

品名 및 規格	
CNT 고분자 복합소재 고분산용 컴파운딩 장치	
(Ribbon blender & $\phi 58$ TWIN SCREW EXTRUDER COM'P M/C)	
APPLICABLE RESIN : P.E ENPLA + ADDITIVE	
1. RIBBON BLENDER : 1,500ℓ	
ACTUAL CAPACITY : 1,000ℓ	
DRIVING MOTOR : 4P X 11 kW X 1/60	
GEARED MOTOR	
2. TWIN SCREW EXTRUDER COMPOUNDING M/C	
1) TWIN SCREW EXTRUDER : $\phi 58$ L/D = 40	
TYPE : 2 LOBO CO ROTATING 2 VENT TYPE	
SCREW DIA : $\phi 57.5$ L/D = 40	
SCREW R.P.M : MAX 450 R.P.M	
TYPE : SEGEMENT TYPE	
SCREW SHAFT : INVOLUTE SPLINE	
MATERIAL : NAK 80	
GEAR REDUCER : HIGH TORQUE TANDEM DRIVE	
BARREL : SEGEMENT BLOCK	
MATERIAL : BODY ; SCM 440	
SLEEVE ; SKD11	
NO OF BLOCK : 10 BLOCKS	
HOPPER BLOCK : 1 PC	
VENT BLOCK : 2 PCS	
BLIND BLOCK : 6 PCS	
SIDE FEEDER BLOCK : 1 PC	
BARREL HEATING & COOLING METHOD	
ELECTRIC HEATER & WATER COOLING	
TEMP, CONTROL SECTION : 9 ZONES	
1-1) MAIN MOTOR W/T CONTROL SYSTEM	
A.C 110kW W/T INVERTER CONTROL 380V X 60HZ	
1-2) DRIVE COUPLING SAFETY EQUIPMENT	
1-3) BARREL COOLING UNIT	
TANK : 60 ℓ SUS304	
PUMP MOTOR : 4P X 0.75kW	
HEATER EXCHANGER	
IN LET : SOL VALVE	
OUT LET : CHECK VALVE	

1-4) RESIN PRESSURE & TEMP GAUGE		
MAKER	: DYNISCO U.S.A	
1-5) SIDE FEEDER ASS'Y		
TYPE	: HORIZONTAL TWIN SCREW	
REVOLUTION	: 20 ~ 180 R.P.M	
DRIVING MOTOR	: 4P X 2.2kW	
SPEED CONTROL	: INVERTER	
2) ADAPTER & STRAND DIE'S		
HEATING CONTROL ZONE	: 1 ZONE	
NOODLE HOLES	: 23 HOLES	
3) WATER BATH : 480(W) X 260(H) X 4,500		
MATERIAL	: SUS 304	
4) AIR WIPER : SUCTION TYPE		
SUCTION HOOD	: 2 PCS	
RING BLOWER	: 2P X 3.7kW	
5) PELLETIZER : 500kg/HR		
ROTARY KNIFE	: $\phi 150$ X 250ℓ 초경 TIP 부착	
BED KNIFE	: SUS 304 + 초경 TIP 부착	
DRIVING MOTOR	: 4P X 5.5kW	
SPEED CONTROL	: INVERTER	
6) VIBRATOR SCREEN		
VIBRATOR MOTOR	: 4P X 0.2kW	2 대
1'ST SCREEN	: $\phi 6$ ZIG ZAAG PUNCHING PLATE	
2'ND SCREEN	: $\phi 2$ ZIG ZAAG PUNCHING PLATE	
7) TEMP, CONTROL PANEL		
TYPE	: CABINET TYPE	
HEATER CONTROL	: SSR RELAY	
CONTROL SECTION	: 10 ZONES (PID CONTROL)	
INVERTER	: SIDE FEEDER	
	PELLETIZER	
7-1) TEMP CONTROL PANEL		
7-2) O.P PANEL		
7-3) 2차 결선 자재 및 2차 결선		
3. 운반 및 설치 시운전		
- 설치장소 : 본 연구원 지정장소(국내)		
- 설치후 시운전 및 compounding 소재 특성 평가		
TOTAL		