

The **CrossMix**<sup>™</sup> is a twin paddle mixer that gently lifts and fluidizes solids in a weightless zone where particles of any size or shape are can move freely and mix rapidly. <u>Mixing is usually completed in 7 to 20</u> <u>seconds.</u> The **CrossMix**<sup>™</sup> is most beneficial for solids that require *HIGH HOMOGENEITY*, are *FRAGILE* such as coffee, trail mix and crystals or solids that may *SMEAR* with over mixing such as pigments or waxy or oily products.

LIQUID ADDITION and COATING is fast and efficient in the **CrossMix**<sup>™</sup>. Particles are separated in the weightless zone, exposing maximum surface area to allow liquid spray droplets to contact more particles more quickly. This can result in less liquid being used for coating and less agglomeration.



Talk with the Experts

phone 630.350.3012 sales@pauloabbe.com fax 630.238.7584 www.pauloabbe.com









PAULO.ABB

# Discharges Faster than it Mixes.

Two full-length bombbay discharge doors assure that the solid will not segregate during discharge. Multiple pneumatic cylinders assure positive closing and fast opening. Limit switches on each door signal that each door has opened for discharge and signals that the doors are closed and ready for the next batch. Heavy-Duty Syncronzied Drive

Overlapping Paddles





# *Working capacities from 0.2 to 176 cubic feet.*

show with syncronized hollow-bore drives

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fax:

Since 1911

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# Talk with the Experts ( 630-350-3012





Drawing 1 (CMX-0.2 to CMX-18)





Drawing 2 (CMX-27 to CMX-177)

Model	Working Volume (ft <sup>3</sup> ) [1]	Mixer HP [2]	Pin Mill HP	А	В	С	D	E	F	weight (Ibs.)	dwg.
CMX - 0.2	0.2	0.75	na	15.7	na	na	29.5	na	na	300	1
CMX - 0.7	0.7	1	0.75	26.0	18.5	15.7	35.4	18.5	19.1	400	1
CMX - 2.1	2.1	3	1	37.8	26.8	22.4	36.6	26.8	N.A	650	1
CMX - 4.3	4.3	5	1	43.7	33.1	28.3	44.9	33.1	31.9	1,100	1
CMX-7	7.1	5	1	51.6	39.4	33.5	51.2	39.4	37.4	1,600	1
CMX - 12	12	7.5	2	64.2	49.2	39.4	58.7	49.2	43.3	2,500	1
CMX - 18	18	10	3	72.8	53.5	45.7	64.6	53.5	46.5	2,950	1
CMX - 27	27	15	5	82.7	39.4	52.0	75.4	39.4	58.3	3,980	2
CMX-35	35	20	5	86.6	35.4	57.1	78.0	43.7	61.4	5,400	2
CMX - 53	53	30	5	99.6	49.6	65.9	92.5	45.3	67.9	8,170	2
CMX - 71	71	40	7.5	115.4	59.1	73.6	101.6	57.1	80.3	10,600	2
CMX - 88	88	40	7.5	124.0	63.8	78.0	105.9	61.0	82.7	13,150	2
CMX - 127	127	50	10	138.5	68.9	91.3	134.3	63.0	94.5	18,700	2
CMX - 177	177	75	10	118.6	78.7	98.4	177.2	78.7	94.5	25,000	2

Dimensions and capacities are approximate and subject to change. Do not use for installation.

[1] Standard working capacity is with fill level to top of shaft.

[2] Horsepower based on a bulk density of 60 lbs./ft3



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# MIXING **Application**





	Date	20	
Company			
Contact			
Title			
Address			
City		St	Zip
City Country		St	Zip
City Country Phone		St	Zip
City Country Phone Mobile		St	Zip
City Country Phone Mobile Fax		St	Zip

How did you learn about PAUL O. ABBE?

# **<u>MIXING EXPERIENCE</u>** (describe your present mixing method)

Type of Mixer & Size \_\_\_\_\_

How is this method performing?

