

**t-max**

DOSING AND MIXERS

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## Volumetric Dosing Units

# TCM-30

The TCM series volumetric dosers are suitable for auto-proportional mixing of new materials, regrinds, masterbatch and additives. A brushless DC motor is used in this series. The microprocessor accurately controls the rotation of the high precise dosing screws to squeeze out materials with an accuracy of +/-1% from setpoint. A gear motor with deceleration ratio of 30:1 or 100:1 is coupled to a dosing screw of six models with output ranging from 0.1 -32kg/hr. Double color doser can be supplied to match with two single color doser if required by clients.

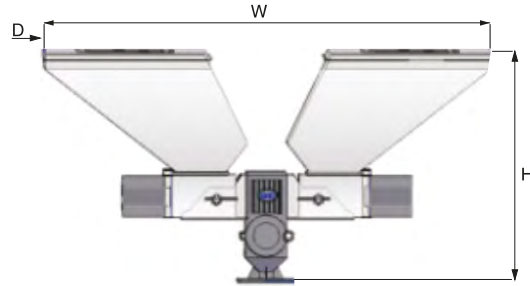
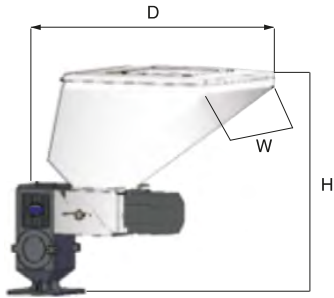


TCM-30

### FEATURES:

- » Everlasting data memorizer and setting storage.
- » Use brushless dc motor and free from maintenance
- » Microprocessor control, intelligent and accurate in calculation.
- » External signals can be directly interfaced with the control box.
- » Dosing screws are chrome plated for durability.
- » Unit is comprised of standard modules for ease of cleaning, disassembly and interchangeability.
- » Three-tubes hopper magnet is equipped at the base of the single color doser to absorb metal impurities so to prevent the screw of moulding machine from damage.
- » Single color doser takes base blender as an option to make blending more evenly.
- » Blender built-in a standard accessory for double color doser and it can meet client's need for double blending.
- » Main material hopper is a standard accessory for double color doser. It is optional for single color doser





### TECHNICAL FEATURES

	TCM-30-16	TCM-30-14	TCM-30-12	TCM-100-16	TCM-100-14	TCM-100-12	TCM-D-30/30	TCM-D-30/100	TCM-D-100/100
Motor Power	0.05	0.05	0.05	0.05	0.05	0.05	0.05X2	0.05X2	0.05X2
Revolution	0-3000	0-3000	0-3000	0-3000	0-3000	0-3000	0-3000	0-3000	0-3000
Mixer Power	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Screw Outer Diameter	16	14	12	16	14	12	**	**	**
Output Capacity	1.0-3.2	1.0-2.0	0.3-1.0	0.5-1.5	0.2-0.8	0.1-0.4	*	*	*
Hopper Volume	10	10	10	10	10	10	10	10	10
Gear Ratio	30:1	30:1	30:1	100:1	100:1	100:1	30:1/30:1	30:1/100:1	100:1/100:1
Main Material Funnel	Optional	Optional	Optional	Optional	Optional	Optional			
Mixer	Optional	Optional	Optional	Optional	Optional	Optional			
Floor Stands	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Dimensions									
Height	580	580	580	580	580	580	580	580	580
Width	530	530	530	530	530	530	900	530	900
Length	290	290	290	290	290	290	290	290	290
Weight	29	29	29	29	29	29	50	29	50

#### NOTE:

“\*” means the output capacity depends on model selected, data of the single color doser can be reference. For example TCM-D-30-16/30 14, output capacity 1.1-3.2kg/hr.

“\*\*” stands for external diameter of screw is up to model selected. Single color volumetrics add to mixer, add “MS” to the back of the model. All output capacities from above models are based on the data from density 1.2, dia. 2-3 mm masterbatch in a test criteria of continuous running. Voltage 1Ø, 230V, 50Hz.

# Gravimetric Dosing Units TGB-600

TGB series weighing mixer adopt the latest single-chip microprocessor, more powerful function, higher speed, and stronger antijamming capability. It has auto compensation ability, when start machine, can automatically calibrate. It is mostly applied in plastic injection, extrusion, or material mix with exact proportion to mold plastic.



