

TSM系列色母机 TSM Series Screw Dosers

TSM

适用于新、废料、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，通过微电脑控制系统设定的条件自动计算出所需之转速 (rpm)，计量精准，其误差值±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12、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0.08~38kg/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 ±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: 12, 16, 20 and 25 for developing diverse models with throughputs from 0.08~38kg/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物料的添加比例。
- 采用直流无刷式马达，无需保养、寿命长、免维护。
- 模组化可拆卸结构设计，可快速更换螺杆及套筒。
- 计量站可以从原料座拆掉而不会漏料，在转接座侧边可加装装置，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，可免除射出机因每颗颗粒时间长短不一，而造成色母添加量不稳定的困扰。
- 有强制清料功能，方便更换色母。
- 可选配物料仓位检测器，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 paramater 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 masterbatch 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-3012	TSM-5016	TSM-5020	TSM-5016	TSM-5012	TSM800x-50x	TSM1500x-500x
马达转速 Motor Speed	50					3000				
加料容量 Dosing Capacity	90					50×2				
螺杆直径 Screw Dia.	25	20	16	12	25	20	16	12	xx	xx
输出量 Output Capacity	0.8~38	0.4~20	0.2~10	0.1~3	0.5~17	0.2~8	0.1~4	0.08~2.4	x	x
物料斗 Tank	10					12X2				
减速比 Gear Ratio	30	30	30	30	50	50	50	50	30/30	30/50
	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
外形尺寸 Dimensions	WM	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.83	0.83
	DM	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295
重量 Weight	KG	17	17	17	17	17	17	17	30	30

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- 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.

TGB称重组式计量机 TGB Series Gravimetric Blenders

TGB

主要用于处理从2种到6种原料的定量称重
计量和掺杂，包括新料、次料、色母和多
种添加剂等进行称重计量和均匀搅拌混
合。计量能力从20kgs/hr到1000kgs
/hr。该系列产品采用高精度重量传感器使
批次的混合配比误差视觉定配比比例大小
而定量控制在±0.3%。型号齐全，可满
足多种精度等级的混合要求。

Gravimetric Blenders are extensively
configured to handle two of up to six
different components by dosing &
blending in total throughput from 20kgs/hr
to 1000kgs/hr, generally including virgin,
regrind materials, masterbatch and
other various additives. The series
adapts precision load cells to make
batch blend resulting in a highly
accuracy within±0.3%. (accurate
tolerances are varied according to batch
to batch blend ratio). Full wide range of
this series can satisfy versatile
requirements on high precision blending.

● 特点 Features

- 可设定原料之间的比例或百分比，操作简单方便。
- 精确稳定的连续运转。
- 在混合原料的同时，对下一批原料进行称重计量。
- 自动吨称补偿功能：在配料过程中，控制器能自动修正与预设值偏差。
- 可安装在机器上或机器旁。
- 可同时控制多台称重组式计量机（标准型）。
- 最多可同时处理六种原料。
- 可配合吸料自动补料。
- 称重/体积生产模式增大配料能力。
- 所有与原料接触的部分都由不锈钢材料制成，防止原料被污染。
- 称量精度±0.3%。
- 模块化可拆卸式结构设计，节省空间与清洁方便。
- 配有声、光报警器，便于提醒维修人员，快速到达机器现场排除故障。

- The next batch is weighed simultaneously while blending .
- The controller features with automatic feedback function which can compensate the differences from the presetting values automatically during the dosing cycle.
- In the next raw material at the same time, for the next batch raw material weighing
- Automatic calibration compensation function: in the process of ingredients, the controller can automatically modified with The preset value deviation.
- Can be installed beside the machines or machine.
- Can be controlled at the same time more weighing type metering machine (standard).
- Up to deal with six kinds of raw materials at the same time.
- Can cooperate with suction machine automatic filling material.
- Weighing bulk increases production mode ingredients.
- All parts in contact with the raw material made of stainless steel materials, to prevent
- Structure design of modularization and demountable, save space and convenient cleaning.
- Gravimetric accuracy can reach ±0.3%.
- Hierarchical security password control and alarm function of history.
- Equipped with sound and light alarm, to remind maintenance personnel, quickly reach the machine on-site troubleshooting.

● 规格表 Specification Sheet

产品型号/MODEL	TGB-1	TGB-2	TGB-5	TGB-10	TGB-25
原料种类/ Kinds of Material	2-4	2-6	2-6	2-7	2-10
最大吨位/ Max. Output Capacity(KG/HR)	95-180	190-400	475-800	950-1800	1800-3600

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立式混色机TVM系列 TVM Series Vertical Mixers

TVM

多片式桨叶，产生涡流全方位混合，混
合力强，短时间内完成均匀混料，低耗
能，高效率。采用进口垂直减速机，低
噪音及持久耐用。占地面积小，脚轮装置
移动方便。

Vertical Color Mixers are equipped with
vertical paddles form vortex to mix
material fast and homogenous within
short time, low power consumption, high
efficiency. Vertical structure with castor
wheels for easy moving, small footprint.
To adapt imported vertical type of speed
reduce motor features with low noise
and durable in use.

