



SVS ENGINEERING

WORLD CLASS INFRASTRUCTURE



Developed into a Multi Functional Process Equipment
Manufacturing Organization

www.svsengg.com

Experts In Drying Equipments & Stainless Steel Furniture

COMPANY PROFILE



■ SINCE 1995

Developed into a multi functional process equipment manufacturing organization. Today SVS caters need of quality process equipment of customer from a diverse industrial Segment.

The experience of every passing year and customer demand ushered development of products for industries such as Bulk Drugs, Chemicals, Pharmaceuticals and many more customized products.



We are situated at Industrial Development Area Jeedimetla, Hyderabad in the state of Andhra Pradesh in a consolidated land For manufacturing equipment for the pharmaceutical, Bulk Drug, Chemical and General Engineering.

We are well equipped with most modern fabrication equipment to conduct the activity of fabrication at the highest standards. We have well trained employees in our organization.

We are also into sophisticated highly useful Furniture specially designed to suit the requirements of pharmaceutical, Bulk Drug, Chemical and Research & Development plants as per USFDA norms and CGMP & GMP standard.

We have started our New Unit with the same Line of activity to cater Visakhapatnam the upcoming Pharma Base in Andhra Pradesh.

Experts In Drying Equipments & Stainless Steel Furniture

■ Atmospheric Tray Dryers

Atmospheric Tray dryers is Batch Process Drying system used for economical drying of powder, granules, food material & chemicals . The Tray Dryer consists of Trolley with Trays one above the other on which product is placed in trays. The medium of heating is Electrical Heaters, Steam or Thermic Fluid Oil flowing through Radiators and placed Diagonally opposite sides and Conventional Air Circulation through Horizontal Blower System.

Construction :

Drying oven is fabricated out of specially formed Sheet structures Inner surface Lined with SS304/316 sheets and Externals with SS304/SS316 for GMP Requirements or MS Exterior Lining painted With Epoxy paint over two coats of Primer for Non GMP. It has large working space and is available, manufactured from mild steel & in good finishing outside with dynthetic enamel colour & inside painted to resist temperature up to 300 degree, in standard model.

Temperature Controller : FLP Digital temperature controller with FLP Head mounted RTD Sensor. The temp control in the dryer is fully automatic.

Surface Finish : EXTERNAL: Buffed to 150 grit mat finish, INTERNAL: Buffed to 220grit mirror finish.

Inlet & Outlet : All dryers have a 5 micron pre filter at the inlet and a manually infinite adjustable damper at the outlet.

Temperature Control : Temperature control system is done by electronic digital temp controller fitted in the control panel. The temp control in the dryer is fully automatic.

Trays : Trays are available in SS304/SS316. Trays are buffed to mirror finish. Trays are also available in Aluminum / Polypropylene.

Trolley : Trolley is provided in the dryers to accommodate trays in it with 4 nos. SS Based PU wheels.

TECHNICAL SPECIFICATIONS ■

MODEL	SVS TDR 12	SVS TDR 24	SVS TDR 48	SVS TDR 96
CAPACITY	12 TRAYS	24 TRAYS	48 TRAYS	96 TRAYS
OVERALL SIZE	1350x900x600	1350x950x950	2000x1875x1075	3200x1875x1075
NO OF DOORS	1	1	1	2
TRAYS PER SHELF	1	2	2	2
TRAYS SIZE	800 X 400 X 32 mm (HT can be Increased upto 50mm)			
No. of Blowers	1	1	1	2
No. of Motors/HP, Ph	1/0.5 HP, 3Ph	1/0.5 HP, 3Ph	1/1 HP, 3Ph	2/1 HP, 3Ph
Electrical Heating Load for 100o/200o/3000	3kw/6kw/9kw	6kw/9kw/12kw	9kw/15kw/18kw	15kw/21kw/27kw
Steam Radiators	2	2	2	2
Trolley Dimensions	Fixed Rack	Fixed Rack	840x960x1780	840x960x1780



❏ Rotocone Vacuum Dryers

In direct heat rotary dryers a continuous feed of wet particulate material is dried by contact with heated air, while being transported along the interior of a rotating cylinder, with the rotating shell acting as the conveying device and stirrer. We offer rotary dryers in co-current (parallel) and counter-current operation. In the former, the wet material is exposed to the hottest air, which enables heat sensitive or sticky materials to be dried successfully. In the counter-current operation dried material is exposed to the hottest air helping to achieve very low moisture content. The hot gases may enter the dryer at very high temperature.



