



GRANULE

GRANULAR
METERING SYSTEMS

COM
MINI-COM



WÜRSCHUM

Dosieranlagen · Abfüllmaschinen
Metering Systems · Filling Machines



COM Granular Color Metering System

Pneumatic conveying of granule and compact pigment directly into concrete mixer or into filter cyclone.

Advantages

- Dry dust-free processing
- Short cycle time, up to 1 kg/sec (2.2 lbs/s) metering speed
- Separate conveying vessels for each mixer with COM 70-3 and COM 70-6
- Up to 6 preweighed batches can be held – ideal for „colormix“ paver production
- Filter cyclone above mixer, as scale CF 40-S
- Rugged industrial steel support frame
- Coarse/fine metering with superfine option for extreme accuracy ± 5 g (0.2 oz), with shutoff valve
- Fast pneumatic conveying
- Accurate electronic weighing
- Unlimited possibility of color shades
- Comprehensive customer support
- Modular design, configured to meet all plant requirements
- Versatile system for C-Pigment and G-Granule



▲ **COM 70-3** Granular metering system with three conveying vessels for 6 colors in 3 mixers with one electronic weigh hopper



Description

The granules are delivered in Big-Bags (super sacks) and are then emptied into change tote bins or placed into the Big-Bag discharge station. These are put onto the rugged steel support frame by forklift. Granules are then fed into 70 l (18.5 gal) surge hoppers which supply the coarse-fine vibration tubes. Metering is carried out by the vibration tubes into the electronic weigher.

From the weigh hopper the color batch can be discharged in up to 6 pressure vessels. These pressure vessels serve as holding hoppers for the preweighed batches which can be discharged immediately to the mixer on demand while another weighing process is carried out. The color batch is conveyed directly to the mixer fitted with dust collector or to filter cyclone.

NEW - Highest Precision $\pm 1g$ (0.04 oz)



▲ **COM 70-1** Granular metering system with one electronic weigh hopper and one conveying vessel for 4 colors in 2 mixers with diverter valve

COM 70-3 Granular Metering System with 3 pressure vessels for 6 colors in 3 mixers. Low profile design with tote bins GC 1500





COM Granular Color Metering System



COM 70-1

Basic version with separate pressure vessel used as holding vessel. One weigh hopper discharges into one pressure vessel, serving one mixer, or several mixers with diverter valves.

Advantages

- Dust free discharge of weigh hopper and conveying vessel.
- Start weighing immediately after weigh hopper is empty.
- Weighing can be done parallel, while batch is conveyed up to mixer - no delays.
- Fully integrated metering control with easy to use touch panel.
- Same height as Type COM 70-3, offering future system extension.

COM 70-3

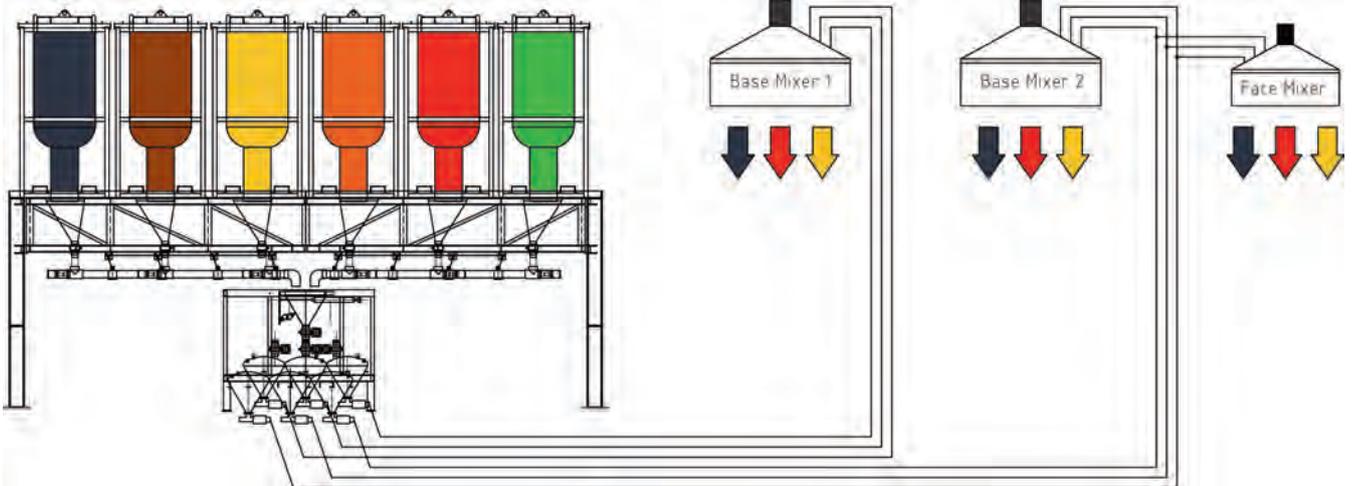
Metering system with 2 or 3 conveying vessels can serve one mixer each or preweigh several color batches parallel. For pigment discharge on demand without delay.





COM 70-6

In the new metering system COM 70-6 the customer can weigh 6 different color batches and keep them on stand-by for immediate use. This is ideal for 6 different colors in a face mix, or for a plant with up to 6 mixers using colors.



