ProFiller® 1100 Hand-Held Capsule Filling System

For Use in R&D • Pharmacy Compounding • Nutritional Supplements • Clinical Studies

NEW FEATURES

- All metal parts Inox (SS316)
- Fully dishwasher safe
- Includes Capsule Locker & Powder Tray Clamps
- Faster Orienter size change

Fill Sizes 00-4 using only Change Parts

Available in 300 hole hand-held & bench-top.
CapsuleConnection.com

Easier To Use

- Multiple design features make it easier to use than other 100 hole systems (pg. 2).
- Fill powder using tapping, tamping or vibration (optional) Now 20% smaller for easier tapping.
- Includes a Capsule Locker for hard-to-lock powders.
- Shipped fully assembled. Ready for use in 5 minutes.
- Well-illustrated manuals in multiple languages. Video tips at **CapsuleConnection.com.**

Faster Size Changes & Cleaning

- Change capsule sizes in only 2 minutes. Change Parts available for Size 000-5, 00el-2el.
- Size changes are adjustment and tool free.
- All parts are dishwasher safe & can be dried in a hot air oven or with a portable hair dryer.
- Designed for fast disassembly & visual verification of cleaning.
- High GMP, all metal parts are Inox (316 stainless steel).

Pharmacopoeia Compliant

- Fill weights, USP/EP method within ± 1-2% of average. **More information.**
- Validation package available for cGMP compliance.
- Works with all capsules including gelatin, vegetarian/HPMC and starch capsules.

Up to 2000-3200 capsules/hour

based on powder, operator speed & number of taps/tamps.

Higher Output

- Up to 35% faster than other 100 hole systems based on a patented design and included accessories.
- Inox (Stainless Steel 316) plates for reduced static.
- Tamper size range optimized for higher fill weights and faster filling.
- Unique features include lightweight 2-piece Orienter, Orienter locater and oversize Powder Tray & clamps.
- Fully lock capsules after filling, unlike most hand-held fillers - saving you time and frustration!

Optional Accessories

- Powder Vibrator.
- Partial Batch Kit for filling fewer than 100 capsules / batch.
- Capsule Bottle Transfer Tray.
- Over-Encapsulation parts for tablets, capsules & caplets.

For filling AAA-E ask about the ProFill OE.

For Higher Output choose from our 300-hole systems

ProFiller 3600

ProFiller 3700

ProFiller 3800

Distributed By:

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Prescott, AZ 86303
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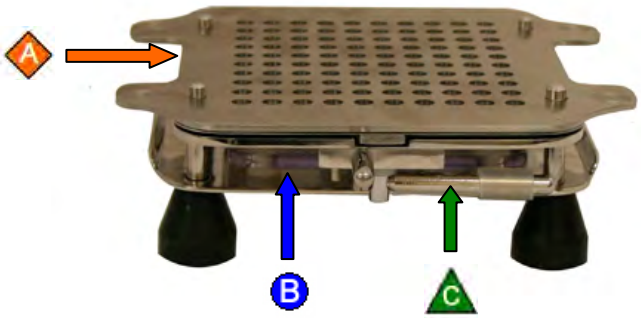
email: info@CapsuleConnection.com
www.CapsuleConnection.com

14 design elements that make the ProFiller 1100 the 100-hole Hand-Held Filler of Choice

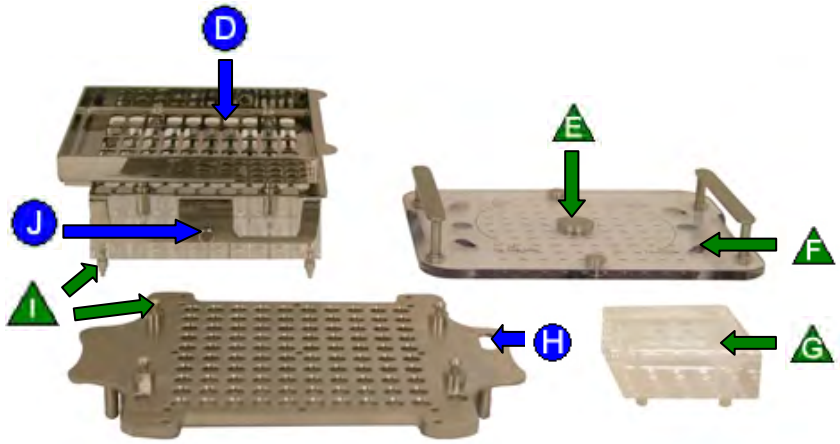
Shipped Fully Assembled
Fully Dishwasher Safe
2 minute Size Changeover

