



الي: السادة الراغبين بالمشاركة

م/ إعلان مناقصات عامة

(تجهيز أجهزة بحثية)

يسر (وزارة الصناعة والمعادن / الشركة العامة للصناعة الايوية والمستهلكات الطبية - سلمراء القسم التجاري - الكتلان) بدعوة مقدمي العطاءات المؤهلين

ونوي الخيرة لتقديم عطاءاتهم مع ملاحظة ما يأتي:

١. على مقدمي العطاء المؤهلين والراغبين في الحصول على معلومات اضافية الاتصال بـ (الشركة العامة للصناعة الايوية والمستهلكات الطبية - سلمراء) (٧ ساعات الدوام الرسمي) وكما موضحة بالتعليقات لمقدمي العطاءات.

٢. متطلبات التأهيل المطلوبة: (جميع الراغبين بالمشاركة من نوي الخيرة والاخصاص (شركات / مكاتب).

٣. بإمكان مقدمي العطاء المهتمين بشراء وثائق المناقصة مراجعة جهة التعاقد لغرض شراءها ورثياً وكما يحق لهم شراءها (وثائق المناقصة) الكترونياً عبر المنصة الالكترونية.

٤. يلتزم المنافس الفخر بالإحالة لتقديم وصل (ورقي / او (الكتروني) صادر من ادارة المنصة الالكترونية بؤيد تسديد لاجور خدمات الاعلان والارشافة الالكترونية لتعذر عبر المنصة خلال مدة لا تتجاوز (٢٠) يوم عمل من تاريخ التبليغ بالإحالة وحسب التعليمات المتبعة.

٥. سيتم تسليم العطاءات من قبل مقدمي العطاءات او مسؤولهم الرسميين وفق توكيل رسمي مصدق من كاتب عدل الى العنوان الاتي (مقر الشركة العامة للصناعة الايوية والمستهلكات الطبية بـسلمراء - الشريفة - صندوق العطاءات) في الموعد المحدد في الجدول فشاء والعطاءات المتأخرة والتقديم بواسطة البريد الالكتروني مرغوبة، وسيتم فتح العطاءات بحضور مقدمي العطاءات او ممثليهم السراغبين بحضور قسي (مقر الشركة في سلمراء) في الزمان والتاريخ (الساعة ١٢ ظهراً من يوم تاريخ الفتح المحدد) وإذا وافق يوم الفتح عطلة رسمية سيكون اليوم التالي هو اخر موعد لتقديم العطاءات.

٦. يجب ان يتضمن العطاء الشروط والمستسندات التالية:- (شهادة تأسيس الشركة او المكتب مصورة ملون- هوية غرفة التجارة نافذة ، اصل ممثلة ، حسابات ختامية لمستلن ماضيتين ، هوية تصديق تجارية ، الهوية الضريبية لمقدم العطاء) .

٧. التأمينات الايوية: مبلغ مقطوع وكما مبين في اثناء على شكل خطاب ضمان او سكتة من مصرف عراقي معتد ويكون نافذة لمدة (٩٠) يوم من تاريخ الفتح وتستبدل لتكون كفالة حسن الاداء بنسبة (٥%) من مبلغ العقد على شكل خطاب ضمان يد التبليغ بكتاب الاحالة وقبل توقيع العقد.

٨. كتاب عدم معاقبة من الجهة العامة للضرائب ويكون باسم الشركة او المكتب وليس باسم الشخص.

٩. ثمن وثائق المناقصة واجور خدمات المنصة الالكترونية الموحدة للإعلانات والمنافسات وتكون غير قابل للرد .

١٠. فترة سريان العطاء (٩٠) يوم من تاريخ غلق العطاءات.

١١. على مقدم العطاء الذي سبق له الاشتراك في المناقصة المعاد اعلانه ان يقدم وصل الشراء السابق لها مع وثائق العطاء للمنافسة المعاد اعلانه وفي حالة تعديل اسعار شراء هذه الوثائق فيتحمل مقدم العطاء الفرق بين السعرين في حالة زيادة السعر ويرافق مع عطية الوصفين الاول والثاني وتكون ثمن الوثائق الخزينة العامة.

١٢. لشركتنا الحق في تصحيح او تلافي أي نقص في الاعلان المنشور على ان يكون من خلال نفس الصحف ووسيل النشر المعتمدة في الاعلان

١٣. الشركة غير ملزمة بقبول اوطأ العطاءات، ولها الحق في اختيار ما يناسبها ، ولها الحق ايضاً في الغاء المناقصة قبل صدور كتاب الاحالة وبسبب مبررة واعادة وصل شراء ووثائق المناقصة دون تعويض مقدمي العطاءات.

١٤. في حالة عدم التزام مقدمي العطاءات بما تنطليه الوثيقة التفاسية فانه سيتم استبعاد العطاء ، مما يتطلب مراعاة ذلك عند التقديم.

١٥. الجهة التي لها صلاحية القبول النهائي للمادة هي شركتنا حصراً

١٦. يجوز لمعبر مفوض او (مخوله الرسمي) في اكثر من شركة او مكتب تقديم اكثر من عطاء واحد في المناقصة الواحدة.

١٧. يهمل أي عطاء غير متوافق للشروط ومواصفات الفنية والتعبئة المطلوبة.

١٨. تدعو الشركة كافة المشاركين لحضور اجراءات فتح العطاءات في الساعة الثانية عشر ظهراً من يوم (الفتح المحدد).

١٩. كما تدعو شركتنا كافة المشاركين لحضور المؤتمر الملوي عقده في مقرها للإجابة على استفسارات المجهزين قبل اسبوع من موعد الفتح

٢٠. للمزيد من المعلومات يمكنكم الاطلاع على مواصفات المادة المطلوبة وكذلك الشروط العامة للمنافسة زيارة موقعنا الالكتروني (<https://sdi.industry.gov.iq>) وموقع وزارة الصناعة والمعادن الالكتروني (www.industry.gov.iq)

٢١. على مقدم العطاء جلب براءة ثمة تشمل تسديد اجور الكهرباء والهاتف الأرضي.

٢٢. يلتزم المجهز بتقديم شهادة منشأ مصدقة من المفكرة العراقية في بلد المنشأ بالإضافة الى الفاتورة ووثائق التعبئة.

٢٣. في حالة ورود عطاء غير جدي بما فيه تقديم تأمينات غير مصدقة يتم استبعاد مقدم العطاء وعدم التعامل معه لمدة (٦) سنة أشهر من الاشتراك بالمناقصات والطلبات المحالة.

رقم المناقصة العامة	تاريخ الفتح	المادة المطلوبة	الكمية /	التكلفة التقديرية / دينار	التكاليف الأولية / دينار	سعر وصل شراء المناقصة د.ع
2026/SDI/T/103	2026/8/31	أجهزة بحثية مختلفة	12 جهاز	275,500,000	7,163,000	275,500

المهندس الكيميائي
محمد عبدالقادر مصطفى
المخول بصلاحيات المدير العام
٢٠٢٦/٨/١١



وزارة الصناعة والمعادن

الشركة العامة لصناعة الأدوية والمستلزمات الطبية - سامراء

القسم التجاري، المعقن

تاريخ الغلق 2026/8/31

المنقصة العلة / 2026/SDI/T/103

ت	اسم المادة	الكمية /	الثقة التكمينية /	السعر الكلي / دينار	فترة التجهيز 90-30 يوم من تاريخ توقيع العقد
1	اجهزة بخصية مخصفة	12 جهاز	275,500,000	275,500,000	

1-Walk -in stability chamber (1)	70,000,000
2-Osmometer (1)	25,000,000
3-Capsule filling machine (20-60) capsule / hour (1)	19,500,000
4- Tablet coating machine (1)	20,000,000
5- Tablet compression machine double layer	28,500,000
6- High speed vibro-sifter (1)	5,000,000
7- Oscillating granulator machine (1)	8,500,000
8-Roll compactor machine 2-5 kg اسوي المنشأ حسب المواصفة المرفقة (1)	20,000,000
9-Double can blender 30 liters اسوي المنشأ حسب المواصفة المرفقة (1)	10,000,000
10-Rapid mix granulator 100 liters اسوي المنشأ حسب المواصفة المرفقة (1)	28,000,000
11- Fluid bed dryer 30kg اسوي المنشأ حسب المواصفة المرفقة (1)	28,000,000
12- Fitz mill اسوي المنشأ حسب المواصفة المرفقة (1)	13,000,000

المهندس الكيمياءوي

محمد عبدالقادر مصطفى

المخول بصلاحيات المدير العام

٢٠٢٦/٨/ ١١

Fitz Mill

Function:

1. Crushing : Crush raw material into small granule or powder.
2. Milling : Process larger and irregular granules into smaller and even size.

