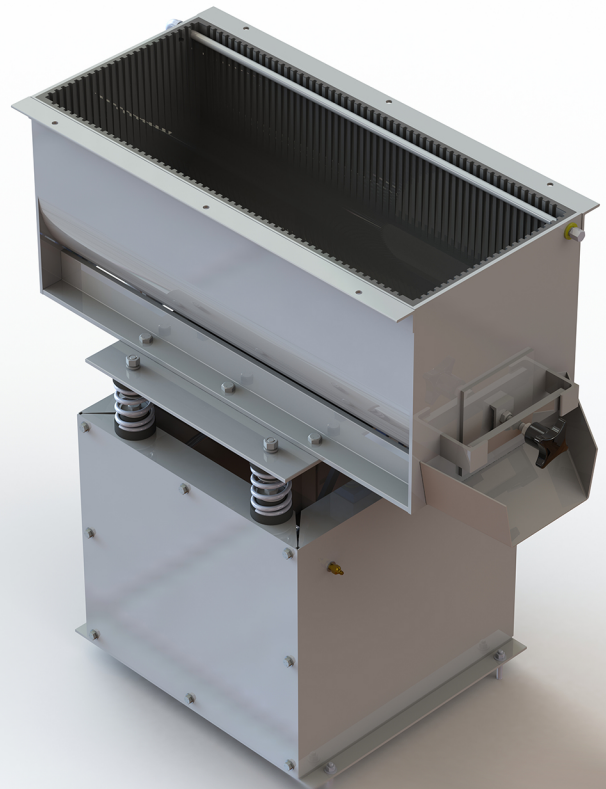


OPERATING MANUAL



MR. DEBURR

MODELS: DB600/DB300



C&M TOPLINE
MASS FINISHING MACHINES
& TUMBLING MEDIA



cmtopline.com
1-800-827-1333
5945 Daley St.
Goleta CA, 93117
A Pacific Vibe, Inc. Company

5945 Daley St, Goleta CA 93117

www.cmtopline.com

info@cmtopline.com

1.800.827.1333



C&M Topline Warranty Policy

C&M Topline warrants our product to be free of material and workmanship defects. The period of warranty is 1 year from the date of purchase from an authorized seller*. No warranty is provided for products that have been modified, abused, handled carelessly, where repairs have been made or attempted by others, or for freight damage. No other warranty, written or verbal is authorized by C&M Topline. During the warranty period C&M Topline (or its authorized suppliers or agents) will replace or repair the product without charge if the product is found by C&M Topline to be defective.

To receive warranty services you must contact C&M Topline via info@cmtopline.com and receive authorization for warranty service. Unless otherwise authorized by C&M Topline, products must be returned to the factory to receive warranty service**.

*Submersible Fluid Pumps and Tumbling Barrels/Lids are warrantied for a period of 30 days from purchase. A defective or failed pump will be replaced during this period. A leaking or broken tumbling barrel will be replaced during this period

**Motors, speed controllers, and certain other accessories are warrantied by their respective manufactures. To receive warranty service on these items you must contact a brand label service center that supports the product in need of service. C&M Topline will assist you in locating a service center.

For the first thirty days after purchase we will pay normal and necessary surface freight charges both ways. After thirty days the customer is responsible for all freight charges.

For prompt warranty service please provide the following information when contacting C&M Topline at info@cmtopline.com

Product Model: _____ Date Purchased: _____

Purchased From: _____ Address: _____ City: _____ State/Prov: _____ Postal Code: _____

Your company name: _____

Address: _____ City: _____ State/Prov: _____ Postal code _____

Phone: _____ Fax: _____ Email: _____

Your name: _____ Title: _____



Mr. Deburr Operating Manual

Congratulations on your purchase of a Mr Deburr finishing tank system. The Mr. Deburr line is one of the most trusted names in the industry. C&M Topline has been manufacturing the Mr. Deburr line since 1972 and the machines are in constant use for thousands of satisfied customers across the globe. The Mr. Deburr line of vibratory tumblers use commonly available media to de-burr, polish, de-scale, or otherwise surface condition parts made from various materials. The media and parts achieve the proper processing motion from the electric motor and bearing assembly that includes a set of offset weights. The rotation of the offset weights creates vibratory forces that rotate the part and media within the tank creating the necessary tumbling action.

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Receipt and initial machine set-up

1. Ensure that you have received all of the items that you ordered. Compare the packing slip with your purchase order, and of course with the physical items received.
2. Verify that there is no obvious shipping damage. If shipping damage is discovered notify the freight carrier of your intention to file a freight damage claim. They will assist you.
3. Verify that the AC power that is identified on the machine as received matches the AC power that you intend to operate the machine with. Do not modify the machine's wiring without first contacting your distributor or C&M Topline.
4. Do not modify or defeat any electrical wiring safety feature. For example, do not remove the grounding pin on the AC electrical plug.
5. Verify that you have received the manual and anchor bolts.
6. Prior to operating the machine read the manual carefully. Insure that all persons who will operate the machine or who will work in the vicinity of the machine read, understand, and comply with these safety instructions.
7. Insure that your AC electrical power source is properly sized and properly fused for the machine you purchased. Consult with a competent electrician to determine the proper specifications for your electrical service prior to connecting your machine.

Anchoring Your Mr. Deburr Machine

CAUTION: This equipment is heavy. Observe good and safe practice when attempting to install, move, maintain, or otherwise work on it. Failure to observe this caution may create a safety hazard.

The Machine must be level, and anchored to a solid surface. A concrete floor or concrete pad is recommended. Machines that have ran un-anchored or anchored to any vibration dampening devices will void all warranties



Anchor bolts are provided with your machine purchase

Model DB300: 3/8" – 1 7/8" Sleeved Anchor Bolts, use 3/8" concrete drill

Model DB600: 1/2" – 3" Sleeved Anchor Bolts, use 1/2" concrete drill

To Anchor:

1. Locate your machine in the desired location
2. Mark the location with a pen or marker through the mounting holes
3. Create the anchor points using the appropriate drill per your model listed above

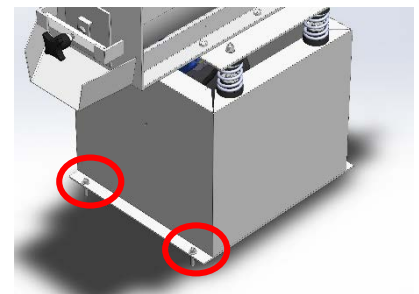


Figure 1: Machine Anchor Locations
(DB300 Pictured)

Periodically check these anchor bolts to make certain that the vibrations have not caused loosening. It is important that your machine remain level and securely mounted to the floor in order to prevent damage to your machine. The machine



may be shimmed with a flat washer to make up for irregularities in the floor. The machine should not be run on a pallet, even temporarily.

Occupational Noise



Mr. Deburr systems produce levels of noise consistent with their intended purposes. The level and spectral content of noise produced is dependent on the tub size, the degree that the bowl is maintained in proper operating condition, the abrasive/media and accessories used, the specific application, use or not of the optional lid, and the surrounding environment. Noise levels produced by various Mr Deburr vibratory systems, as measured at the C&M Topline factor, range from 81 to 93 decibels. Product operators and persons in the

immediate product vicinity should be protected from excessive noise levels as prescribed in OSHA regulation 29, part 1910.95 titled "Occupational Noise Exposure".

Electrical Installation

Avoid Electrocuting Hazards. The Mr Deburr system is not NEMA 4 or NEMA 4X rated. They must not be used in a manner that allows fluids to enter the unit base, power cord, on/off switch, or electrical plug. This machine must be installed with a GFCI outlet to minimize the risk of electric shock or electrocution. If your machine is configured for 208-240 volts you should install a GFCI circuit in your electrical distribution panel.

CAUTION: Only qualified Electricians should perform electrical installation, adjustments, maintenance, or modifications to this equipment. Failure to observe this caution may create a safety hazard.

CAUTION: Install this equipment in accordance with local electrical codes and regulations. Failure to do so may create a safety hazard. See label on the machine to determine its electrical service and horsepower.

Equipment	Min. service size	Model
<u>Single Phase Units</u>		
3/4 hp, 120 VAC	12 ampere	DB300
3/4 hp, 220 VAC	10 ampere	DB300
Fluid Pump, 115 VAC	1.1 ampere	DB300 & DB600
<u>Three Phase Units</u>		
3.0 hp, 208 to 230 VAC	8 amperes	DB600
3.0 hp, 416 to 480 VAC	4 ampere	DB600
Fluid Pump, 115 VAC	1.1 ampere	DB300 & DB600

Single Phase DB300 Motor

The machine motor and pump are 115 volts single phase. The motor is 3/4 H. P. and draws 12.0 Full Load Amps (F.L.A.). It has a manual overload located on the end of the motor. The motor may also be wired for 220 volts. The pump draws 1.1 amps. Both pump and motor have a 6-ft. cords with a 115-volt plug. A Double Gang Electrical Box should be located about 3 ft. from the floor and to the left of the machine. Install into the electrical box two 115-volt plugs rated for 20 amp and a 20-amp on/off switch. Instead of a switch you may use a timer. The machine and pump should be on a 20-amp breaker by themselves. **CAUTION: If on start-up, the machines**



RPM cycles up and down, shut the machine off immediately. This problem is caused by a voltage drop in the line and will burn the motor out. The machine should never be run on an extension cord.

Three Phase DB600 Motor

The motor is three horsepower, three phase and can be wired either 230 or 460 volts. The motor draws 8 amp at 230 volts and 4 amps at 460 volts. The motor comes wired at 230 volts and can be quickly changed to 460 volt by any qualified electrician.

Three phase machines are not equipped with a magnetic starter or power cord. Three phase machines should be connected to the mains supply via a magnetic starter or manual disconnect. Failure to use a magnetic starter or manual disconnect may create a /fire hazard, and/or void the motor warranty. A liquid tight connector must be used.

The circulating pump is 110 volts single phase and will require a separate switch. Your electrician can advise you of different switching options. The electrician can wire the machine and pump so that they can both go on at the same time. The machine should never be run on an extension cord.

Motor Rotation

Electric motors will operate CW or CCW depending on how the motor is wired (in the case of three phase motors how the incoming power is phased). The machine drive shaft must rotate CCW when viewed from the dump chute end of the machine. If the shaft rotates CW the media will not move properly and vibratory processing time will be significantly increased. If the shaft operates CW reverse the motor rotation. For three phase machines simply reverse any two incoming feed lines. For single-phase motors see the motor label plate which will usually direct the reversal of two wires with in the motor conduit box.

Media and Part Loading

If you purchased a media starter kit from C&M Topline, install the media and compounds into the chamber using the prescribed quantities and mixtures. Otherwise follow the instructions provided. Do not exceed the media load prescribed for your machine.

<i>Machine</i>	<i>Ceramic media load</i>	<i>Plastic Media Load</i>	<i>Part load</i>	<i>Max. total load</i>
DB300	150 lbs.	100 lbs.	100 lbs.	250 lbs.
DB600	400 lbs.	300 lbs.	450 lbs.	900 lbs.

Over loading the machine may significantly reduce its service life. If you use steel media, note that steel media weights generally 200 to 350 pounds per cubic foot (Non steel media generally weighs 20 to 125 pounds per cubic foot). To avoid possible machine damages do not add media and parts to the machine such that the total specified machine load is exceeded.

Using too little media in your Mr. Deburr machine will significantly reduce vibratory motion and adversely affect processing time and quality. You should have sufficient media in your Mr. Deburr such that the media rises to less than 5 inches (3-4 inches is ideal) of the tank’s upper edge when the machine is operating. Add media as required to maintain this minimum quantity.

Place your parts into the tub. Note the above part loads. The part load prescribed is not a maximum but rather a nominal weight. The geometry, material, and weight of your parts will determine the part load you can achieve. The greater the total load, the harder the machine must work to sustain suitable energy delivery. Do not exceed



the maximum total loads specified. To do so may shorten the life of your machine, and/or diminish its process capability.

Vigorous media and part movement is evidence of good finishing action. A rotating wave with the highest portion of the wave rising up the back wall of the machine and the front portion of the wave substantially below the rear portion should exist. With good action the parts circulate and rise to the front of the tank, then cascade down the wave to the back of the tank. Should you not observe this quality of motion, check that the machine is loaded properly (see the previous table).

Fluid System and Nominal Operation



Figure 2: DB300 Fluid System

Your Mr. Deburr system was shipped from the factory with a re-circulating fluid system that includes a pump, pump bracket, connecting hose, and recovery sump bucket that serves to collect the fluid output from the tank drain. Screw the hose barb on the hose that is connected to the pump into the petcock at the top of the tank. The bucket goes under the tank drain and the pump hangs in the bucket with the bracket provided. Fill the 7 gallon bucket included with DB300 systems with 6 gallons of water. Fill the 10 gallon bucket included with DB600 systems with 9 gallons of water and add finishing compound fluid. The compound should be mixed at a ratio of 1-4 ounces per gallon of water. Figure 2 shows the standard DB300 system. Note cutout in bucket is for display purposes.

During processing ensure that the switches to the Mr. Deburr motor and the fluid pump are both in the “on” position. Adjust the flow rate of the fluid with the petcock that is connected to the fluid pipe. The flow rate should be adjusted down so that the media is wet but with little to no accumulation of standing water in the bottom of the tank while the machine is running. The fluid should just drip into the machine while it is running. If you notice a large amount of foam in the bucket, reduce the water flow as well.

The fluid should be changed often, at least once every 8 hours of operation. If the fluid is very dirty the media will become sticky and stop turning in the tank. Dirty fluid also causes more foaming during operation and can become rancid.

It is also important that the pump remain submersed while running. If the pump is allowed to run dry, it will become very hot. This will shorten the life of the pump if not burn it out completely. Also ensure that the pump is suspended off the bottom of the bucket using the included bracket. This prevents the excess sediment that collects in the bucket from prematurely reducing pump life. To make changing of the circulation solution easier, put a disposable plastic bag in the bucket before filling it with water and compound. The bag should be 3 mil or 4 mil thick. Simply pour off the liquid and dispose of the solid waste using the bag.

You may also set our machine up to run with a flow-through fluid system or a batch type (closed) system. Drain plugs are available that will allow the machine to operate as a closed system.

Wear proper clothing and personal protection equipment when operating your machine



Avoid Fire and Explosion Hazards

The use of fluids other than water and specified soaps in your Mr. Deburr system (or an associated fluid re-circulating system) may create a fire/explosion hazard that could result in personal injury, or death. Use only clean water with recommended compounds.

Avoid eye damage, flesh burns, and/or poisoning. Many vibratory processing soaps, compounds, and media are acidic or caustic. Wear appropriate flesh and eye protection gear when using vibratory soaps and compounds, and when working around and with your Mr. Deburr system. Do not ingest these materials. MSDS sheets are available for all soaps, compounds, and media sold by C&M Topline at www.cmtopline.com. Obtain, read, and apply the precautions specified in the MSDS sheets.



Precautions with Fluids and Other Materials

Only use fluid as recommended by C&M Topline. The Mr. Deburr urethane liner is very tough and resistant to abrasion. Certain chemicals may however, attack it. In example, mineral spirits may leach agents from the urethane and reduce its service life. If in doubt consult with C&M Topline or a chemist who is knowledgeable about urethane. Remember, never use flammable chemicals in your Mr. Deburr system. Likewise, many chemicals can damage the pump and associated apparatus.