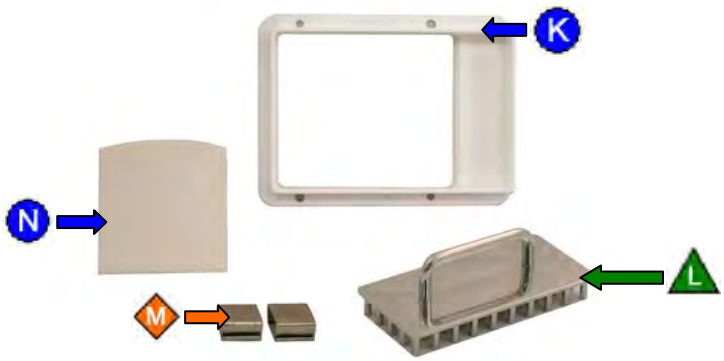
- Ease of Use
- GMP
- Speed



A	All metal parts Inox (316 Stainless Steel) for less static and improved GMP
B	Adjustment-free Spacer Plate for fast size changes and consistent fill weight
C	Cam Handle for fast capsule separation

D	Patented design slots, laser cut for 100% capsule orientation
E	Locking Plate with domes to prevent capsule cap dents
F	Fully separates from Caps Tray for easy removal of filled capsules.
G	25-hole Capsule Locker is size-specific. Speeds locking, prevents over-locking & capsule body dents
H	Locked Capsule Indicator
I	Locating Pins in Orienter & locating holes in Filler for 100% capsule transfer into Filler
J	Orienter. Now only 2 screws from sides for size change. Use without screws and shake only lightweight orienter tray.

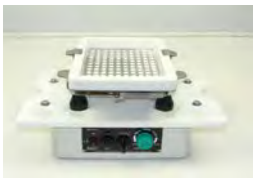




K	Powder Tray is extra deep for fast spreading
L	50-pin Tamper in optimum size ranges 000, 00, 0-1, 2-3, 4 for faster filling & higher fill weights
M	Powder Tray clamps for pharmacy compounding or filling on optional Vibrator
N	Full size Powder Spreaders (2)

Special Fill Materials

When to use a Powder Vibrator – see www.CapsuleConnection.com/files/vibrator.pdf



The optional Vibrator is especially helpful when filling certain materials:

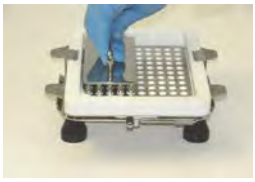
- Fluffy and fine powders such as Charcoal.
- Powders that bridge such as Tyrosine or Calcium Carbonate.
- Powders that can stick to Tamper pins such as Frankincense or Dolomite.
- Granules where tamping can cause granules to break or compress such as Omeprazole.

Filling Liquids

After separating capsules, leave capsules in raised position. Fill capsules with a pipette or syringe. After filling, slowly push Cam Lever back to release capsule bodies so they are level with top surface of Filler. Continue with Locking capsules.

Capsules filled with liquids for stability or clinical trials, if not sealed, must be kept vertical to minimize leakage between the cap and body. Capsules filled with liquids for commercial sale require sealing using equipment purchased separately. Capsules should be used with non-aqueous liquids only.

Filling Sticky Powders

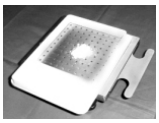


Separate the capsules and release Cam Lever so bodies are flush with top surface of Filler. Before tamping the powder, pull Cam Lever towards you until a gentle pressure holds capsules in place. When filling sticky powder, this will prevent capsule bodies from being pulled up with Tamper after powder compression.

