

MSK

AIR-COOLED PELLETIZER 风冷式造粒机

Eco-efficient Thermoplastic
Recycling Technology

生态高效热塑性塑料
回收技术



RP-32DE



RP-32DD



RP-32EE

Pelletizer 造粒机



Re-pelletizing process below **material melting temperature** - can maintain unchanged property to ensure high quality precision molded parts.

再造粒处理时的温度**低于材料熔化温度**—能够维持原料的性质、确保精密成型的高品质。



Environmentally friendly concept. **No water cooling system required.**

环保概念，**不需要水冷系统**。



Air cooling system makes material more appraisable (e.g. tensile strength, stretch, flexural strength, flexural elasticity, melt flow index) for recycled pellets; better value than water cooling.

空气冷却系统使得再生颗粒比水冷系统更有价值（材料的拉伸强度，弯曲强度，弯曲弹性，熔体流动指数）。



Output of pellets: **5kg to 10kg** per head per hour. The actual output depends on density of resin, operation conditions etc.

颗粒的产量：**单头每小时5公斤至10公斤**。实际输出取决于树脂的密度，操作条件等。



Diameter of re-pelletized pellets 1 ~ 3mm and length of 1.5 ~ 5mm.

再生元料颗粒的直径为1 ~ 3mm，长度1.5 ~ 5mm。



Touch-Screen control panel makes operation and troubleshooting easy.

触摸屏控制面板使操作和故障排除变得容易。



Equipment's return cost easily justified by material savings.

设备的成本回报通过物料节省容易证明

Transforming waste
to greatness.
Go greener
with our
MSK Pelletizer

绿化环保之创



Single Head Models

单设置

RP-32E



RP-32D



Twin Head Models

双设置

RP-32DE



RP-32DD



RP-32EE



System Solution 系统解决方案

Machine designed for easy setup and operating.
机器设计旨在易于设置和操作。

Able to re-pelletize almost all kinds of Thermoplastics.
能够对几乎所有类型的热塑性塑料进行再造粒。



Centralized compress air controls

集中式压缩气控制



Easy-to-use touch screen controls.
Manage temperature, speed of extrusion, rollers and cutter