Mechanical Theory:

1. Using high speed rotating blades to crush or grind raw materials to desired size which is smaller than the perforated plate screen.
2. Speed is adjustable to suit different material.
3. Perforated plate screen : mesh size can be selected to meet the processing requirements.

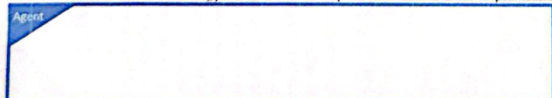
Features:

1. High production output.
2. Meet the cGMP standards.
3. Special bearing cooling system (by water or air) during high speed rotating which prevents the product overheat damage and ensures product quality.
4. Stainless steel blades provide a durable cutting edge.
5. 180 degree screen design enables better and faster milling results.
6. Suitable for dry and wet granules.
7. Easy to change screen (perforated plate screen).
8. Easy to operate, clean and assemble.
9. Discharge system can be used with vacuum suction device to eliminate dust contamination. (Optional)

Specifications:

Model	YC-FM	YC-FM-5	YC-FM-7	YC-FM-10
Motor	HP	5	7-1/2	10
Capacity	kg/hr	50~100	100~150	150~200
Net Weight	kg	280	300	320

The above information is for reference only, please contact the service personnel for detailed functional specifications.



YENCHEN MACHINERY CO., LTD.

No. 38, Huaya 1st Rd., Guishan Dist., Taoyuan City 333-83, Taiwan (R.O.C.)

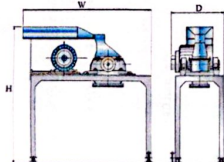
TEL: 886-3-328-9396 FAX: 886-3-318-4050

E-mail: yench@yench.com.tw

http://www.yench.com.tw



MILL-201909-ENG



Milling/Dry Granulator

Suitable for:

Pharmaceutical, Food, Chemical, Cosmetic, Ceramic, Pigment and Electrical Industries.



www.yench.com.tw

ROLL COMPACTOR MACHINE

- Feed Screw steplessly driven through variable frequency drive
- Specially designed twin shaft gear box
- Feed screw assembly is assisted by manual hydraulic pump to facilitates ease in cleaning.
- Scraper assembly also designed for easy dismantling and cleaning
- Fabricated separate panel board permits water cleaning of the machine without any hazard
- Roll surface corrugated standard (smooth/knurled optional)
- Very compact design available with water jacketed and flameproof (options)
- Fabricated separate panel board permits water cleaning of the machine without any hazard
- Machine water Jacketing arrangement (optional)



MACHINE TYPE	DPM-RC-100/25	DPM-RC-200/50	DPM-RC-200/75	DPM-RC-200/100	DPM-RC-200/150
Output (Kg/Hr)*	2 to 5	20 to 60	70 to 100	100 to 250	100 to 350
Roll Size	Dia 100mm x 25mm	Dia 200mm x 50mm	Dia 200mm x 75mm	Dia 00mm x 100mm	Dia 200mm x 150mm
Roll Speed RPM	5 to 25				
Feed screw speed	10 to 60 RPM				
Roll Drive Motor	2 Hp/960 rpm/3ph	5 Hp/960 rpm/3ph	7.5 Hp/960 rpm/3ph	7.5 Hp/960 rpm/3ph	10 Hp/960 rpm/3ph
Feed Screw Motor	3 Hp/1440 rpm/3ph		5 Hp/1440 rpm/3ph		

*Strictly depending on the material characteristics



Horizontal Model

COLLOID MILL MACHINE

- Unique for small volume micronization.
- Modified design of stator-rotor assembly.
- Totally leak proof design.
- Easy to dismantle for cleaning and maintenance.
- Available in plain water jacketed & flame proof options.

Model	DPM-CN-HZ (Horizontal)
Output *	150 to 1500 Ltr./Shift.
Particle size reduction **	5 to 10 Microns.
Hopper capacity	15 Liters.
Motor	5 HP / 2850 RPM / 3 Ph.
Height	1200 mm.

*Depending upon viscosity of material. **Depending upon material.



MASS MIXER MACHINE

- All contact parts are made of SS 304 (SS 316 optional)
- Thrust bearings are provided to carry rigid and thrust load.
- Easy for cleaning and operating.
- Interlocked acrylic dust cover inspecting the mixing process.
- The tilting device provided for easy unloading of the material.

Model	DPM-MM-50	DPM-MM-100	DPM-MM-150	DPM-MM-200
Capacity	50 Kgs.	100 Kgs.	150 Kgs.	200 Kgs.
Over flow capacity	110 Ltrs.	220 Ltrs.	330 Ltrs.	440 Ltrs.
Working capacity	88 Ltrs.	156 Ltrs.	234 Ltrs.	309 Ltrs.
Speed of stirrer	35 RPM	35 RPM	30 RPM	30 RPM
Main Electric Motor	3 HP / 3 Ph.	5 HP / 3 Ph.	7.5 HP / 3 Ph.	7.5 HP / 3 Ph.



DE-BURRING & DE-DUSTING

- Designed for effective De-Burring and De-Dusting
- Noiseless & Maintenance free unit.
- Minimum electric power consumption.
- Adjustable height to suit any tableting machine outlet.
- Components can be easily washed or sterilized.
- Suction outlet concentrated on De-Dusting zone ensures maximum flushing of removed dust.

Model	DPM-DB-300
Output * (8 mm)	5,000 to 2,50,000 tablet / Hr.
Main Electric Motor	0.25 Hp. / 1440 RPM / 3 Ph.
Max. Tablet Diameter	25 mm
Min. Tablet Diameter	5 mm

* Depending upon tablet shape & size.

Double Cone Blender, LI-DCB 25

Double Cone Blenders are the best solution and specially made to blend dry powder for capsules / dried granules for tablets, handle and transfer any batch of product. The products are tumble diffused by continuously rotating the Vessel. The blender is supplied complete with 1 No. Stainless Steel 316 Vessel having two conical frustum either side of shell of the vessel having lid on one side for charging with quick closing and opening clamps and butterfly valve (Manual) on other side for discharge. Central baffle is provided inside the vessel and on the wall of cylindrical shell. The design of the vessel is zero retention design. The machine works on motor with reduction gearbox and the vessel mounted on Plummer block and specially designed chain sprocket. Safety guard is provided with limit switch interlocked with motor which ensures safe operations. All contact parts are made out of SS316 quality. Blender mounting structures are made up of SS304. Stainless Steel parts polished as matt finish 120 grit.

Salient Features

- ✓ Compact model.
- ✓ The conical shape at both ends enables uniform mixing and easy discharge.
- ✓ All contact parts are made out of Stainless Steel 316 quality material.
- ✓ Maximum care has been taken to ensure safe operation of the unit.
- ✓ Two nos. of safety road will be provided at back side. (One LH side & one RH side)
- ✓ Suitable size of butter fly valve at one end of the cone provided for material discharge & hole with open able cover provided at other end of the cone for material charging & cleaning.
- ✓ One shaft with 04 nos. of fixed buffels with mirror polished provided inside the cone.
- ✓ Cone will be mirror polished from the inside & outside & structure will be matt polished.
- ✓ All moving parts covered with SS 304 covers.
- ✓ Safety guards made from SS 304 pipes provided in front of the m/c with limit switch.
- ✓ Panel fabricated from SS 304 material with facility of three phase indication, D.O.L. starter, digital timer & Amp. Meter.
- ✓ As per customer requirement machine will be provided with left side drive or with right side drive.
- ✓ The conical shape at both ends enables uniform mixing and easy discharge.
- ✓ Worm reduction gear use for speed reduction.
- ✓ Food grade rubber gasket will be used on both end of cone as well as in butterfly valve.
- ✓ Inside & outside of the cone will be polished to the mirror finished.
- ✓ General structure made out of SS 304 and Polished to the matt/mirror finish (as required by you).
- ✓ All safety guards & covers made out of SS 304.

SDI Company

Date: 09.11.2022

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Mohammed A. Abdulwahid
C/CO

Double Cone blender

جهاز

- ✓ Hand wheel will be provided for manual tilting of cone.
- ✓ Safety guards provided with limit switch to not start the machine when safety guards are not in proper position.