Over-encapsulation / Double Blinding of Tablets, Capsules and Caplets.

A full range of accessories is available (page 6).

Partial Filling Of Capsules

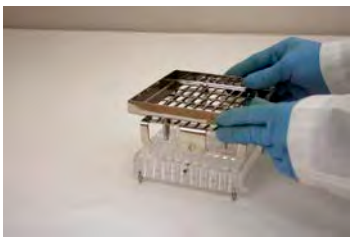


A custom made attachment can be ordered to partially fill 100 capsules using your existing ProFiller System e.g. for inhalation capsules. Fill weight variation is within ±7% of average. Contact us for powder specifications required to design the attachment. Delivery 6-8 weeks.

Installing Change Parts

Profiller 1100 system's patented design requires no t ools or adjustments to change capsule size.

1. Unscrew 2 thumbscrews holding Orienter Tray to Base.



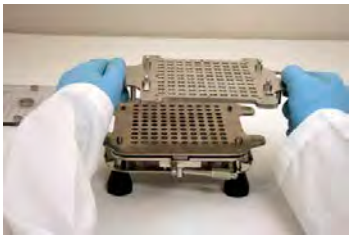
2. Position new Orienter Tray and secure with 2 thumbscrews.

3. Remove Caps Tray.

4. Set Cam Lever to 3 o'clock. Remove the 3 Body Sheets.

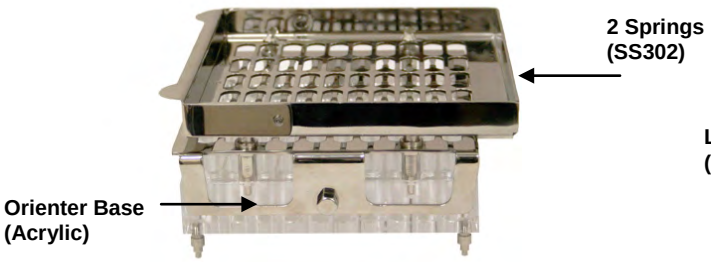
5. Lift out clear Spacer Plate and replace with new size Spacer Plate.

