

www.specificgroup.com

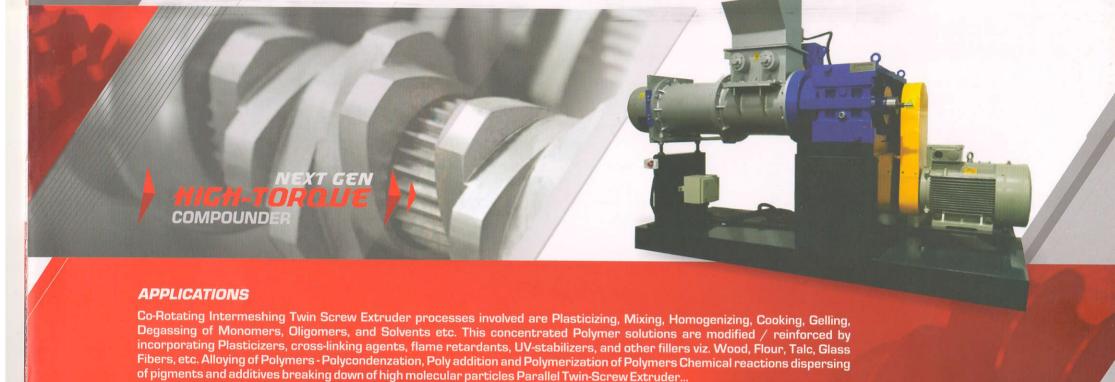
INNOVATIVE

TECHNOLOGY

CO-ROTATING INTERMESHING TWIN SCREW EXTRUDER







PLASTIC & ELASTOMER

- PEEK, PES, PA6, PA66, ABS, Polystyrene, PET, PC
- Long Fibers Compounds (LFT Techonology) PP, PA6, PA66,
- Reinforced Compounds Glass Fibers Loading upto 50%
- Polyethylene (LLDPE/LDPE/HDPE),
- Nano Composites (Clay, MWCT), Natural Fibers, Bio Materials
- Polypropylene (PP), (PS), PVC (soft), Polyester,
- Polyformaldehyde Cellulose Ester, Polyurethane (PU), TPU, TPE, TPR.

ANIMAL FOOD

- Soft and Expandable Foods
- Aqua Feeds

FOOD PHARMACEUTICAL

- · Cereals, Millets, Rice different Flours
- Pharmaceuticals Applications

CRUCIBLE & CATALYSTS

Graphite & Catalysts

TONER POWDER COATINGS

- Mono & Dual Compounds
- Different color Powder Coating Compounds

HIGH DISPERSION

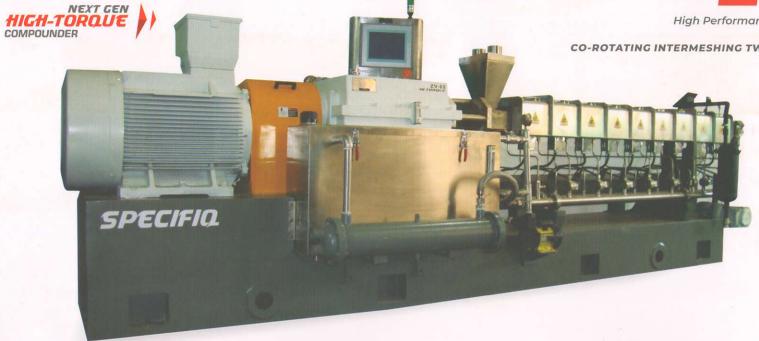
HOMOGENEOUS MIXING

SHEAR



High Performance Engineering Plastic

CO-ROTATING INTERMESHING TWIN SCREW EXTRUDER



FEATURES

- High DO-DI Screw Volume Ratio up to 1.70
- High Torque High Rpm Gear Box cap. up to 1370 Nm
- · Bi-Metallic Barrels
- Internal Liquid Cooling Jacketed Barrels
- Involutes Spline Shafts
- · Double jacketed ceramic heater covers
- · Ceramic heat insulated Cast heaters

- · High efficient vacuum degassing design
- · Loss-in-Weight (Gravimetric) Dosing Feeders
- · Torque Limiter Coupling over load safety
- Touch Screen HMI & PLC Graphic Controls
- Data Recording & Trouble shooting software
- · Post Extrusions Dry Strand Carbide Pelletisers, Water Ring & under water Pelletisers.