Additionally, there are many different chemicals in use as coolants, cutting fluids, and for other purposes commonly found in facilities such as machine shops. C&M Topline cannot guarantee the compatibility of the various soaps and fluids that we sell with the chemicals and fluids you may use. You as the consumer must assure that the fluids and chemicals that you elect to use are compatible with each other and with other materials. It is possible that chemical reactions between fluids and/or materials that you use could be a threat to human health and safety; and/or create conditions that are deleterious to the Mr. Deburr system, peripheral equipment, and/or your parts.

There are many compounds that are available to use in vibratory machines depending on the materials, media, and results that you are using and desire. Fluids and compounds serve to improve finish, speed results, extend media life, and in some cases to retard oxide formation. The following is a partial list of guidelines:

Aluminum

When processing aluminum or other non-ferrous materials to a burr free state with matte finish select liquid soap such as VF77 and mix it with water at a concentration of 1 to 4 ounces per gallon of water. Adjust the fluid valve to deliver a steady trickle of fluid to the tank. To improve your parts surface condition post processing always rinse your parts in clean water shortly after removing them from the chamber, then dry them to minimize spotting. Remember that many metals will oxide rapidly when machining, etc. expose fresh metal (as is the case with vibratory processing). If this is a problem there are various chemicals that are available that you may use to dip your parts in post vibratory process to minimize oxide formation. Consult with your metals supplier, or C&M Topline.

Steel

When processing steel and other ferrous materials to a burr free state with a matte finish select a liquid soap that also contains a rust inhibitor such as VF100 and mix it with water at a concentration of 1 to 4 ounces per gallon of



water. Adjust the fluid valve to deliver a steady trickle of fluid to the tank. To improve your parts surface condition post processing always rinse your parts in clean water shortly after removing them from the chamber, then dry them to minimize rusting. Remember that ferrous metals will oxide rapidly when machining, etc. expose fresh metal (as is the case with vibratory processing). VF100 will provide temporary retardation of rust formation. Depending on humidity, temperature, and other conditions the temporary rust inhibition will be from a few hours to several days. If your materials require longer protection, concentrated rust inhibitors are available that you may use to dip your parts in post vibratory process to inhibit rust formation for several days to several months. NOTE: VFRI8B may be used as a vibratory soap in concentrations up to 8 ounces per gallon of water; used as such it provides superior rust retardation. For special problems with rust or other staining consult with your metals supplier, or C&M Topline.

Polishing

Many materials may be brought to a fine, lustrous, low RMS finish by using non-abrasive ceramic polishing media together with a burnishing compound such as VF103 or VF150 mixed with the water. Mix these compounds with water at a concentration of 1 to 4 ounces per gallon of water. Clean and dry your parts as described above immediately after processing.

Many materials may be polished to a high luster using special media such as walnut shell, corncob, etc. Typically, these types of media are used dry, without the use fluids. If you wish to use dry process media do not use the fluid system. It will also be necessary to plug the outlet drain of your Mr. Deburr chamber to prevent the media from escaping out the outlet. This can be done using common plumbing devices available at ordinary hardware stores, or from C&M Topline. **Never operate the fluid pump dry. Doing so may damage the pump.**

Tips for Optimal Operation

It is impossible to anticipate all possible combinations of materials, shapes, media, and compounds that customers may use in this equipment. It is therefore, not possible to provide specific directions for media selection, compounds, process times, etc. There are, however, general guidelines that will help to target the optimum process. These include:

- Select your media and compounds after consulting with C&M Topline, a qualified media supply house, or your distributor. See the previous section on using fluids and compounds.
- Clean your equipment regularly. This will help in keeping your processed parts free of stains, dust, etc.
- Use fresh fluids and change them often. It is recommended that you change fluids once a day or every 8 hours of operation. Organic fluids left sitting for many days can turn rancid.
- Clean and rinse parts quickly after processing. Nonferrous parts may stain if not cleaned and dried properly. Ferrous parts may rust. There are compound additives that will help in removing and/or preventing part staining.
- Media wears out in time. The longer media is used the less its abrasive power. Softer materials such as aluminum tend to clog the media, harder materials tend to wear the surface of the media. The use of fluids will help to optimize your results. C&M Topline recommends that you establish a regular schedule for changing and discarding your media. You will gain knowledge regarding process times, and media life. Keeping records of your process variables will help you optimize your process.
- Ensure your machine is anchored directly to a solid concrete surface. **Mounting to something such as a pallet or placing vibration dampening between the machine and floor may cause damage to the motor and will void the warranty.**



Further Troubleshooting

- Check the V belt to see that it is not too tight. It should have about 3/4" of deflection half way between the pulleys at 2-3 lbs for the DB300 and 2" of deflection for the DB600.
- The media level should be 5" from the top of the tank. If the level of media drops too low, the media will not tumble as vigorously
- Most of the time the problem is that the media has become dirty or contaminated, which makes the media sticky and prevents proper tumbling. Should the media become dirty or contaminated, thoroughly clean the fluid container, refill it with clean water and add two or three cups of some low foaming detergent such as "Simple Green" or "409". Run the machine 5 to 10 minutes and repeat the process once more. Then refill the container with water and your regular deburring compound. If you have this problem repeatedly, increase the amount of compound and clean the fluid container more often.

Recommended Maintenance

Maintenance consists of cleaning the unit, assuring mechanical fasteners are secure, assuring the drive belt is properly tensioned, and occasionally lubricating the drive shaft bearings.

After Initial 24 Hrs of Operation

- Adjust Drive Belt Tension – 3/4" Deflection at 2-3 lbs for the DB300 – 2" Deflection at 2-3 lbs for the DB600
- Inspect For Loose Hardware including floor anchor bolts

Every 30 Days of Operation

- Adjust Drive Belt Tension – 3/4" Deflection at 2-3 lbs for the DB300 – 2" Deflection at 2-3 lbs for the DB600
- Lubricate Bearings – NLGI#2 Lithium or Lithium Complex, Caution – *Do not use excessive grease.*
- Torque Bearing Mounts – 40-50 ft-lbs
- Torque Motor Mounts – 130-140 in-ozs
- Torque Bearing Shafts Sets – 65-70 in-ozs
- Torque Tub Mounts – 240-280 in-ozs
- Inspect For Loose Hardware including anchor bolts
- Clean as Required



Special note on bearing lubrication

Easy access to the bearing grease zerk fittings is provided. See figure 3. Use a lithium based grease available from any auto parts store. It is very important that you **DO NOT OVER GREASE** the bearings. Too much grease will cause overheating. One squirt with a hand grease gun every 100 hours of operation is sufficient. A small amount of grease at frequent intervals is preferable to a large amount at infrequent intervals. If the bearings seems to be changing pitch or noise volume it may be time to service or replace the bearing.

Visit www.cmtopline.com for replacement parts. We also offer full bearing assembly rebuilds. Contact us at info@cmtopline.com for details.



Figure 3: Bearing Grease Zerk Fitting Circled

Special note about the motor mount and drive belt(s)

Do not over tighten the drive belt. The machine will run better with a drive belt that in another application would appear to be running too loose. **Over tightening the drive belt will result in premature motor failure.**

Warranty service

Should you require warranty service please contact C&M Topline or your distributor. C&M Topline may be reached at info@cmtopline.com. The motor manufacturer warrants the main drive electric motor; to obtain motor warranty service contact the motor manufacturer's service center in your area. **NOTE: when inquiring about warranty service or replacement parts please be prepared to provide the actual machine model number.**

Modifications to your vibratory chamber

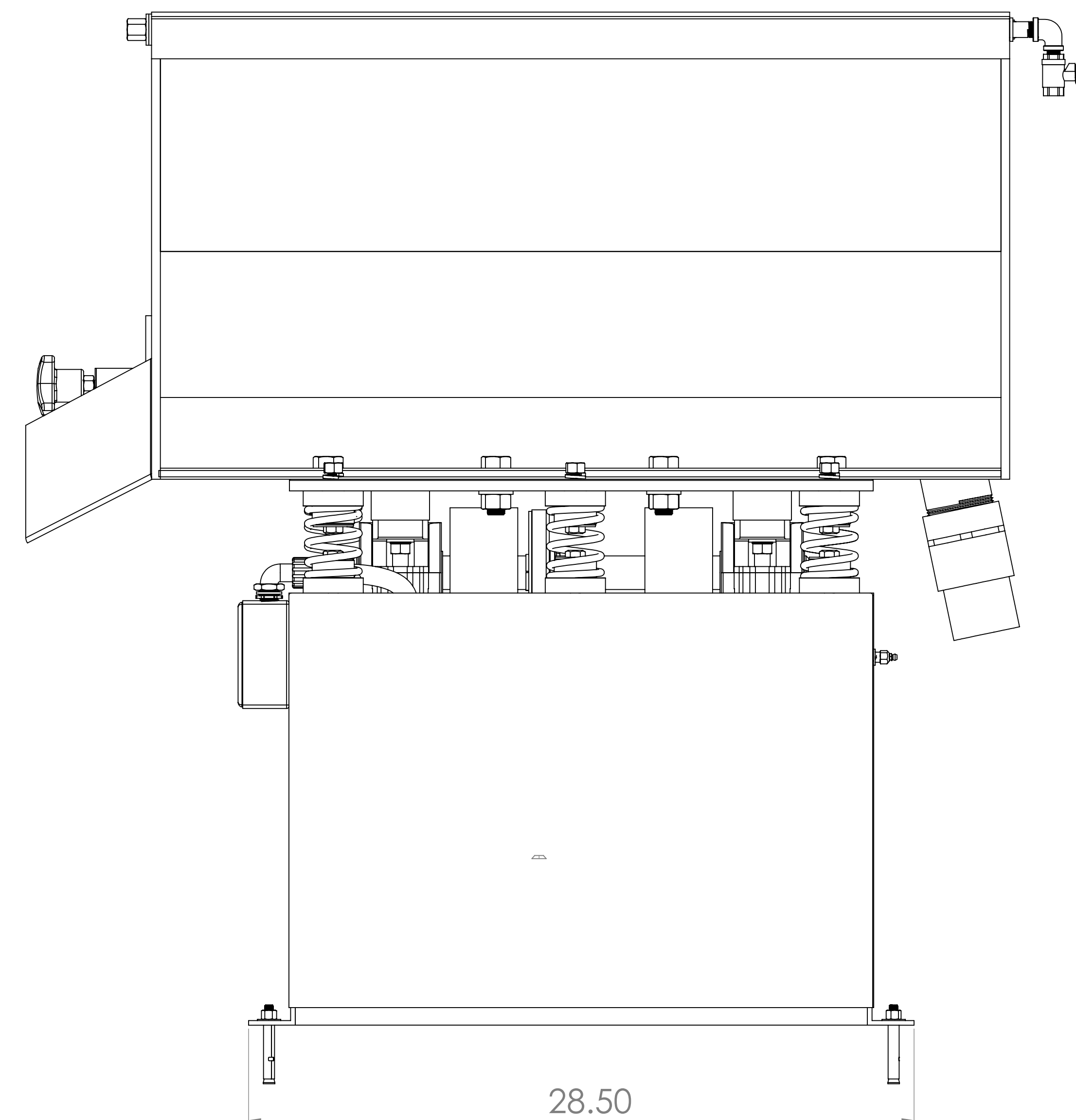
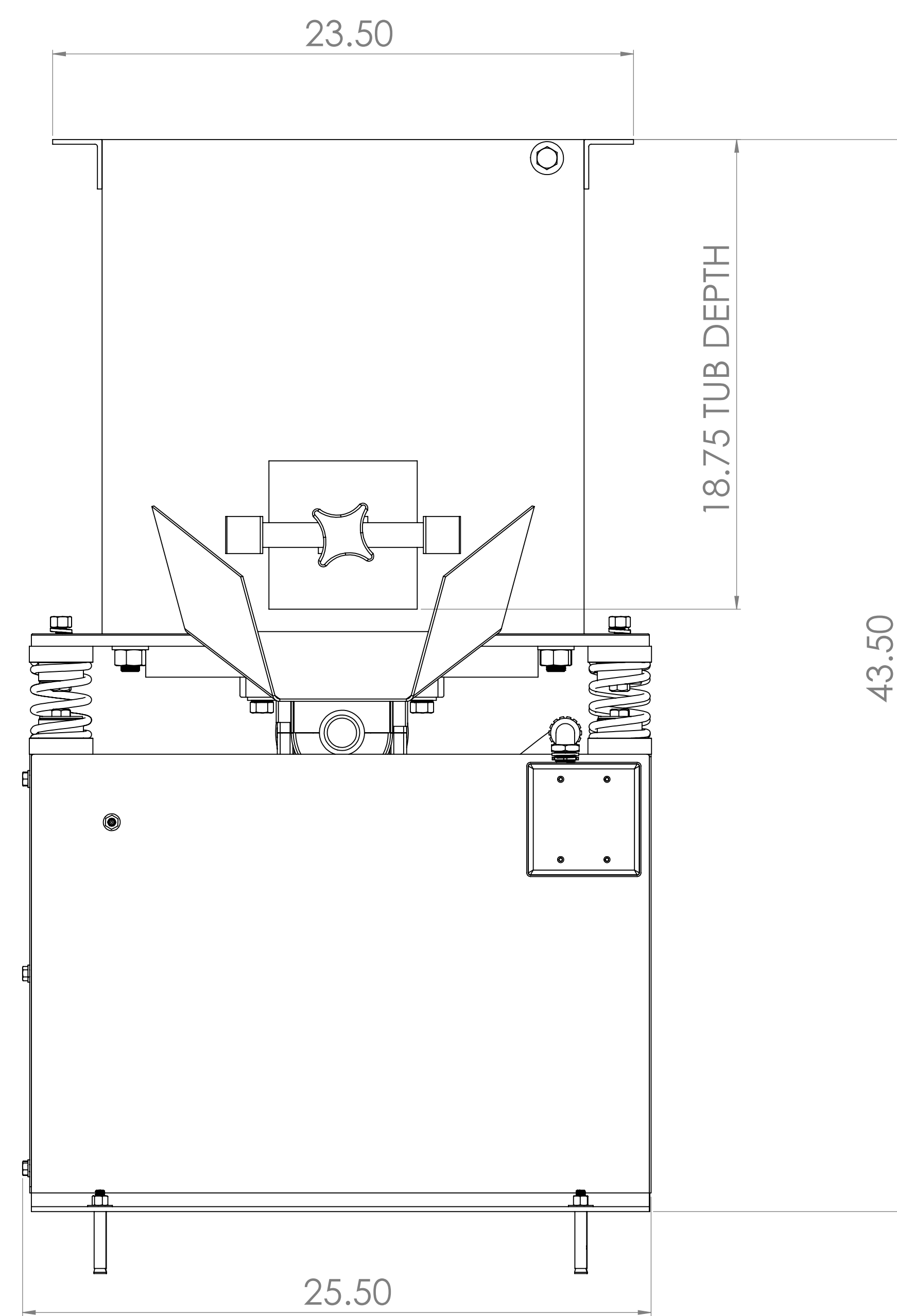
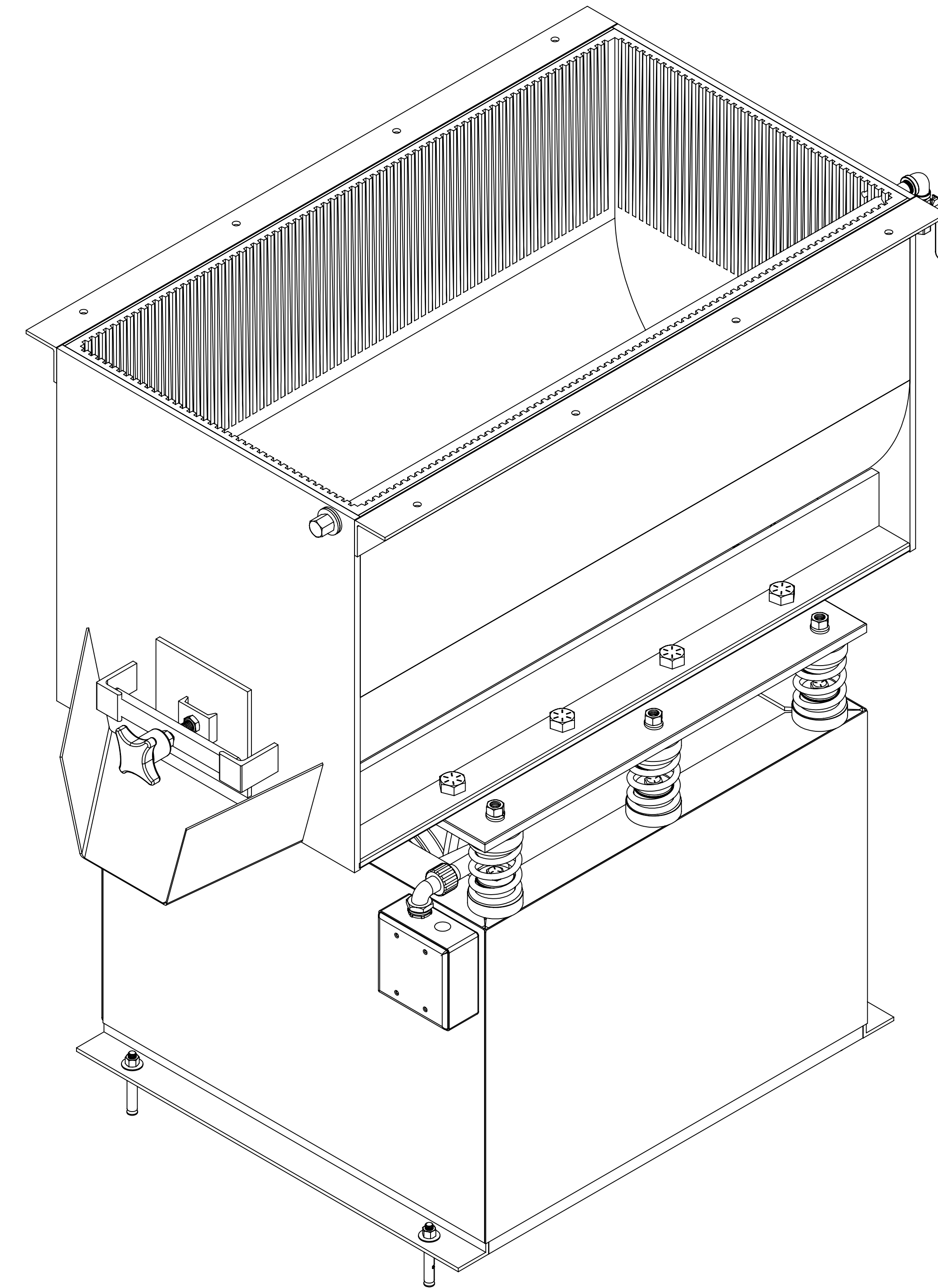
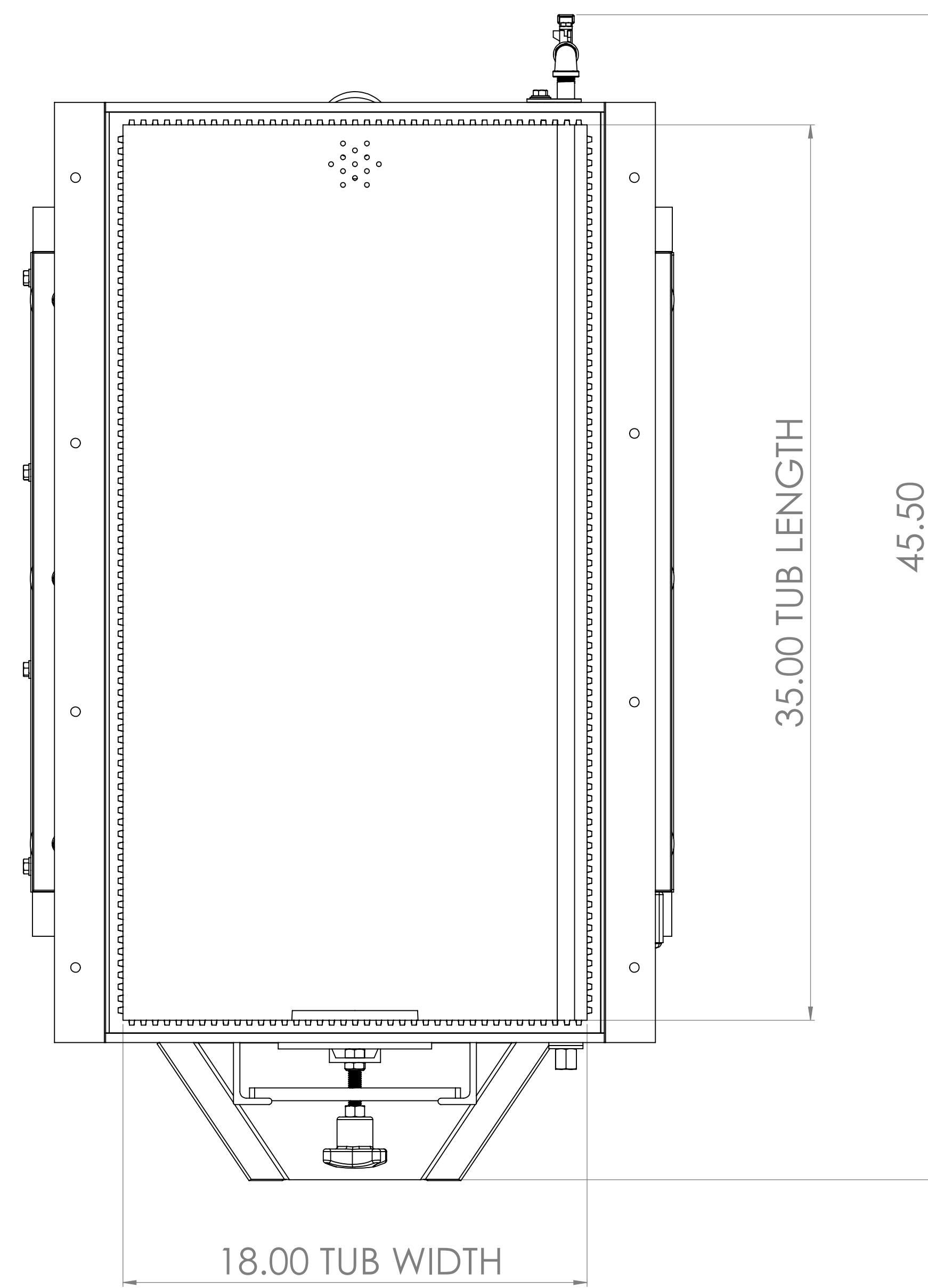
CAUTION: Modification of the machine from its as shipped condition from the factory may create a safety hazard, and may void the factory warranty. If you have any questions in this regard please consult C&M Topline before making any modifications.