❏ Multi Mills

Multi Mill is a self contained portable unit useful for high speed GRANULATING, PULVERIZING, MIXING, SHREDDING AND CHOPPING, etc., of a wide range of wet and dry materials without special attachments.

As compared to the four common principles of size reduction i.e. grinding, compression, impact and shearing, which often do not produce controlled size reduction, this machine utilizes the principle of variable force swing hammer blades having both knife and impact edges rotating with a carefully selected screen to control size reduction. Flow path of material in vertical rotor machine is streamlined. During comminution, material entering the chamber travels to the periphery and passes through the screen tangentially and radially, avoiding chocking and temperature rise.



Operation :

Multi Mill is designed to utilize the principle of variable force swing beaters having knife and impact edges rotating within a selected screen to control the particle reduction. Material fed into the processing chamber moves to the periphery and passes through the screen radially and tangentially. Finally, the processed material gets collected into the container kept below the processing chamber.

Multi Mills Specification ❏

Output	50-200 kgs / hr depending on product & reduction
Motor	3 hp / tefc / 1440 rpm / 440V / 50 hz / 3 ph / AC
Perforated Screen Hole Dia	0.25-12mm
Rotor Assembly Dia	250 mm
Rotor Speed	750 / 1500 / 2000 / 3000 rpm
Beaters	12 nos. with knife, impact edges & 2 scraper blades
Screen Dimensions	262 mm I.D X 140 height
Charging Height	1445 mm approx (Height Optional)
Discharging Height	730 mm approx (Height Optional)
Overall Dimensions	870 X 965 X 1690(h) mm approx
Gross Weight(Approx)	565 kgs
Net Weight (Approx)	275 kgs

Double Cone Blender

Double Cone Blender is an efficient for mixing dry powder and granulates homogeneously. All the contact parts are made of stainless steel. Two-thirds of the volume of the Cone Blender is filled to ensure proper mixing. It can be used for Pharmaceutical, Food, Chemical and Cosmetic products etc.

Salient Features :

- The conical shape at both ends enables uniform mixing and easy discharge.
- The cone is statically balanced to avoid any excessive load on the gear box and motor.
- While the powder can be loaded into the cone through a wider opening, It can be discharged through a man valve or a slide valve.
- Depending upon the product, paddle type baffles can be provided on the shaft for better mixing.
- Maximum care has been taken to ensure safe operation of the unit. It can also be operated by a timer.
- The contact parts are either made of SS 304 or 316.
- Flame proof motor can be supplied as optional.
- Depending upon the product, paddle type baffles can be provided on the shaft for better mixing.
- Maximum care has been taken to ensure safe operation of the unit. It can also be operated by a timer.
- The contact parts are either made of SS 304 or 316.
- Flame proof motor can be supplied as optional.



Specification

SVS 100	300	180	3	18008001675
SVS 150	450	270	3	195010001750
SVS 200	600	360	5	215010001950
SVS 250	750	450	5	225010002400
SVS 300	900	540	7.5	245010002500

Ribbon Blender

The RIBBON BLENDER is an efficient and versatile blending machine for mixing of dry granules & powders homogeneously. Approximately two third of the volume of the container of Ribbon Blender is filled to ensure proper mixing. The Ribbon Blender gives best result for mixing of dry powder & granules due to design and shape of the mixing ribbon and product container. It can be used for Pharmaceutical, Food, Chemical and Cosmetic products etc.

- Available in a variety of construction qualities and designs to suit required application.
- Basically an open tub with welded or bolted end caps on each end.
- Stainless steel 18 to 220 grit interior finish.
- Sanitary construction.
- Shaft seals incorporated into end caps.
- Bearings supported by framework.
- Heating / cooling jackets can be incorporated.
- Light duty blender mainly used for easy to mix powder components, which are pre-processed like dried granules, Pre-sieved powders, etc.
- Used mostly for solid / solid mixing and can be used for solid / liquid mixing where high shearing force is not required.