APPLICATION Plastic, Toner, Catalyst, Crucible & Powder Coatings Compounds

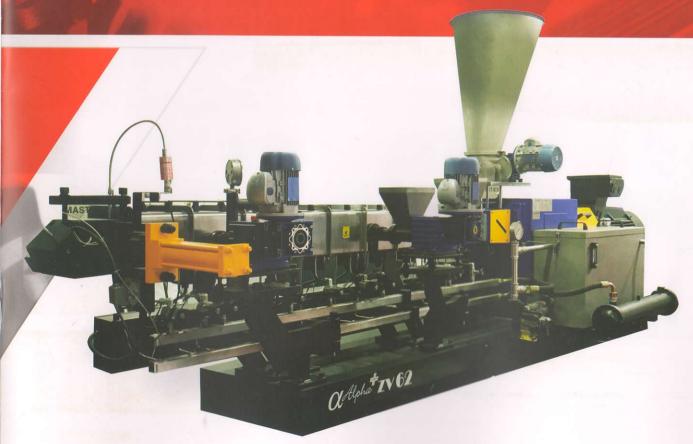
VARIANTS	zveo	ZV40	ZV50	ZV62	ZV72	ZV92
OUTPUT	1 to 15 Kg. /	75 to 200 Kg. /	150 to 300 Kg. /	200 to 450 Kg. /	300 to 500 Kg. /	400 to 750 Kg. /
	Hour	Hour	Hour	Hour	Hour	Hour



CO-ROTATING INTERMESHING TWIN SCREW EXTRUDER

ZV-ALPHA Series Co-Rotating Intermeshing Twin Screw Extruders are successfully designed for different Biodegradable compounds specially for PBAT, PLA & Bio-Oxo by Specific Engineering & Automats, first line tested on PLA, PBAT (Starch) & Bio-Oxo in the year 2000 and approved from DRDO Hyderabad in the year 2022. Twin Screw Extruder fully automated design. The post Extrusion comes in two options Water Edge Pelletiser and second is Belt Conveyor & Dry Strand Pelletiser. Unique design of TSE removes moisture and is maintained below 20 ppm. which saves compounds from degrading viscosity.

Screw geometry designed for homogenous mixing, fine dispersion & low shearing to avoid degradation of Starch & other ingredients.



FEATURES:

- · Segmented / Modular Screw & Barrels
- · Electric heated & liquid cooled Barrels
- · High Torque High rpm Gearbox unit
- · High LD Processing ratio for better mixing
- Two stage vacuum for optimum degassing
- · Dosing feeder with Vertical Agitator
- Water edge Pelletiser
- · Centrifugal screw dryer to remove moisture
- Microprocessor based PLC control System
- TFT Touch screen operations
- Batch to batch Data recording

APPLICATIONS:

- PLA (Polylactic Acid)
- PBAT (Poly butylene adipate co terephthalate)
- Bio-Oxo

HIGH TORQUE

ALPHA ZV20



CO-ROTATING INTERMESHING TWIN SCREW EXTRUDER

ALPHA ZV20 - Laboratory Co - Rotating Twin Screw Extruders are designed for Research & Developments. Modular Screw and Barrel designed to handle a variety of Polymer compounds, Segmented Screw & Barrels flexible design allow to set screw geometry to operate different Polymer compounds. Melt temperature & Pressure probe transmit real time data to control the process, inline Vacuum unit continuously remove the volatiles to ensure compacting compounds. Lab machines can be scaled up to production lines.

LAB E TRUDERS

POLYMERS AND BIODEGRADABLE



Applications

High Performance Engineering Compounds, Master Batches, Flame Retardant Toner, Bio Degradable, Crucible compounds, Powder Coatings, etc.

FEATURES

: 1-10 Kg/hr Cap

: Hi Do-DI Volume ratio Screw

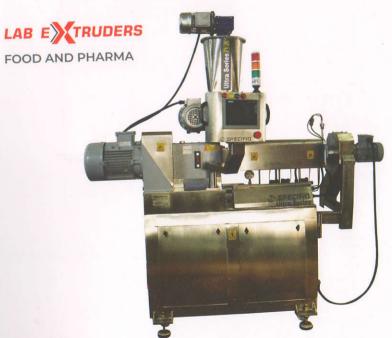
: Segmented, Liquid cool & Electric Cast Heating Barrel

: Robust Gearbox Cap 110Nm @ 600 Rpm Gear Box

Overload Safety: Torque Limiter quick release coupling overload safety : Dry strand, under water, Water Ring, Air Ring Pelletisers Pellatization

: Touch Screen Human Machine interface PLC Controls

& Data Recordings



Applications

Food Corn, Wheat, Rice Flours, Cereals, Millets, expandable Foods, Cottage Cheese, Pharmaceuticals, Spheronizer & Pet Foods, etc.

SPARES &
POST EXTRUSION
EQUIPMENTS

Screw



Gravimetric Feeder

Auto Screen Changers









Dry Strand TC Pelletiser

Water Ring Die Face Pelletisers





Other Products

- Over Load Safety Clutch
- Cast Heaters
- Air knife
- Die Heads
- Under Water Pelletiser
- Air Ring Pelletiser
- Classifiers
- Conveying Systems

OUR CLIENTS





































THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA











925, GIDC, Makarpura, Vadodara - 390 010. Gujarat. India. Ph: +91-265-264 6871 SALES .: +91-94263 46871/94260 56798/98980 56798 E: info@specificgroup.com / specificgroup@gmail.com