



>Recycling >Extrusion >Compounding  
>回收 >挤出 >改性



#### Parameter of ATE Twin screw extruder

Machine size	Screw diameter (mm)	L/D	Screw speed Max. (rpm)	Motor power (KW)	Torque per shaft (Nm)	Specific torque T/A3	Throughput rate (kg/h)
ATE35	35.6	32-64	600	18.5	115	4.2	40-80
ATE52	51.4	32-64	600	55	415	5.2	150-250
ATE65	62.4	32-64	600	90	675	4.8	200-400
ATE75	71	32-64	600	132	990	4.6	300-700
ATE95	93	32-64	600	315	2365	5	550-1500

#### Parameter of ATS Two-stage compounder

Machine size	Screw diameter (mm)	Screw speed Max. (rpm)	Motor power (KW)	Throughput rate (kg/h)
ATS52/120	ATE52	51.4	600	55
	ASE120	120	85	37
ATS65/150	ATE65	62.4	600	90
	ASE150	150	85	45
ATS75/180	ATE75	71	600	132
	ASE180	180	85	55
ATS95/200	ATE95	93	600	250
	ASE200	200	85	75

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# Co-rotating Parallel Twin Screw Extruder ATE Series

ATE Series Co-rotating Parallel Twin Screw Extruder consists of motor drive, torque distribution gearbox, processing section, temperature controlling units, die section and down-stream pelletizing system, etc.

ATE Twin Screw Extruder adopts modular design principle, component standardization manufacturing, which can present stable and reliable performance.

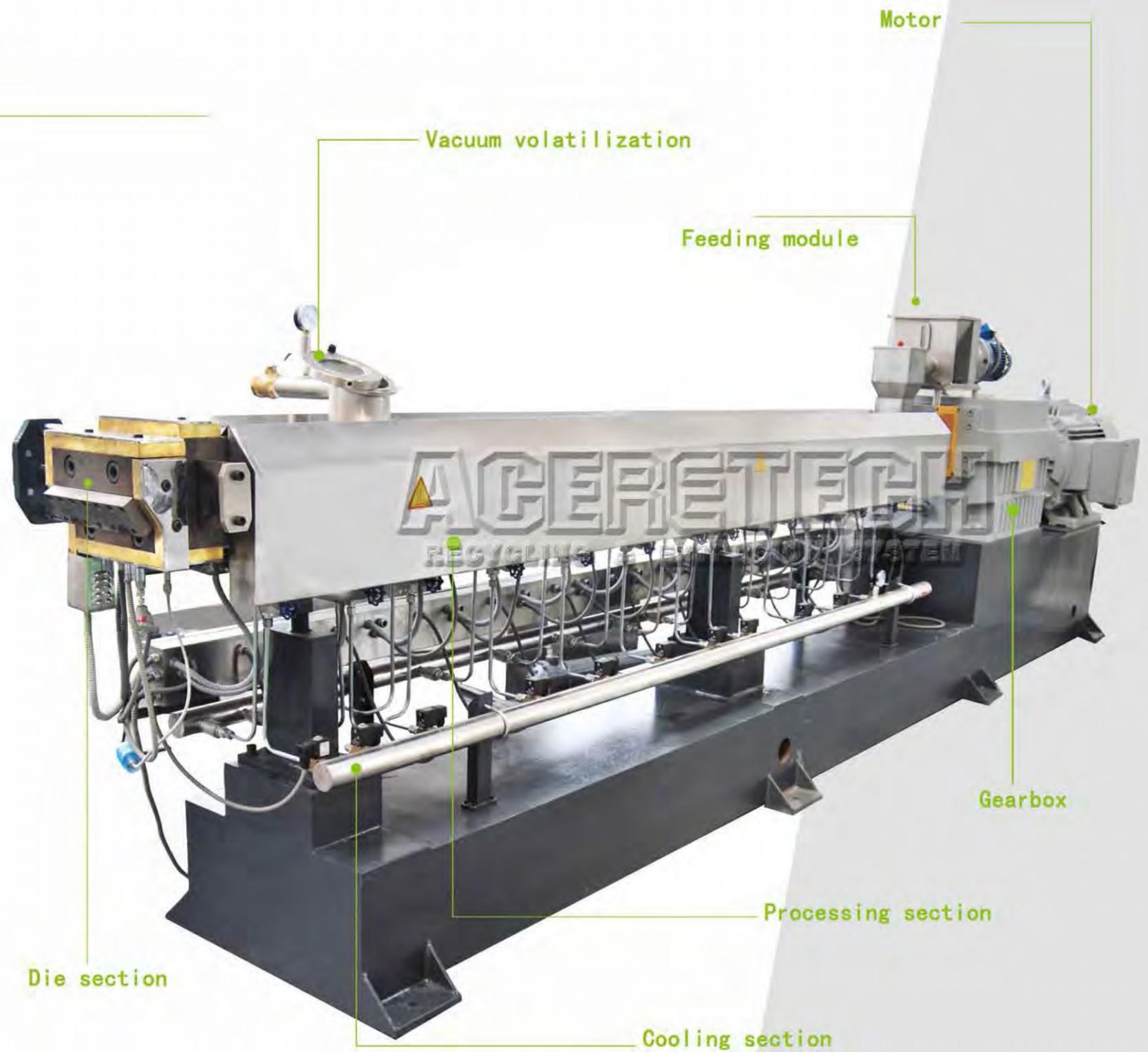
Thanks to the modular principle, ATE extruders can provide highly customizable solutions according to customers' process and special requirements. Based on different output torque grade, ATE series extruders have basic type and efficiency type.