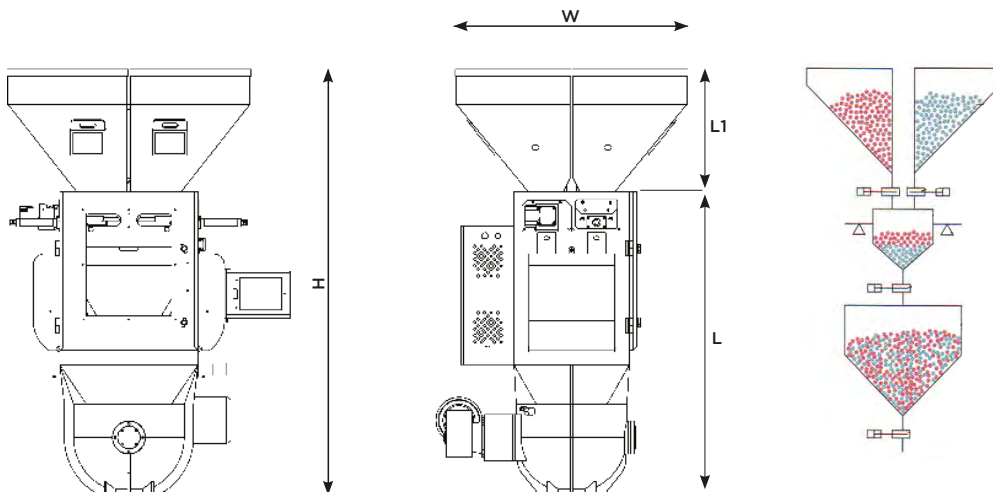
TGB-600-4-1R

### FEATURES:

- » Adopts single-chip microprocessor design, more powerful function, smaller size and good anti interference ability.
- » Use EEPROM, data will not be lost when power off, battery free.
- » Interface state, contact controller, easy use, can store a lot of formula data (500 set).
- » High speed, high accuracy, AD catch material, more stable.
- » All material will be weighed then mix strictly control precision.
- » Recheck the weight data and material, ensure the precision and accuracy.
- » Can directly install it on molding machine, but need to choose and buy base of mixer.
- » When install on the floor, need to but pneumatic material-stop valve, floor stand, storage bunker and material-inhale box.

### TECHNICAL FEATURES

(mm)	Model	TGB-40	TGB-80	TGB-200	TGB-600	TGB-1200
L		810	835	920	1085	1230
W		630	675	710	880	1100
H		1040	1140	1220	1585	1850
L1		305	305	340	500	600



# GRAVIMETRIC DOSING UNITS

Model	Number of Groups	Number of Blades	Number of Screws	Maximum Batch Amount	Air Pressure	Motor Mixing Power	Maximum Output		
TGB-40	4	4	—	1	5-6	0.37	40		
		4-1 R	3				1	40	
		4-2 R	2				2	35	
		4-3 R	1				3	30	
	3	3	3				—	50	
			3-1 R				2	1	50
			3-2 R				1	2	45
	2	2	2				—	60	
2-1 R			1	1	55				
TGB-80	4	4	—	2	5-6	0.37	80		
		4-1 R	3				1	80	
		4-2 R	2				2	65	
		4-3 R	1				3	50	
	3	3	3				—	90	
			3-1 R				2	1	90
			3-2 R				1	2	70
	2	2	2				—	140	
2-1 R			1	1	120				
TGB-200	4	4	—	3.5	5-6	0.55	200		
		4-1 R	3				1	200	
		4-2 R	2				2	180	
		4-3 R	1				3	160	
	3	3	3				—	220	
			3-1 R				2	1	220
			3-2 R				1	2	160
	2	2	2				—	350	
2-1 R			1	1	240				
TGB-600	4	4	—	12	5-6	0.7	600		
		4-1 R	3				1	600	
		4-2 R	2				2	520	
		4-3 R	1				3	500	
	3	3	3				—	650	
			3-1 R				2	1	650
			3-2 R				1	2	500
	2	2	2				—	1000	
2-1 R			1	1	700				
TGB-1200	4	4	—	25	5-6	1.5	1200		
		4-1 R	3					1200	
		4-2 R	2					1100	
		4-3 R	1					1050	
	3	3	3					1300	
			3-1 R				2		1150
			3-2 R				1		1450
	2	2	2					1350	
2-1 R			1		1200				
TGB-1500	2	2	1	30	5-6	1.5	1600		
		2-1 R	1				1	1500	
		3	3					1600	
	3	3	3-2 R				2	1	1550
			3-2 R				1	2	1400
			4				4	—	1500
	4	4	4-1 R				3	1	1500
			4-2 R				2	2	1400
4-3 R			1	3	1300				
TGB-2000	2	2	—	40	5-6	2.2	2200		
		2-1 R	1				1	2000	
		3	3				—	2100	
	3	3	3-1 R				2	1	2000
			3-2 R				1	2	1950
			4				4	—	2000
	4	4	4-1 R				3	1	2000
			4-2 R				2	2	1900
4-3 R			1	3	1800				

ϕ, 230V, 50 Hz

- 1) Proportion error is the D-value from set data to actual proportion
- 2) Knife maturing is suitable for proportion above 5%, the error can be below +/-0.3%
- 3) Screw or micro quantity maturing is suitable for 0.5% to 5% proportion, the error can be below +/-0.1%
- 4) The result above is got from test with granule of 3-4 diameter, aggregation degree 0.8, continuous running.