■ Shelf Type Vacuum Tray Dryers

Vacuum tray dryer (VTD) is Batch Process Drying system used for drying hygroscopic substances, which are dried to very low residual moisture content level. The VTD consists of Heating Shelves mounted one above the other on which product is placed in trays. The medium of heating is Hot Water, Steam or Thermic Fluid Oil flowing through the Shelves. The cabinet is evacuated by Vacuum Pump Oil Ring or Ejector Type for High Vacuum requirements.

The Drying Time Depends on product material and Quantity of Product in Trays. The drying takes from 4-6 Hours to 1 to 2 days.

VTD'S are used to for drying lumpy, glutinous products or products of low pomposity without Decolourisation.

The dimensioning of the vacuum system is an important factor in the design of drying cabinet systems. If for example vigorous foaming of product is desired and, evacuation to operational vacuum level must take place very quickly vapors produced during drying are taken out direct, or via a steam jet compressor to a surface condenser in which the vapors condensate. The non- condemnable vapors are extracted by the vacuum system. On completion of the drying, the product can be cooled by circulating of cooled water through plates.



Features:

- All contact parts are made out of SS304/SS316 or SS316L quality material in GMP in models
- All contact parts are made out of SS304/SS316 mild steel externals in Non GMP standard modals
- Hollow pad type heating shelves which are easily removable for maintenance.
- Condenser and condensate receiver fixed on the dryer body or stand alone for remote installation
- Full welded skirt on vacuum dryer body for flush mounting through the wall
- External fluid heating of dryer with protective panels in stainless steel or mild steel powder coated
- Validation ports and nitrogen purge nozzles
- Can be designed to customers specification requirements
- Halar lined internals for corrosive applications

Optionals :

1. Suitable Hot water Generator with feed pump and flp motor can be provided.
2. Vacuum Tray dryer with complete Automation with PLC controls can be provided

Capacity :


Standard models range from 3 trays to 48 trays

TECHNICAL SPECIFICATIONS ■

MODEL	SVS VTD 3	SVS VTD 6	SVS VTD 12	SVS VTD 24	SVS VTD 48
CAPACITY	3 Trays	6 Trays	12 Trays	24 Trays	48 Trays
NO OF SHELFs	3+1	6+1	6+1	12+1	16+1
TRAYS PER SHELF	1	1	2	2	3
TRAYS SIZE	800 X 400 X 32 mm (HT can be Increased upto 50mm)				

We are also into sophisticated highly useful Furniture specially designed to suit the requirements of pharmaceutical, Bulk Drug, Chemical and Research & Development plants as per USFDA norms and CGMP & GMP standards