Multiple cutting system can be combined with ATE Twin Screw Extruder, such as strands pelletizing, hot-face cutting and under-water pelletizing, etc.

Both Relay control and PLC control are available to apply in the ATE electrical controlling system. All the key electrical parts adopt European brands to guarantee the controlling system with significant and stable performance.

## Typical Applications:

Engineering plastics, Masterbatch, Filling, TPE/TPR/TRV, Direct extrusion



# ATS Two-stage compounding line

ATS Two-stage compounding line includes ATE Twin screw extruder, ASE Single screw extruder and down-stream pelletizing system. The first stage is to realize the polymers compounding job, second stage is to extrude the compounds with gentle and lower temperature, then pelletizing through the down-stream cutting system.

Combine high-speed and strong-compounding of twin-screw extruder with low-speed, low-temperature and weak-shear of single-screw extruder. It is the first choice when produce heat-sensitive or shear-sensitive material.

Thanks to the modular design principle, both relay and PLC control are also available to be applied in the ATS electrical controlling system. All the key electrical parts adopt European brands to guarantee the controlling system with significant and stable performance.

Single to double connection

ATE Twin Screw Extruder



ASE Single Screw Extruder

## Typical Applications:

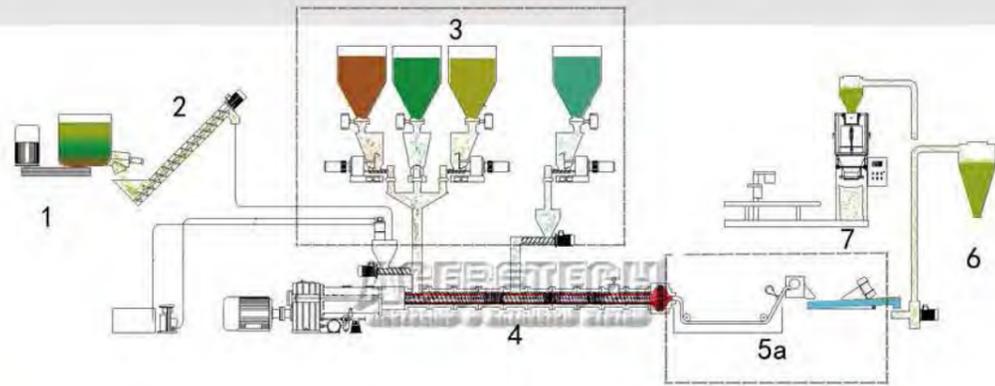
PVC/HFFR、EVA、Cable and pipe materials cross-linked by silane、Cable material (XLPE)、WPC



Multiple cutting system can be combined with ATE Twin Screw Extruder, such as strands pelletizing, hot-face cutting and under-water pelletizing, etc.

✓ Application:

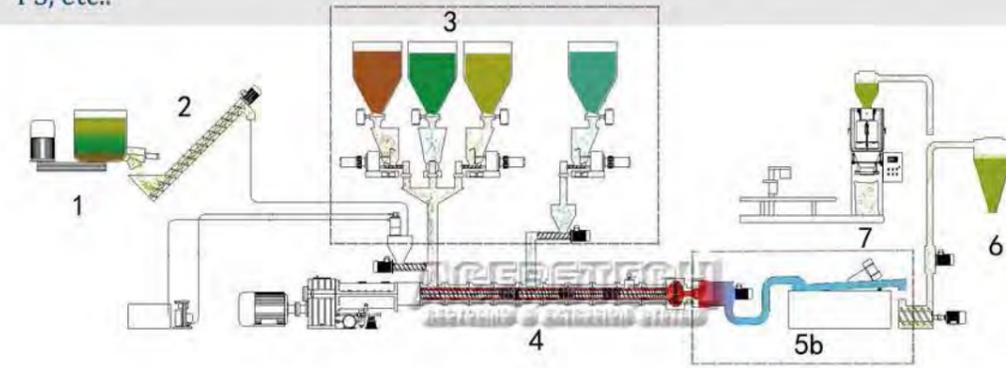
Enhance and modification, such as PP, PA, PBT, ABS, AS, PC, POM, PPS, PET filled with glass fiber or carbon fiber;  
 Compounding alloy, such as PC + ABS, PA + ABS, CPE + ABS, PP + EPDM, PA + EPDM, PP + SBS, etc.;  
 Filling and modification, such as PE, PP, EVA filled with CaCO<sub>3</sub>, talcum power, titanium pigment and carbon soot, etc.;  
 Cable material, such as LDPE, HDPE, LLDPE, MDPE jacket material, insulated material;  
 Radiation cross-link material, coated optical fiber cable material, heat-shrinkable pipe material;



ATE Twin Screw Extruder adopts modular design principle, component standardization manufacturing, which can present stable and reliable performance.