立式混色机
大型立式搅拌机 Large Vertical Mixers

● 特点 Features

- 桶采用进口不锈钢材料，焊接牢固耐用，表面光滑，清洗方便。
- 混合力强，短时间内完成均匀混料，低耗能，高效率。
- 占地面积小，脚轮装置移动方便(100KG以上标配无脚轮)。
- 台湾垂直减速机，确保噪音低及持久耐用。
- 机盖附有保护开关，操作绝对安全。
- 全密封设计，工作时无粉尘污染。
- 定时器可以选择混料时间从0 ~ 30分。
- 桶盖、桶底称冲压成型，配合精确，更耐用。
- Material Pail is made of stainless steel, well soldered result in durable service life, smooth surface is easy for cleaning.
- The mixing capacity is excellent which can finish mixing within short time with high efficiency, low consumption.
- Small footprint, castors device easy for movement(standard no casters above 100KG).
- Pail lid is equipped with safeguard switch for ensuring safety absolutely.
- Fully hermetic design ensures no dust contamination.
- Mixing time can be set from 0-30 minutes.
- Pail lid and bottom are pressed with precise matching, more durable.

● 规格表 Specification Sheet

产品型号/MODEL	TVM-25	TVM-50	TVM-100	TVM-150	TVM-200	TVM-300
混合量/ Mixing Capacity(KG)	25	50	100	150	200	300
电机功率/ Motor Power(KW)	0.75	1.5	2.2	4	5.5	7.5
电压/ Voltage(V)	380	380	380	380	380	380
外型尺寸/ Dimensions(m)	0.72×0.72×0.92	0.83×0.83×1.12	1×1×1.28	1.13×1.13×1.38	1.2×1.2×1.45	1.3×1.3×1.6
重量(KG)	80	125	170	250	450	550

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卧式混色机 THM 系列 Horizontal Mixer

THM

卧式柔叶，叶片采用加厚不锈钢制作，与桶壁距离精密计算，拌料迅速、均匀。配有摆线针轮减速电机，噪音低，持久耐用。料桶可倾斜100°，方便卸料。

Horizontal paddles are made of added-thickness stainless steel, the distance to barrel wall are precisely calculated reasonable to make fast & homogenous mixing. All these models are equipped with speed reducer motors which feature with low noisy and durable service life. Barrel can be inclined to 100° for easy unloading.

卧式混色机
Horizontal Mixers
大型卧式搅拌机
Large Horizontal Mixers
加热型卧式搅拌机
Heating Horizontal Mixers

● 特点 Features

- 料桶及柔叶采用不锈钢材料制造，清洗容易，避免锈蚀。
- 连锁安全保护装置，确保操作者及机器设备的安全。
- 料桶可倾斜100度，方便卸料。
- 全密封设计，工作时无粉尘污染。
- 定时器可以选择拌料时间从0-30分。
- Material Pail and paddles are made of stainless steel which are anti-rust and easy for cleaning.
- Safety interlock device ensures safety for operators and machine.
- The pail can be tilted 100 degrees, easy and convenient discharging.
- Fully hermetic design ensures no dust contamination.
- Mixing time can be set from 0-30 minutes.

● 规格表 Specification Sheet

产品型号 MODEL	THM-100	THM-150	THM-200
混合量 Mixing Capacity(KG)	100	150	200
电机功率 Motor Power(KW)	2.2	4	4
电压 Voltage(V)	380	380	380
外形尺寸 Dimensions(m)	1.1×0.85×1.3	1.42×0.85×1.3	1.6×1×1.38
重量(KG)	285	358	530

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滚桶式混色机 TRM 系列 Rotary Mixer

TRM

方位360° 旋转混合原料，短时间内完成均匀混料。进料、卸料，可以任意定位，操作方便。

Rotatable angle up to 360°, for easy operation with loading & unloading materials at arbitrary direction and the material in the barrel can be round stirred like swirl to be mixed equably within short time.

● 特点 Features

- 料桶采用进口不锈钢材料,焊接牢固耐用,表面光滑,清洗方便。
- 滚拌桶360度全方位旋转,混合均匀。入料、出料任意定位，操作方便且安全。
- 桶内无搅拌桨设计,混合粉清洗更方便。
- 定时器可以选择拌料时间从0-30分。
- 采用网孔保护罩，结构合理、美观实用，确保操作安全。
- 全密封设计，工作时无粉尘污染。
- Material Pail is made of stainless steel, well soldered result in durable service life, smooth surface is easy for cleaning.
- The material Pail can rotate 360 degree in all direction to ensure even mixing. Loading & unloading material are easy and safe since pail can locate at any degree.
- Inside barrel without paddles design is convenient to clean especially for color concentrate mixing.
- Mixing time can be set from 0-30 minutes.
- To adopt screen mesh protector, optimal structure, elegant appearance, safe operation.
- Fully hermetic design ensures no dust contamination.

● 规格表 Specification Sheet

产品型号 MODEL	混合量 MIXING CAPACITY(KG)	电机功率 MOTOR POWER (KW)	电压 VOLTAGE(V)	外形尺寸 DIMENSIONS(M)	重量(KG)
TRM-50	50	0.75	380	0.9×0.89×1.4	120
TRM-100	100	1.5	380	1.02×1.13×1.5	147

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