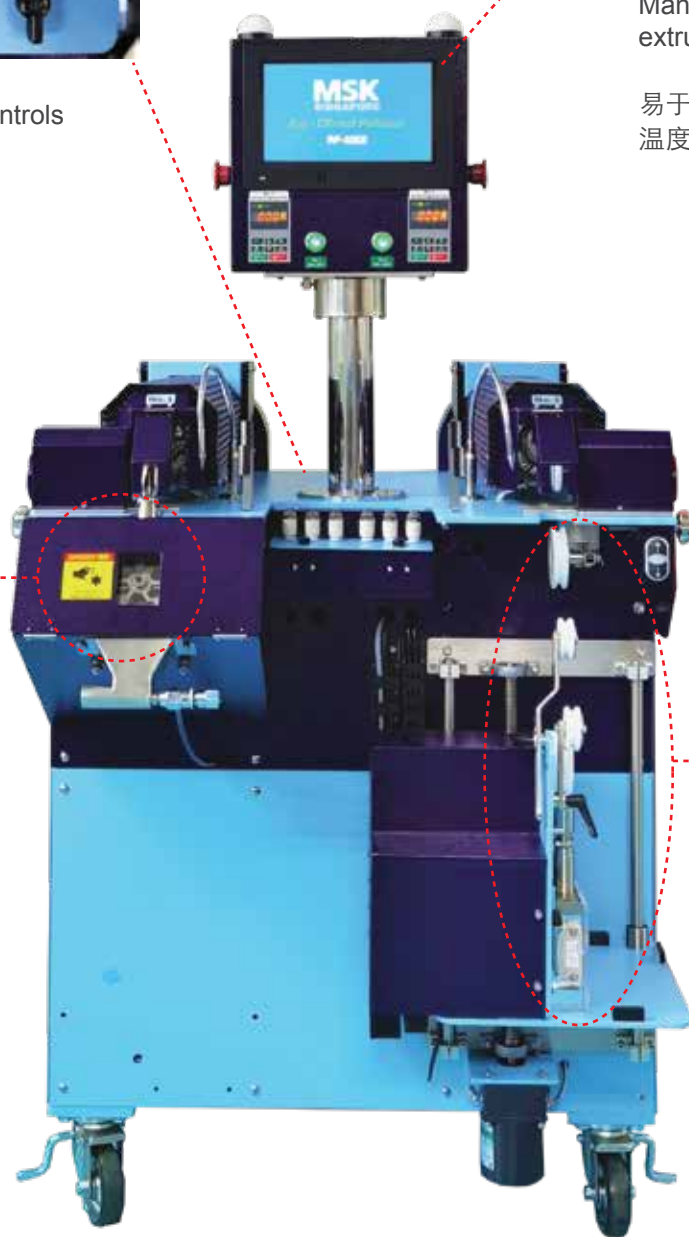
易于使用的触摸屏控制面板（管控温度、挤出、滚筒和切割的速度）



D

Direct model:
Fixed cooling & cutting devices.
Suitable for materials that require short curing time e.g. PC, PEI, LCP etc.

固定装置：
固定冷却和切割装置。
适用于需要较短固化时间的材料，例如：PC、PEI、LCP等



E

Extended model:
Adjustable cooling & cutting devices. Suitable for materials that require long curing time e.g. PP, Nylon, TPU, POM etc.

加长装置：
可调节的冷却和切割装置。
适用于需要较长固化时间的材料，例如：PP, PA, TPU, POM等

Unmanned Operation System 无人化系统

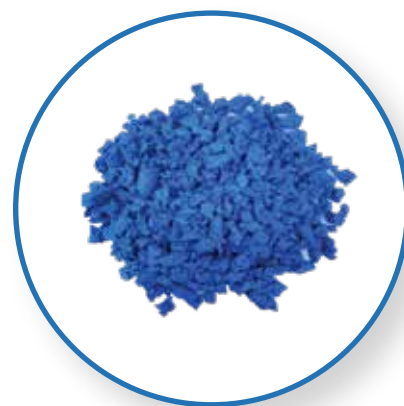
Multiple Setup Options With No Limitation
无限制的最佳组合