6. Place new size Body Sheet "a" then "b", then "c" on locating pins.

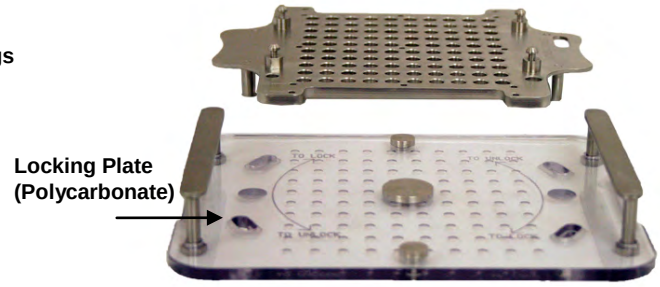


7. Place new size Caps Tray onto Filler. You are now ready to fill a new capsule size.

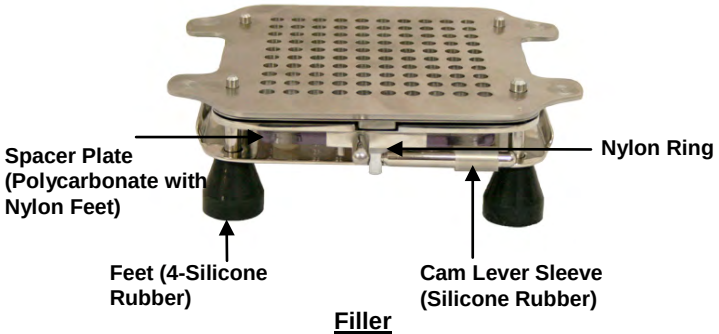
Materials of Construction



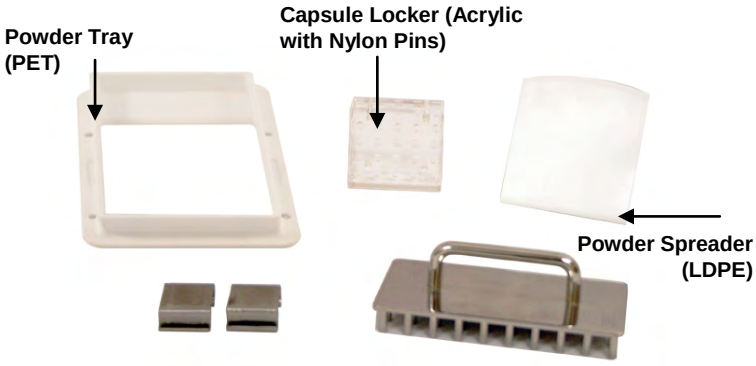
Orienter



Caps Tray and Locking Plate



Filler



Accessories

Parts not otherwise labeled are made of Inox (Stainless Steel 316).
Nylon parts are known to discolor when used with Erythrosine. The Powder Spreader is known to discolor when used with Beta Carotene or Sunset Yellow.

Cleaning & Drying Methods

Automatic Dishwasher	All parts are fully dishwasher safe using automatic dishwasher detergents. Plastic parts should be placed in top rack (<70°C / 160°F).
Cleaning Agents	We recommend cleaning using household hand dishwashing liquid. All items may be cleaned with NaOH (caustic soda) 1-2% solution, 1% sodium thiosulphate solution, or liquid detergents with up to 4% sodium hypochlorite.
Isopropyl Alcohol	Wipe with a cloth dipped in isopropyl alcohol, then immediately wipe dry with a clean cloth. Do not use on Orienter Base or Capsule Locker.
Hot Air Drying	Up to 60° C. Remove plastic parts from oven after 15-20 minutes. If using portable hair dryer, keep a distance of 12 inches (30 cm) from all items.
Autoclave	Do not autoclave Orienter Base, Capsule Locker, Powder Spreader, Powder Tray. Other parts may be autoclaved at 121°C, 15 psi pressure for 15 minutes.

See Manual for more information on cleaning products and methods.

Ordering Information

For Use in R&D • Pharmacy Compounding • Nutritional Supplements • Clinical Studies

1100 Full System

Everything you need to fill one capsule size:

- Hand-Held Filler Base, Orienter Base and Locking Plate
- Change Parts for one capsule size
- 50-pin Tamper
- Powder Spreader
- Powder Tray
- Powder Tray Clamps

Need to fill more than one Capsule size?
See our combo packages below.

Capsule Size	Item #
00	P10 HHS 00
0	P10 HHS 0
1	P10 HHS 1
2	P10 HHS 2
3	P10 HHS 3
4	P10 HHS 4
5	P10 HHS 5
000 (80 holes)	P10 HHS 000
00el - 2el & AAA-E	contact us

Change Parts

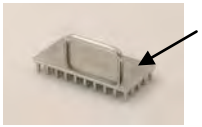
Change parts for one capsule size include:

- Caps Tray
- Body Sheet Set
- Spacer Plate
- Capsule Locker
- Orienter Tray

00	P10 CPS 00
0	P10 CPS 0
1	P10 CPS 1
2	P10 CPS 2
3	P10 CPS 3
4	P10 CPS 4
000, 00el - 2el, 5	contact us

Tamper

50 pin tamper



00	P10 T50P 00
0-1	P10 T50P 0-1
2-3	P10 T50P 2-3
4	P10 T50P 4
000, 00el - 2el, 5	contact us

Powder Vibrator

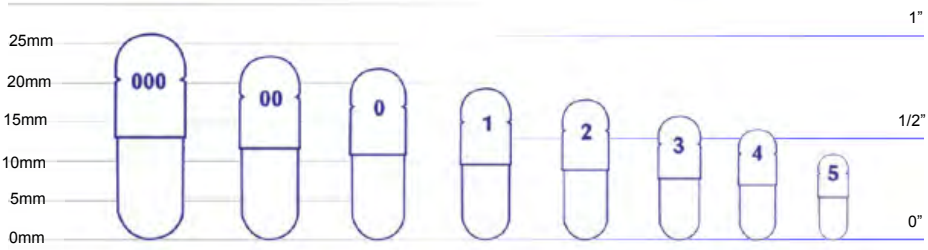
Recommended for faster filling of powders that bridge or are granular, fluid or flour-like. It also reduces weight variation of fine powders.

