

BLOWN FILM



MAC EXTRUDER

OVERVIEW

Davis-Standard's range of MAC Extruders are specifically designed for blown film processing using a unique, high capacity air cooling system that approaches the effectiveness of water cooling. These extruders feature DSB screws and bi-metallic barrels for superior processing of a wide range of resins with excellent melt homogeneity, lower temperatures and stable pressures at high outputs.

KEY FEATURES

- Air cooled extruders using a single blower for high volume cooling
- Standard sizes of 50 mm (2") to 200 mm (8") 30:1 L/D with optional 24:1
- DSB screws for superior processing of resin mix providing excellent melt homogeneity at low melt temperatures typically at 1°C and 1% pressure
- Bi-metallic DS 1000 barrels for abrasion and corrosion resistance and long operating life
- Rigid extruder base to resist torsion and deflection and to act as the exhaust plenum for the cooling system
- Wrap around or in-line motor configuration to suit your installation requirements and operator needs
- Davis-Standard rugged gear case with hardened gears for increased torque, long life, low maintenance and low noise
- T Box - onboard "remote" control panel for "plug and play" installation
- Fast delivery

MAC EXTRUDER

DRIVE TRAIN AND GEAR REDUCER

- AC motors and drives
- Engineered to permit a wide range of speed and power capabilities
- Direct coupled or belted to 100 mm size
- Designed for greater rigidity, proved thermal capacity, longer life and quiet operation
- Optional DRV model available for < 80 dba
- Splash or circulating oil lubrication systems are available

OPTIONS

- Barrel liners DS 1000 or 8000
- Dual air dampers for each zone on 6" (152.4 mm) and larger models, engineered for increased air displacement
- Screw cooling
- PIB injection
- DRV Low Noise Gearbox
- Grooved feedsection designs
- Wheels for co-extrusion
- Base mounted controls, pre-wired and tested
- Custom centerline heights

EXTRUDER SPECIFICATIONS

Extruder Size	2"	2.5"	75 mm	3.5"	100 mm	4.5"	130 mm	6"	165 mm	8"
Nominal	50 mm	65 mm	3"	90 mm	4"	115 mm	5"	150 mm	6.5"	200 mm
Barrel L/D Ratio	30:1	30:1	30:1	30:1	30:1	30:1	30:1	30:1	30:1	30:1
Typ Motor KW	30	56	75	112	149	186	224	298	373	447
Thrust Bearing Ratio (@100 RPM and 5000 PSI Head Pressure [L ₁₀ Hrs])	398,000	544,000	179,000	421,000	192,000	453,000	192,000	509,000	300,000	179,000
Heat Zone Data (Barrel Zones over KW per Barrel Zone)	4 5.6	5 7	6 7	5 11	6 11	6 15.6	7 15.6	6 24	7 24	6 33
Plant Water Requirements	4 GPM 15 LPM	4 GPM 15 LPM	4 GPM 15 LPM	5 GPM 19 LPM	5 GPM 19 LPM	8 GPM 30 LPM	12 GPM 45 LPM	14 GPM 53 LPM	14 GPM 53 LPM	24 GPM 91 LPM

Other sizes and specifications are available, motor sizes may vary depending on manufacturer.