Technical Specification

DESCRIPTION	SPECIFICATION
PROCESS & OPERATIONAL DATA	Double Cone Blender 75 Litres
Purpose	Dry Blending of free-flowing powders / granules uniformly and achieve homogeneity with shorter time cycles and easy cleaning.
Blender	Stand alone, floor-supported unit, Unit with single stand and motor drive on pipe framework.
Operating temperature	Ambient
Working capacity	70 to 80 %
Blender RPM	Standard 8 to 10 RPM, but VFD shall also be provided
Charging Inputs	The Dry mass loaded manually
Discharging of Outputs	The Blend mass is un loaded manually
Room Higher	Standard
DESIGN DATA	
DRIVE ASSEMBLY	
Type	MS powder coated
Motor Specifications	1 H.P./ 1440 RPM /415 Volt/50 H
Motor Mounting	Flange mounted
Gear Box	Premium make, Ratio 60: 1
Coupling	Motor directly coupled to gearbox. A compact geared assembly is the main drive unit.
Shaft	SS 304; Solid with flange connect
Bearing Pillow units	Plummer blocks with self-aligning or Ball bearings mounted on adapter sleeves. Series 200. Lock nuts with sleeves ensure proper bearing loading onto the shaft.
Support Frame	MS Powder Coated

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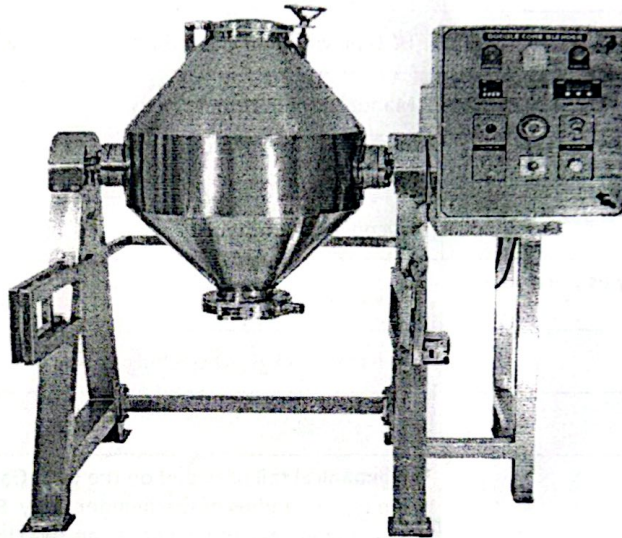
Type	'A' Type support frame of the body. Top of the stand truncated with pad plate for mounting the Pillow blocks. Guardrails fixed at the front of the stand.
Double Cone Blender Body	
Type	Cone at both the end and round shell in between.
MOC	SS 304
Charging Port	TC Type with Blind and Gasket. Charging Lid.
Discharge	Manually Actuated Butterfly valve
MOC	SS 304
Gasket	Silicon
Double Cone Capacity as per Gross Volume	75 Liters
Working Volume	50 Litres (25 Kgs. @ 0.5 bulk density)
GUARD RAIL	
Type	Mechanical rail provided on the unit. Gate footprint to suit the turning radius of the blender body. Single railing in front which opens by lifting, with Limit switch/Safety switch interlock.
SAFETY & INTERLOCKS	
Safety Barrier	Positively interlocked safety barrier with limit/safety switch. In case barrier is even partially open the Unit will not run.
Over load protection relays	Yes.
FINISH	SS 304 Contact Parts internally mirror. C.S Parts to be painted with enamel paint.
UTILITIES	Electrical power
DOCUMENTATION	DESIGN QUALIFICATION, INSTALLATION QUALIFICATION & OPERATION QUALIFICATION DOCUMENTS. Material test certificate for contact parts. Installation & Maintenance Manual Spare Part List. Warranty Certificate of machine Certificates, Manual for Brought out items. Electrical Circuit Diagram Schematic Diagram of machine ne showing Overall GA and PID Diagram.
TRIAL	No load Running Trial shall be offered for ½ hr.

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PACKING	Wrapped in Plastic & Wooden Box
Quantity Required	1 No.

Double Cone Blender



(Photograph is for the reference purpose only. Machine Construction & Specification are subject to change without prior Notice due to Continues up-gradation Process)

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Date: 09.11.2022

Rapid Mixer Granulator, Capacity: 100 Liters

Rapid Mixer and Granulator designed for optimum performance cGMP compliant with special attention given to clearing Validation. Rapid Mixer Granulator is designed to achieve excellent mixing and consistent granules at lower operating cost along with higher productivity. Better mixing and closed control of granule size leads to faster tableting speeds with improved quality and least rejections.

Salient Features

- ✓ Complete GMP model.
- ✓ All contact parts made from Stainless Steel 316 with Non-contact parts made from Stainless Steel 304.
- ✓ MS structure is fully covered with Stainless Steel 304 covers/claddings.
- ✓ All contact parts are mirror polished to 220 Grit and external surfaces to matt finish of 180 Grit.
- ✓ Homogeneous binder distribution.
- ✓ Short batch time and reduce cleaning time.
- ✓ Maximize CIP effectiveness.
- ✓ Air purge sealing system for main stirrer shaft and granulator shaft.
- ✓ All internal contact parts are polished to the mirror finish.
- ✓ PLC based operating panel for precise control of process & automation. (Optional)
- ✓ A high-speed granulator is inserted horizontally through wall of bowl to assist blending of powder and to break the product to the granules of required size.
- ✓ The seal housing and drive shaft may be flushed with cleaning water, which is then drained away from the machine through built in drain tubes.
- ✓ Granulator motor is provided with a removable stainless-steel shroud which covers the motor and simplifies cleaning.

رئيس بايولوجي
محمد عبدالوهاب محمد عبدالوهاب
- Mohammed A. Abdulwahab
C.A. / 2 / 20

Rapid mixer : 12. ⑨

- ✓ All moving parts of the machine are totally enclosed to eliminate accident.
- ✓ The machine cannot be started unless and until the mixer cover is properly closed.
- ✓ Flush wall type discharge valve eliminates pockets at the port of discharge valve.

Technical Details

Sr. No.	Description	Specification
Process & Operation Data		
1.	Purpose	Homogeneous mixing of dry & wet powders, deagglomeration of wet mass and fast dispersion of binding agent.
2.	Type	Standard Unit
3.	Gross Volume	100 Liters
	Working Volume	75 Liters (30Kg @ 0.5 BD)
4.	Charging Inputs	As per GA drawing
5.	Discharging of Outputs	Discharge from RMG bowl can be done by gravity fall into FBD bowl
6.	Bowl working	Atmospheric
7.	Bowl test Pressure	Water Fill up, this is a test for the weld joints only. Discharge assembly is not necessarily watertight

Design Data

Sr. No.	Description	Specification
1.	Product Contact	SS 316
2.	Quality Assurance	Design, manufacture, installation and documentation in accordance with current Good Manufacturing Practice
3.	Finish	Product contact parts internally finished to mirror. Externally finished to dull matt .MS part epoxy painted
4.	Electrical rating	Non FLP, 415V, 50 Hz, 3-Phase

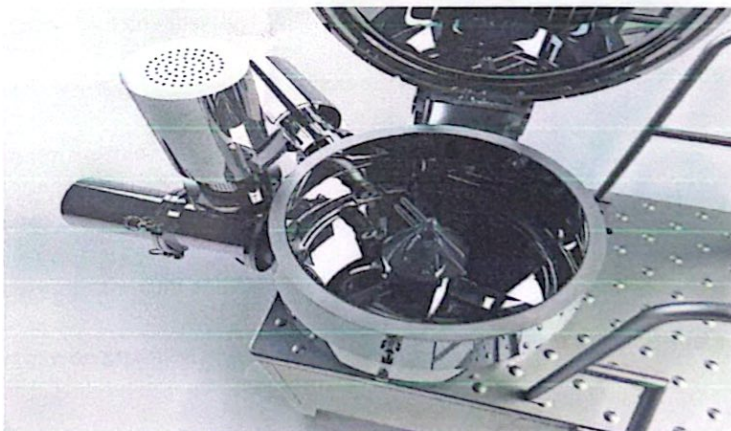
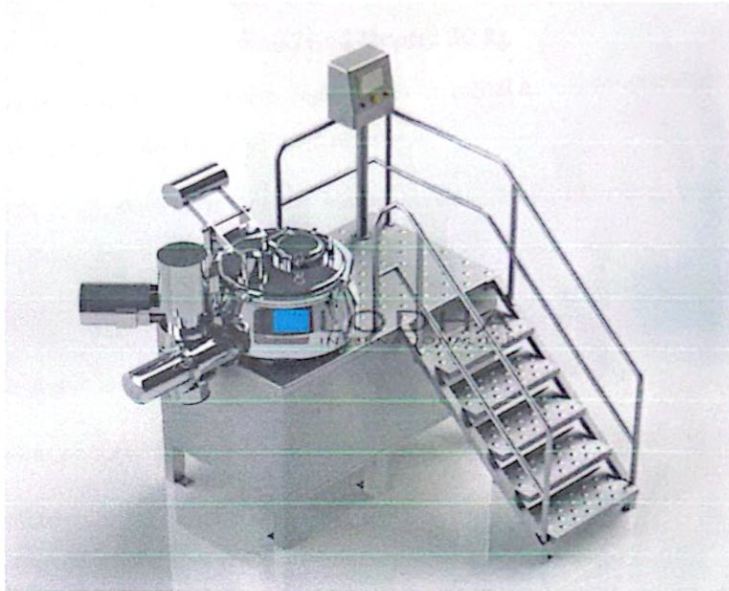
Main Components