Runner
料头



Granulator
粉碎机



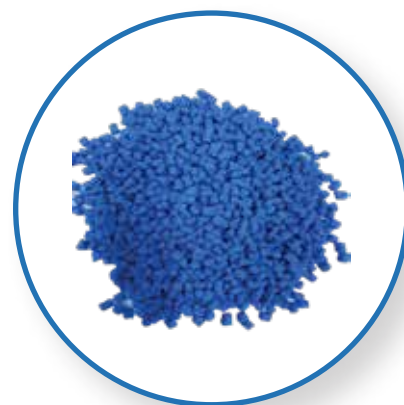
Crusher Runner
碎料头



Dehumidifier Dryer
除湿干燥机



Pelletizer
造粒机



Re-pelletized Material
再造粒塑料

Examples of Re-pelletized Material
再造粒塑料的例子



Single Head Multiple Setup Options

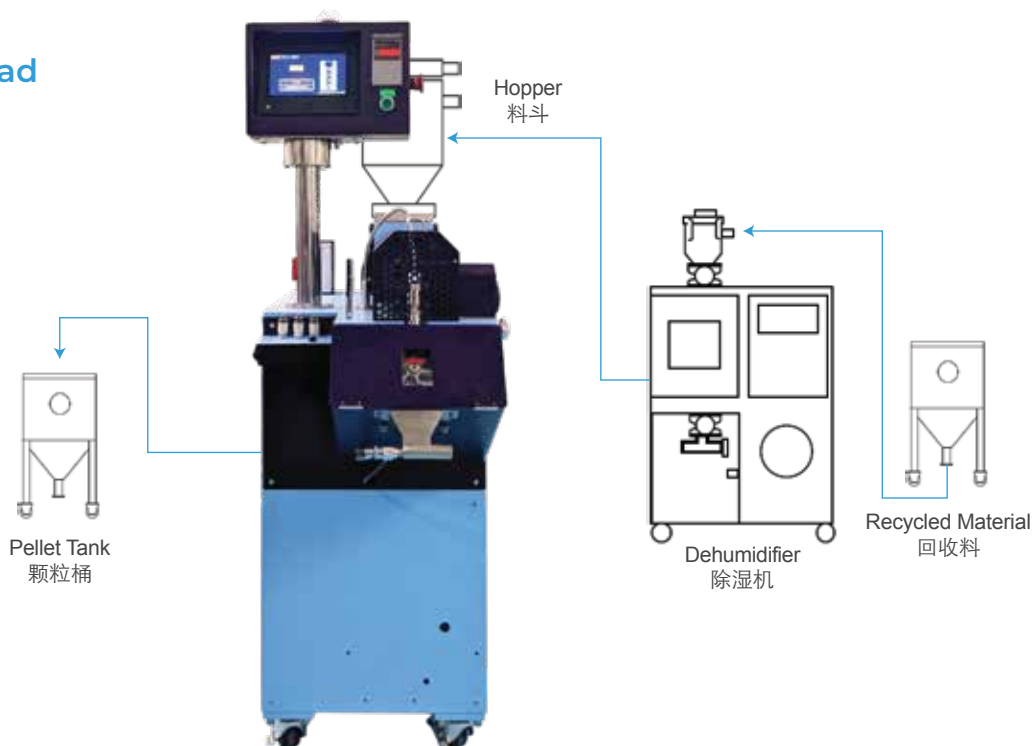
单头多种设置选项

Note: For resins that easily absorb moisture, it is recommended to pre-dry before the pelletizing process.