	INSPECTION REPORT Inspection Status: ADDITIONAL		Client/Project: Mitsubishi Electric AURIC CALIBRE	Vendor/ Subvendor Mitsubishi Electric Engineering	PO No. / Sub. O. ALV/SP/CA/PT/08/018	WFOGA of Vendor Subvendor	No. HYDRA1304HYDROTEST/0050/0018/0001 Date of Inspection 01-06-2018 Details of Inspection 1304 HYDRO TEST 01/06/2018 - REMITELA HYDRA1304
	INSPECTION STATUS: ADDITIONAL AURIC CALIBRE		Version: DATE: 08/06/2018 CONTRACT PERIOD:	M/PRASAD: TEL: 944846767 W/ASHT/103	No. NA REV: 07 / 01	Details of Inspection WITH REFERENCE TO THE INSPECTION CALL VISITED OF TRY TESTERS 6 HYDROTEST WITNESSED FOR STEAM COOLANT AT A TEST PRESSURE OF 8 MEGAPASCAL FOR 30 MINS. NO LEAKAGE OR PRESSURE DROP OBSERVED. CONCLUSION CAP NOT AVAILABLE WITH VENDOR HYDROTEST PRE PRESSURE OPERATING PRESSURE IS NOT MENTIONED IN THE CIRCS. REFERENCE TO THE TELEGRAM HAD WITH MR. BANJIE PROJECT MANAGER MR LAURUS LABEIS HYDROTEST TEST PRESSURE TWIN AS KOSKICKA HYDROTEST FLOW ACCEPTABLE AND CLEARED FOR FURTHER PROCESS.	
CONTINUE PLAN		Inspected by: Mr. Prasad Signature: _____ Name: MR. PRASAD	Subscribed by: Mr. Shivam Signature: _____ Name: MR. SHIVAM	Client Signature: _____ Name: SHIVAM	Competent Person Signature: _____ Name: SHIVAM	Approved Signature: _____ Name: SHIVAM	For a retest for inspection after non-compliance report to be submitted. 2 Documents to be submitted
TOP 03 Data	1 Visual inspection 2 Dimensional check 3 NDE: Identification 4 Machine Test 5 Chemical Analysis 6 Heat Treatment 7 Material Test		8 OFT of Flange 9 OFT of Welds 10 Performance Test 11 Monitoring 12 Alignment Check 13 Stress Test 14 Non Destructive Test	15 Surface Test 16 Corrosion Prevention 17 Corrosion Testing 18 Hardness Test 19 Impact Test 20 Fatigue Test 21 Creep Test 22 Tensile Test 23 Compression Test 24 Torsion Test 25 Bending Test 26 Tension Test 27 Shock Test 28 Vibration Test 29 Fatigue Test 30 Impact Test 31 Creep Test 32 Tensile Test 33 Compression Test 34 Torsion Test 35 Bending Test 36 Tension Test 37 Shock Test 38 Vibration Test 39 Fatigue Test 40 Impact Test	41 Tensile Test 42 Compression Test 43 Torsion Test 44 Bending Test 45 Tension Test 46 Shock Test 47 Vibration Test 48 Fatigue Test 49 Impact Test 50 Creep Test 51 Tensile Test 52 Compression Test 53 Torsion Test 54 Bending Test 55 Tension Test 56 Shock Test 57 Vibration Test 58 Fatigue Test 59 Impact Test 60 Creep Test 61 Tensile Test 62 Compression Test 63 Torsion Test 64 Bending Test 65 Tension Test 66 Shock Test 67 Vibration Test 68 Fatigue Test 69 Impact Test 70 Creep Test 71 Tensile Test 72 Compression Test 73 Torsion Test 74 Bending Test 75 Tension Test 76 Shock Test 77 Vibration Test 78 Fatigue Test 79 Impact Test 80 Creep Test 81 Tensile Test 82 Compression Test 83 Torsion Test 84 Bending Test 85 Tension Test 86 Shock Test 87 Vibration Test 88 Fatigue Test 89 Impact Test 90 Creep Test 91 Tensile Test 92 Compression Test 93 Torsion Test 94 Bending Test 95 Tension Test 96 Shock Test 97 Vibration Test 98 Fatigue Test 99 Impact Test 100 Creep Test 101 Tensile Test 102 Compression Test 103 Torsion Test 104 Bending Test 105 Tension Test 106 Shock Test 107 Vibration Test 108 Fatigue Test 109 Impact Test 110 Creep Test 111 Tensile Test 112 Compression Test 113 Torsion Test 114 Bending Test 115 Tension Test 116 Shock Test 117 Vibration Test 118 Fatigue Test 119 Impact Test 120 Creep Test 121 Tensile Test 122 Compression Test 123 Torsion Test 124 Bending Test 125 Tension Test 126 Shock Test 127 Vibration Test 128 Fatigue Test 129 Impact Test 130 Creep Test 131 Tensile Test 132 Compression Test 133 Torsion Test 134 Bending Test 135 Tension Test 136 Shock Test 137 Vibration Test 138 Fatigue Test 139 Impact Test 140 Creep Test 141 Tensile Test 142 Compression Test 143 Torsion Test 144 Bending Test 145 Tension Test 146 Shock Test 147 Vibration Test 148 Fatigue Test 149 Impact Test 150 Creep Test 151 Tensile Test 152 Compression Test 153 Torsion Test 154 Bending Test 155 Tension Test 156 Shock Test 157 Vibration Test 158 Fatigue Test 159 Impact Test 160 Creep Test 161 Tensile Test 162 Compression Test 163 Torsion Test 164 Bending Test 165 Tension Test 166 Shock Test 167 Vibration Test 168 Fatigue Test 169 Impact Test 170 Creep Test 171 Tensile Test 172 Compression Test 173 Torsion Test 174 Bending Test 175 Tension Test 176 Shock Test 177 Vibration Test 178 Fatigue Test 179 Impact Test 180 Creep Test 181 Tensile Test 182 Compression Test 183 Torsion Test 184 Bending Test 185 Tension Test 186 Shock Test 187 Vibration Test 188 Fatigue Test 189 Impact Test 190 Creep Test 191 Tensile Test 192 Compression Test 193 Torsion Test 194 Bending Test 195 Tension Test 196 Shock Test 197 Vibration Test 198 Fatigue Test 199 Impact Test 200 Creep Test 201 Tensile Test 202 Compression Test 203 Torsion Test 204 Bending Test 205 Tension Test 206 Shock Test 207 Vibration Test 208 Fatigue Test 209 Impact Test 210 Creep Test 211 Tensile Test 212 Compression Test 213 Torsion Test 214 Bending Test 215 Tension Test 216 Shock Test 217 Vibration Test 218 Fatigue Test 219 Impact Test 220 Creep Test 221 Tensile Test 222 Compression Test 223 Torsion Test 224 Bending Test 225 Tension Test 226 Shock Test 227 Vibration Test 228 Fatigue Test 229 Impact Test 230 Creep Test 231 Tensile Test 232 Compression Test 233 Torsion Test 234 Bending Test 235 Tension Test 236 Shock Test 237 Vibration Test 238 Fatigue Test 239 Impact Test 240 Creep Test 241 Tensile Test 242 Compression Test 243 Torsion Test 244 Bending Test 245 Tension Test 246 Shock Test 247 Vibration Test 248 Fatigue Test 249 Impact Test 250 Creep Test 251 Tensile Test 252 Compression Test 253 Torsion Test 254 Bending Test 255 Tension Test 256 Shock Test 257 Vibration Test 258 Fatigue Test 259 Impact Test 260 Creep Test 261 Tensile Test 262 Compression Test 263 Torsion Test 264 Bending Test 265 Tension Test 266 Shock Test 267 Vibration Test 268 Fatigue Test 269 Impact Test 270 Creep Test 271 Tensile Test 272 Compression Test 273 Torsion Test 274 Bending Test 275 Tension Test 276 Shock Test 277 Vibration Test 278 Fatigue Test 279 Impact Test 280 Creep Test 281 Tensile Test 282 Compression Test 283 Torsion Test		