Supplies and Parts

C&M Topline offers most media and compounds for sale on our website at cmtopline.com. A media and compound availability guide is included with this manual. We also have helpful tips and pictures on our Finishing 101 website section which includes real before and after finishing test results. All C&M Topline machines are produced with line replaceable parts. Many parts can be ordered directly online. See the following parts schematics to help identify your replacement parts needs.

Mr. Deburr DB600 Schematic

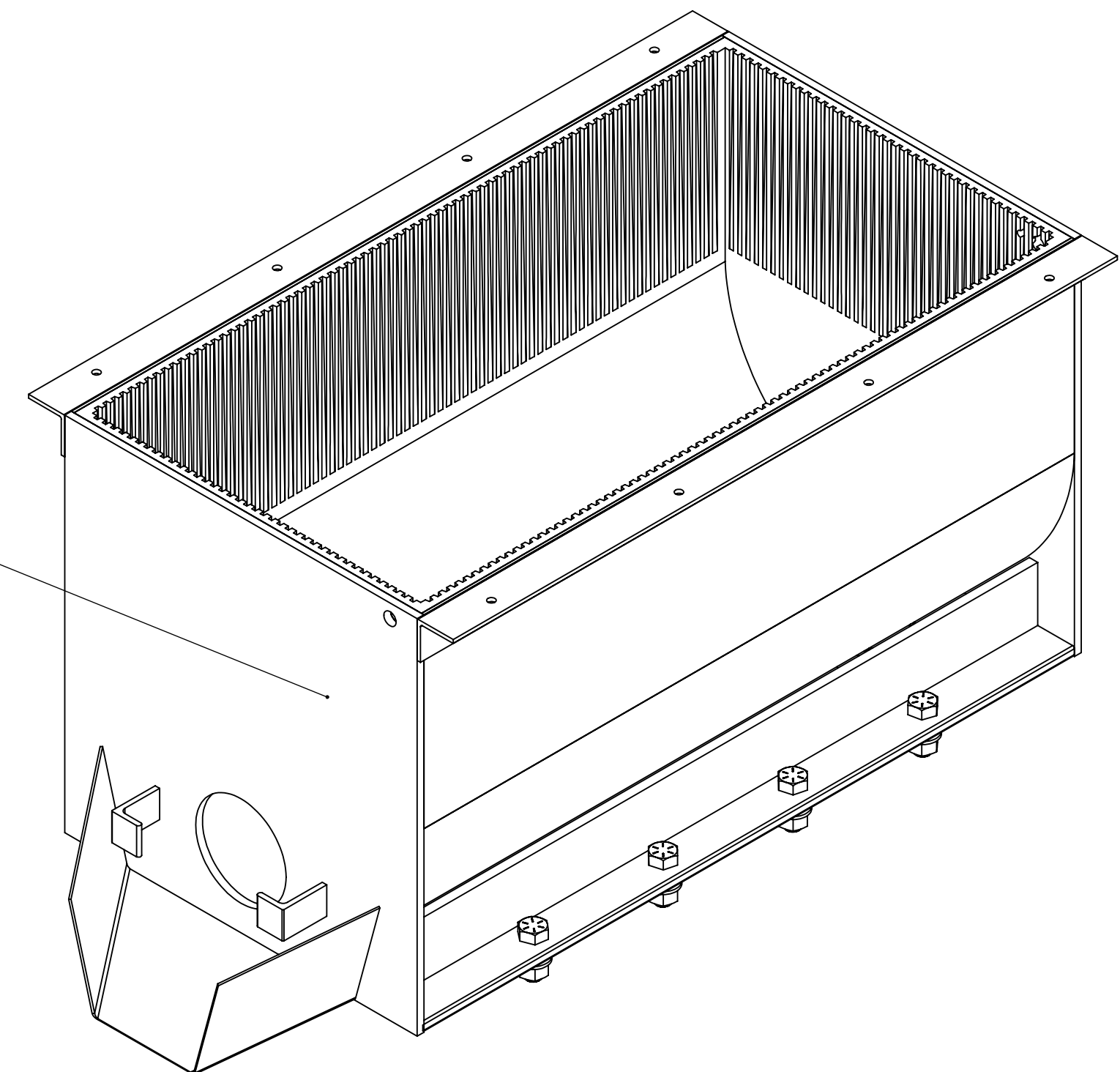




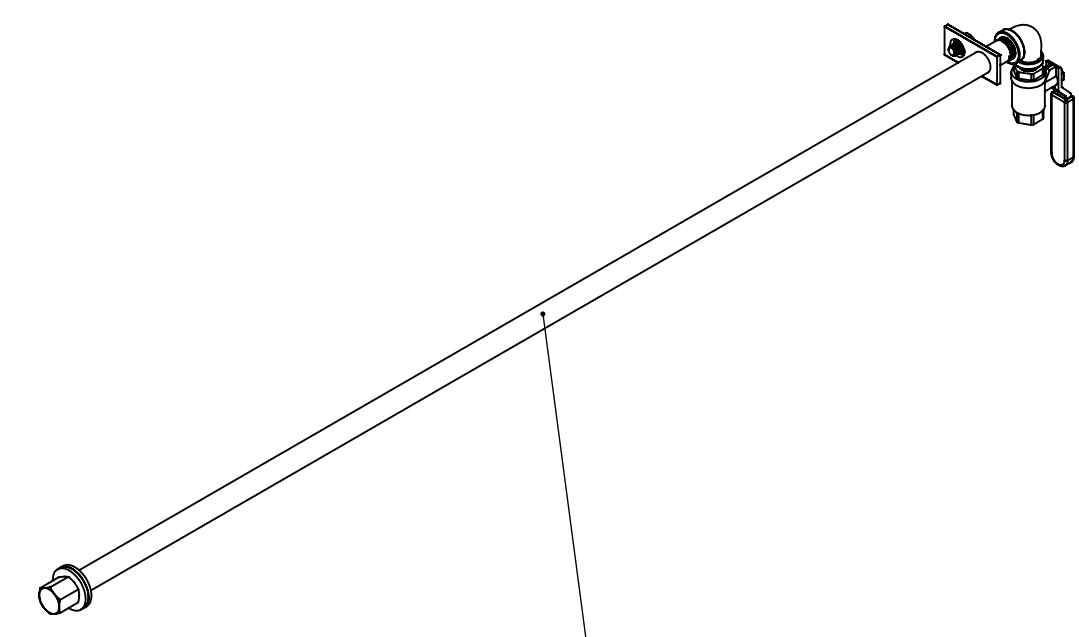
C & M TOPLINE
 5945 Daley Street
 Goleta CA 93117
 1 800 827-1333
 www.cmtoline.com

PART NO.	DB600D000
DESCRIPTION	Mr Deburr DB600 6.5 Cubic Foot
WEIGHT	750 lbs
SCALE: 1/4"	9/16" = 1'-0"