注意: 对于容易吸潮的树脂, 建议在造粒前进行预干燥。

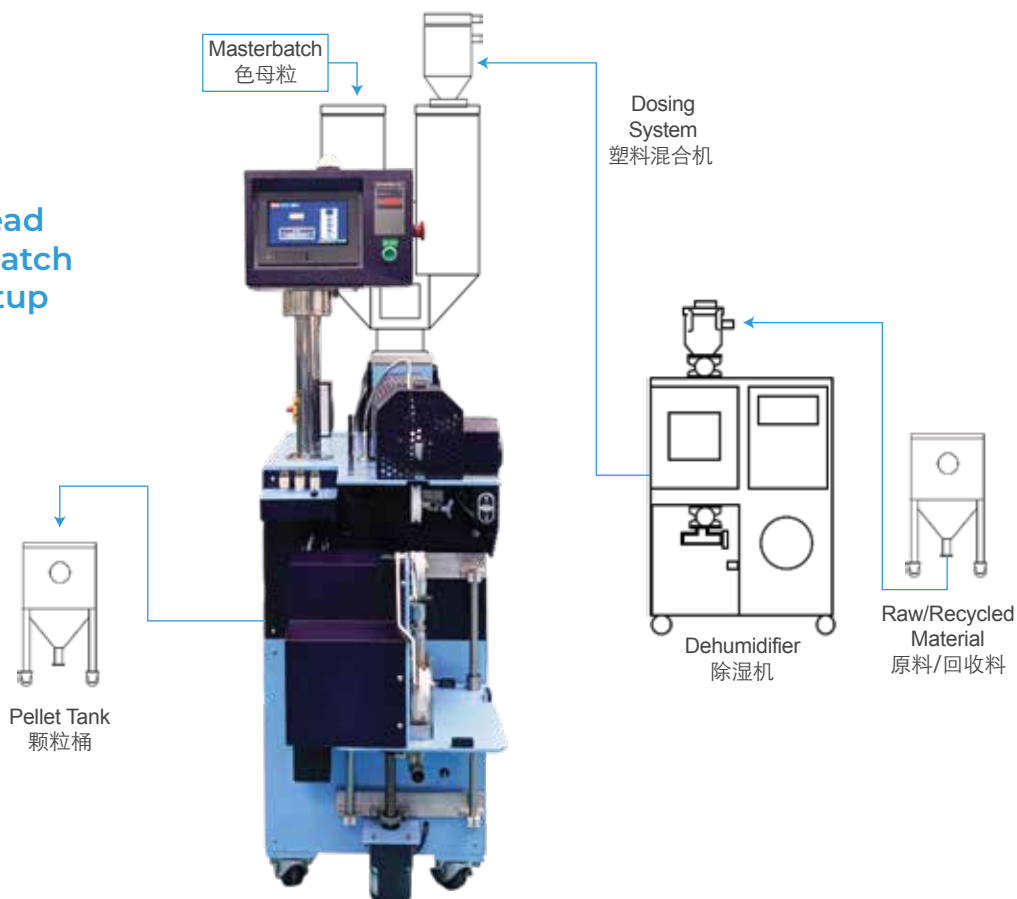
Option 1 Single Head Material Setup

选项 1 单塑料设置



Option 2 Single Head Material + Masterbatch Dosing System Setup

选项 2 塑料 + 色母粒混合机设置



Twin Head Multiple Setup Options

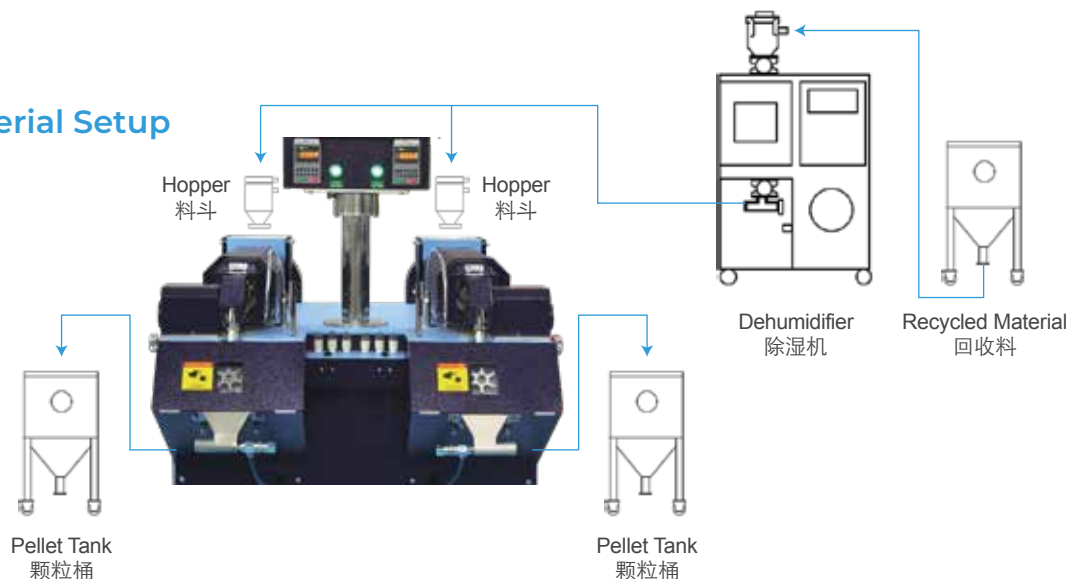
双头多种设置选项

Note: For resins that easily absorb moisture, it is recommended to pre-dry before the pelletizing process.

