Full-Flight				
Gear Reducer	Speed (rpm)	Ø 50 x 50 dm <sup>3</sup> /h	Ø 43 x 80 dm <sup>3</sup> /h	Ø 30 x 32 dm <sup>3</sup> /h	Ø 20 x 20 dm <sup>3</sup> /h	Ø 15 x 15 dm <sup>3</sup> /h	Ø 50 x 70 dm <sup>3</sup> /h	Ø 50 x 50 dm <sup>3</sup> /h	Ø 32 x 32 dm <sup>3</sup> /h	Ø 17 x 17 dm <sup>3</sup> /h	
7:1	8-617	20-1380	60-4600	5-400	2-140	1-45	65-5350	45-3500	15-900	1-60	
15:1	4-288	10-640	30-2150	3-180	1-65	1-20	35-2500	25-1630	5-420	1-25	
28:1	2-154	5-340	15-1140	2-100	1-35	1-10	20-1330	10-870	3-220	1-15	
Gear Reducer	Speed (rpm)	Ø 50 x 25 dm <sup>3</sup> /h	Ø 43 x 40 dm <sup>3</sup> /h	Ø 30 x 16 dm <sup>3</sup> /h	Ø 20 x 11 dm <sup>3</sup> /h	Ø 15 x 11 dm <sup>3</sup> /h		Ø 50 x 25 dm <sup>3</sup> /h	Ø 32 x 16 dm <sup>3</sup> /h	Ø 17 x 11 dm <sup>3</sup> /h	
7:1	8-617	10-580	25-1850	5-160	1-55	1-30		20-1530	5-370	1-35	
15:1	4-288	5-270	10-640	1-75	1-25	1-15		10-710	2-175	1-15	
28:1	2-154	2-140	5-340	1-40	1-15	1-8		5-380	1-90	1-9	



## Design

- Compact feeder and gearbox design
- High modularity for easy dismantling and cleaning
- Horizontal material outlet discharge
- Tool-free change of the feeder screw
- Applicable for twin screw spiral, auger, and concave screws
- All metal parts which are in material contact are in stainless steel 1.4404 (AS1316L)
- Mechanical gearbox with lifetime lubrication
- Motor configuration AC, DC
- Operating and material temperature  $-20..60^{\circ}\text{C}$  ( $-4..130^{\circ}\text{F}$ )
- Gearboxes in the sizes of 7:1, 15:1, 28:1, STD
- Weight without accessories 33 kg
- Color outside light grey

## Options

- Compact feeder and gear box design
- High modularity for easy dismantling and cleaning
- Horizontal material outlet discharge
- Tool free change of the feeder screw
- Applicable for single spiral and auger screws
- All material contact metal parts are stainless steel 1.4404 (AS1316L)
- Mechanical gear box with lifetime lubrication
- 370W DC motor with speed control in protection class IP 54
- Operating and material temperature  $-20..60^{\circ}\text{C}$  ( $-4..130^{\circ}\text{F}$ )
- Gear boxes in the sizes of 7:1, 15:1, 28:1
- Weight without accessories 33 kg
- Color outside light grey RAL7035 Unit conforms to directives.

## Drawings