Voltage/Frequency	Item #
110-120 Volts/60Hz	PM HH VIB 110
220-240 Volts/50Hz	PM HH VIB 230

Combination Packages

Combo Package A Choose 3 sizes from 00, 0, 1, 2, 3 or 4	**Includes**	1 Full system	+	2 Change Parts sets	+	50-Pin Tamper for sizes ordered
Combo Package B Choose 4 sizes from 00, 0, 1, 2, 3 or 4.	**Includes**	1 Full system	+	3 Change Parts sets	+	50-Pin Tamper for sizes ordered

Capsule Size Chart



Approximate Locked Capsule Sizes

Accessories / Weights & Dimensions

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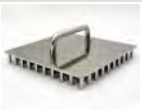
Item Description		Capsule Size	Item #
Optional Accessories			
Maintenance Kit Includes 1 cleaning brush, 1 nylon cleaning pad, 2 Filler Base feet, 2 Orienter Base screws, & 2 Spacer Plate feet for each size.		00-4	P10 MK 00-4
Partial Batch Kit Fill fewer than 100 capsules per batch. Includes 1 each of Orienter Divider, Powder Tray Divider & 5-pin Tamper.		00-4 & 0el-2el	P10 PBK 00-4
Tap Densimeter Used to determine tapped density for capsule filling. Eliminates calculation errors as volume is 1 ml.		n/a	PXX-TDM
Bottle Transfer Tray For easy transfer of filled capsules to a bottle.		n/a	P10-BTT
Tamper 100-Pin For Faster Filling		00 0-1 & 0el-1el 2-3 & 2el 4	P10 T100P 00 P10 T100P 0-1 P10 T100P 2-3 P10 T100P 4
Adjustable Height Bottom Plate Increases fill weight by lowering capsule bodies. Lowering capsule bodies by 2 mm increases fill weight for many powders by 10-15% and for coarse or granulated powders that do not compress by 2-4%.		00-4	P10 BPHA

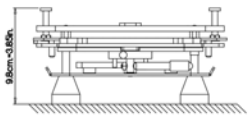
Over-Encapsulation Accessories (Email for Prices)

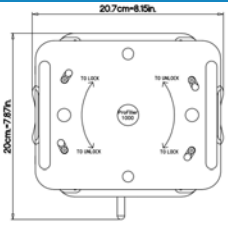
Orienter For Capsule in Capsule	Tablet Fill Attachment (Standard)	Tablet Fill Attachment (Custom)	Caplet Attachment (Custom)
MP NEC OCPOB [1 & 2]	MP TFA STD [3]	Dimension of Tablet required.	Dimension of Caplet required. [2]

[1] Specify Capsule Size when ordering. - [2] Order OE Guide Tray separately - [3] For round tablets 6.1-9.0 mm diameter & 2.0-5.0 mm height.

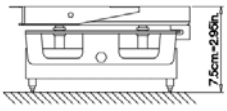
Shipping Weight and Dimensions (Approximate)

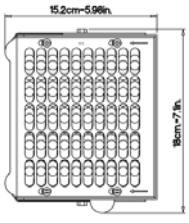
Filler
21 x 20 x 10 cm
8 x 8 x 4 in





Orienter
18 x 15 x 8 cm
7 x 6 x 3 in





Item	Boxes	Shipping Wt. kg	Shipping Wt. lbs	Net Wt. kg	Net Wt. lbs
Complete System for one Capsule Size	Box 1/1	7.0	15	4.8	11
Extra Change Parts	Box 1/1	3.5	8	2.3	5
Extra Tamper	Box 1/1	0.5	1	0.3	.7
Extra Orienter Base	Box 1/1	1.0	2	0.5	1
Vibrator (optional)	Box 1/1	8.0	18	6.5	15

Frequently Asked Questions

For Use in R&D • Pharmacy Compounding • Nutritional Supplements • Clinical Studies

1. What is the output?

Output is 2000 - 3200 capsules per hour. Our engineers have designed over 15 features that make the ProFiller 1100 the **fastest** and **easiest** 100-hole hand-held filling system on the market. The lower output is for fine powders. The higher output is for coarse free-flowing powders. Your results will vary based on the powder flow properties, operator speed & technique and use of excipients.