Impeller Drive Details		
1	Type	Single Speed/Single HP
2	Motor	7.5 HP, 1440 RPM (Siemens Make /Crompton Make) dual speed type motor Seal
3	Seal of Main Impeller	Gland Seal with Air Purging
4	Gearbox	Gear box Size:11 Ratio: 10:1 (Greaves Make)
5	Mounting	Foot Mounted
Chopper Drive Assembly		
1	Type	Single Speed
2	Motor	2880 RPM & 2 HP (Siemens Make /Crompton Make)
3	Sealing of chopper	Gland seal with Air Purging
4	Mounting	Flange Mounted
Mixing Bowl		
1.	Bowl Type	Vertical, cylindrical with conical top, hinged lid, with charging / CIP/ Binder (liquid) feed / Vent filter ports and side discharge.
2.	Lid Lifting System	Pneumatically with spring loaded davit on hinge.
3	Vent Filter	00% Polyester monofilament fabrics, 99% down to 1-micron retention.
4	Inspection Window	This is not recommended as the glass smokes easily and there is no visibility after a short duration of dry mixing. But the same can be provided.
5	Impeller	3 bladed.
6	Impeller Lifting	Impeller Lifting done by Wire rope mechanism with Motor & Gear Box.
7	Granulator / Chopper	Proprietary designed. Following chopper profile can be offered as option. Knife edged, 4-Bladed impeller. Horse Shoe profile, Other profiles available on request. Discharge
Discharge		
1.	Discharge Valve	Pneumatically operated. The discharge assembly is Hinged and Limit switch provided at hinge for operator safety. Machine will not operate if discharge is open at hinge.

2.	Discharge Size	Dia. 150 mm
3.	Discharge Height	As per GA drawing
4.	Discharge Length	As per GA drawing
Standard/ Material of Construction		
1	Frame	Made of Mild Steel. Square section, duly epoxy painted
2.	Top plate & platform	Made of Mild Steel, top is cladded in SS 304, dimpled sheet. The top cladding is completely backed by MS support plate.
3.	Bottom plate	Made of 3 mm Mild Steel plate, painted by Epoxy Paint
4.	Side Covers	Made of SS 304, bolted to the frame
5.	Ladder	Made of SS 304 dimpled
6.	PLC	Yes. With manual override. Schneider Make
7.	Co-mill OPTIONAL	Yes. Attached at the discharge of the RMG
	Electrical Control System	
7	Operating Console	SS 304, Standard controlled
8	Size	340 mm L x 250 mm W x 350 mm Depth tapered.
9	Functions	a) Main Motor ON / OFF
		b) Chopper Motor ON / OFF
		c) Emergency Stop
		d) Ammeters for Main and Chopper Motor
		e) Process Timer Auto / Manual Switch for Main Impeller
		f) Process Timer Auto / Manual Switch for Chopper
10	Location	Ergonomically mounted on Platform
13	Power Panel	Powder coated, with all switches, controls and MCB
14	Function	a) Switch Gear
		b) Main Isolator
15	Location	Housed in the main stand
9.	Gaskets	a) Bowl Lid & Ports – Silicon
		b) Bowl Discharge -PTFE
		c) Main Impellor Shaft -Teflon
		d) Chopper Shaft – Teflon)

10.	Safety Features	a) Chopper motor interlocked with the main motor b) Fast speed of Impeller motor interlocked with slow speed c) Fast speed of Impeller motor interlocked with slow speed d) Unit will not operate if Air pressure is below set value e) Limit switch on lid interlocked with impellor & chopper f) Overload protection relays on motors g) Emergency stop button on operating panel h) FBD bowl sensor for discharge
11.	Utility Requirement	a) Power Consumption 43.125 KW @ 415 V, 3Phase, 50 Hz. b) Filtered, Dry, Oil Free Compressed Air.
12.	Documentation	DESIGN QUALIFICATION, INSTALLATION QUALIFICATOIN & OPERATION QUALIFICATION DOCUMENTS. Material test certificate for contact parts. Installation & Maintenance Manual Spare Part List. Warranty Certificate of machine Certificates, Manual for Brought out items. Electrical Circuit Diagram Schematic Diagram of machine showing Overall GA and PID Diagram.

Rapid Mixer Granulator, LI-RMG 150



Fluid Bed Dryers 30 kg

Fluid Bed Dryers are designed to Uniform drying of the material at low temperature. Fluid Bed Dryers are made of Stainless Steel 304/316 with GMP standards.

The complete unit is supplied with Suitable motor, blower, filters, filter bag, control panel. Heating system provided as per specific customer requirements.

Salient Features

- ✓ Available with steam heating/electrical heating & thermal heating facility.
- ✓ PLC based power panel with touch screen based operating panel for process automation.
- ✓ Flameproof motor with flameproof operating panel.
- ✓ Uniformity in drying and reduction in drying time.
- ✓ Micro filter to prevent any fine dust to pass through the products with inlet air.
- ✓ An explosion safety flap of adequate capacity at the rear of dryer and an earthing point to prevent static charge in the machine.
- ✓ Timer provided to set process time.
- ✓ Temperature indicator cum controller for inlet and outlet air temperature.
- ✓ HEPA filters can be provided on demand on extra cost to prevent any fine dust to pass through the products.
- ✓ Digital temperature indicator is provided for inlet & outlet air, in steam/thermic fluid heated model.
- ✓ Machine is suitable to use in Pharmaceuticals, Dyes & Chemicals, Food Products, Starch Derivatives, Pesticides, Phyto Chemicals and Catalysts.

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Fluid bed dryer

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Operation Process

Fluid Bed Dryer is designed to introduce the hot air stream at the base of the product container which is filled with the material. Induced draught is created by means of blower and fresh air is sucked into the unit. The fresh air is heat by means of electrical heaters or steam or thermic fluid heaters. This hot air stream expands the bed of material at certain velocity & creating turbulence in the product. The phenomenon is known as fluidization and offer conditions which are almost ideal for drying. Fluidization produces full agitation of solid particles and since each particle gets surrounded by hot air, heat transfer is extremely high and uniform. The product is dried fast without appreciable loss of heat. Filter bags prevent particles escaping from the dryer.

Technical Specification

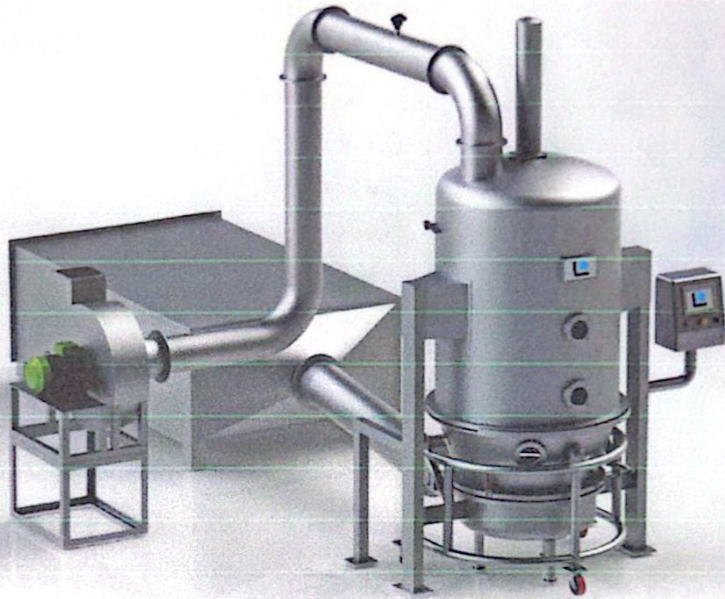
Model	CGMP Model (Stainless Steel 316)
Main Processing Unit:	Capacity: 30 Kgs Suitable for RMG 100 Ltrs
Main Body	Main cylindrical housing i.e. integrated retarding chamber; filter bag housing made out of SS 316. The toggle clamps shall be provided to hold the container with body. The chamber shall be provided with inspection window and light window fixed with toughened glass. Filter bag made out of PC satin cloth shall be mounted on movable SS hanger which shall be fixed on the top of chamber. The bottom of filter bag shall be fixed in SS fixing ring and provided with inflatable gasket made out of Food Grade Nitrile Rubber which when inflated, seals filter bag with inner surface of filter bag housing. The bottom of retarding chamber and top of bottom chamber shall be provided with inflatable gasket made out of Food Grade Nitrile Rubber in SS housing to seal top of product container with retarding chamber and bottom chamber to make the unit fully leak proof. All the inflatable gaskets shall be provided with pressure gauge, electro pneumatic switches and also interlocking system with the unit i.e. if the unit is not sealed properly, the motor will not start. The exhaust duct shall be provided with electrical motorize damper. This electrical motorize damper shall be operated through electrically operated on off type actuator and this motorize damper will close fully at the time of automatic filter bag shaking cycle. A positive earthing arrangement shall be provided which means that the dryer will not start with any earthing fault. Additional clamp type manual earthing system shall be also provided on the container for additional safety.