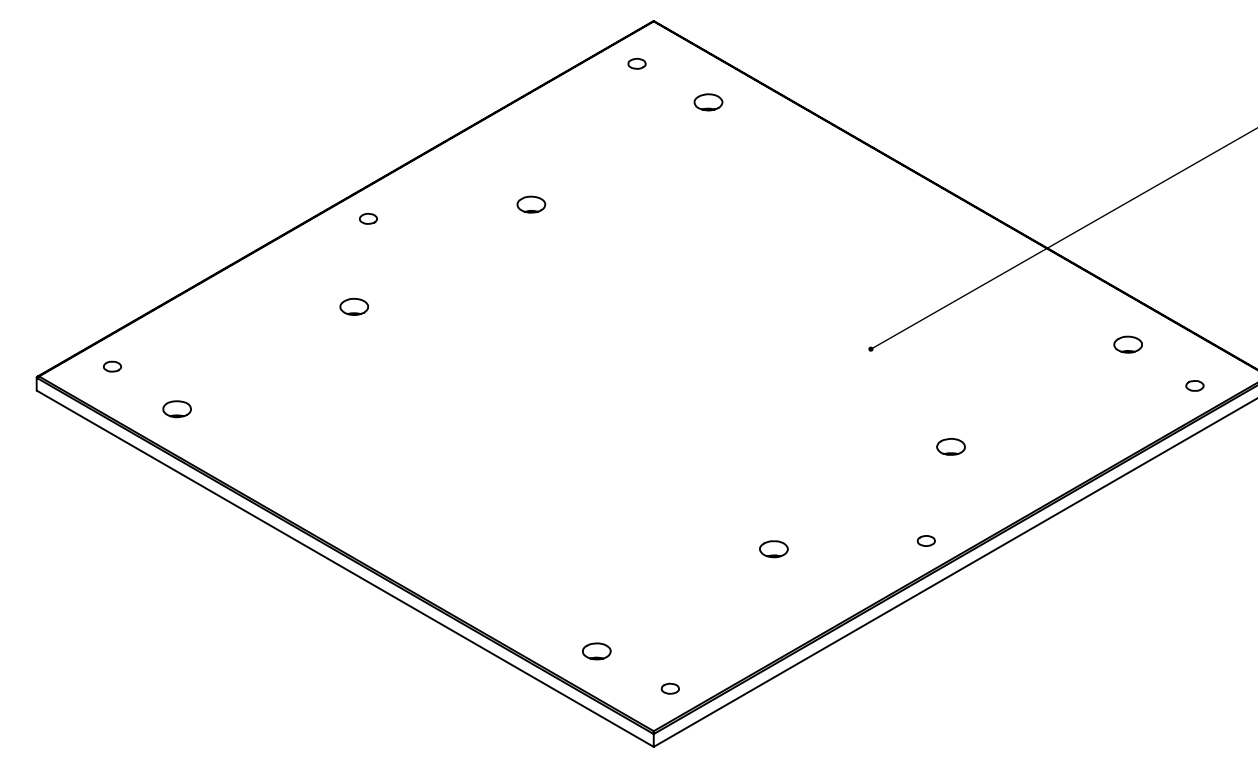
TUB ASSEMBLY 1X



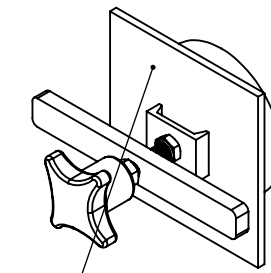
PIPE ASSEMBLY 1X



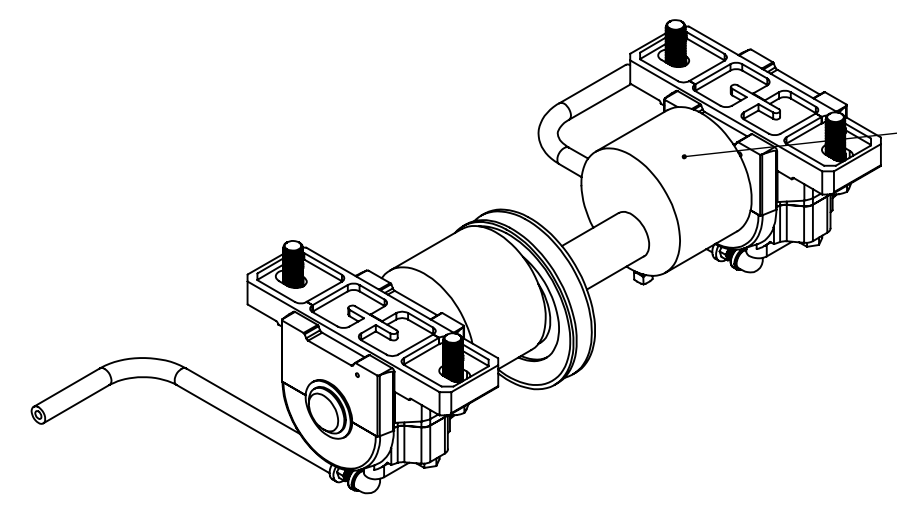
BASE PLATE ASSEMBLY 1X



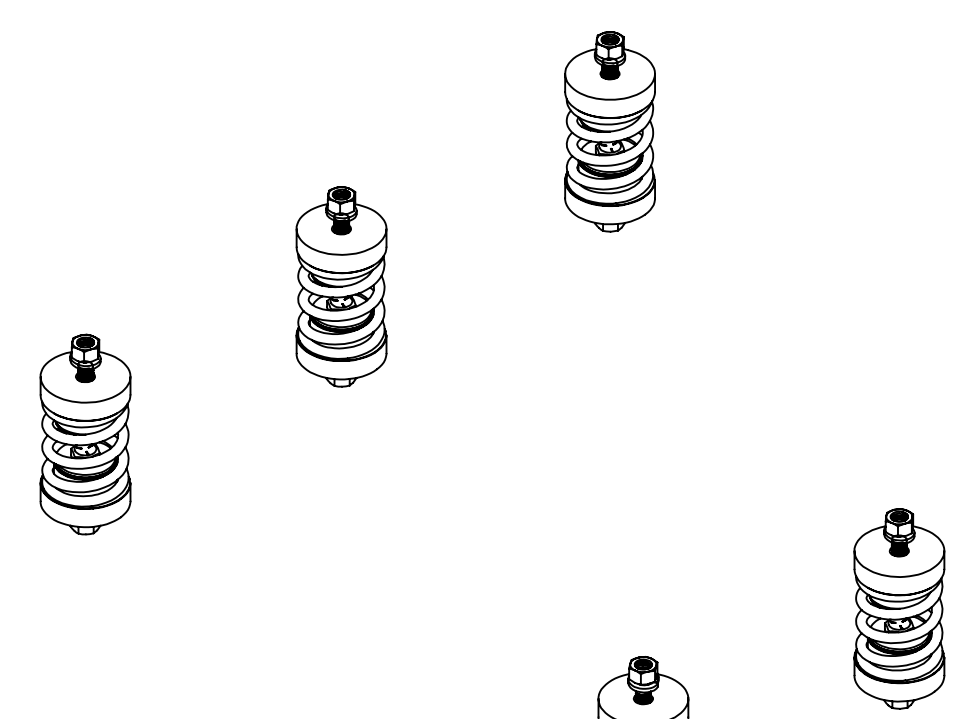
DOOR ASSEMBLY 1X



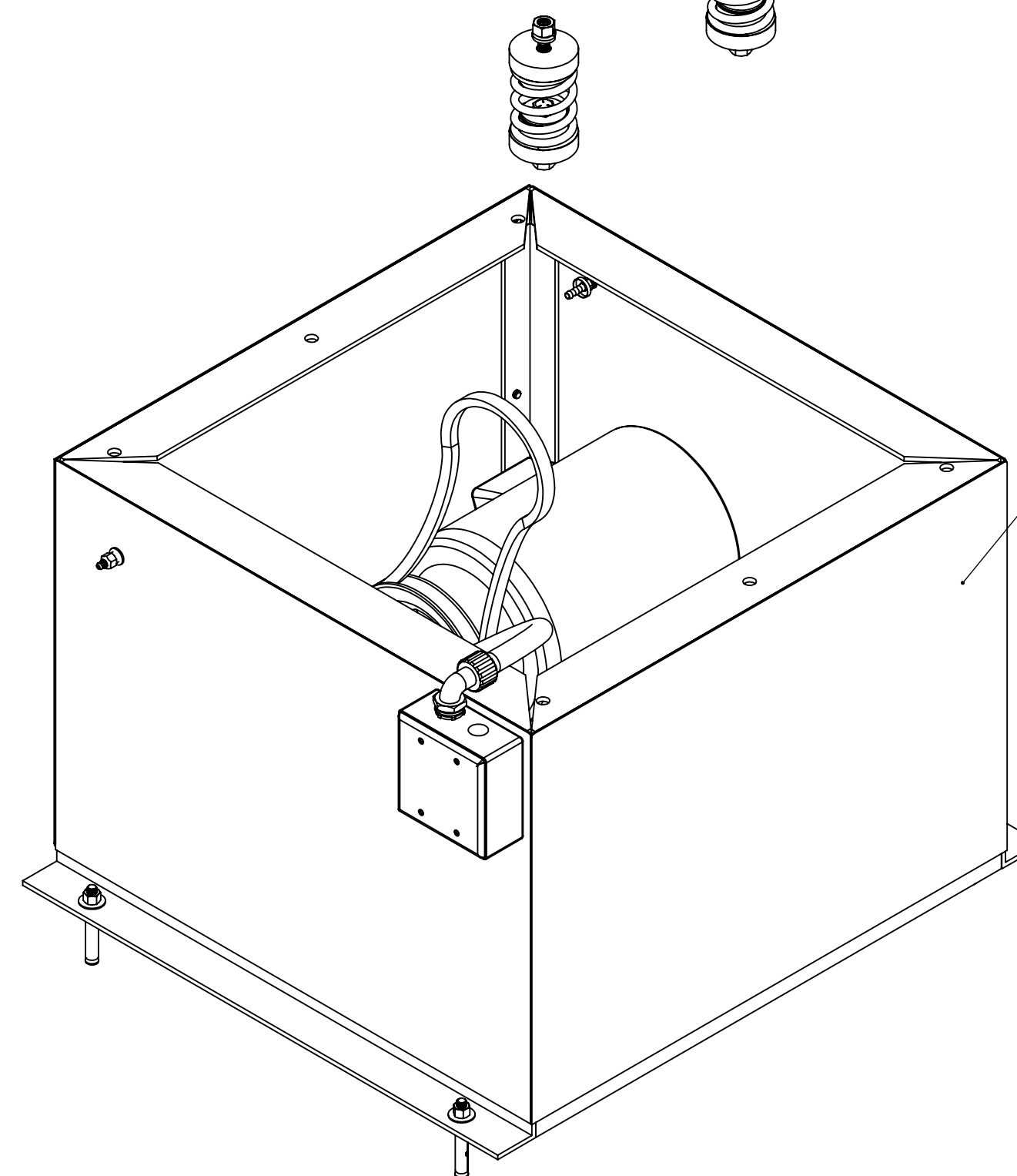
BEARING ASSEMBLY 1X



SPRING ASSEMBLY 6X

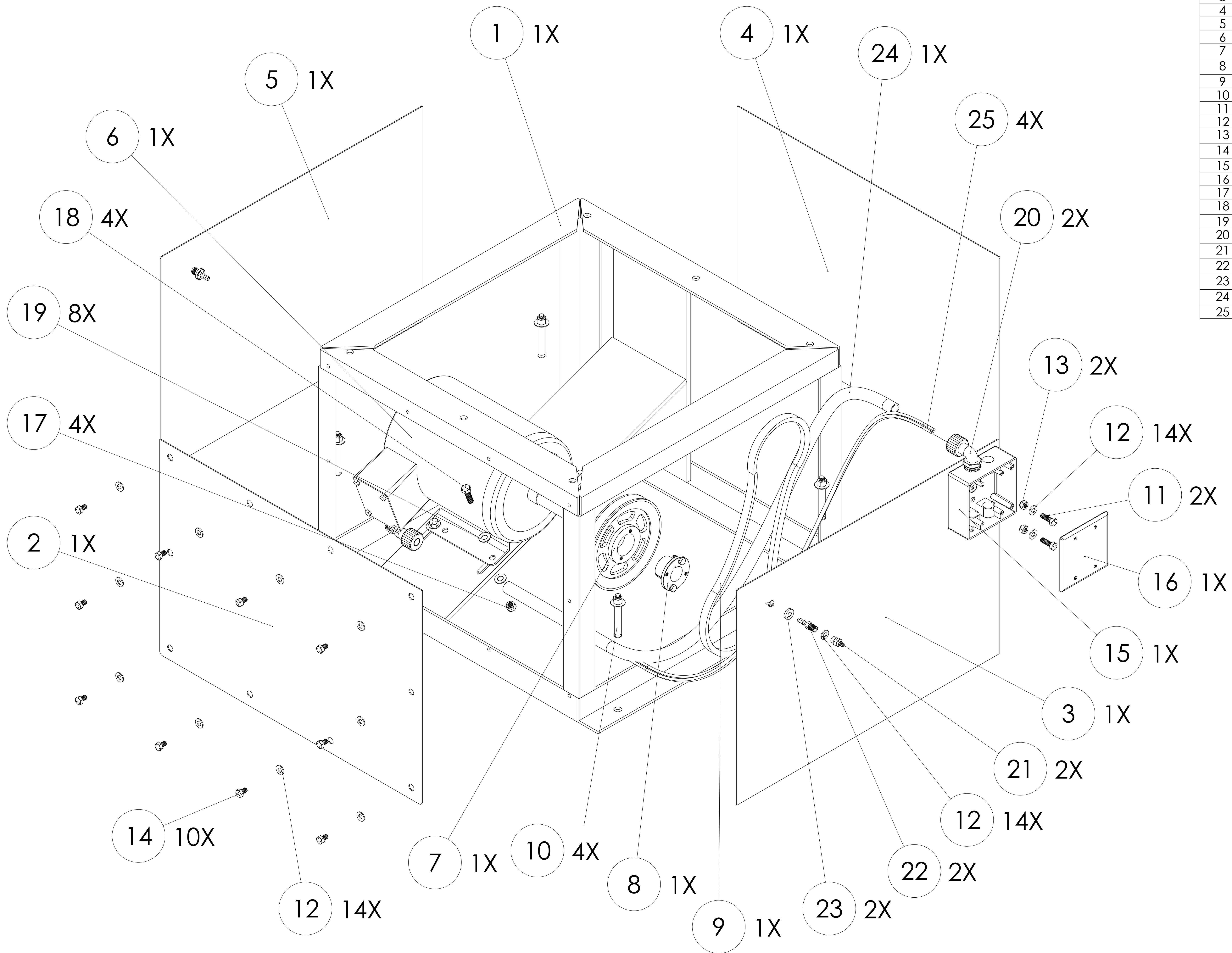


BASE ASSEMBLY 1X



C & M TOPLINE
5945 Daley Street
Goleta CA 93117
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www.cmtoline.com