2. How accurate are fill weights?

Fill weights using the USP/EP method are within ± 1-2% of target. When weighed individually (a stricter standard than USP/EP), typically all 100 capsules/batch are within ± 4-7.5% of target. **More information.**

3. What types of capsules can I fill?

We have successfully tested different brands and types of capsules including gelatin, HPMC (vegetarian) and pullulan (starch) capsules.

4. What size capsules can I fill?

Standard sizes 00, 0, 1, 2, 3, 4, 5 and both European & USA 0el, 1el & 2el (100 hole); 000 and 00el (80 hole). Change Parts for standard sizes can be ordered to fill additional sizes on the same system. ProFiller OE is available for sizes AAA, AAel, AA, A, B & D. AAA-E sizes require a separate system for each size.

5. How big is the system and how can I store it?

The largest piece is the Filler, which measures approximately 8 x 8 x 4 inches or 21 x 20 x 10 cm. The entire system can comfortably fit in a regular office desk drawer .

6. Can I over-encapsulate or double-blind tablets, capsules and caplets?

Yes, you can. See page 6 for more information and special attachments.

7. Can I fill liquids or sticky powders?

The ProFiller system can be used to fill capsules with non-aqueous liquids or sticky powders. See Page 3 for tips.

8. Can the ProFiller 1100 be cleaned in an automatic dishwasher?

Yes, the entire system can be placed in an automatic dishwasher and is safe for use with automatic dishwasher detergents.

9. What is the ProFiller system made of?

See page 4 for the materials of construction.

10. What is the shipping weight and size?

	English	Metric
Shipping Weight	14 lbs	6.5 kg
Shipping Size	18 x 11 x 7 in	45 x 28 x 17 cm

11. Is there a larger ProFiller available?

Yes, the ProFiller 3600, 3700 & 3800 fill 300 capsules per cycle and have an output of up to 3-4X that of the ProFiller 1100. Visit **www.CapsuleConnection.com/ProFiller**

12. What are the maintenance requirements?

We recommend daily cleaning, preferably washing, of the machine to remove any powder. At a minimum the cam and the cam bush on the underside of sheet “b” should be wiped clean of powder and lubricated with a food grade lubricant (e.g. Vaseline petroleum jelly).

13. Why Might I Need an Additional Orienter Base?

The Orienter Base comes in four capsule size rages: 000 & 00el, 00-4 and 5. To fill additional capsule sizes outside the size range of your Orienter Base, you need to purchase an additional one.

14. What fill materials are known to discolor the ProFiller 1100?

Most fill materials will not discolor the ProFiller. See the Materials of Construction on page 10 for a list of materials known to discolor one or more parts of the ProFiller. If you have questions on a specific fill material contact us via www.CapsuleConnection.com.

15. Is a CE certificate Available?

A “Declaration of Conformity” is included with each system. A CE certificate is included with the optional Vibrator.

If you have additional questions that are not answered here, or you would like additional information, please visit www.CapsuleConnection.com

ProFiller Products

For Use in R&D • Pharmacy Compounding • Nutritional Supplements • Clinical Studies

Equipment for Sizes 000 - 5

Handheld 100-hole Capsule Filler for AAA-E

Up to 1000-1500 doses/hour. Available in 100 holes for sizes AAel, AA, A, B, D; and in 64 holes for AAA. Tablets that fit in C & E also fit in the next larger size capsule i.e. B & D.

ProFill OE

Handheld 300-hole Capsule Filler

For the growing company and for use under powder hoods or in glove-box isolators. Fully locks capsules after filling. The only 300-hole hand-held you can upgrade as the Change Parts of the 3600 also fit the 3700 bench-top Filler. The same Orienter works with 3600 & 3700. Output up to 4500-6900 Capsules per hour. Available in Sizes 000-4 & all el sizes.