Temperature Control	TEMPERATURE CONTROL: Shall be achieved by means of pneumatically operated through on-off type temperature control valve. Accuracy of temperature control within $\pm 5^{\circ}\text{C}$.
Note	Inlet Air preparation unit can be remotely installed in technical area or outside production area. Extension ducts and bends can be supplied at extra cost depending on layout and requirements
Exhaust Blower Assembly	7.5HP, 2880 RPM, CFM 2800/ 12"WG
Motor	7.5 HP / 2880 RPM Bharat Bijli /Hindustan Make
Pneumatic Panel	Made out of Carbon Steel powder coated and equipped with solenoid valves, switches, festo tubes and fittings etc.
Power Panel Box (Non-FLP)	POWER PANELBOX: made out of carbon steel and powder coated and equipped with:
	Main switch
	Motor contactors
	Relay and fuses and positive earthing relay
	Control current transformer
Control Panel Box	Made out of SS (304) containing instrumentation, gauges for air. Operations are through PLC having 14 digital inputs and 10 digital outputs with 1 set of analog modules having 2 analog inputs and 1 analog output
Gaskets	All inflatable gaskets shall be made out of food grade quality rubber compound and shall be provided with pressure switch and interlocked with motor.
	All SS welding shall be ground back and SS surface polished to smooth finish
	All product contact surfaces are mirror polished
	All open flanged nozzles are supplied with companion flanges
Accessories	a) One Extra Product container
	b) Powder sensor at the outlet
	c) PLC for operation sequence
	d) CIP Ball
Utility Requirement	a) Power Consumption 5.5 KW @ 415 V, 3Phase, 50 Hz. b) Filtered, Dry, Oil Free Compressed Air. c) Low Pressure steam

Note: Electrical characteristics (powder supply voltage) can be adjusted as per customer's domestic power requirements.

Support	The main body shall be supported by means of strong rectangular pipe support which is made out of Carbon steel but fully clad with SS 304
Bottom Chamber	It shall be made out of S.S. 304 and provided with dished bottom. Washing water drain (40 mm) shall be provided in center with quick release coupling and closing cap. Inflatable FGN rubber gasket shall be provided in SS housing which seals bottom of product container with the unit. Horizontal inlet-air nozzle with flange is welded at rear side
Product Container	Manufactured out of S.S. 316 and is of conical shape. It shall be provided with perforated air distribution plate along with SS fine mesh (Dutch weave 24 x 110). Perforated plate and fine mesh are fixed to container by means of quick-change clamp type arrangement. Glass window shall be provided in the container for observation etc. The container trolley shall be made out of S.S. 304 tubular pipe and provided with 4 Nos. S.S. Castors fixed with PU wheels. The container can be tilted for emptying the product. On line sampling device shall be provided to take out sample when the dryer is in operation
Explosion Relief Flap	Made out of SS. 304 shall be provided on the rear side of finger housing and this opens to the atmosphere through a suitable horizontal duct (duct is to be provided by client or supplied at extra cost).
Inlet Air Preparation Unit	Shall made out of S.S.304 and shall be provided with internal frames for fixing filters, radiator etc.
Main Chamber	MAIN CHAMBER of rectangular shape and made out of S.S 304 and provided with a transition duct to connect to inlet air nozzle of bottom chamber.
Filter Assembly	Pre air filters consisting of coarse filter of (20 micron – EU 3) and Microvee filter (5 micron – EU 5) are fitted at inlet of chamber. These filters are easily removable for cleaning / changing.
Filter Assembly Hepa Filter	Hepa Filter of 0.3 micron(3 micron – EU13) with Aluminium Casing, differential pressure gauge shall be provided across hepa to measure the differential pressure. DOP testing port with total fitting in AHU.
Steam Radiator	It shall be made out of SS pipe having SS 304 fins and is designed to increase inlet temperature by 65-90°C at 3.5 kg/cm ² . The Radiator is hydraulically tested to 10 kg/cm ²

Fluid Bed Dryer, GMP Model



Technical Data Sheet

DESCRIPTION	SPECIFICATION
Process & Operational Data	Sieving of powders or granules
Construction	Stand alone, floor-supported unit. The whole unit along with the motor, sieves, hopper etc is covered by a SS skirt with Dust free operations
Principle of operation	Optimally tensioned sieves are made to vibrate using a vibratory motor which rotates eccentric weights. As they vibrate, the material gets sieved and the oversized particles get retained while undersized particles fall from the discharge through gravity.
Working capacity	Up to 50-150 Kg/hr
	depending on the: product
	Amplitude of vibration
	Weight position on the motor
	Frequency of Motor input supply
	Number of decks
	Anti-blinding options present or not
Charging Inputs	The Powder is loaded manually from dispensing crates and collected in the bin (as per required IPC) bin with dust free connections for unloading and Hood for loading
Design Data	
Quality assurance	Built as per Good Engineering Practice and to complete GMP & cGMP
Electrical Rating	0.5 HP, NFLP rated, 415V, 50 Hz, 3 phases
Contact Parts	SS 316
Non-Contact Parts	SS 304 / SS 304 Cladded
Main Components	
DRIVE ASSEMBLY	

SDI Company

Date: 09.11.2022

Vibro Sifter, 20" Dia.

The Vibratory Sifters are highly suitable for the gradation and separation of powder, granules. It is provided with a vibratory motor with eccentric loads, a screen of suitable mesh, quick closing & opening clamps. Various models available to suit different output capacities and the equipment.

Salient Feature

- ✓ Basic design of Sifter is in Vacuum Rated Model.
- ✓ Main Structure is radial type and is on castor wheel for ease of movement.
- ✓ Specially designed Vibro Motor for better movement of material.
- ✓ Sifter with hopper for manual loading of material.
- ✓ Silicon molded lead-free sieves.

Technical Features

- ✓ Basic Equipment in vacuum rated designed & is enabled for inline sifting process (If the conveying systems is separately ordered).
- ✓ Vibro sifter works on specially designed unbalance Vibro-motor.
- ✓ Sifter screen diameter 30".
- ✓ Detachable sieve design to accommodate user's requirements.
- ✓ Mounted on set of heavy-duty spring and metal plate.
- ✓ All contact parts are manufactured from SS-316.
- ✓ All non-contact parts are manufactured from SS-304.
- ✓ All the gasket and seals manufactured from food grade sealing.
- ✓ Equipment in trolley-based design with PU castors for ease of movement.
- ✓ Very low noise level.
- ✓ All the cleaning parts can be easily open able without the use of spanner.
- ✓ Easy to clean.
- ✓ Material charging hopper will be provided for Manual loading.
- ✓ Output will be approximately 200 to 300 Kg/ Hour depending upon the mesh size, material density & characteristics.

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Sifter 14. (A)

	enclosure provided with food grade rubber seals resulting in perfectly insulated doors. The doors provide easy access to all the parts requiring observation, inspection and maintenance
Coating Pan	It is a horizontally placed, cylindrical pan of 24", 18", 12", 8" diameter having Torrispherical dished ends welded on both sides of the cylindrical perforated pan. The shell body is perforated with triangular pitch to ensure optimum hot air entry and subsequent circulation. The pan mouth faces the operator for easy loading and unloading of tablets.
Pan Drive	The pan is driven by 1 HP NON-Flame proof motor through suitable reduction gearbox. The different operating speeds are obtained using a Variable Frequency Drive (VFD) capable of achieving speeds from 2 - 10 RPM
Baffles	Specially designed baffles with a unique contour inside the coating Pan, generate a highly smooth tumbling rotation of the product being coated, thus resulting in excellent and smooth coating
Lamp	A NON flameproof electric lamp is fitted on the inside top of the enclosure to give sufficient light for observation of the working zone
Coating Solution Assembly	
This consists of solution Peristaltic dosing Pump and Spray Guns that are the life line of the equipment (Optional but costs included).	
Peristaltic Pump	The Electro lab make Peristaltic pump with 3 heads is provided for precise and rapid priming facility and accurate dosing of solution through solution transfer tubes.
Spray Gun	The spraying unit consists of 1 Nos. highly efficient non-choking, Atul make Spraying Guns mounted on stainless Steel retractable header. The guns spray controlled quantity of uniform droplets in the coating zone. The spraying cone can be adjusted by changing the angle and

