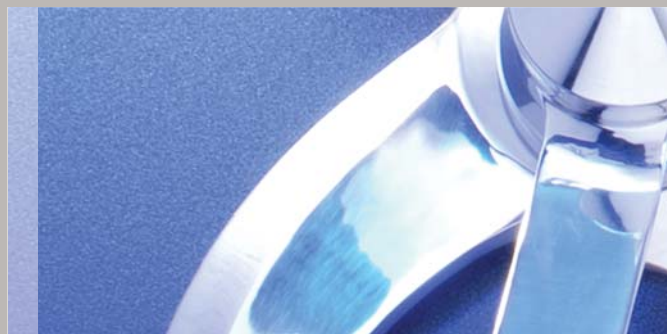


..... is a realty in POWDER COATING.

For achieving this, we have concentrated our experience of more than 30 years in powder mixing and we achieved the following: versatile mixing machines of excellent quality for POWDER-COATING PREMIXING, METALLIC BLENDING and METALLIC BONDING.

Our system for POWDER COATING, explained in the following, represents different types of mixing machines thus offering a wide range as to dimensions and accessories so to satisfy all requirements which are considered of primary importance in modern production processes, where high efficiency, regular performance and excellent reliability are essential factors for the success.

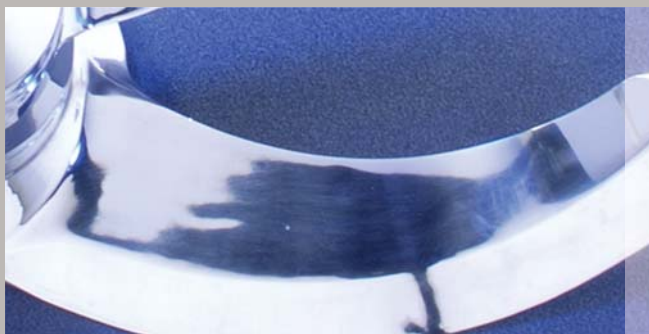
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QUALITY



TECHNOLOGY



SERVICE

THE MARKET

Through our SALES OFFICE
we are present
in the following markets:

EUROPE

All countries of the "European Union"
and also Norway, Switzerland,
Turkey, Russia.

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Argentina, Brazil, Chile,
Colombia, Ecuador, Peru,
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Canada, United States.

CENTRAL AMERICA

Costa Rica, Cuba, Mexico.

MIDDLE EAST

Saudi Arabia, Egypt,
United Arab Emirates, Jordan,
Iran, Yemen, Lebanon, Syria.

FAR EAST

China, Korea, Philippines, India,
Indonesia, Malaysia, Pakistan,
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Vietnam.

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POWDER COATING

PLAS MEC Mixing Technology



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Premixing and Metallic Blending

TRR Turbomixer

For the manufacturing of Powder Coatings a pre-mix feedstock is required for the extrusion which must be a complete homogeneous mixture of all the raw materials to be fed into the extruder. These raw materials in thermosetting systems comprise polymers generally of low molecular weight, hardeners, catalysts, cross-linking and curing agents, pigments and extenders and flow-control additives in a range of particle sizes > 10 micron - < 10 mm. The TRR portable container mixers have been

around for many years. The open top container can be attached to the mixing head so to mix any batch of material. After mixing, the container is inverted and lowered on to its trolley to be transferred to the extrusion line.

These characteristics minimise the cleaning of the material contact-surfaces on the mixer-head and the container. The container can be handled by an overhead crane or by moving it on the trolley wheels attached to each separate container. This gives the flexibility for rapid process changeover and increases the utilisation of the mixer in a modern Powder Coating facility.

The portable container allows the next batch to be processed while waiting for quality-control testing of the previous batch. The PLAS MEC TRR model is the most robust, reliable and simple system for the Powder-Coating Pre-mixing process existing on the market today.

TYPE	Total capacity litres	Usefully capacity litres	Batch weight Kg ⁽¹⁾	Main motor kW ⁽²⁾	Motor for tilt-over kW
TRR 150	150	120	60	4	0,37
TRR 300	300	240	120	5,5	0,56
TRR 500	500	400	200	11	0,75
TRR 700	700	560	280	15	0,75
TRR 1000	1000	800	400	22	2,2
TRR 1500	1500	1200	600	37	2,2
TRR 2000	2000	1600	800	55	3

N.B. The data in the table are given merely by way of example and will have to be confirmed by PLAS MEC.
1) The weights per batch hold for mixer with an apparent 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

The production of Metallic Powder Coatings is best achieved via the Bonding process that is relatively safe and does not leave any free metal particles within the powder when correctly bonded. The Bonding process can be described as the complete and perfect attachment of metal pigments to thermosetting Powder Coatings.

For reaching this result, PLASMEC has developed two different techniques for Metallic Bonding:

- TRR container mixer in the Bonding configuration

- COMBIBOND HC/B plant consisting of a turbomixer and a cooling mixer.

Both technologies offer an excellent metallic Bonding effect by a simple and safe process, however also the risk of any blast of aluminium pigments has been taken into account.

This obstacle is be overcome by inerting the bonding chamber using a controlled nitrogen atmosphere.

COMBIBOND TYPE:	CAPACITY PER BATCH	MOTOR POWER kW TRM	MOTOR POWER kW HEC
HC/300/1000	120	40	11
HC/400/1500	170	50	15
HC/500/1500	200	65	15
HC/600/2500	240	75	22
HC/700/2500	300	90	22
HC/800/2500	340	100	22
HC/1000/2500	400	120	22
HC/1200/3500	500	150	30
HC/1500/4500	625	180	45

N.B. The data in the table are given merely by way of example and will have to be confirmed by PLAS MEC.



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1. CONTAINER MIXER TRR-1000/FR/FV for pre-mixing
2. COMBIBOND-HC/B for metallic bonding
3. The inside of a horizontal cooler/homogenizer "HEC"
4. Special cooled mixing tool for metallic bonding