ProFiller 3600

Bench-top* Capsule Filler & Hand-held Orienter

Easiest bench-top system to set-up and use. Includes a hand-held Orienter. Up to 6000-9000 capsules per hour. Options include Partial Batch Kit and Vibrator. Available in Sizes 000-5, all el sizes & for AAA-E.

ProFiller 3700

Bench-top* Capsule Filler & European Style Orienter

Our bench-top system for those who prefer the traditional European style semi-automatic Orienter. Up to 6000-9000 capsules per hour. Optional Vibrator. Available in Sizes 00-4. Other sizes use a hand-held orienter.

ProFiller 3800

**Bench-top Systems are designed for easier operation to enable continuous production. The 3700 includes our innovative hand-held orienter. For customers who use the traditional European style "semi-automatic" orienter we offer the 3800.*

Other Equipment

Capsule / Caplet Film Coater

For R&D. Ideal for enteric or film coating small batches of capsules and caplets with solvent based coatings. For capsules sizes 00-3.

ProCoater

Filling Funnels

For precision capsule filling on a balance. Includes Tamper. Made from Inox (316 stainless steel). Available in all capsule sizes including veterinary sizes.

ProFunnel

Powder Mixer (V-Blender)

ProMixer (V-Blender)

For blending up to 750 ml (1 US Pint) of powder. Perfect size to blend powder for a batch of 300 capsules. "V" shell is a proven design for uniform mixing. V-Shell is in Inox (SS316) for smoother powder flow & easy cleaning.

ProMixer

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Ordering Information

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100 Full System

Everything you need to fill one capsule size:

- Hand-Held Filler Base, Orienter Base and Locking Plate
- Change Parts for one capsule size
- 50-pin Tamper
- Powder Spreader
- Powder Tray
- Powder Tray Clamps

Need to fill more than one Capsule size?
See our combo packages below.

Capsule Size	Item #	Regular	5% Intro Discount
00	P10 HHS 00	$1080	$1026
0	P10 HHS 0	$1080	$1026
1	P10 HHS 1	$1080	$1026
2	P10 HHS 2	$1080	$1026
3	P10 HHS 3	$1080	$1026
4	P10 HHS 4	$1080	$1026
5	P10 HHS 5	$1350	-
000 (80 holes)	P10 HHS 000	$1230	-
00el - 2el & AAA-E	Email for Price		-

Change Parts

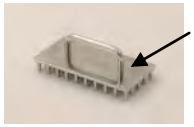
Change parts for one capsule size include:

- Caps Tray
- Body Sheet Set
- Spacer Plate
- Capsule Locker
- Orienter Tray

00	P10 CPS 00	$610	$579.50
0	P10 CPS 0	$610	$579.50
1	P10 CPS 1	$610	$579.50
2	P10 CPS 2	$610	$579.50
3	P10 CPS 3	$610	$579.50
4	P10 CPS 4	$610	$579.50
000, 00el - 2el, 5 & AAA-E	Email for Price		-

Tamper

50 pin tamper



Size Range

00	P10 T50P 00	$90	-
0-1	P10 T50P 0-1	$90	-
2-3	P10 T50P 2-3	$90	-
4-5	P10 T50P 4-5	$90	-

Powder Vibrator

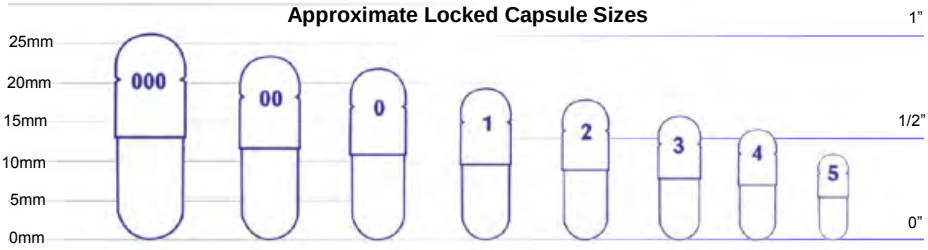
Recommended for faster filling of powders that bridge or are granular, fluid or flour-like. It also reduces weight variation of fine powders.