The guns are mounted on SS retractable header with adjustable angle arrangement between gun and tablet bed. After operation, the retractable header can be pulled out and even rotated by 90° for easy cleaning / washing	Air Preparation Unit
Blowers and Air filters with heating elements are housed separately in the service zone to avoid sound pollution and to prevent entry of the maintenance people in the production zone.	Inlet Air Filters
The section has a 10-micron pre-filter before the blower	Inlet & Exhaust Blower
SS 304 blower fan has backward curved blades and is dynamically balanced. The speeds of both inlet and exhaust blowers are varied by positional controller through PLC	Heating Coil
The required amount of heat is provided using a finned Electric heating coil. The heater works in combination with contactor system to control the air temperature $\pm 3^{\circ}\text{C}$	Fine Filter
The AHU has a specially designed single material construction. The air is fed from pre filter to HEPA through a 14 SWG GI cross section and then from HEPA to air outlet through PUF insulated SS 304 cross section.	HEPA Filter
Differential pressure testing port is provided to check the choking of HEPA Filter	Air Control
The inlet and outlet of the Auto Coater shall be provided with (through VFD) by which quantum of air at inlet and outlet can be controlled whenever required, from the control panel.	Power Panel
The entire operation of the Auto Coater is controlled through a powder coated MS made Power Panel that is ideally placed in service zone and houses PLC, MCB's, RCCB's, contactors, relays, ON-OFF switches etc. Proper ferruling is provided for the wirings. Power panel also includes pressure switch, solenoids valves for control	

Type	Vibratory
Motor Mounting	Flange mounted,
Mounting	Drive assembly mounted on a tubular framework, with help of motor mounting plate.
MOC	Frame Work & Guards SS 304
	Mounting Plates CS
Base	Cylindrical with welded flange face at the top and bottom. Base with inspection / access window on hinges for approach to the motor.
Lower Hopper	Cylindrical, with lip faces at both ends. Provided with an internal cone to channelize the flow of materials towards the external perimeter. Cone is fully welded to the inner diameter.
Type	Central cylindrical shell with welded conical frustums at both ends. Cones having included angle between 30-50°
Discharge port	Discharge Port is rectangular to circular at 50mm dia at the outlet with dust free connection to bin
Upper Deck	
Construction	Cylindrical with lip faces at both ends
Motor Mounting Plate	12 mm thick CS plate, with tapered edges to suit clamp profile. Plate houses the motor, bolted at the centre, and retains the hopper assembly on the top. Transmission springs couple the plate to the base of the unit
Transmission Spring	8 nos. springs are fixed on the upper girth flange of the base. Upper end of the springs is fixed to the bottom of the motor mounting plate.
Skirt for Spring	Cylindrical girth ring skirt to protect the springs from exposure and achieve greater cGMP compliance. Skirt is fixed to the bottom of the motor mounting plate.
Clamps	'C' section clamps in two halves with hinging arrangement. Closure with toggle action between the two halves. Locking lever has screw adjustment to compensate for tension required. The bottom hopper is secured to the motor mounting plate by

	a clamp. Similarly, each sieve is sandwiched between the hopper faces with the clamp securing the lips of the upper and the lower hopper.
Gasket	Food Grade SILICON 'C' section gasket. Ensures powder tight interface between the two hopper faces and the sieve.
Starter	DOL Starter
Finish	SS 316 Contact Parts internally 240 grit mirrors. SS 304 cladded/covered Parts externally 180 grit Matt. C.S Parts to be painted with enamel paint.
Utilities	Electrical Consumption 0.37 KW @415 V, 50 Hz.
DOCUMENTS	DESIGN QUALIFICATION, INSTALLATION QUALIFICATION & OPERATION QUALIFICATION DOCUMENTS. Material test certificate for contact parts. Installation & Maintenance Manual Spare Part List. Warranty Certificate of machine Certificates, Manual for Brought out items. Electrical Circuit Diagram Schematic Diagram of machine showing Overall GA and PID Diagram.
TRIAL	Loaded running trial for 1/2 hours
Quantity	1 NO.

Vibro Sifter, 30" Dia



Auto Coater, 24" 18" 12" & 8 Inch

Auto coater, an efficient range of auto coating machines can be utilized to coat pallets, granules and tablets. Coater is designed for the application of

- ❖ Film coating with aqueous coating
- ❖ Film coating with organic solvent (Needs FLP Construction)
- ❖ Sugar coating

Salient Features

- ✓ All the product contact parts are made from Stainless Steel corresponding to 316
- ✓ Pan speed 1 to 16 RPM, the pan speed is variable and can be changed from the control panel.
- ✓ Perforated pan with more than 55% opening for better quality finish the pan is cylindrical in shape and is made out of stainless-steel sheet. The middle portion of the pan is perforated, having 2.5 mm. diameter holes, to enable hot air to enter the pan while in rotation.
- ✓ 4 nos. removable Rabbit-ear baffles provided
- ✓ Pan speed control via variable frequency AC Drive
- ✓ Tablet discharging facility will be through the special diverter assembly
- ✓ On the front Stainless-steel cover with a glass door for process visualization.
- ✓ Front Entry stainless steel arm, with facility to adjust the angle of spray guns is provided.
- ✓ A stainless steel 304 sink at bottom of pan for collection of powder with necessary stainless-steel piping with tri-clover joints for ease of cleaning during the changeover.
- ✓ The coating pan along with the drive system, hot air plenum, exhaust plenum, pan washing sink, washing pipe line etc. are housed in a stainless-steel cabinet
- ✓ CIP System Including High Pressure Pump and Jet Nozzles
- ✓ PLC based control panel with colored touch screen HMI with Ethernet port for SCADA Systems

Pan

Perforated cylindrical pan with conical frustums at both ends. The front frustum is provided with a manhole sized mouth for loading/unloading of pan. The rear frustum is provided with a welded pad for mounting the drive shaft. The two conical frustums are also provided with 3 nos. each bolted, removable baffles.

Drive

The pan is provided with a mechanically variable speed drive arrangement through a motor, gear box and spur drive assembly. The variable speed is achieved through a cone pulley arrangement. The pan is mounted on sturdy Plummer blocks at the back, in cantilever. Motors and electrical will be TEFC non ex proof construction (Ex proof can be offered as an option). Suitable for 3 phase, 410 volts, 50 Hz. (Optionally other specification can be supplied)

Hot Air System

This system consists of a

- Inlet filter assembly, 2 stage with 5 & 15 microns, (3 Stage filtrations including HEPA can be offered as an option)
- Centrifugal Blower, suitable designed with 2800 RPM motor and dynamically balanced fan. Details of capacity as per table.
- Heating assembly either through electrical heaters or steam coil. Heaters are controlled through sensors fixed in the duct line (inlet or outlet) or inside the tablet bed.
- 2 Dampers, one auto controlled for open & close positions, second manually controlled for varying the quantity of air.
- Air plenum covering a part of the top right-hand side of the pan, through which air is supplied to the pan.

Exhaust Air System

The system consists of

- Outlet coarse filter. (2 stage with 5 & 15 microns, or 3 Stage filtrations including Hepa can be offered as an option, scrubber option is also possible)
- Centrifugal Blower, suitable designed with 2800 RPM motor and dynamically balanced fan. Details of capacity as per table.
- 2 Dampers, one auto controlled for open & close positions, second manually controlled for varying the quantity of air.
- Air plenum covering the bottom left hand side of the pan, through which air is sucked out of the pan.

Spray System

The system consists of

- Jacketed and pneumatically agitated solution holding vessel.
- Peristaltic pump for solution transfer.
- Spray gun for film coating.
- Dosing system for sugar dosing.
- Pneumatic system for spray control of solution
- Interconnecting tubing for solution and air between the gun the solution tank and the pneumatic system
- A retractable gun arm for mounting the guns inside the pan.

Mounting:

- The pan is mounted on a sturdy MS channel frame work. The mounting is built into two parts.
- The lower part house the drive assembly.
- The top is completely sealed and enclosed for negative air pressure.
- The top is completed constructed in SS.
- The top cabinet is provided with two side doors for access to the pan and plenums for cleaning.
- The bottom of the pan is provided with a sink and drain for cleaning of the pan.
- The front is provided with an air tight window for viewing the process.
- Blowers are mounted inside the cabinet at the bottom or can be remotely mounted outside the room. Ducting between blowers and main unit to be in the client's scope.
- Electrical Panel and peristaltic pump mounted separately by the side of the machine

Control System

- The control system consists of
- Electrical logic circuit for on/off of the motors, pneumatic controls, heater controls and logic control of the sequence
- Pneumatic controls for the on/off spraying sequence.
- PLC control, integrating the electrical and pneumatic circuit with timer and logic-based sequence.
- Interlocks for,
 - 1) The three-motor sequence
 - 2) Air pressure interlock with spray system
 - 3) Heater interlock with blower

Technical Specification:

Machine & Technical Specification	
Auto Coater Pan	
Coating Pan	
Pan Diameter	600 MM (24")
Pan Mouth Diameter	300 mm
Pan Brim Volume	30 Liters
Total Working Capacity	4.0 Kg to 10.0 kg (Depending on bulk density)
Pan Speed	2 – 10 RPM
Main Drive Motor	1 H.P.
Coating Pan	
Pan Diameter	460 MM (18")
Pan Mouth Diameter	250 mm
Pan Brim Volume	12 Liters
Total Working Capacity	2.0 Kg to 4.0 kg (Depending on bulk density)
Pan Speed	2 – 10 RPM
Main Drive Motor	1 H.P.
Coating Pan	
Pan Diameter	305 MM (12")
Pan Mouth Diameter	150 mm
Pan Brim Volume	5 Liters
Total Working Capacity	500 gram to 2.0 kg (Depending on bulk density)
Pan Speed	2 – 10 RPM
Main Drive Motor	1 H.P.
Coating Pan	
Pan Diameter	205 MM (8")
Pan Mouth Diameter	150 mm
Pan Brim Volume	0.5 Liters

Total Working Capacity	100 gram to 200 gram (Depending on bulk density)
Pan Speed	2 – 10 RPM
Main Drive Motor	1 H.P.
HEATER	
Heater Type	Extended area, Fixed SS Tube with Aluminum Fins.
Heating Capacity	From Ambient to 80°C
BLOWERS	
Hot Air Blower Capacity	300CFM (Ambient Temperature)
Exhaust Air Blower Capacity	350CFM (Ambient Temperature)
Blower Type	Centrifugal, Backward Curved Blades
Hot Air Inlet Blower Motor	1 HP NFLP
Exhaust Air Blower Motor	1 HP NFLP
Motor Protection (Non-Flame Proof)	IP 54
AIR- FILTER	
Pre – Filter	10 Micron (EU 4)
HEPA Filter	0.3 Micron (EU-13)
Utility Requirement	
Electrical Supply	415V/ 3Phase/50Hz/ AC Supply
Compressed Air	45 CFM at 4 Bar Pressure (Free from Water, Oil and other impurities)
Electrical heater	M type heater 3Kw x 1 No
Processing Unit	
Coating Pan	
Construction	Constructed entirely from SS 316 and complying with GMP guidelines, the coating zone consists of Coating Pan, Pan Drive, Baffles and Lamp. The coating pan is enclosed within the cubicle shaped double walled leak proof

	devices.
PLC Based Automation & Control	The PLC is energized through the power panel and has its own integrated control panel and a touch screen Man Machine Interface in the SS 304 housing. The following parameters are controlled: - 1. Automatically controlled process parameters with indication and display such as: - Inlet / Outlet Air Temperature - BED / cabinet temperature - Pan RPM - Spray on time - Product wise parameter / programming memory 2. Automatic stoppage of spray in case of: - Pan rotation stops - Exhaust blower stops - Hot air blower stops - Atomization air pressure falls below set point
Documentation	DQ, IQ & OQ with all test certificate and operating manual will be provided.
Portable Refrigerant Dehumidifier (Industrial grade- Heavy duty)	Model: DEW-POINT Technology: 'AERO' Type: Vertical Frame: GI section profile Panel: 18 SWG single skin Color: Bi-color powder coated Ambient temperature: 5 - 50°C One touch humidity setting and display The unit is fully mobile, works independently without attendant DPS/G model- 30-99% RH (user settable, digital readout) DPS/GE model- LO-MED-HI settings with LED indication Controller: Micro-computer based with inbuilt compressor protection and auto cut-off Control: Automatic RH control Indications DISPLAY Digital for RH indication Digital for Sensor OPEN Digital for Tank OVERFLOW LED Compressor ON/OFF and Auto Defrost (every 2 hrs) Tank full (not applicable) SET RH BUZZER Tank OVERFLOW Sensor OPEN Protection Control fuse for electronic circuit MCB 2 pole Compressor Auto shutoff O/L for Compressor Protection: MCB 2 pole Supply cable: 3 Mtr Wheels: S- GI casing with rubber lining or G- SS casing with PU lining Drain tray: Fixed inside below coil Drain: C- with hose pipe 1 ft length or E- Tank with Auto Overflow Protection arrangement Compressor: Low



SDI Company

Date: 09.11.2022



COATING MACHINE

- Coating Pan is engineered to the perfection from SS 304 (SS 316 optional).
- Fixed Baffles or Detachable Baffles are provided in Coating Pan.
- Totally enclosed machine drive and hot air blowing system.
- 30", 36", 42" or 48" Coating Machine has variable speed drive. Hot air blowing system is separate.
- 60" or 72" Coating Machine has two speeds with step pulley without hot air blowing system.
- Hot air blowing system is with temperature control probe.

Size	12"	18"	30"	36"	42"	48"	60"	72"
Loading Capacity in Kg.	15	25	45	80	100	150	210	350
Main Electric Motor	0.5	0.5	1.0	1.0	2.0	2.0	5.0	7.5
Blower Ph.	0.5			0.5	2800 RPM / 3 Ph.			
Heater Capacity in Kw.	3.0	3.0	6.0	6.0	6.0	6.0	10.0	10.0



OSCILLATING GRANULATOR MACHINE

- Sturdy and noiseless design.
- Easy to operate & maintain.
- Higher ratio of desired size granules can be obtained.
- Continuous oscillating stirrer drive.
- Simple screen holding and tensioning device.
- Double stirrer oscillating granulator also available for higher output.

Model	DPM - 06R - I
Hopper capacity	30 Kg.
Screen area	388 mm (W) x 762 mm (L)
Stirrer size	Ø 138 mm x 368 mm Length
Oscillation	110 Per Minute.
Output *	30 to 75 Kgs./Hr.
Charging height	1135 + 5 mm
Discharging height	655 + 5 mm
Main Electric Motor	1 HP / 1440 RPM / 3 Ph.

*Varies according to product characteristic & screen type.



HIGH SPEED VIBRO SIFTER MACHINE

- Compact vibratory design for high speed & dust free sieving.
- Noiseless and maintenance free machine.
- All contact parts and screen made of SS 304 (SS 316 optional)
- Low power consumption compared to reciprocating vibratory system.
- Easy dismantling and cleaning of contact parts.
- Machine available with flame proof and double / triple deck options

Model	DPM-SIF-20"	DPM-SIF-30"	DPM-SIF-35"
Screen Dia.	503 mm.	752 mm.	914 mm.
Capacity/Hour *	20 to 200 Kgs.	30 to 300 Kgs.	30 to 325 Kgs.
Charging height	1200 mm without Lid	1050 mm without Lid	1050 mm without Lid
Discharging height	720 mm.	570 mm.	570 mm.
Main Electric Motor		0.5 HP / 1.0 HP	

*Varies according to product characteristic and screen type.



MULTI MILL MACHINE

- Designed for continuous wet or dry granulation.
- Beaters & scraper blades made of SS 304 (SS 316 Optional)
- Easy to dismantle and clean
- Beater drive equipped with reversible switch.
- Castor wheels provided for mobility.
- Flameproof electrical components can be provided at extra cost.

Model	DPM-MM - 200
Output *	50 to 200 Kgs./Hr.
Rotor Assembly Diameter	250 mm. Approx.
Rotor Speed	750 / 1500 / 2300 / 3000 RPM
Screen dimension	Inner Diameter 260 mm / Height 135 mm
Motor	3 HP. / 1440 RPM / 3 Ph.
Starter	"DOL" with reversible switch
Material charging height	1460 ± 5 mm.
Material discharging height	760 ± 5 mm.



DUST EXTRACTOR MACHINE

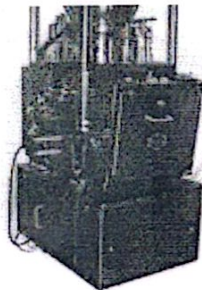
- Fabricated for effective dust collection.
- Provided with stainless steel 304 contact parts (SS 316 optional).
- Dynamically balanced blower fan ensures minimum noise level.
- Four inlet manifolds facilitate to connect more dusting zones.
- Castor wheel provided for ease in mobility.
- Easy to maintain and operate.

Model	DPM-DE-150/300
Electric Motor	1.5 HP / 2800 RPM / 3 Ph.
Filtration Area	1,343 Sq. Mtr.
Dust Storage Capacity	40 Liters.
Suction Capacity	300 CFM (500 Mtr. Cube / Hr.) at 125 mm W.G.