PART NO.	DB600D000
DESCRIPTION	Mr Deburr DB600 6 Cubic Foot
SCALE	SHEET 2 OF 9



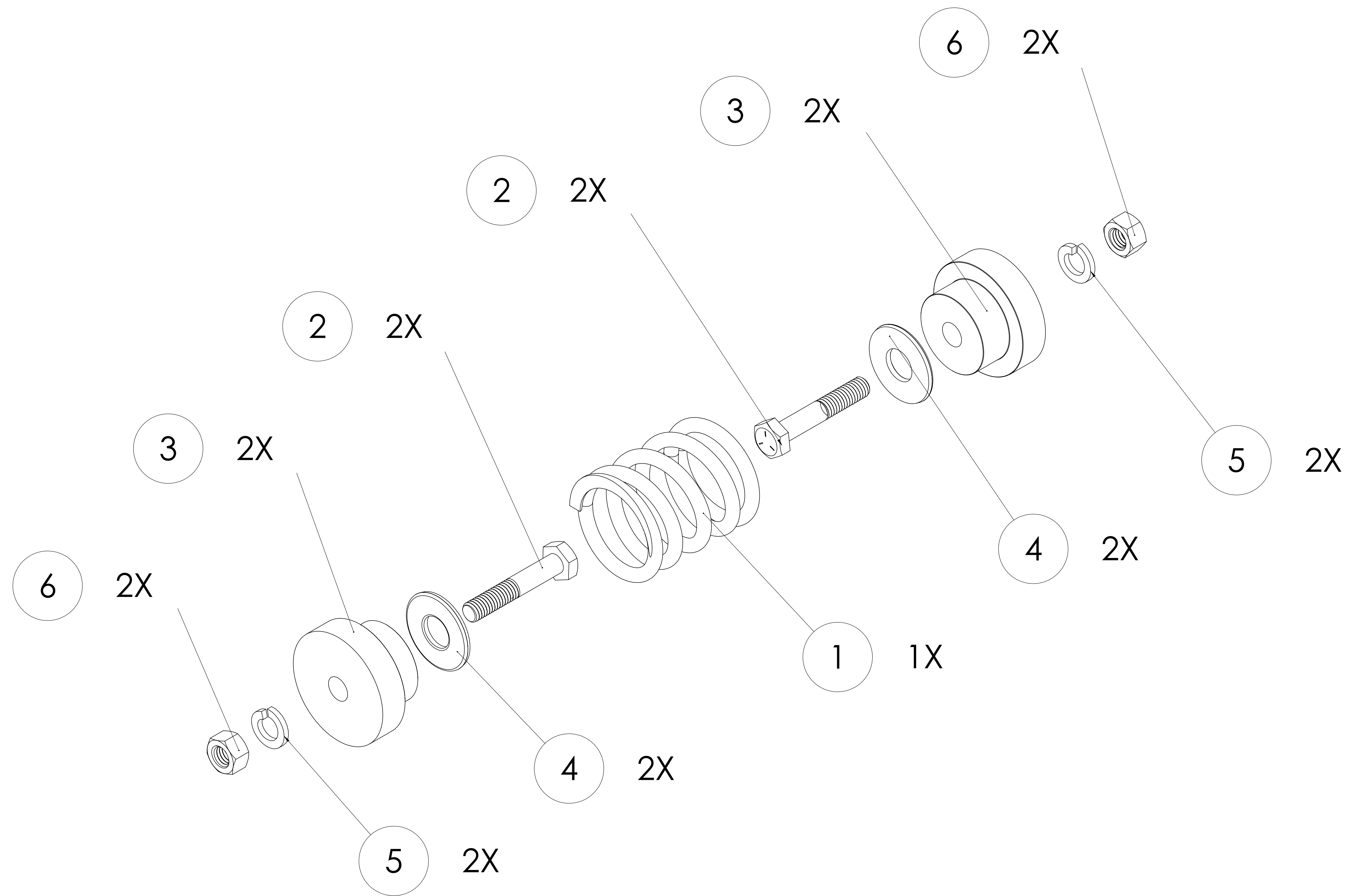
ITEM NO.	PART NAME	QTY.
1	Welded Base	1
2	Base Side Plate A DB600	1
3	Base Side Plate D DB600	1
4	Base Side Plate C DB600	1
5	Base Side Plate B DB600	1
6	Base Motor DB600 DB600	1
7	Motor Pulley DB600	1
8	Motor Bushing DB600	1
9	Base Motor Belt DB600	1
10	Base Stud Anchor 0.5 DB600	4
11	Hex Screw 5-16 18	2
12	Washer 0.69	14
13	Nylon Insert Locknut 5-16 18	2
14	Hex Screw Fully Threaded 5/16 18	10
15	Base Electrical Box DB600	1
16	Base Electrical Cover DB600	1
17	Base Motor Locknut 3-8 16 DB600	4
18	Base Motor Hex Screw Fully Threaded 3-8 16 DB600	4
19	Base Washer 0.81 DB600	8
20	Base 90 Degree Cord Elbow DB600	2
21	Grease Tubing End Cap	2
22	Grease Tubing Fitting	2
23	Grease Tubing Fitting Plastic Cap	2
24	Base Electrical Tubing DB600	1
25	Base Electrical Wires DB600	4



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PART NO.	DB600D300
DESCRIPTION	Mr Deburrr Base Assembly
SCALE	SHEET 1 OF 1

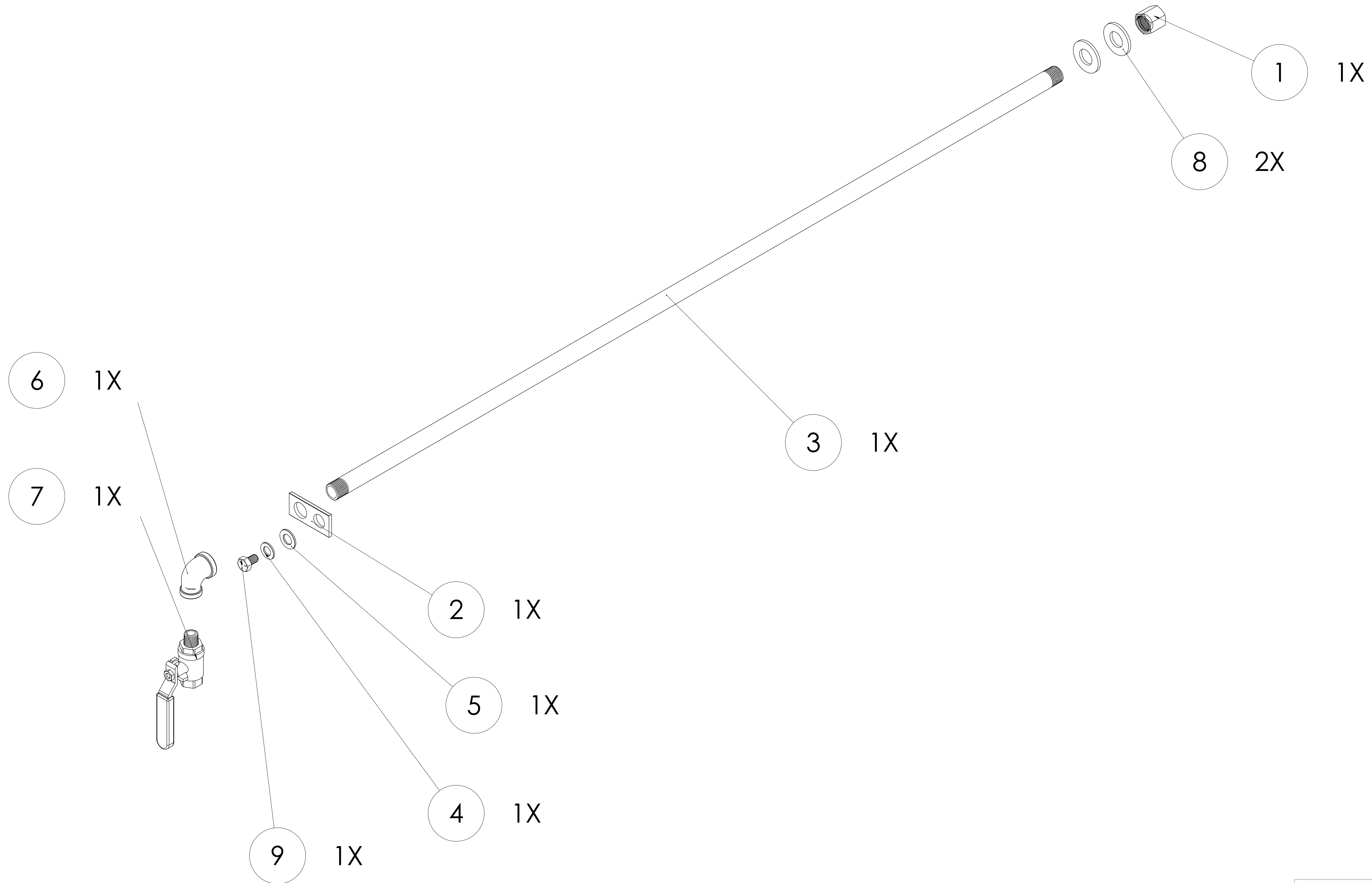
ITEM NO.	PART NAME	QTY.
1	Flat End Spring	1
2	Hex Screw Partially Threaded 7/16 13	2
3	Spring Plastic Holder	2
4	Spring Washer 1.75 OD	2
6	Hex Nut 1/2 13	2
5	Split Lock Washer	2



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PART NO.	DB300D800
DESCRIPTION	Mr Debur Spring Assembly
SCALE: 1:1	SHEET # OF 1

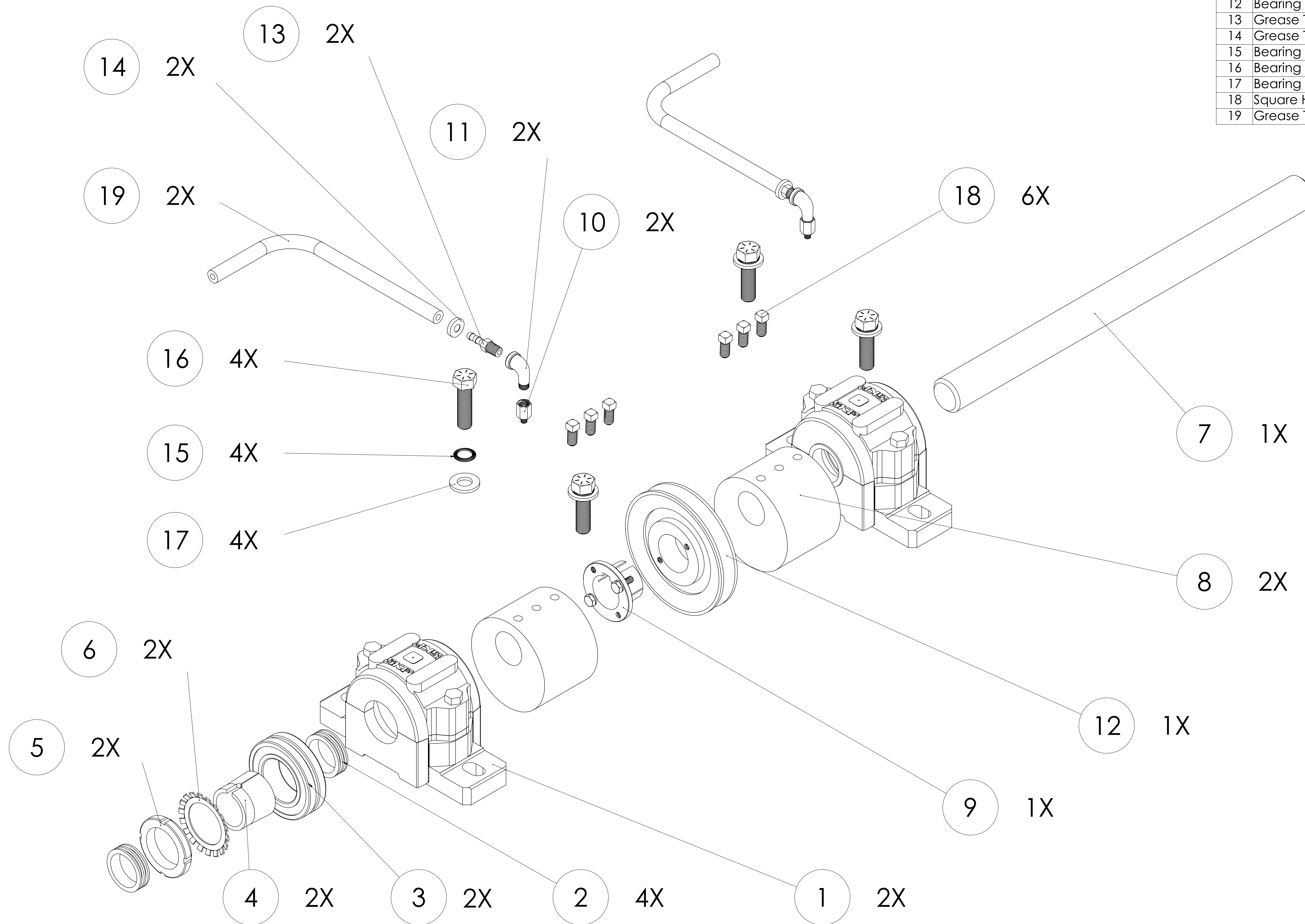
ITEM NO.	PART NAME	QTY.
1	Pipe End Cap DB600	1
2	Spray Pipe Mounting Plate DB600	1
3	Spray Pipe DB600	1
4	Pipe Washer 0.675 OD	1
5	Pipe Washer 0.81 OD	1
6	Pipe 90 Degree Reducing Fitting DB600	1
7	Spray Pipe Valve	1
8	Pipe Washer 1.335 OD DB600	2
9	Hex Screw Fully Threaded 5/16 18	1



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PART NO.	DB600D200
DESCRIPTION	Mr Debur Pipe Assembly
SCALE	SHEET 001

ITEM NO.	PART NAME	PART NO.	QTY.
1	SAF 509 DB600	DB600D901	2
2	LER 17 DB600	DB600D902	4
3	22209 EK DB600	DB600D903	2
4	Sleeve Adapter Part 1 (SNW 9x1.7-16)	DB600D904	2
5	Sleeve Adapter Part 2 (N 09)	DB600D905	2
6	Sleeve Adapter Part 3 (W 09)	DB600D906	2
7	Bearing Shaft 1-7/16 DB600	DB600D907	1
8	Bearing Mass DB600	DB600D908	2
9	Bearing Bushing DB600	DB600D909	1
10	Grease Tubing Adapter	DB300D910	2
11	Grease Tubing 90 degree Adapter	DB300D911	2
12	Bearing Pulley DB600	DB600D912	1
13	Grease Tubing Fitting	DB300D912	2
14	Grease Tubing Fitting Plastic Cap	DB300D913	2
15	Bearing Belleville Spring Lock Washer DB600	DB600D913	4
16	Bearing Hex Screw Fully Threaded 0.5625 18 DB600	DB600D914	4
17	Bearing Washer 1.16 OD DB600	DB600D915	4
18	Square Head Cup Point Set Screws 3/8 16	DB300D906	6
19	Grease Tubing	DB300D323	2

