

YOUR PARTNER IN MIXING



plas@mec
Excellence in Mixing

This is **PLAS MEC**



5.600
plants sold



49
years of
experience



1.700
customers



95%
export



We cover the **worldwide market!**

PLAS MEC is an italian worldwide leading manufacturer of mixing equipment and services for **PVC dry-blend, thermoplastic rubbers, powder coatings, masterbatch, metallic bonding** and **WPC**.

PLAS MEC sets itself apart by its proven flexibility to provide **highly customized** and **top performance mixing machines and solutions** to cope with whatever mixing need any customer may have.

At **PLAS MEC** we take care of the **whole manufacturing process**; we respond to customer's needs and design customized solutions, producing in house every single mechanical and electronic item from which your mixer is built assuring the highest standards of quality control.

Together with our customers we develop **new methods of processing** different kind of materials and verify the preliminary results directly at our **testing room**.

PLAS MEC has a **testing room** equipped with the whole range of mixing machinery. Customers can test, together with our technical engineers, their products in order to evaluate the best mixing plant for their production needs.



HEATING MIXERS

TRM HEATING MIXER

PLAS MEC TRM Heating Mixer is used for rigid and soft PVC mixing and mixing rigid or plasticized PVC dry-blend obtained from polymers in suspension, emulsions or mass), pigments and masterbatch.



TRM	Total capacity	Mix (¹) weight	Motor power
Type	litres	kg	kW (²)
TRM 200	200	90	45
TRM 250	250	110	55
TRM 300	300	140	75
TRM 400	400	180	90
TRM 500	500	220	110
TRM 600	600	260	132
TRM 700	700	310	160
TRM 800	800	360	200
TRM 1000	1000	450	250
TRM 1200	1200	540	315
TRM 1500	1500	675	355
TRM 2000	2000	900	450
TRM 2500	2500	1100	560

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

(¹) The mix weights are valid for PVC-suspension formula with an apparent density of 0,55 Kg/L inclusive of additives and for plasticized PVC-suspension with a percentage of plasticizers not greater than 40 p.h.r.

(²) Direct current motors, frequency variators. Or soft-start can be fitted to all models on request.

PVC MIXING

HC COMBIMIX

HORIZONTAL COOLER COMBINATION is the combination of the heating mixer TRM and the high performance horizontal cooler HEC.



HC COMBIMIX	HOURLY PRODUCTION kg/h	
	Rigid PVC	Plasticized PVC
Type	max (°)	max
HC 250/800	880	630
HC 300/1000	1100	760
HC 400/1000	1400	1020
HC 500/1500	1750	1260
HC 600/1500	2100	1530
HC 700/2500	2500	1800
HC 800/2500	2900	2040
HC 1000/3500	3600	2550
HC 1200/3500	4300	3000
HC 1500/4500	5400	3840
HC 2000/5500	7200	5100
HC 2500/6500	8800	6300

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

(°) Valid for fully-automatic operation with final temperature of 120°C for turbomixer and 45°C for cooler; but only when cooling water flow is sufficient and water temperature is no higher than 15°C.

PVC MIXING

COMBIMIX-RV

PVC mixer COMBIMIX-RV is the combination of the heating mixer TRM and the vertical cooler RFV.

COMBIMIX-RV Capacity	HOURLY PRODUCTION kg/h	
	Rigid PVC	Plasticized PVC
Type	max (°)	max
RV 200/400	595	510
RV 300/800	890	762
RV 400/1000	1200	1020
RV 500/1000	1470	1260
RV 600/1600	1785	1530
RV 700/1600	2100	1800
RV 800/2000	2380	2040
RV 1000/2500	2975	2550
RV 1200/2500	3500	3000
RV 1500/3600	4500	3800



N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

(°) Valid for fully-automatic operation with final temperature of 120°C for turbomixer and 55°C for cooler; but only when cooling water flow is sufficient and water temperature is no higher than 15°C.

COMBIMIX-RO

COMBIMIX-RO is the combination of the heating mixer TRM and the horizontal cooler RFO. It is used for those applications where the mixing process has a higher dry-blend final temperature.

COMBIMIX-RO Capacity	HOURLY PRODUCTION kg/h	
	Rigid PVC	Plasticized PVC
Type	max (°)	max
RO 200/500	595	510
RO 300/1000	890	762
RO 400/1200	1200	1020
RO 500/1500	1470	1260
RO 600/1500	1785	1530
RO 700/2000	2100	1800
RO 800/2500	2380	2040
RO 1000/3000	2975	2550
RO 1200/3000	3500	3000
RO 1500/4500	4480	3840
RO 2000/5500	5950	5100



N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

(°) Valid for fully-automatic operation with final temperature of 120°C for turbomixer and 60°C for cooler; but only when cooling water flow is sufficient and water temperature is no higher than 15°C.

