

Conical Twin Screw Extruder



MAS의 동방향 회전 2축 원추형 압출기는 구조적 특성으로 인해 원료투입구가 배출구 보다 아주 커서, 재생플라스틱의 가공이나 **WPC(Wood Plastic Composite)**, 컴파운딩용으로 광범위 하게 적용되고 있습니다.

- Excellent quality, also without drying possible
- Minimum IV-Loss
- Excellent b* values
- Excellent results regarding AAcontent

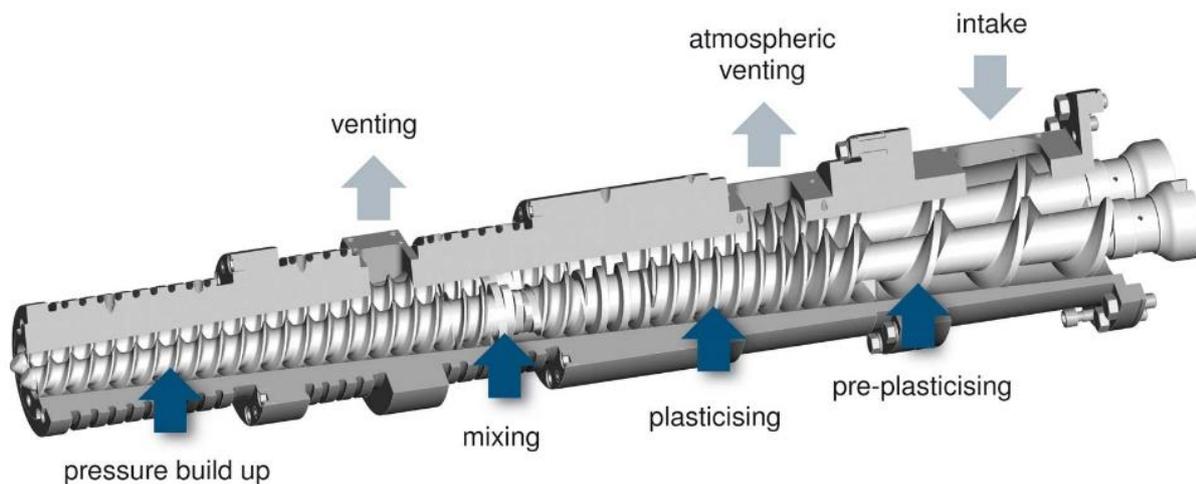
- Recycling (production waste / post consumer)
- Injection moulding
- Sheet extrusion
- Fibre recycling / production

MAS' technology is based on a conical, co-rotating twin screw extruder. The excellent process engineering characteristics of MAS-extruders are achieved first and foremost by the high disposable volume and high coverage of the co-rotating screw shaft. Due to the conical design the intake volume is significantly greater than the discharge volume, resulting in an extremely high screw filling level. This leads to high volume throughput per revolution with excellent melt pressure stability and at the lowest possible melt temperature.

The technology benefits:

- large input volumes and thus excellent feeding characteristic
- high melt pressure build-up and maximum pressure stability, thus removing the need for a melt pump in most cases
- large shaft diameters allow for high torque
- easy removal of the screw via the rear of the extruder
- excellent homogenisation characteristics
- excellent feeding behaviour results in a short melt retention time in the extruder at low melt temperature
- extremely low specific energy consumption

Type [Ⓟ]	Material [Ⓟ]	Output [Ⓟ]
MAS 24 [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	20 - 30 kg/h [Ⓟ]
MAS 45 [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	100 - 250 kg/h [Ⓟ]
MAS 55L (Cascade optional) [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	300 - 600 kg/h [Ⓟ]
MAS 75 (Kaskade optional) [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	600 - 1,100 kg/h [Ⓟ]
MAS 90 (Kaskade optional) [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	900 - 1,400 kg/h [Ⓟ]
MAS 93 (Kaskade optional) [Ⓟ]	e.g. PE / PP / PS / PET [Ⓟ]	1,200 - 2,000 kg/h [Ⓟ]



MAS-extruder's screw assembly consists of a feeder and an extractor screw. Each of them is manufactured from one piece and available in a number of different pitches and number of starts. The mixing and shearing parts are customised to reflect the buyer's individual requirements. The cylinder zones are equipped with heating shells and liquid cooling. The three-part cylinder can also be modified to match customer requirements. (with/without degasification, position of degasifying aperture etc.).

The mixing and plasticizing capacity is set by replacing the screw elements. Due to the conical design, an extremely fast screw changeover is possible. The downstream equipment remains in situ, the cylinder is swivelled out and the screws can be pulled out to the rear without further tools.