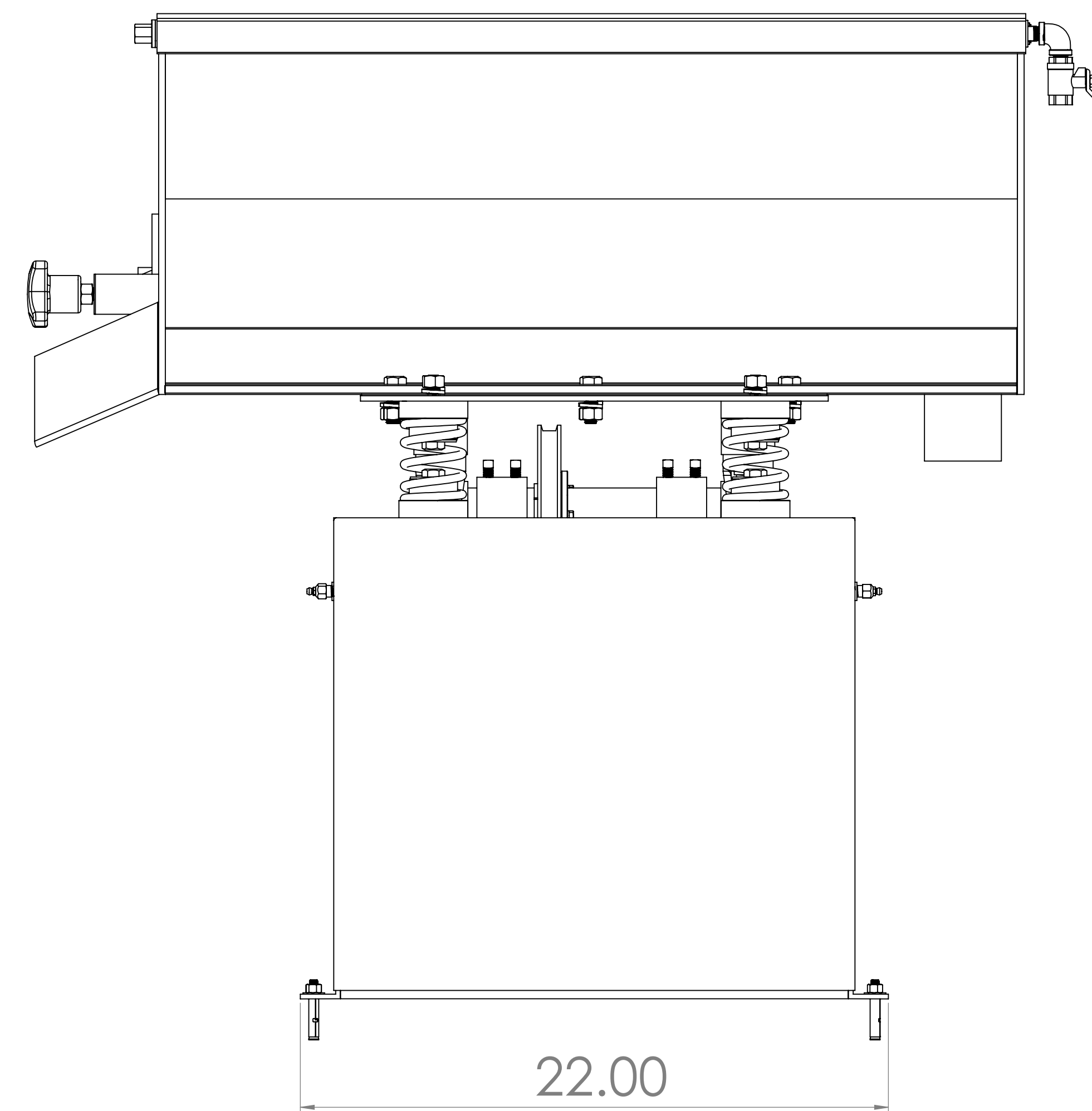
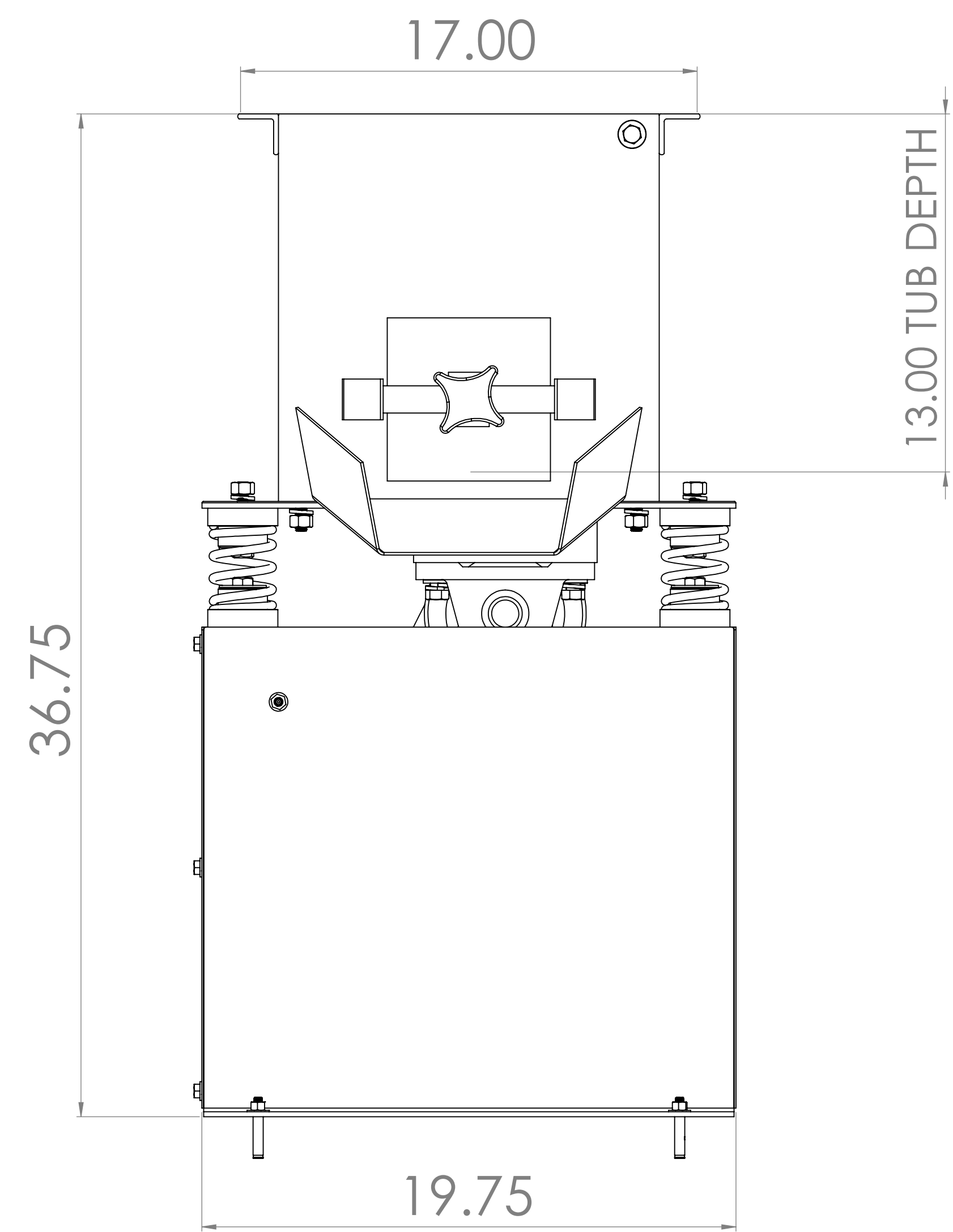
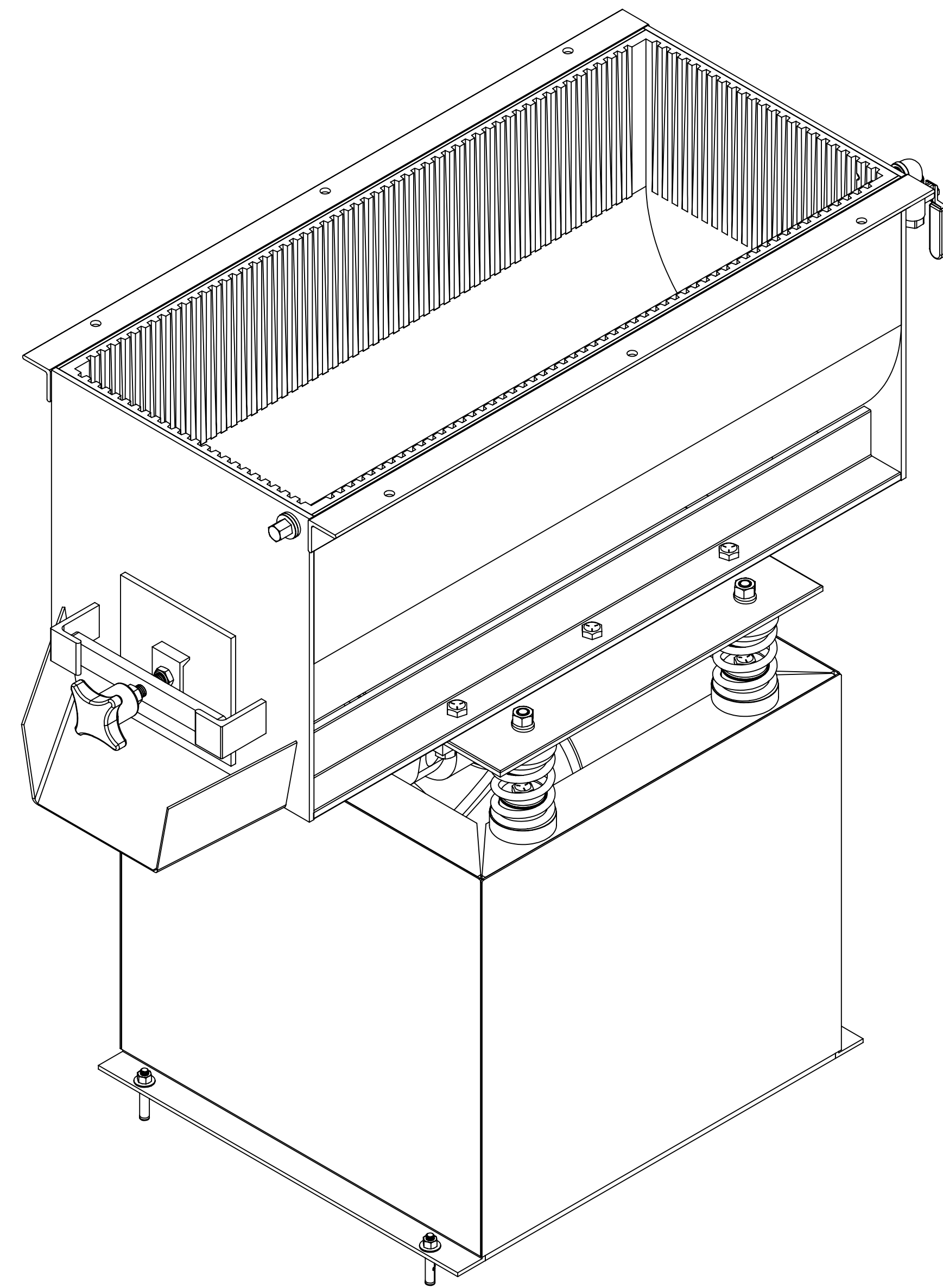
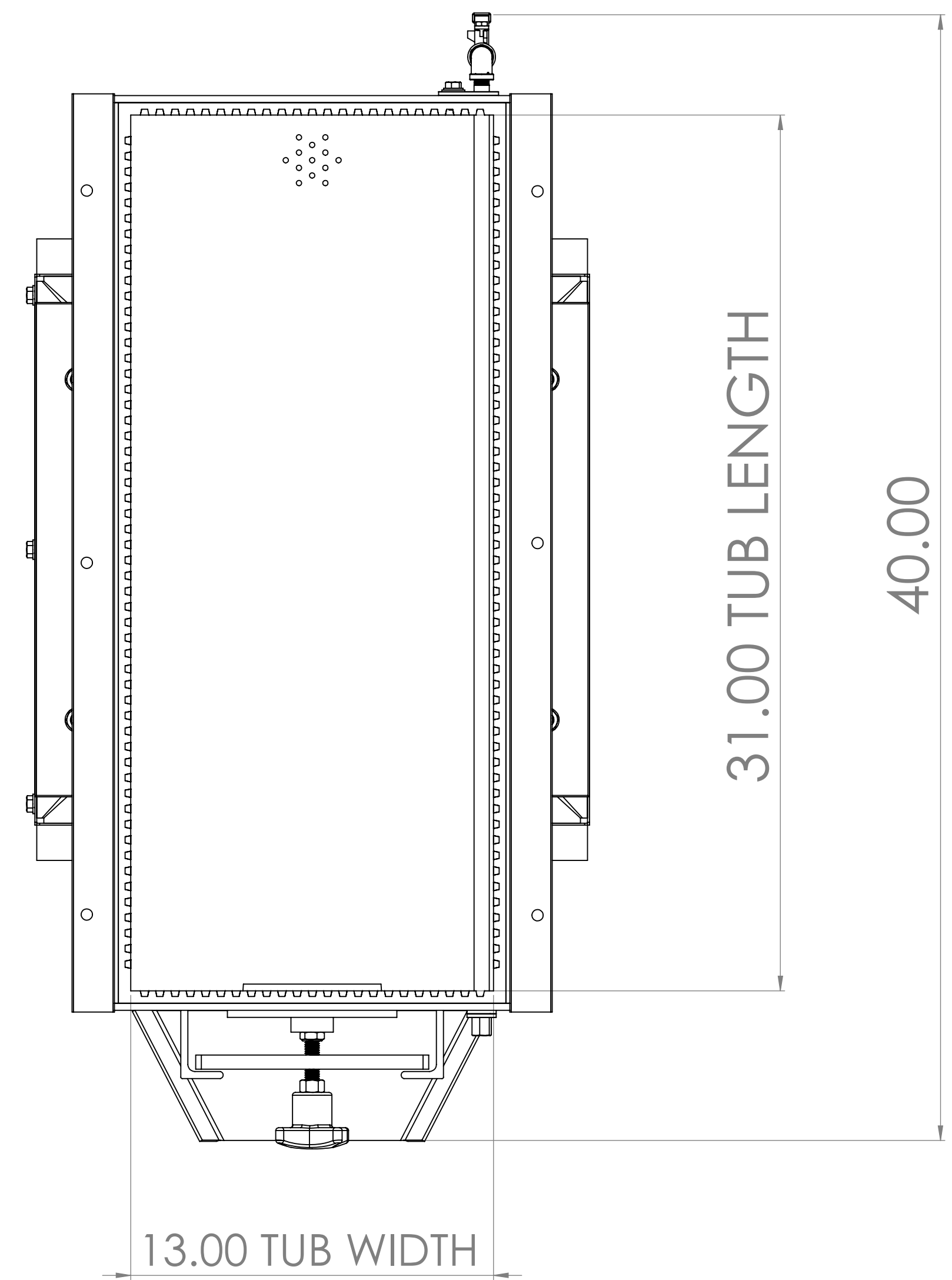


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PART NO.	DB600D900
DESCRIPTION	Mr Deburr Bearing Assembly
SCALE	SHEET 001