CONTAINER MIXER TRR

PLAS MEC Container Mixer TRR is used for cold mixing of polymers, concentrated master-batches and powder coatings and pre-mixing of all kind of powders.



TRR CONTAINER MIXER	Total capacity	Weight per batch	Main motor	Titling motor
Type	litres	kg ⁽¹⁾	kW ⁽²⁾	Motor kW
TRR 150	150	60	11	11
TRR 300	300	120	18,5	-
TRR 500	500	200	30	-
TRR 600	600	240	30	-
TRR 700	700	280	45	-
TRR 1000	1000	400	55	-
TRR 1500	1500	600	75	-
TRR 2000	2000	800	90	-

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

⁽¹⁾ The weight per batch is calculated with bulk density of 0,5 Kg/L.

⁽²⁾ On request it is possible to apply twin-speed motors or motors with a frequency converter to control the speed of the mixer tool.

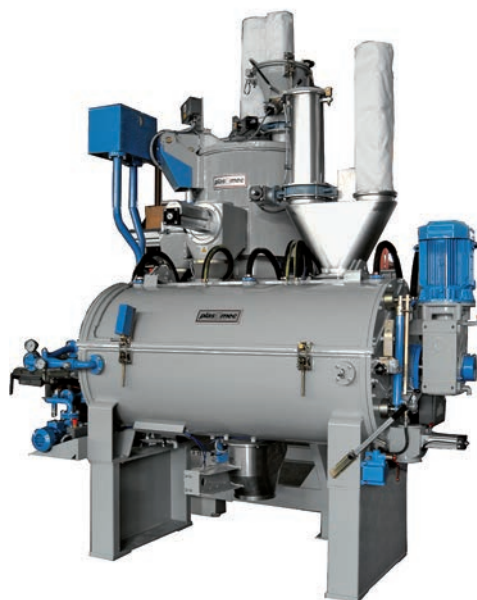
METALLIC BONDING

COMBIBOND HC/B

PLAS MEC has developed this mixing plant that consists in the combination of the TURBOMIXER TRM and a cooling mixer to achieve the bonding process.

COMBIBOND HC/B Capacity	Capacity per batch
Type	kg
HC/B 300/1000	120
HC/B 400/4500	170
HC/B 500/1500	200
HC/B 600/2500	240
HC/B 700/2500	300
HC/B 800/2500	340
HC/B 1000/2500	400
HC/B 1200/3500	500
HC/B 1500/4500	625

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.



METALLIC BLENDING

TRR/B CONTAINER MIXER

The PLAS MEC TRR/B model is the most robust, reliable and simple system for the Powder Coating Pre-mixing process existing on the market today.

TRR/B Capacity	Total capacity	Weight per batch	Main motor
Type	litres	kg	kW
TRR/B 150	150	60	11
TRR/B 300	300	120	18,5
TRR/B 500	500	200	30
TRR/B 600	600	240	30
TRR/B 700	700	280	45
TRR/B 1000	1000	400	55
TRR/B 1500	1500	600	75
TRR/B 2000	2000	800	90

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.



COMBIWOOD HC

The advantages of using our mixing plants are the possibility of utilizing natural fiber, agglomerate with a residual moisture less than 0,2%, product dust free and easily processable in extruder.



COMBIWOOD HC-W	TECHNICAL DATA	
	Total capacity	Wood 50% / PVC-PP-PE 50%
Type	litres	kg/batch
HC-W 300/1000	300	80
HC-W 400/1000	400	107
HC-W 500/1000	500	134
HC-W 600/1600	600	160
HC-W 700/1600	700	187
HC-W 800/2000	800	213
HC-W 1000/2500	1000	267
HC-W 1200/2500	1200	320
HC-W 1500/3600	1500	400
HC-W 2000/5500	2000	534
HC-W 2500/6500	2500	668

LABORATORY MIXERS

TRL

The laboratory mixer TRL is suitable for PVC dry blend, powder coatings, masterbatch and pigments, thermoplastic rubbers, wood plastic composites and offers high reproducibility of the process environment on the production plants in order to provide essential data to improve productivity and quality.



TRL	Mixer capacity	kg per batch
Type	litres	kg/batch
TRL 5	5	2,2
TRL 10	10	4,4
TRL 20	20	8,5
TRL 30	30	12
TRL 50	50	21
TRL 100	100	42,5

N.B. The data shown in the table are purely indicative and must be confirmed by PLAS MEC.

OTHER APPLICATIONS

TURBOMIXER TRG

Thermoplastic rubber. Capacity from 60 to 2.500 litres



HORIZONTAL BLENDER HEB

Ribbon blender. Capacity from 1.500 to 8.500 litres



HORIZONTAL UNIVERSAL MIXER HUM

Capacity from 500 to 23.000 litres



VERTICAL UNIVERSAL MIXER TRA

Capacity from 200 to 2.000 litres





SALES NETWORK WORLDWIDE

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100% MADE IN
PLAS MEC

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