注意：对于容易吸潮的树脂，建议在造粒前进行预干燥。

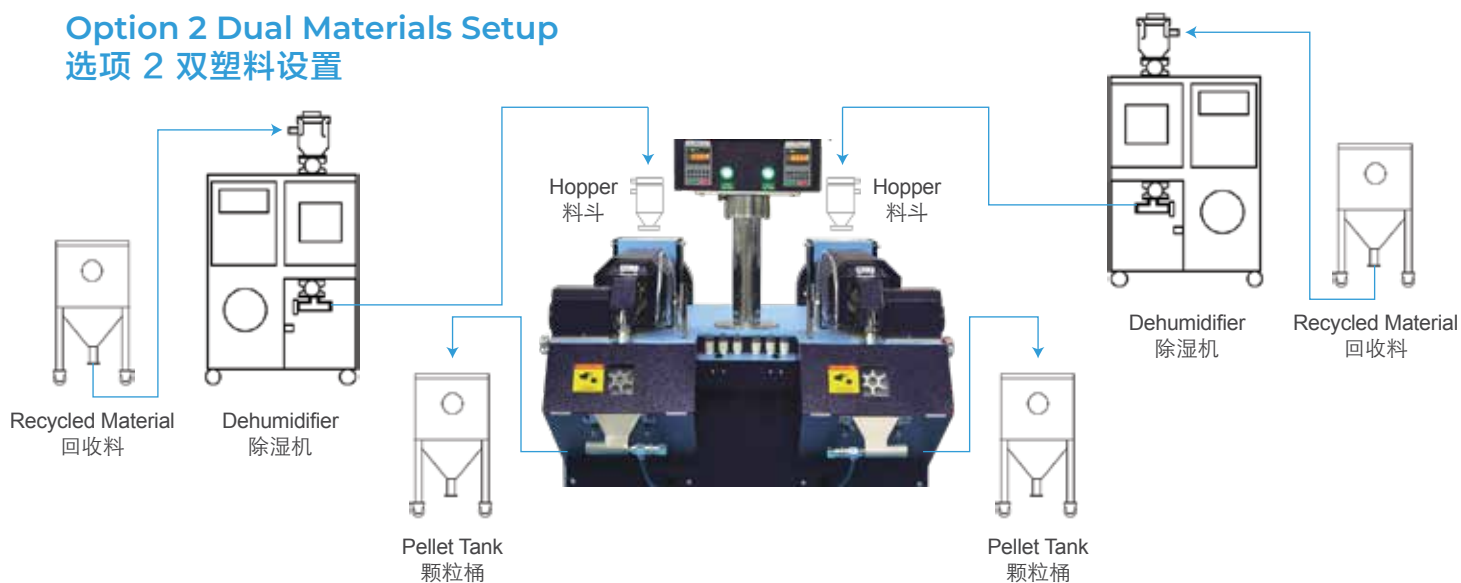
Option 1 Single Material Setup

选项 1 单塑料设置



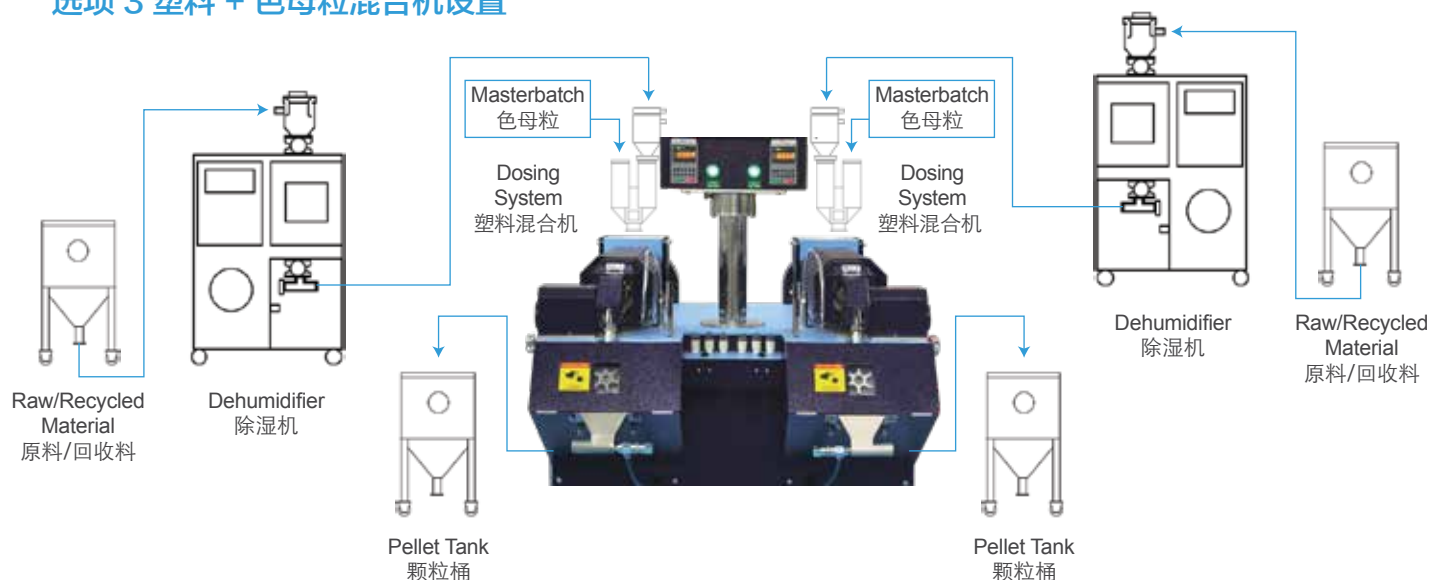
Option 2 Dual Materials Setup

选项 2 双塑料设置