Mr Deburr DB300 Schematic

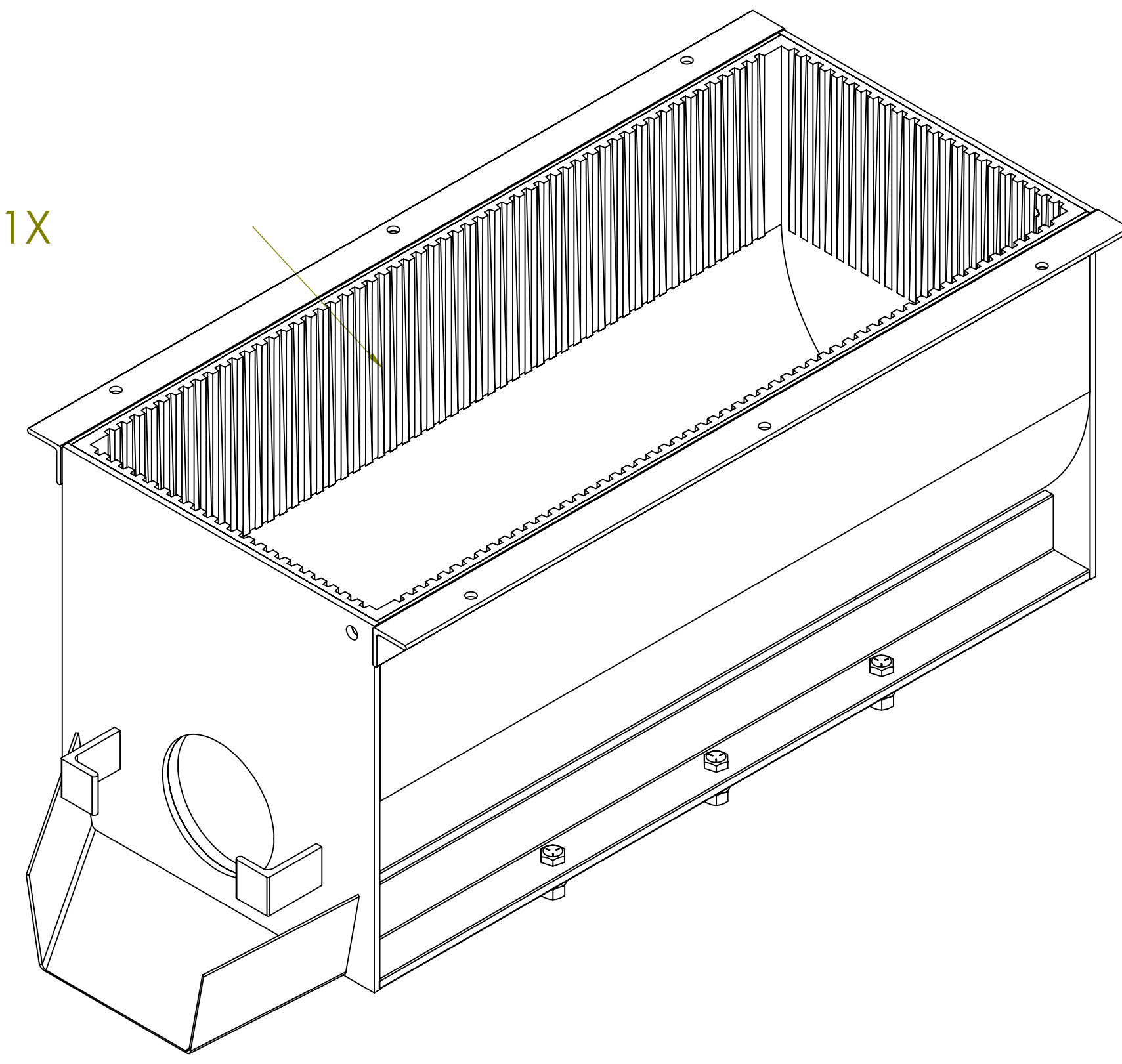




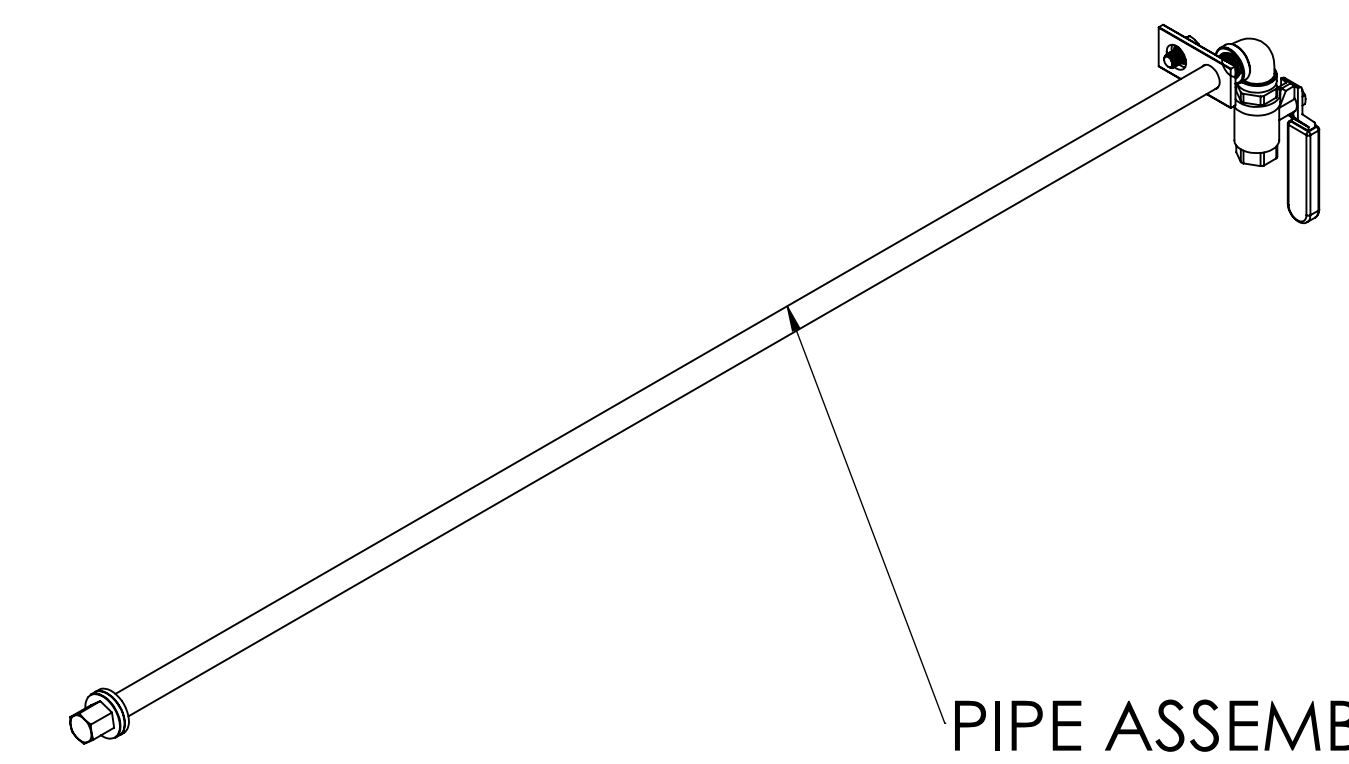
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PART NO.	DB300D000
DESCRIPTION	Mr Debur DB300 3 Cubic Foot
WEIGHT	400 lbs
SCALE: 1/4"	SHEET 1 OF 1

