

## TSM系列色母机 TSM Series Screw Dosers

TSM



适用于新、次料、色母或添加剂等的自动比例混合。依据预先设定的比例混合，透过微电脑控制系统设定的条件自动演算出所需之转速 (rpm)，计量精准，其误差值  $\pm 0.1\%$ 。该产品具备两种模式，分别适用于塑胶的注塑成型和挤出成型。螺杆直径分为16、20、25等多种，采用进口直流无刷马达，可演变出多种机型，提供0.1~200kgs/hr的不同输出量供客户选择。另有双色色母机，根据客户需求搭配，满足不同场合、不同领域使用。

Screw Dosers are extensively used for precise auto-proportional dosing & blending of virgin, regrind materials, masterbatch and other various additives. The microprocessor accurately controls rate of revolution of a motor for high precise metering with an accuracy of  $\pm 0.1\%$  from set points. This series can be used on the differential applications with injection molding machines and extruders. A brushless DC motor is used for this series. The dosing screws are offered with various size: 16, 20 and 25 for developing diverse models with throughputs from 0.1~200kgs/hr. TOPSTAR developed double-color screw dosers according to customers' various demands which can be satisfied with diverse applications.

### ● 特点 Features

- 数位显示的微电脑控制器，可精确地计量色母及次料的添加比例。
- 采用直流无刷式马达，无需保养、寿命长、免维护。
- 模块化可拆卸式设计，可快速更换螺杆及套筒。
- 计量站可以从落料座拆除而不会漏料，在转接座侧边可视窗装置，容易观察原料。
- 具有50组配方存取功能，可快速调用启动机器。
- 入料底座采主要原料与色母分流设计，短时间内可迅速转换色母及主要原料，符合经济效益。
- 配合射出成型机使用时，色母自动计量机可设定计量时间的控制设计，可免除射出机因每模储料时间长短不一，而造成色母添加量不稳定之困扰。
- 有强制清料功能，方便更换色母。
- 可选配物料料位检测感测器，缺料报警提示。
- 可于挤出机主螺杆同步加、减速运行。

- Digital microprocessor can process masterbatch & regrind material by metering accurate percentage.
- Using brushless DC motor features free from maintenance and long service life.
- Module dismantled design, easy for change screw and sleeve.
- The dosing unit is removed from discharging seat without material leakage, monitoring material level from the sight - see - through window on the side of transferred seat.
- 50 sets of parameter recipes are available for permanently recording and reading function, operating machines quickly without adjusting parameters again.
- Feeding base adopt different channels for material & masterbatch separately, easy change material & masterbatch within short time.
- Screw dosers can set metering time to avoid annoyance for unstable materbatch volume while working with injection molding machine because of different time for every cycle of metering.
- Forced material cleaning function is convenient to change masterbatch.
- Material level detection sensor is available as option, alarm for material shortage.
- It can operate with main screw of extruders, acceleration and deceleration simultaneously.

### ● 规格表 Specification Sheet

产品型号 MODEL	单色色母机 SINGLE COLOR DOSERS						双色色母机 DOUBLE COLOR DOSERS		
	TSM-3025	TSM-3020	TSM-3016	TSM-5025	TSM-5020	TSM-5016	TSM30xx-30xx	TSM30xx-50xx	TSM50xx-50xx
马达转速 Motor Speed	3000								
搅拌功率 Dosing Capacity	90								
螺杆直径 Screw Dia.	25	20	16	25	20	16	xx	xx	xx
输出量 Output Capacity	1.1-38	0.6-20	0.1-10	0.5-17	0.2-8	0.1-4	x	x	x
储料斗 Tank	10						12X2		
减速比 Gear Ratio	30	30	30	50	50	50	30/30	30/50	50/50
外形尺寸 Dimensions	H M	0.52	0.52	0.52	0.52	0.52	0.615	0.615	0.615
	W M	0.61	0.61	0.61	0.61	0.61	1.045	1.045	1.045
	D M	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
重量 Weight	15	15	15	15	15	15	33	33	33

注：产品规格若有变更，恕不另行通知 We reserve right to change specifications without prior notice

- 以上输出量是以比重为1.2、直径为2-3mm的塑料粒子以连续运转的方式测得的数据，仅供参考。
- XX表示螺杆直径可按客户要求定做。
- X表示输出量由客户选择的型号而定，单色机的输出量数据仅供参考。

- All the output capacity from above models is base on the data from density 1.2, Dia. 2-3mm master batch in test criteria of continuous running.
- XX stands for the external dia. of the screw is up to clients model choice.
- X means output capacity is depended on model that client select, data of single color doser can be a reference.