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OUR ESTEEMED CLIENTS



- Aurobindo Pharma Limited
- Dr.reddy's Laboratories Limited
- Divis Laboratories Limited
- Matrix Laboratories Limited
- Hetero Drugs Limited
- Hetero Labs Limited
- Inogen Laboratories Limited
- Vijayasri Organics Limited
- Vagesna Laboratories Limited
- Rakshit Drugs Limited
- Vasudha Pharma Limited
- Matco Pharma Limited
- Auctus Pharma Limited
- Virupaksha Laboratories Limited
- Vivimed Labs Limited
- Nicholus Piramal India Limited
- Gland Pharma Limited
- Sri Krishna Pharmaceuticals
- Msn Laboratories Limited
- Glowchem Industries Limited
- Gensynth Fine Chemicals Limited
- Smilax Laboratories Limited

CONTACT

SVS ENGINEERING

Hyderabad Branch:

Plot No.: 61/E/2B, Pipe Line Road, Phase I, IDA Jeedimetla
Hyderabad, A.P, INDIA - 500055

Factory Phone : +91 - 40 - 23096763 , Residence : + 91 - 40 - 23094937
Fax : +91 - 040 - 23097103
Mobile : + 91 9848048726
E-mail : prasad@svsengg.com, Ramakanth@svsengg.com

Visakhapatnam Branch:

Plot No.: 90/2, Block-d, IDA Autonagar
Visakhapatnam, A.p, India - 530012

Factory Phone : +91 - 00 - 00000000, Fax : +91 - 00 - 00000000
Mobile : + 91 9848048726
E-mail : prasad@svsengg.com, Ramakanth@svsengg.com

Our Associated Companies: **Ramyasri Electrical Automation** *All Kinds Of Electrical Control Panels*

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