# **SOLID & LIQUID PRODUCT CHARACTERISTICS**

Product is: Dry Wet Paste Mastic Compound

#### CAPACITY

	by Volume	🗆 ft <sup>3</sup> or liters per	hour(s)
or	by Weight _	□ lbs. or □ kgs. per	hour(s)

# **SOLID COMPONENTS**

Name(s)	
Bulk Density (lowest/min.)	□ lbs./ft³ / □ g/cc
Bulk Density (tapped/max.)	□ lbs./ft <sup>3</sup> / □ q/cc

Other Characteristics: 
□ Friable 
□ Dusty □ Cohesive □ Abrasive □ Paste □ Agglomerates □ Hygroscopic □ Oxidizes

# If a Paste, Mastic or Compound:

Viscosity	cps @	□°F / □°C
Rheology:  □ Thixotropic	□ Pseudoplastic □ Dilatent	Newtonian

#### If Solids:

Particle Size Distribution:	mesh or	□ µ microns	
0	/ loss then		

/// 1635 (11411	
% less than	
% less than	

**PRESSURE** Mixing is performed under:

□ atmospheric pressure

□ vacuum \_\_\_\_\_ "Hg □ pressure \_\_\_\_\_ psig

#### **TEMPERATURES**

Incoming product	□°F / □°C
During mixing	□°F / □°C
After mixing	□°F / □°C

# LIQUID ADDITION

Are liquids added during th	ne process? 🗆 Yes 🗆 No	
Name(s)		
Liquid Viscosity	cps @	_ □°F / □°C
Quantity	usg / 🗆 liters	_
Rate of Addition	🗆 🗆 gpm / 🗆 lpm	

# **HEATING/COOLING JACKET**

Required for heating to	_ □°F / □°C
Required for cooling to	_ □°F / □°C
Medium:  water  steam  hot oil	
Jacket Rating:  14.7 psig non-code	
ASME code stamped for	psig

**DISCHARGE** The final product is a:

□ free-flowing powder that can be bottom discharged.

- □ free-flowing liquid or paste that can be bottom discharged.
- non-free flowing powder that must be <u>dumped</u>.
- □ solid, mastic or compound that will be dumped.
- □ solid, mastic or compound that will be extruded with a screw.

#### **CLEARANCES**

Clearance below discharge	"
Height/ceiling restrictions	"

# **PRODUCT CONTACT MATERIAL**

- □ 304, □ 316 □ 316L Stainless Steel
- Other Alloy
- Coating \_\_\_\_\_

# EXTERNAL & SUPPORT MATERIALS

mild steel
 0 304
 other

# SURFACE FINISHES

External Structural: 

coated, 

other

### **UTILITIES AVAILABLE**

Electrical	voltage,	phase, Hz
Vacuum	"Hg, <u> </u>	cfm
Air	_psig,	cfm
Water	□°F / □°C,	gpm, psig
Steam	psig,	lbs./hour

# **ELECTRICAL CLASSIFICATION**

Will *mixer* and *controls* be in different areas? 
\_ Yes \_ No Motor Classification:

□ non-classified TEFC

Class: 
□ Cls. I (gas/vapor), □ Cls. II (dust)

Division: Div. 1 (Class substance is present in normal conditions) Div. 2 (Class substance is present in abnormal conditions)

Electrical Enclosures: 
NEMA-12, 
NEMA-4 (washdown) □ NEMA-4X (washdown & corrosive), □ NEMA-7&9 (XP) □ NEMA-4,7&9, □ other \_\_\_\_

### SUPPORT EQUIPMENT REQUIRED

□ Vacuum System □ Solvent Recovery Heating Cooling □ Liquid Addition □ Inert Gas Purge □ Lump Breaker □ Solids Sampler □ Loading/Unloading Controls

# **PROJECT SCHEDULE**

Start-Up Scheduled for 
1<sup>st</sup>
2<sup>nd</sup>
3<sup>rd</sup>
4<sup>th</sup>
Qtr., 20 Is Project Funded: 
Ves 
No Installation Location (State or Country)