## Proportional Valves

# TPV-38U

The TPV series of proportional valves mix regrind and new materials in a proper proportion, and then send them back to the process machine to achieve a proportional mixing and loading effect. It features directly mounted on loaders or mounted by the pipeline. Besides, it is applicable to loaders and equipped with control box to perform when it other situations.

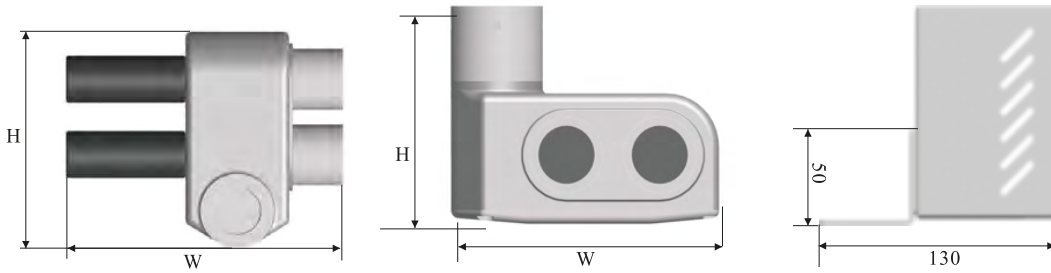
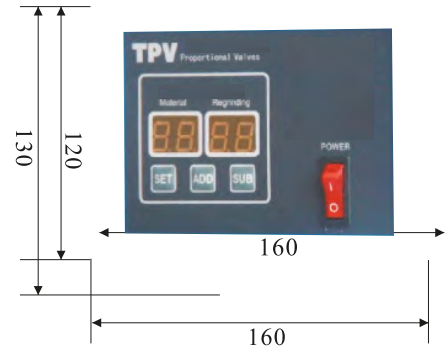


TPV-38U



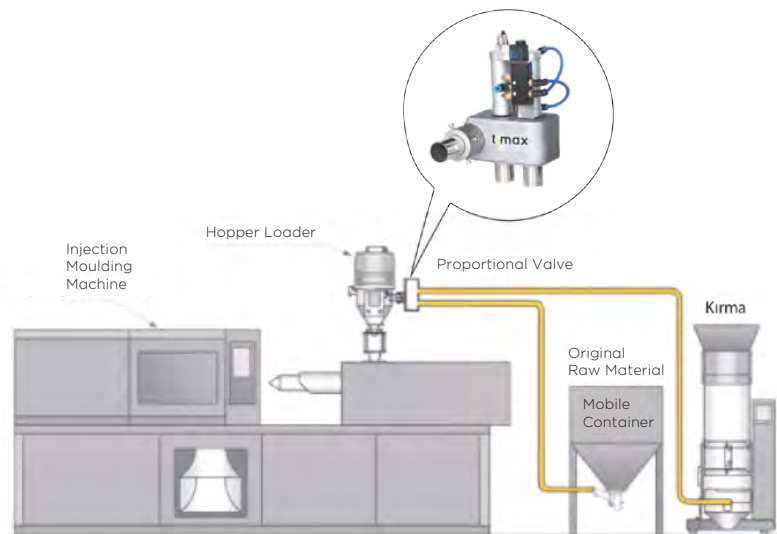
FEATURES:

- » Classy appearance, easy installation and operation.
- » Unique design of valve body, made material conveying smoother
- » The performance of solenoid valve is so stable that the air cylinder acts accurately to ensure a proportional mixing of new and regrind materials.
- » Instant recycling the regrind materials to reduce the production cost.
- » Microprocessor control intelligent and accurate.
- » Setting ratio of virgin and regrind.
- » Attractive appearance, and easy to access.



TECHNICAL FEATURES

Model	Air Pressure	Driver	Maximum Flow	Pipe Size	Compressor Air Connection	Electrical Connection
TPV-38	3Kgf/cm <sup>2</sup>	Air Cylinder	350Kg/hr	38mm	4-6 bar	220 V, 50 Hz
TPV-50	3Kgf/cm <sup>2</sup>	Air Cylinder	550Kg/hr	50.8mm	4-6 bar	220 V, 50 Hz



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