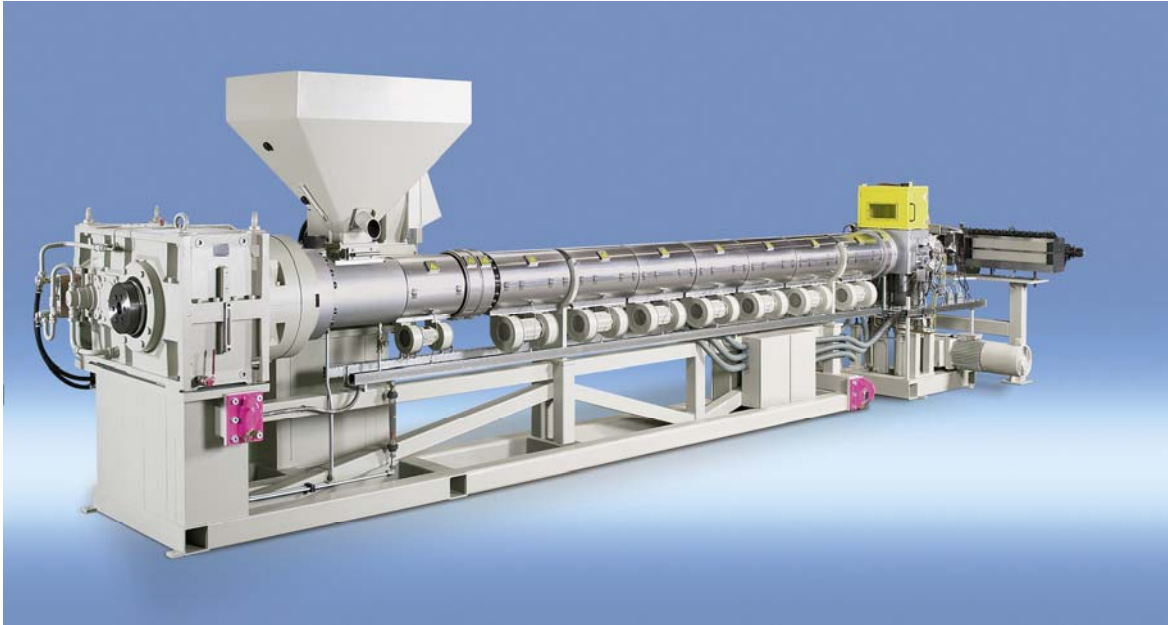


Single Screw Smooth Bore Extruder

Technical *report*



1-180 Smooth Bore Extruder

Characteristics

American Maplan extruders are designed to accommodate a wider processing range, delivering a high output rate with low energy consumption. They are available with either AC or DC motor and drives. Designed for high performance and high quality, these machines are built for durability, ease of operation and low maintenance.

Standard Features:

- Air cooled
- Completely prewired
- Vented or nonvented barrel
- Heavy duty gearbox
- Screw designed for process requirements

Advantages:

- Stable metering of virgin or regrind metal
- Designed to accommodate a wide processing range
- Processing stability at higher rates
- Adaptable to most materials through extruder and feedscrew design
- Higher degree of regrind can be processed without changing process parameters
- Superior screw design for best possible melt, mix and metering and easy maintenance

Smooth Bore Single Screw Extruder

Options:

- Water cooled barrels
- Right or left hand operation
- Bi-metallic barrel
- Remote mounting of operator station
- Automated process controls
- Vacuum pumps for vented operation
- Melt Pumps
- Static Mixers
- Screen Changers



Screw removal from rear of machine

Technical data

Model	SS-45-30	SS-60-30	SS-75-30	SS-90-30	SS-120-30	SS-150-30
Drive [hp]	50	125	150	225	400	500
Screw Diameter [mm]	45	60	75	90	120	150
Max Design Barrel Pressure [psi]	10,000	10,000	10,000	10,000	10,000	10,000
Screw Length [L/D]	30	30	34	30	30	30
Barrel Heat/Cool Zones	4	5	5	5	5	6
Total Barrel Heating [kw]	9.1	12.8	20.4	21.6	51.0	81.4
Total Water Consumption [GPM]	6	8	12	15	16	20
Approx. Total Capacity [kw] (Motor/Barrel)	36.1	64.8	94.4	140.6	411.0	638.4
Extrusion Centerline [mm]	1080	1080	1080	1080	1194	1194
Length [mm]	2743	3581	4039	4674	5029	6096
Width [mm]	1321	1422	1422	1626	2184	2388
Height with Hopper [mm]	1905	1905	2159	2159	2464	2819
Approx. Total Weight [kg]	2540	3085	3400	3900	7260	10,890
Typical Output [kg/hr] PET*	70	200	300	450	800	1200
Typical Output [kg/hr] PP*	50	200	320	500	900	1200
Typical Output [kg/hr] HIPS*	100	270	420	750	1200	1500
Typical Output [kg/hr] GPPS*	70	220	320	550	1000	1300

*Output dependent on material and bulk density

In the interest of continuing development, we reserve the right to amend any specification without notice.



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Revised 6/2007

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