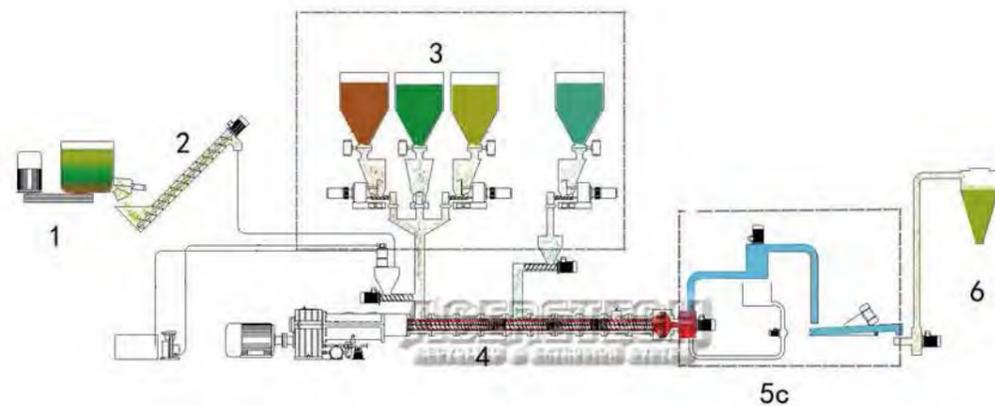
✓ Application:

Filling and modification, such as PE, EVA filled with CaCO<sub>3</sub>, talcum power, titanium pigment and carbon soot;  
 Compounding alloy, such as PC + ABS, PA + ABS, CPE + ABS, PP + EPDM, PA + EPDM, PP + SBS, etc.;  
 LDPE, HDPE, LLDPE, MDPE jacket material, insulated material; Radiation cross-link material, coated optical fiber cable material, heat-shrinkable pipe material; PPR pipe material, PR cross-link pipe material;  
 Thermoplastic elastomer, such as TPR, TPU;  
 Masterbatch, such as PE, ABS, PS, EVA and so on;  
 Flame retardant, such as ABS, EVA and so on; Degradable plastic, such as PE, PP and PS, etc..



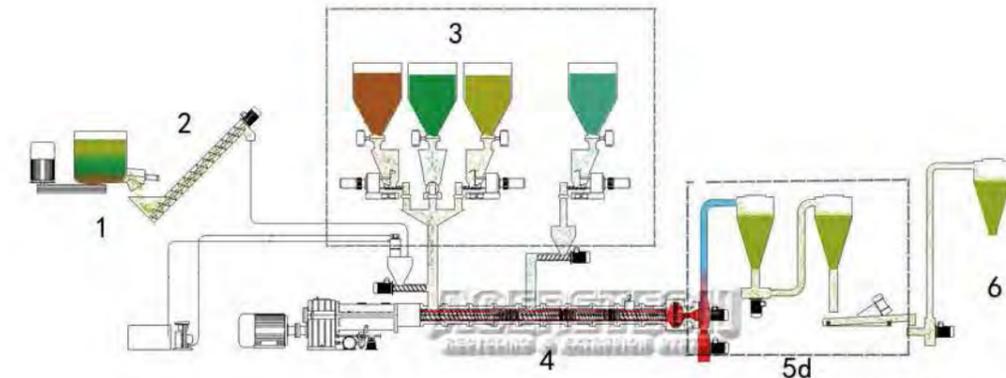
✓ Application:

Reaction extrusion, such as continuous polyreaction extrusion of PUR, PA, POM, PEI, PC, PMMA, PBT and PPS, sulfuration, cross-link, graft and extend the chain, etc..



✓ Application:

PVC cable material, sole material, clarity bolt material, medical material;  
 Low-smoke and no-halogen material or Low-halogen and flame retardant material;  
 EVA screen material, PE and EVA masterbatch, etc..



1, High-speed mixer

2, Screw loader

3, Gravi-feeding system

4, Twin-screw extruder

5a, Strands pelletizing unit

5b, Water ring pelletizing unit

5c, Under water pelletizing unit

5d, Air cooling die face pelletizing unit

6, Production silo

7, Rationing packing scale