Option 3 Material + Masterbatch Dosing System Setup

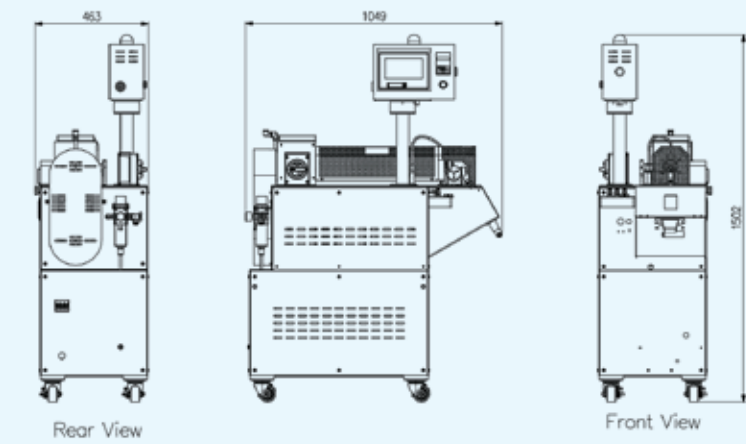
选项 3 塑料 + 色母粒混合机设置



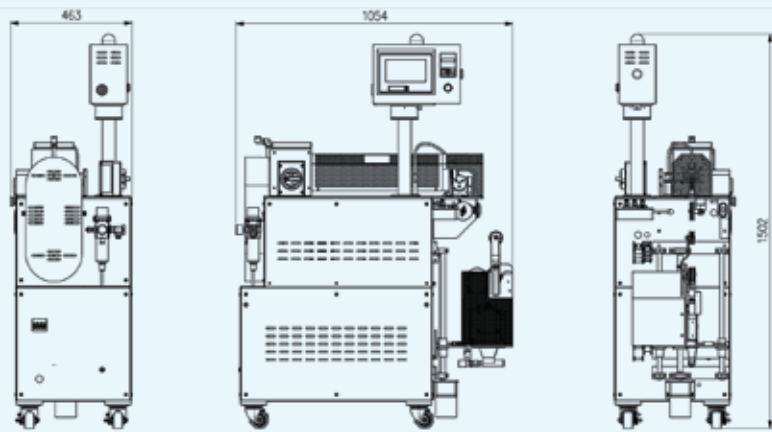
Dimensional Specification of Single Head Pelletizer

