

AWELD MIXERS

Technical solution

The de-airing chamber, the extruder chamber and the body of mixer including the gearbox baseplate, are made as a weldment from steel plate. The augers and paddles are also welded from steel and they are provided with the wear resistant hardfacing Aweld Standard.

The augers and paddles are designed so that the nave protect the mixer shafts against wear.

The extruder chamber is divided in the axis of the shafts for easy assembly and disassembly of the augers and paddles. The lining in the auger chamber of the mixer are made of steel plate with straight strips with welded chromium carbides.

The mixer troughs can be produced with or without steam system.

The raw material is extruded by the augers through screens into a vacuum chamber. The screens are replaced by a hydraulic mechanism. This allows the screens to be cleaned or replaced without opening the vacuum chamber or disassembling the mixer. The screens will therefore be cleaned without any outage in production.

The mixer shafts are overhung mounted. Overhung mounting of the shafts reduces the possibility of air being sucked in around the bearings in the vacuum chamber and thus reducing the vacuum.

The mixer is driven by an electric motor via a belt drive and an epicyclic gearbox on one of the mixer shafts. The other shaft is driven by a gear. It is also possible to deliver a version with a bevel gearbox. Smooth machine start-up and speed regulation is controlled by a frequency converter.

The vacuum chamber has a square flange that allows the connection of the twin-shaft mixer to an extruder both parallel to the main shaft of the extruder and perpendicular to the main shaft of the extruder.

Technical specifications:

<i>Mixer type</i>	<i>Spiral worm diameter [mm]</i>	<i>Mixing trough length [mm]</i>	<i>Machine output [m³ of raw material/hour]</i>	<i>Main motor power [KW]</i>	<i>Weight approx. [t]</i>
AM 25S	250	2000	max. 5	max. 30	1.5
ADM 40S	400	2000	max. 20	max. 45	3
ADM 50S	500	2000	max. 40	max. 75	5
ADM 55S	550	2450	max. 50	max. 90	8
ADM 60S	600	3200	max. 55	max. 110	9.5

Note: AM 25S – a single-shaft mixer