Voltage/Frequency	Item #		
110-120 Volts/60Hz	PM VIB 110	$455	-
220-240 Volts/50Hz	PM VIB 230	$455	-

Combination Packages

Combo Package A Choose 3 sizes from 00, 0, 1, 2, 3 or 4	**Includes**	1 Full system	+	2 Change Parts sets	+	50-Pin Tamper for sizes ordered	$2300	$2185
Combo Package B Choose 4 sizes from 00, 0, 1, 2, 3 or 4.	**Includes**	1 Full system	+	3 Change Parts sets	+	50-Pin Tamper for sizes ordered	$2890	$2745

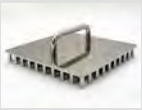
Capsule Size Chart



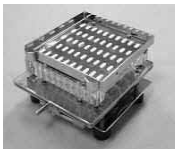
Approximate Locked Capsule Sizes (in mm)

Accessories

For Use in R&D • Pharmacy Compounding • Nutritional Supplements • Clinical Studies

Item Description		Capsule Size	Item #	US$
Optional Accessories				
Maintenance Kit Includes 1 cleaning brush, 1 nylon cleaning pad, 2 Filler Base feet, 2 Orienter Base screws, & 2 Spacer Plate feet for each size.		00-4	P10 MK 00-4	$45.00
Partial Batch Kit Fill fewer than 100 capsules per batch. Includes 1 each of Orienter Divider, Powder Tray Divider & 5-pin Tamper.		00-4 & 0el-2el	P10 PBK 00-4	$90.00
Tap Densimeter Used to determine tapped density for capsule filling. Eliminates calculation errors as volume is 1 ml.		n/a	PXX-TDM	$25.00
Tamper 100-Pin For Faster Filling		00 0-1 & 0el-1el 2-3 & 2el 4	P10 T100P 00 P10 T100P 0-1 P10 T100P 2-3 P10 T100P 4	$165.00
Adjustable Height Bottom Plate Increases fill weight by lowering capsule bodies. Lowering capsule bodies by 2 mm increases fill weight for many powders by 10-15% and for coarse or granulated powders that do not compress by 2-4%.		00-4	P10 BPHA	$95.00

Over-Encapsulation Accessories (Email for Prices)

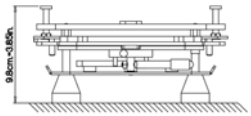


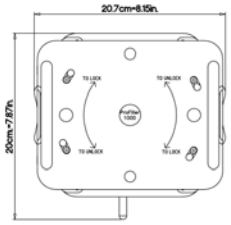
Orienter For Capsule in Capsule	Tablet Fill Attachment (Standard)	Tablet Fill Attachment (Custom)	Caplet Attachment (Custom)
P10 NEC OCPOB [1 & 2]	P10 TFA STD [3]	Dimension of Tablet required.	Dimension of Caplet required. [2]

[1] Specify Capsule Size when ordering. - [2] Order OE Guide Tray separately - [3] For round tablets 6.1-9.0 mm diameter & 2.0-5.0 mm height.

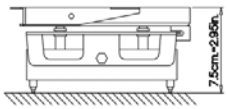
Shipping Weight and Dimensions (Approximate)

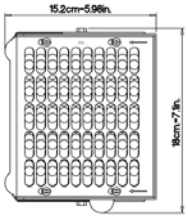
Filler
21 x 20 x 10 cm
8.5 x 8 x 4 in





Orienter
18 x 15 x 8 cm
7 x 6 x 3 in





Item	Boxes	Shipping Wt.		Net Wt.	
Complete System for one Capsule Size	Box 1/1	7.0 kg	15 lbs	4.8 kg	11 lbs
Extra Change Parts	Box 1/1	3.5 kg	8 lbs	2.3 kg	5 lbs
Extra Tamper	Box 1/1	0.5 kg	1 lbs	0.3 kg	0.7 lbs
Extra Orienter Base	Box 1/1	1.0 kg	2 lbs	0.5 kg	1 lbs
Vibrator (optional)	Box 1/1	8.0 kg	18 lbs	6.5 kg	15 lbs