单头造粒机设计图

RP-32D



RP-32E



Machine weight : 235 ~ 240 kg

Extrusion Assembly 挤出机组件	
Voltage required 供給電源	380V ~ 415V 3 Phase / 200V 3 Phase 三相 AC380V ~ 415V / AC200V
Screw 螺杆	Ø32mm
Extrusion Output 产量	5 - 10kg/hr
Motor Capacity 马达功率	200V / 415V (1.5 kW) x 1
Heater Capacity 加热器功率	400W x 2 230V 1500W x 6 / 200V 1100W x 6
Temperature Control 温控方式	P.I.D. System P.I.D. 系统
Temperature Control Points 温控处	Four Point Control 4处 (H1, H2, H3, H4)
Cold Start Prevention 防止冷启动	±15°C/30min ±15°C/30分钟
Start Signal 启动信号	Buzzer Sound five times 蜂鸣五次

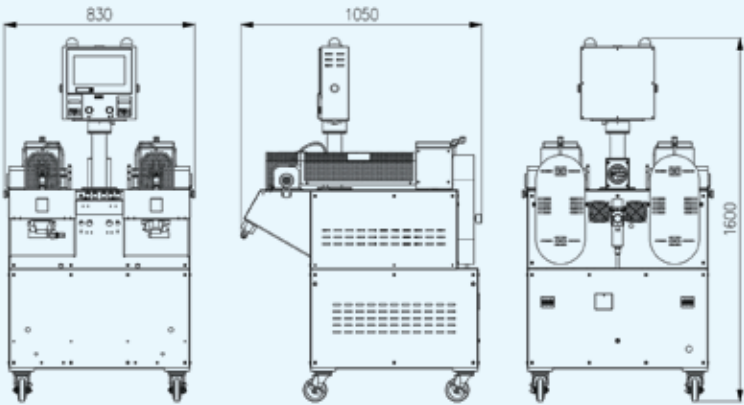
Cutter Assembly 刀具组件		
Model 模型	RP-32D	RP-32E
Nozzle Open 出胶口	Ø2.5mm (standard) Ø2.5mm (标准)	
Rotary Cutter 切刀	Ø60mm x 6 flutes Blade Ø60mm x 6刃刀	
Cutter Top 切刀上部	Flat Blade 扁平刀片	
Motor Capacity 马达功率	AC110V/230V, 120W X 1	
Strand Pulley Motor 链滑轮电机	AC110V/230V, 6W X 1	AC110V/230V, 6W X 1
Up / Down Motor 上 / 下电机	-	AC110V/230V, 25W X 2
Pellets Length 料粒长度	1.5 ~ 5mm	
Air Consumption 耗气量	6 bar / 87 PSI 200 LPM	

All electrical components and wire used are UL and/or CE-rated
所有电气元件和电线均符合 UL 和/或 CE 等级

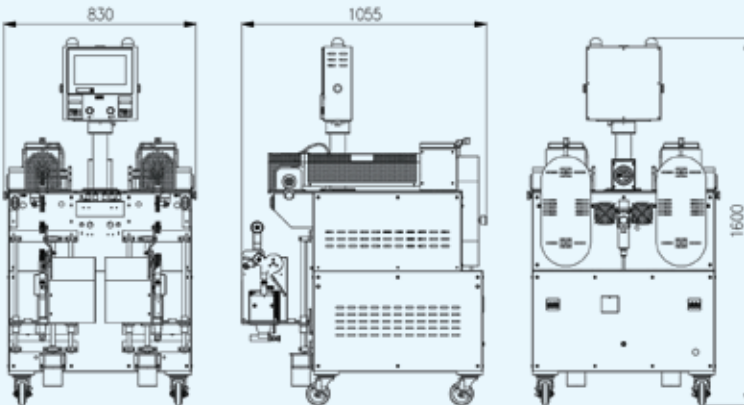
Dimensional Specification of Twin Head Pelletizer