Advantages of COM 70-3 and COM 70-6

- Each mixer is served by an individual pressure vessel holding preweighed batches
- No delays - all color batches are readily available and can be conveyed immediately to mixers, even at the same time
- Up to six conveying vessels to preweigh several color batches parallel for „color-mix“ production
- Start weighing immediately after weigh hopper is empty



MINI-COM High Precision Metering System

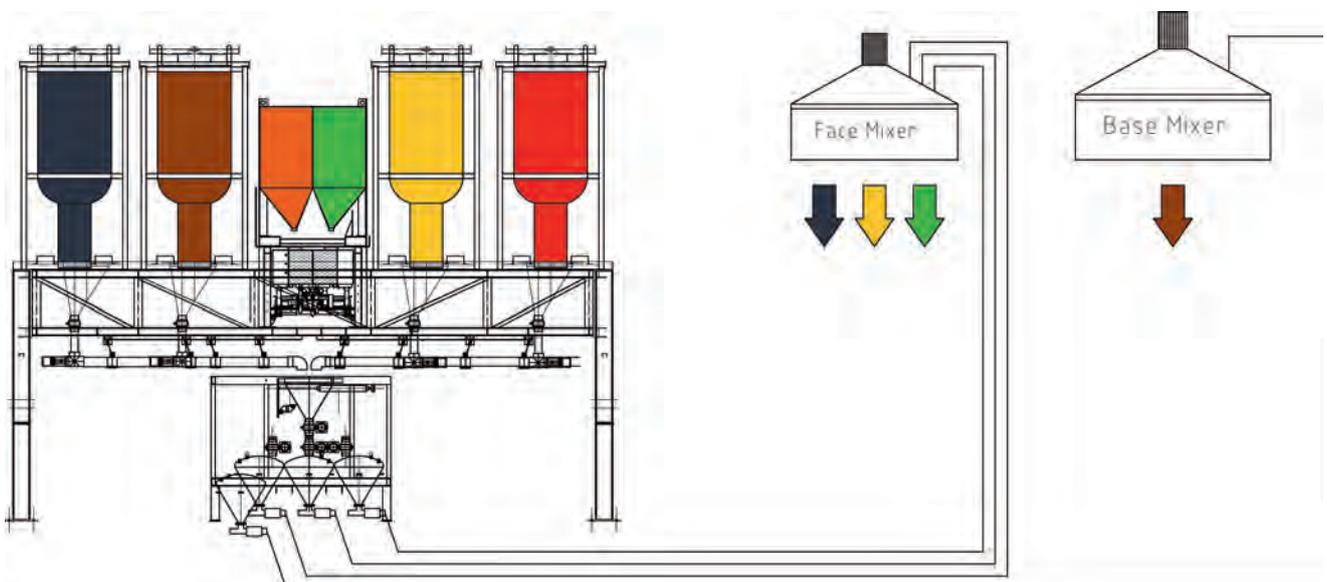
The MINI-COM is a precision metering system for granule pigments, which allows for +/- 1 g (0.04 oz) accuracy. It can be integrated in an existing color system. The MINI-COM meters the small quantities of 20 - 200 g (0.7 - 7 oz) in a very small precision scale and adds them to the 200 g - 30 kg (7 oz - 65 lbs) of the Big-Bag system. The MINI-COM system can also be used as a stand-alone unit.



◀ **COM 70-1**
with 4 bulk bags and MINI-COM 10-2
for two colors from paper bags

COM 70-4
with 4 bulk bags and 4 sending vessels,
three to face mixer, one to base mixer.

▶ **MINI-COM 10-2**
for two colors from paper bags





The new precision metering system MINI-COM meets the highest requirements in accuracy. Designed in particular for face mix applications in the paver industry, where small concrete batches require small dosages of colors with extreme accuracy. The MINI-COM can meter with an accuracy of +/- 1 g (0.04 oz) to create that special color shade your customer wants. MINI-COM utilizes exchangeable containers with one to four individual compartments. Ideal for face mix and color-mix applications. The MINI-COM can be retrofitted in an existing granular system type COM.

- ◀ **MINI-COM 10-4**
with four compartment change container,
accuracy +/- 1 g (0.04 oz)

Accessories / Control



Filter cyclone CF 40

It is also possible to convey into a filter cyclone mounted above the mixer. This is necessary if the mixers are not sealed, or for quick discharge. The filter cyclone is fitted with air shock to clean filter elements, holding hopper. The filter cyclone CF 40-S is additionally equipped with a scale for weight check.



Accessories

- Filter cyclone with hopper above mixer
- Filter cyclone as scale above mixer for weight check
- Diverter valve for serving multiple mixers.
- Change tote bin with butterfly valve to remove partially empty tote bin
- Change tote bin with extra low profile design
- Mixer dust filter with motor

Control

- PC Control with process visualisation, statistics, password levels, remote access with reporting
- Touchpanel Control with storage of recipes, visualisation and remote maintenance
- Simple PLC Control for basic versions
- Control can be integrated into the batching plant control
In this case we will provide control information

- ◀ **CF 40-S filter cyclone**
with electronic load cell and easy to clean filter element



COM Granular Color Metering System

Versatile, proven Granular Systems with custom made versions



- ◀ Combined Granular Metering System with two COM 70-2 for 6 colors in 4 mixers with 2 weigh hoppers and 4 pressure vessels. System is equipped with 6 change containers for low profile design



- ◀ COM 70-1 Granular Metering System for 5 colors in 2 mixers with one weigh hopper, one pressure vessel and one diverter valve



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