

Transforming Lives.
Transforming Materials.



omega • mega SPECIAL • alpha

Advanced Co-rotating Twin Screw Extruder

omega

Advanced Co-rotating Twin Screw Extrusion: Omega 1.71 Do/Di



Applications

- Long Fiber Reinforced
- Thermoplastics (LF RTP)
- Halogen Free Flame Retardant
- Compounds
- Compounds of all Engineering
- Polymers: PA, PC, PEEK, PEK,
- PSU, PU, PES, PEI
- XLPE
- Polymer Blends
- Halogenated PVC
- Reactive Processing
- Speciality Polymers
- Thermo Plastic Elastomer /
- Vulcanisers
- Devolatilization or degassing
- TPO, TPVs
- Thermo Set Polymers
- Nano-particle Compounding
- Automotive Compounds
- Color Masterbatch
- Natural Fiber (Jute) Filled Composites
- Bio Polymers
- Impact modified PP
- Difficult to process materials & many other applications that need residence time to be as low as possible
- Highly metal ceramic filled polymer
- Shear sensitive polymers
- WPC

omega

Series Technical Specifications

SI No.	Extruder Model	Screw Diameter (mm)	Power (kW)	Screw Speed (rpm)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	OMEGA 20	19.6	10	1200	40	9.8
2	OMEGA 25	26	18	1200	72	7.7
3	OMEGA 30	29.7	37	1200	147	10.6
4	OMEGA 40	39.7	90	1200	360	11.0
5	OMEGA 50	49.7	181	1200	720	11.3
6	OMEGA 60	59.7	352	1200	1,400	12.7
7	OMEGA 70	73	645	1200	2,565	12.8
8	OMEGA 75	75	694	1200	2,760	12.8
9	OMEGA 80	80	842	1200	3,350	12.8
10	OMEGA 95	95	1,194	1000	5,700	13.0
11	OMEGA 110	108	1,385	800	8,268	13.0
12	OMEGA 125	122	1,994	800	11,900	13.0
13	OMEGA 140	138	2,899	800	17,303	13.0

SI No.	Extruder Model	Screw (mm)	Power (kW)	Screw Speed (rpm)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	OMEGA 30H	29.7	50	1200	200	14.5
2	OMEGA 40H	39.7	138	1200	550	16.8
3	OMEGA 50H	49.7	270	1200	1,075	16.8

megaSPECIAL

Advanced Co-rotating Twin Screw Extrusion: Mega Special 1.55 Do/Di



Applications

- Polymer blends
- Automotive Compounds
- Short Fiber Reinforced –
- Thermoplastic Compounds
- PP impact modifier
- Color Compounds
- Thermo Plastic Vulcanizates

mega

SPECIAL

Series Technical Specifications

Sl No.	Extruder Model	Screw Diameter (mm)	Power (kW)	Screw Speed (rpm)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	MS 20	19	10	1200	40	9.8
2	MS 25	26	29	1200	115	11.6
3	MS 28	28	47	1200	188	13.6
4	MS 30	32	75	1200	300	15.4
5	MS 40	40	128	1200	510	13.6
6	MS 50	50	246	1200	980	13.7
7	MS 60	58	377	1200	1,500	13.6
8	MS 70	70	686	1200	2,730	13.6
9	MS 80	81	1030	1200	4,100	13.6
10	MS 90	92	1500	1200	6,000	13.7
11	MS 100	104	1812	1000	8,650	13.6
12	MS 120	118	2077	800	12,400	13.6
13	MS 130	133	3000	800	18,000	13.5

			Speed	625 RPM		750 RPM		1000 RPM		1200 RPM	
Sl No.	Extruder Model	Screw Diameter (mm)	Power (kW)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	MS 25 Plus	25.5	18.0	125	12.6	115	11.6	85	8.6	70	7.0
2	MS 30 Plus	32	45.0	300	15.4	280	14.4	185	9.5	155	8.0
3	MS 40 Plus	40	75.0	560	14.9	480	12.8	370	9.8	300	8.0
4	MS 50 Plus	50	160.0	1100	15.4	980	13.7	730	10.2	636	8.9
5	MS 60 Plus	57.8	250.0	1700	15.4	1500	13.6	1130	10.2	995	9.0
6	MS 70 Plus	70.5	450.0	3200	16.0	2710	13.5	2020	10.1	1,790	8.9
7	MS 80 Plus	81	630.0	4700	15.6	4000	13.3	3000	10.0	2,500	8.3
8	MS 90 Plus	91.8	950.0	6900	15.7	6000	13.7	4500	10.3	3,750	8.5
9	MS 100 Plus	104	1350.0	10177	16.0	8595	13.5	6440	10.1	5,360	8.4

ALPHA

Advanced Co-rotating Twin Screw Extrusion: Alpha 1.49 Do/Di



Applications

- Color masterbatches
- Composites
- Alloys & Blends
- Thermoplastic Elastomer / Vulcanizate
- Specialty polymers: PEEK, PAEK, PEK, PEI
- Mineral Filled Polymers

ALPHA

Series Technical Specifications

SI No.	Extruder Model	Screw Diameter (mm)	Power (kW)	Screw Speed (rpm)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	Alpha 18	18.5	10	1200	40	9.8
2	Alpha 25	24.5	18	1200	72	7.7
3	Alpha 30	28	37	1200	147	10.6
4	Alpha 40	37.5	90	1200	360	11.0
5	Alpha 50	47.5	181	1200	720	11.3
6	Alpha 60	56.5	377	1200	1,500	13.6
7	Alpha 70	70	686	1200	2,730	13.6
8	Alpha 80	80	1030	1200	4,100	13.6
9	Alpha 90	90	1257	1000	6,000	13.6

SI No.	Extruder Model	Screw Diameter (mm)	Power (kW)	Screw Speed (rpm)	Nominal Torque per shaft (Nm)	Specific Torque (Nm/cm ³)
1	Alpha 30S	28	55	1200	220	15.9
2	Alpha 40S	37.5	131	1200	520	15.9
3	Alpha 50S	47.5	250	1200	995	15.5

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