Mini Tablet Press – "ACCURA" MODEL Double Layer Tablet Press

11 Stn. "B", 9 Stn. "D" & 7 Stn. "D" + 7 Stn. "B"

Fluidpack 



Technical Specifications of Mini Tablet Press

MODEL	ACRA- MINI PRESS II 11- B	ACRA- MINI PRESS II 9- D	ACRA- MINI PRESS II - 7 D + 7 B
No. of Station	11 Station	9 Station	7 + 7 (COMBO)
Type of Tooling	B	D	" D+ B"
Output-Tablet/Hr (Min./Max)* Single Layer	6,600 to 19,800	5,400 to 16,200	4,200 to 12,600
Output-Tablet/Hr (Min./Max)* Two Layer	6,600 to 13,200	5,400 to 10,800	4,200 to 8,400

*Double layer
machine*

TOP



Operating Pressure (Max) (Single Layer)	2 Tons		
Operating Pressure (Max) (Double Layer)	6 Tons		
Depth of Fill (Single Layer)	20 mm		
Depth of Fill (Double Layer)	9.5 mm		
Max. Tablet Dia.	16 mm	22 mm	22 mm
Turret RPM (Min / Max) (Single Layer)	10- 30 RPM		
Turret RPM (Min / Max) (Double Layer)	10-20 RPM		
Upper Punch Penetration	2 to 6 mm		
Diameter of Die	30.16 mm	38.10 mm	38.10 mm
Length of Punch	133.65 mm		
Main Electric Motor	3.0 H.p. x 2800 RPM x 415 V x 50 Hz		
Overall Dimension (mm)	640 (W) x 770 (L) x 1050 (H)		
Net Weight (Approx.)	450 kgs.		
Gross Weight (Approx.)	600 kgs.		

Depending upon the characteristic of material and shape & size of tablets.

TOP

NOTE: (1) It Is Recommended Not To Use Large Depth Of Fill Minimum Tablet Thickness And Maximum Compression Pressure For Maximum Performance Consistently

NOTE: (2) It Is A Mandatory Requirement To Use 2 Nos. Dust Extractions For Two Layer Tablets.

Mini Tablet Press Salient Features

- Square GMP Table Top Model, Very much Suitable for the trials of Two Layer Tablets.
- Paint free tablet manufacturing zone.
- Turret of Special Grade S.G. Iron casting
- Having Two Hopper & Single out let.
- Having Separate Layer Sampling Facility.
- Upper punch penetration, as a standard features
- Electronic Digital Tablet cum RPM Counter, as a standard features
- Inter lock Switches to all Guards, as a standard features
- With A.C. Variable Drive, as a standard features
- Lower Guard of polished Stainless Steel & Upper Guards of Acrylic Material
- S. S. Turret Guards
- Imported needle roller bearing provided at the bottom of turret.
- Anti vibration Mounts
- Reverse direction motion protection is provided to avoid accident.
- Grease Nipples are provided for effective lubrication, where required

Mini Tablet Press Optional Features

- SS Machine Mounting Stand.

<https://www.fluidpack.net/blogs/accura-model-mini-tablet-press-double-layer>

Double layer machine

محمد عبد الله بن محمد
- Mohammed A. Abdulwahid
CCTV/10

- Available with PLC with MMI & Colour Touch Screen
- 3 Pcs Turret With Electroless Nickel Plating (ENPL) & S.S. 316 Die Plate.

Products

Tablet Press Machine



Punches & Dies

OFFICE ADDRESS

Roll Compactor Machines

I - 4116, Phase IV, Near Neeka Tube Cross Road,

G.I.D.C Vatva, Ahmedabad - 382 445,

Gujarat, India

MOBILE

+91 98250 33305

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TOP

Walk-In Humidity (Stability) Chambers

Construction: Doubled walled, PUF insulated, leak-proof modular panels with cam & lock arrangement for easy on-site assembly. Interior & Exterior MOC of these PUF Panels are as mentioned in the specifications below. Linoleum carpet at base.

Viewing window size 300 x 300mm. Stainless steel trays for loading samples. Fluorescent light for Illumination. Uniformity through forced air circulation.

Application: The unit is fully suitable to carry out stability studies for ICH conditions such as: 25°C / 60% RH, 30°C / 65% RH,

30°C / 75% RH, 40°C / 75% RH. Also suitable for drug products packed in semi-permeable containers such as : 25°C / 40% RH,

30°C / 35% RH, 40°C / NMT 25% RH

Control System: Complete operations driven through PLC with data storage capacity of up to 1000 readings.

Heating System: Long lasting U-shaped SS tubular heaters with SS fins.

Humidity System: Humidity is generated by a humidifier. Equipment consists of two humidifiers - one works as primary and the other as standby.

Upon detection of fault in regular, controlling system automatically switches over to the other humidifier & raises an alarm.

Cooling System: CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil and condenser. T

Sensor: High quality Temperature & Humidity combo sensor with 4-20mA output.

Alarms: Audio-visual alarms for Temperature & Humidity deviations, Door Open, Mains Failure, Water supply failure, Component Circuit Error.

Safety: Safety devices for Temperature & Humidity Overshoot & Temperature Undershoot. Delay Timer & overload protection circuit to safeguard the compressor. Door can be opened from inside even though locked from outside. Emergency bell switch inside the chamber.

Electrical Supply: Single-Phase 230 Volts, 50 Hz mains supply for capacity up to 70,000 Liters.

Whereas for capacity above 70,000 liter, it is Three-phase 415 Volts, Also available in 60 Hz cycle.

Temperature Range / Accuracy / Uniformity : 20°C - 60°C / $\pm 0.5^{\circ}\text{C}$ / $\pm 1^{\circ}\text{C}$

Humidity Range / Accuracy / Uniformity : 40% - 95% RH / $\pm 2\%$ RH / $\pm 3\%$ RH

MOC Exterior / Interior : Stainless Steel (304) / Stainless Steel (304)

Capacity Cu. Ft. / Liters: 307/8,600 LTRs

Internal Dimension H x W x D (mm): 2000H x 2000W x 2150D

External Dimension H x W x D (mm): 2120H x 2120W x 2270D

Tray Nos.: 20

Tray Size (mm): 900 x 600

1	Complete P.L.C based controlling system with storage of upto 1000 readings.
2	4.4" touch screen color display
3	Ethernet based communication system to enable operations from any PC, (connected on LAN)
4	Stainless steel trays.
5	Safety devices for temperature overshoot & undershoot & humidity overshoot.
6	Stand by humidifier with auto switch over
7	Audio - Visual alarms for deviations in temperature readings & utility failures
8	IQ, OQ, PQ protocols
9	Calibration will be performed at one set value for 1 hour Validation will be performed at one set value for 24 hours each, for empty & loaded conditions.
10	Calibration & Validation Certificates, Operational & Maintenance Manuals

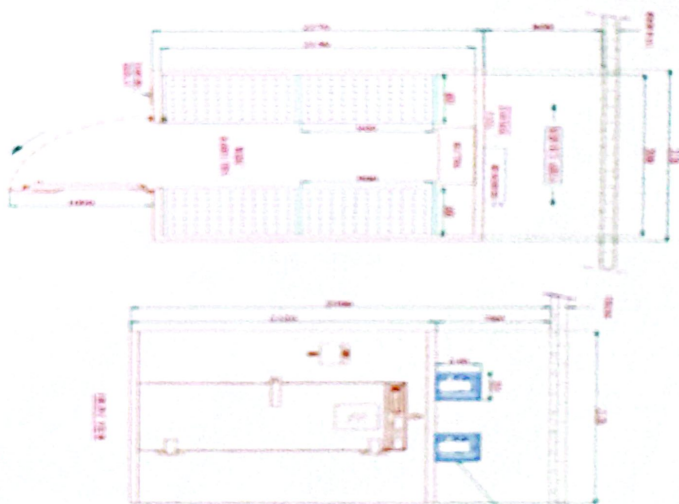
Sr. No.	Description
1	ICDAS 2.1 LITE A browser-based software with flexibility to access from anywhere Unlimited users can be created in the software. The software is Desktop based & fully 21 CFR Part 11 Ready with significant number of advanced features & functionalities.
2	Humidity & Temperature Scanner (For 8 Nos.Sensors) Temperature and humidity scanner having 8 temperature and 8 humidity probes to monitor various parts of equipment
3	Stand by Cooling System with auto switch Over (Attached with main unit) A fully functional cooling system can be provided as standby. It comes in operation automatically on detecting fault with regular system.
4	Door Access System The door access system restricts access to the chamber to authorized persons only. In this system a physical lock is provided additional to this password access control is provided
5	Remote Alarm System (suitable for 4 nos equipments)) Suitable for Newtronic make 4 equipments Alarm for deviations Indicator LED to identify equipment deviation Hooter for Alarm Test push button Individual alarm acknowledge button.
6	Mobile Alert System (suitable for Newtronic make 20 nos. equipments) Mobile alert system suitable for Newtronic Equipments. When ever the alarm is generated by the system the user has to acknowledge the alarm with in predetermined time. If the user fails to acknowledge the alarm then the alarm will send as a sms to defined number.Note: Simcard is in Customer scope.

PROJEKT: KURCOWO 179
MIASTO: INOWIEC
Lp. 1

WIDOK: SPÓRNY WIDOK 2D

PROJEKT: KURCOWO 179
MIASTO: INOWIEC
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PROJEKT: KURCOWO 179
MIASTO: INOWIEC
Lp. 1

1:100



PROJEKT: KURCOWO 179
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