双头造粒机设计图

RP-32DD



RP-32EE
RP-32DE*



*Outer dimensions for RP-32DE is similar to RP-32EE

Machine weight : 465 ~ 475 kg

Extrusion Assembly 挤出机组件	
Voltage required 供給電源	380V ~ 415V 3 Phase / 200V 3 Phase 三相 AC380V ~ 415V / AC200V
Screw 螺杆	Ø32mm
Extrusion Output 产量	10 - 20 kg/hr
Motor Capacity 马达功率	200V / 415V (1.5 kW) x 2
Heater Capacity 加热器功率	400W x 2 230V 1500W x 6 / 200V 1100W x 6
Temperature Control 温控方式	P.I.D. System P.I.D. 系统
Temperature Control Points 温控处	Four Point Control 4处 (H1, H2, H3, H4)
Cold Start Prevention 防止冷启动	±15°C/30min ±15°C/30分钟
Start Signal 启动信号	Buzzer Sound five times 蜂鸣五次

Cutter Assembly 刀具组件			
Model 模型	RP-32DD	RP-32DE	RP-32EE
Nozzle Open 出胶口	Ø2.5mm (standard) Ø2.5mm (标准)		
Rotary Cutter 切刀	Ø60mm x 6 flutes Blade Ø60mm x 6刃刀		
Cutter Top 切刀上部	Flat Blade 扁平刀片		
Motor Capacity 马达功率	AC110/230V, 60W X 2		
Strand Pulley Motor 链滑轮电机	AC110/230V, 60W X 2	AC110/230V, 6W X 2	AC110/230V, 6W X 2
Up / Down Motor 上 / 下电机	-	AC110/230, 25W x 2	AC110/230, 25W X 4
Pellets Length 料粒长度	1.5 ~ 5mm		
Air Consumption 耗气量	6 bar / 87 PSI 360 LPM		

All electrical components and wire used are UL and/or CE-rated
所有电气元件和电线均符合 UL 和/或 CE 等级

Reference Data for Pelletizing

造粒参考数据

Material 材料	Pelletizer Direct / Extended Unit 固定 / 加长装置	Material Pelletizing TEMP 材料制粒温度
ABS Unfilled ~ 20%GF	Direct	180 ~ 200°C
ABS + PC	Direct	190 ~ 210°C
COP	Direct	205 ~ 220°C
LCP Unfilled ~ 45% GF	Direct	295 ~ 320°C
PA 4T 30% GF	Direct	305 ~ 315°C
PA 6T 30% GF	Direct	305 ~ 315°C
PA 9T 30% GF ~ 45% GF	Direct	280 ~ 295°C
PA 10T 35% GF	Direct	285 ~ 300°C
PA 46 10% PTFE	Direct	284 ~ 285°C
PA 66	Extended	253 ~ 260°C
PA 66 20% ~ 45% GF	Direct	253 ~ 260°C
PBT Unfilled ~ 30% GF	Direct/ Extended	215 ~ 220°C
PC	Direct	220 ~ 260°C
PCT 30% GF	Direct	265 ~ 285°C
PCTG	Direct	210 ~ 230°C
PEI	Direct	316 ~ 335°C
PET 45% GF	Direct	240 ~ 250°C
PMMA	Direct	215 ~ 220°C
POM	Extended	165 ~ 180°C
PP	Extended	160 ~ 175°C
PP + EVOH	Extended	155 ~ 170°C
PPA 30% GF	Direct	295 ~ 290°C
PPS	Direct/ Extended	280 ~ 290°C
PPS 40% GF	Direct	270 ~ 280°C
PPSU	Direct	300 ~ 305°C
PVC	Extended	140 ~ 150°C
Styrofoam	Extended	100 ~ 106°C
SUS + PP	Direct	125 ~ 130°C
TPE	Extended	140 ~ 150°C
TPU	Extended	180 ~ 190°C

※ Direct = Direct Model 固定装置 Extended = Extended Model 加长装置



Manufactured in Singapore
新加坡制造