MAS
Maschinen und Anlagenbau Schulz GmbH

Simply multifunctional, highly profitable:
the MAS extruder exceed your expectations.

The New Conical Technology (NCT) developed by MAS combines the benefits of conical extruders with those of parallel co-rotating twin screw extruders. The co-rotating design provides perfect homogenisation. Generously dimensioned screw shafts paired with strong back pressure bearings result in an extremely robust design with a long service life. This makes them the perfect solution for highly efficient compounding and processing of polymers with fillers and additives.

WPC Profile Extrusion

The MAS twin screw extruder provide ist stamp on future material extrusion.
A wide range of products made of WPC can be compounded using PE, PP or PVC.
These commonly contain up to 80% fibre.

Recycling

Due to the versatile applicability, MAS compact systems are ideal for all impurities, which can be removed by friction, such as sand, soil or organic fibre contamination on fabrics and films.
These materials are compounded into high quality pellets. The MAS compact system combines dry cleaning and extrusion.

PET Processing

The conical, co-rotating MAS extruder offers a wide range of applications, like the production of high quality pellets or direct extrusion from various PET into sheet or fibres. The MAS extruder offers extraordinary performance when different PET input qualities are processed - e.g. resin pellets with flakes for producing pre forms or thermoforming film for packaging.

Compounding

Many compounding products demand gentle processing, minimal shear and clearly defined energy input. The conical MAS Co-rotator offers extremely high torque and high intake volumes. Substantially reduced rotational speeds mean significantly less energy input and considerably lower polymer melt shear. Consequently, this gentle processing allows the homogenisation of particularly light starting material and thermally sensitive polymers.

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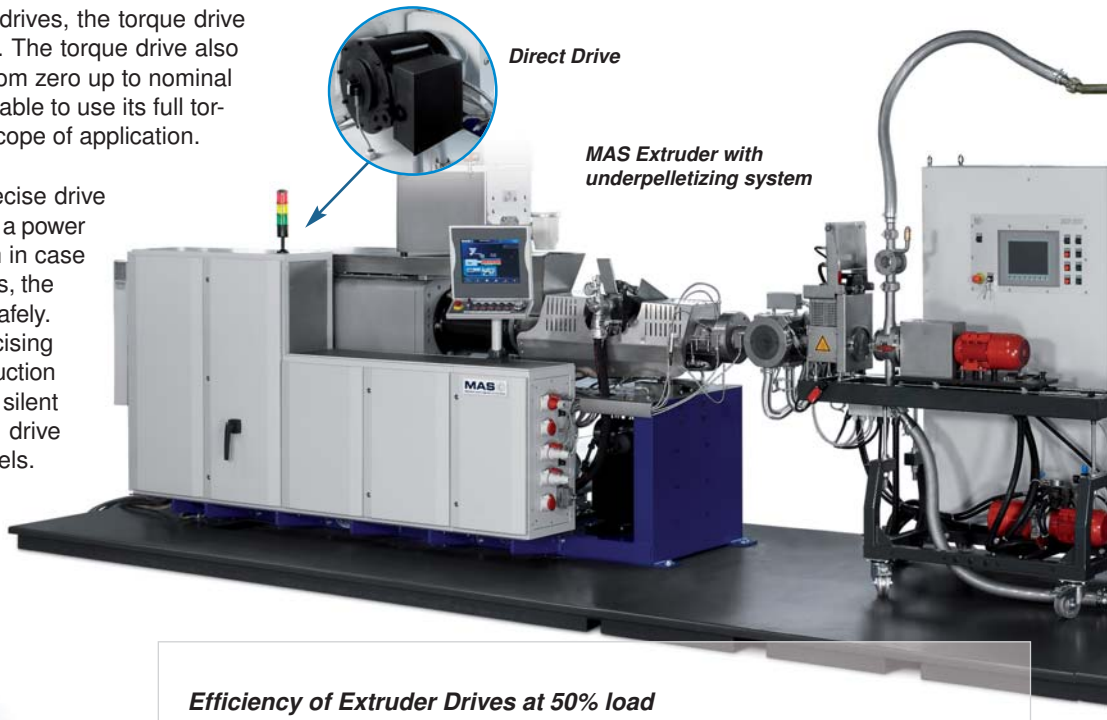
Simply smart, highly efficient:
MAS technology and drive concept.

MAS Extruder with direct drive

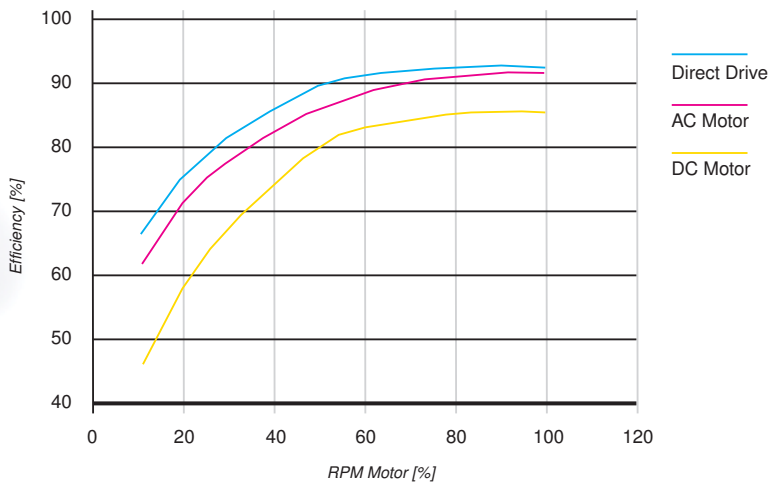
The conical co-rotating MAS extruder offers energy savings of up to 40%. The extruder, developed by MAS, boasts the processing advantages of a parallel co-rotating machine, while its conical co-rotating design is capable of accommodating significantly higher pressures and moments. Optimum filling of the screws results in less energy consumption. Processing of thermally sensitive polymer requires high specific output at low screw speed leading to a low melt temperature and a process gentle on the material.

In comparison with various extruder drives, the torque drive provides up to 10% higher efficiency. The torque drive also offers a constant maximum torque from zero up to nominal speed. Consequently the extruder is able to use its full torque which essentially increases its scope of application.

As the torque is controlled with a precise drive control unit, the robust design permits a power transmission without couplings. Even in case of an overload caused by foreign parts, the control unit switches off the extruder safely. Due to its compact design, the plasticising unit can be easily integrated into production lines. In addition the torque drive runs silent and is maintenance free. The torque drive is available for all MAS extruder models.



Efficiency of Extruder Drives at 50% load



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