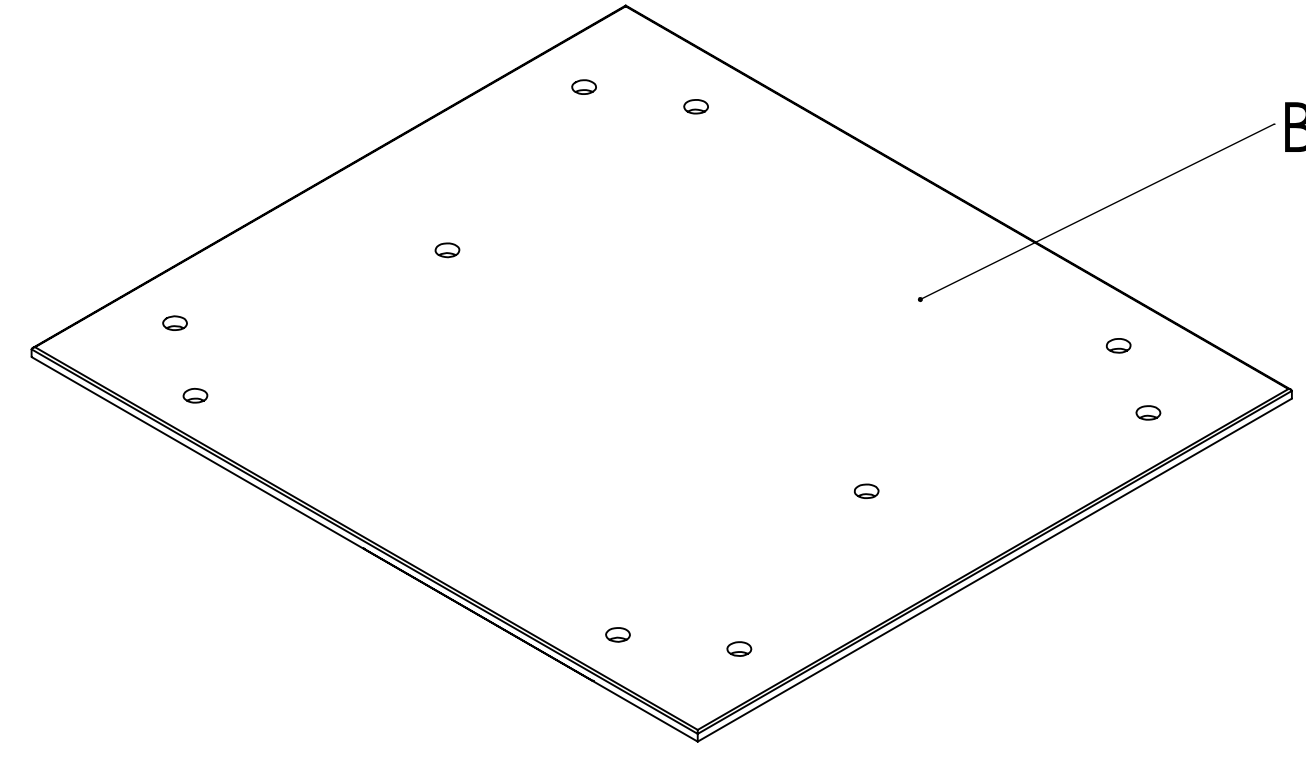
TUB ASSEMBLY 1X



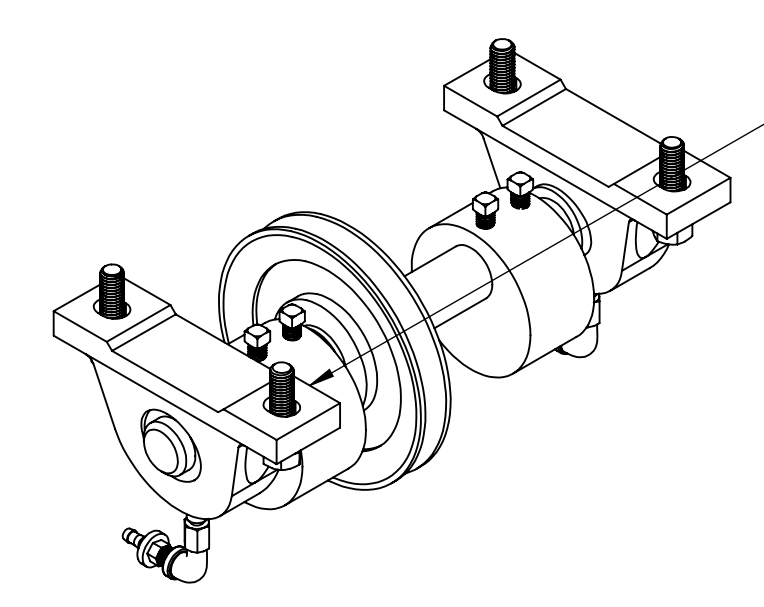
PIPE ASSEMBLY 1X



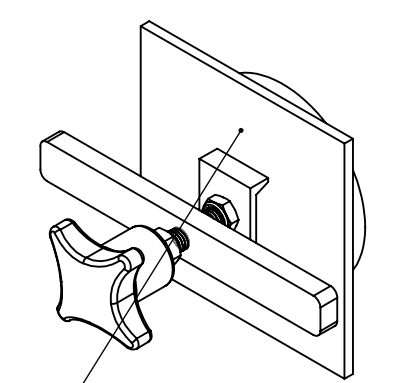
BASE PLATE ASSEMBLY 1X



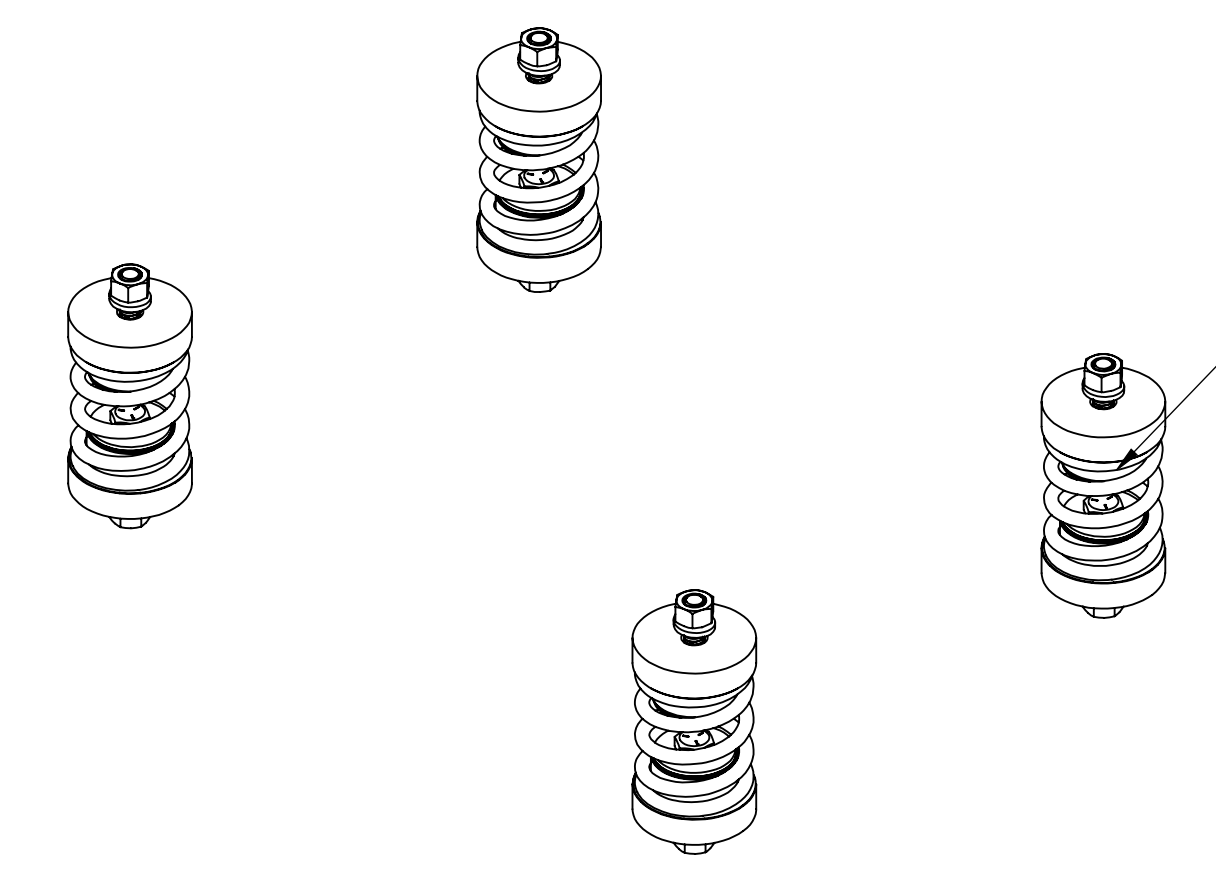
BEARING ASSEMBLY 1X



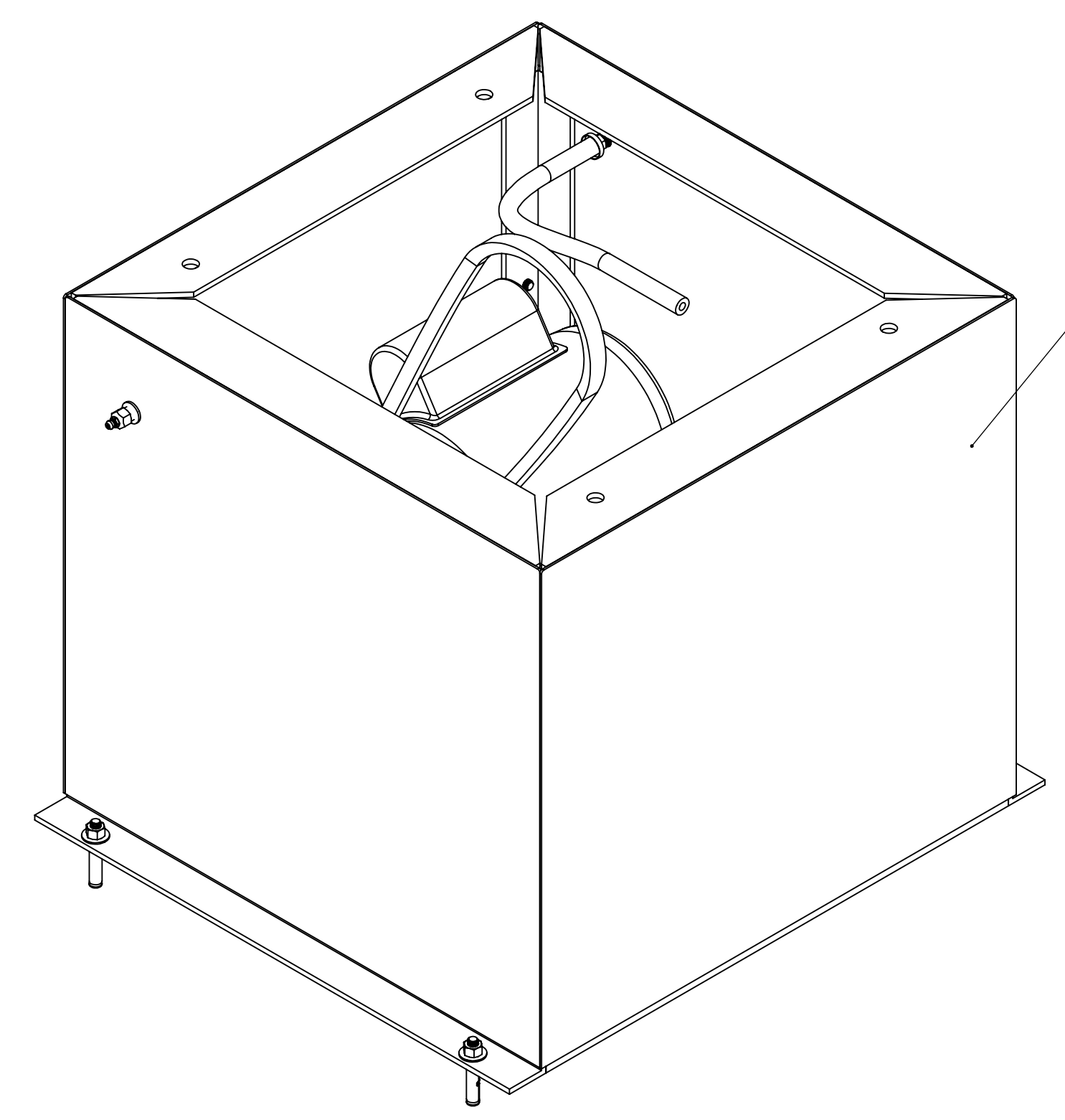
DOOR ASSEMBLY 1X



SPRING ASSEMBLY 4X



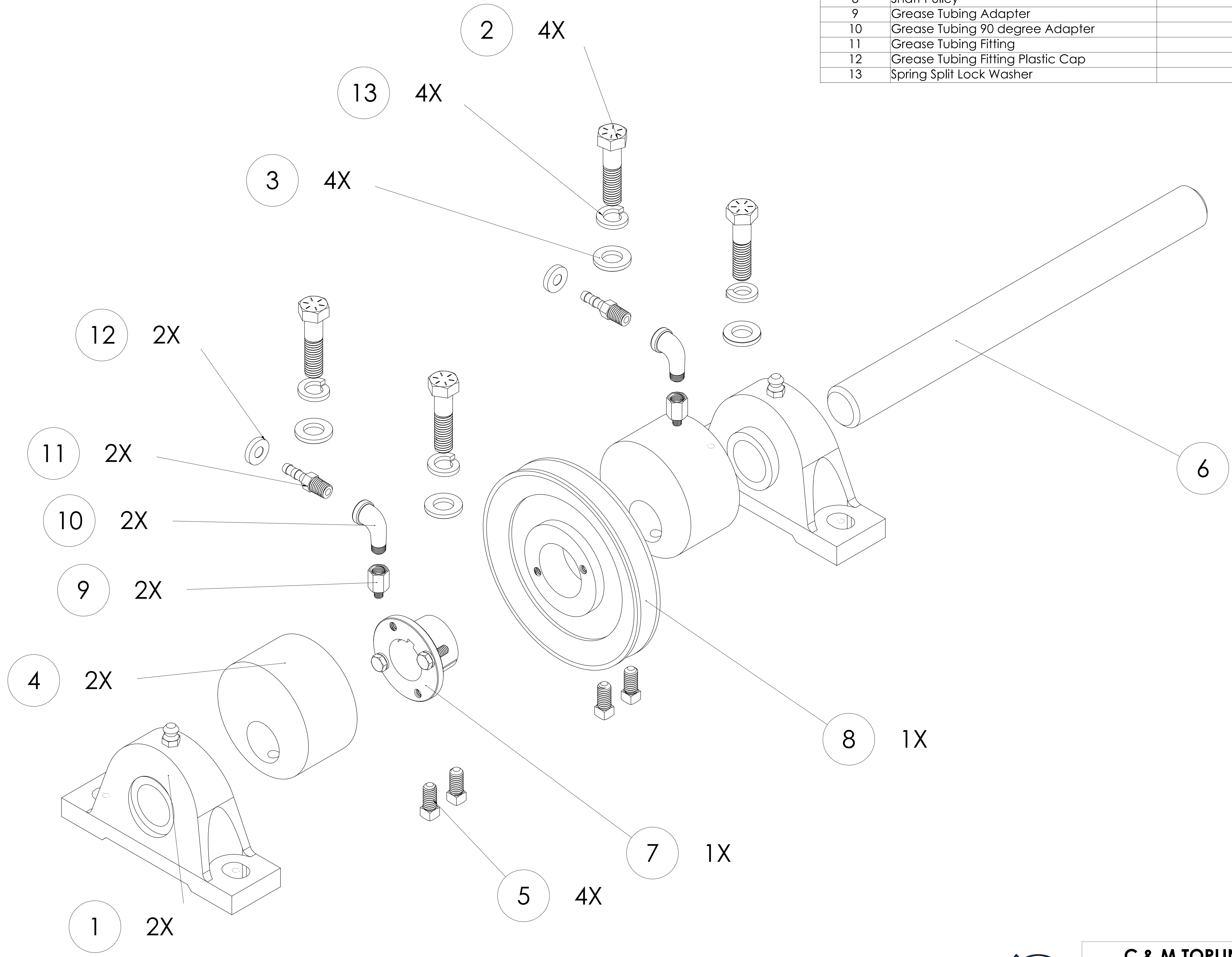
BASE ASSEMBLY 1X



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PART NO.	DB300D000
DESCRIPTION	Mr Deburr DB300 3 Cubic Foot
SCALE	SHEET 2 OF 9

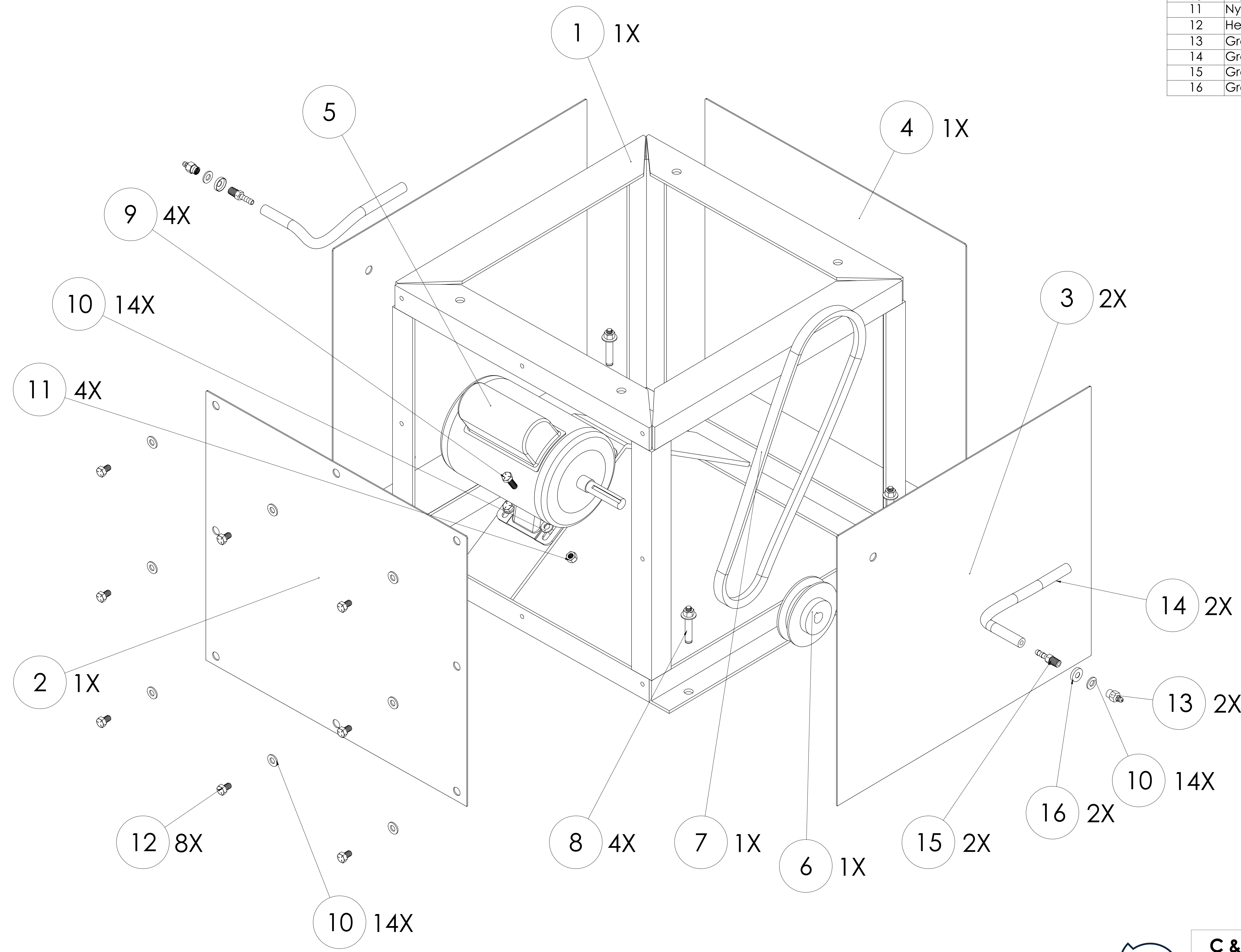
ITEM NO.	PART NAME	QTY.
1	Pillow Block Bearing	2
2	Hex Screw Partially Threaded 1/2 13	4
3	Washer 1.035 OD	4
4	Mass	2
5	Square Head Cup Point Set Screws 3/8 16	4
6	Bearing Shaft 1-1/4	1
7	Split Tapered Bushing	1
8	Shaft Pulley	1
9	Grease Tubing Adapter	2
10	Grease Tubing 90 degree Adapter	2
11	Grease Tubing Fitting	2
12	Grease Tubing Fitting Plastic Cap	2
13	Spring Split Lock Washer	4



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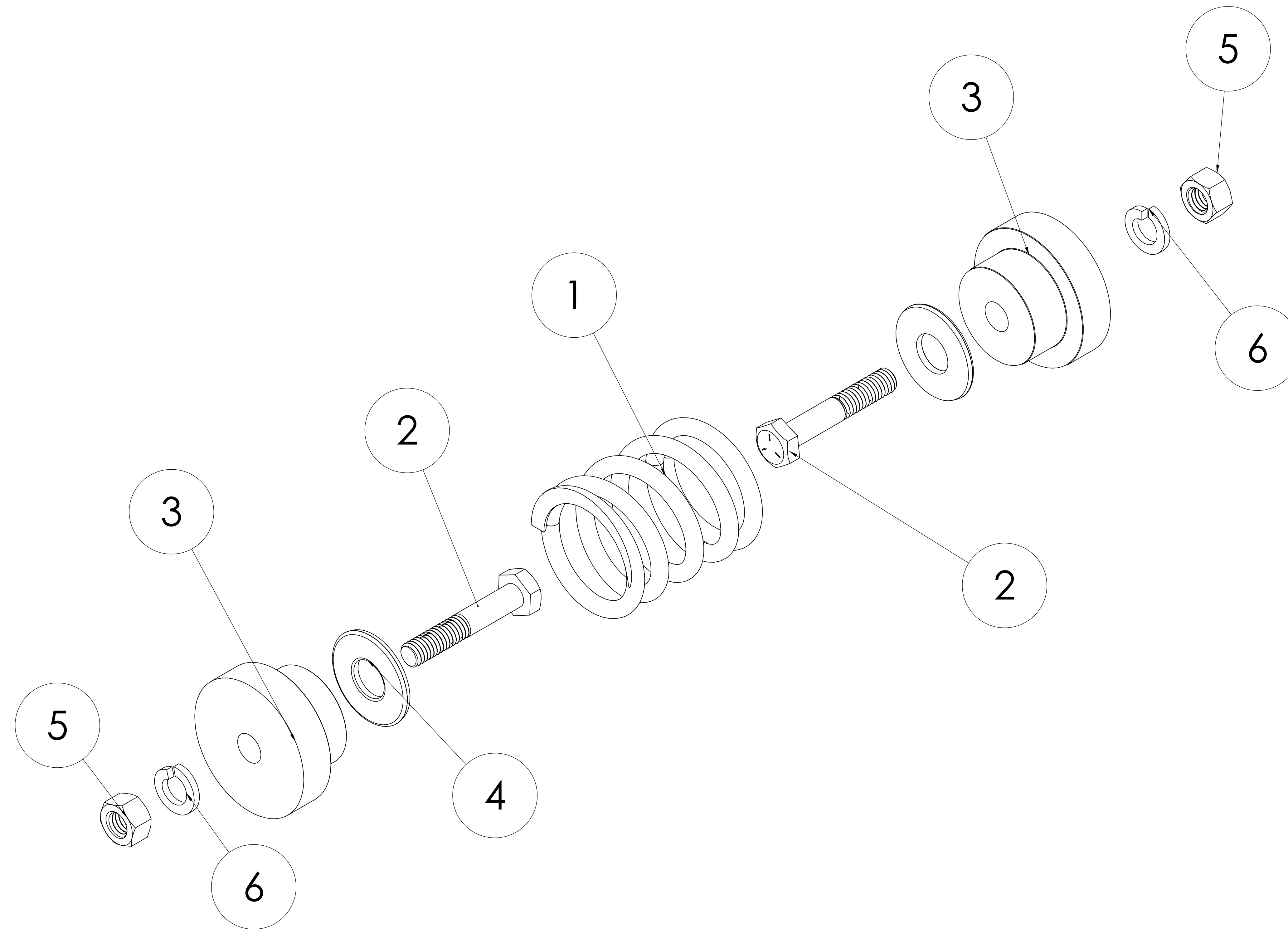
PART NO.	DB300D900
DESCRIPTION	Mr Deburr Bearing Assembly
SCALE	DRAWN BY

ITEM NO.	PART NUMBER	QTY.
1	Welded Base	1
2	Base Side Plate A	1
3	Base Side Plate B	2
4	Base Side Plate C	1
5	Motor 0.75 HP	1
6	Motor Pulley	1
7	Base Motor Belt	1
8	Stud Anchor for Concrete	4
9	Hex Screw 5-16 18	4
10	Washer 0.69	14
11	Nylon Insert Locknut 5-16 18	4
12	Hex Screw Fully Threaded 5/16 18	8
13	Grease Tubing End Cap	2
14	Grease Tubing	2
15	Grease Tubing Fitting	2
16	Grease Tubing Fitting Plastic Cap	2



C & M TOPLINE 5945 Daley Street Goleta CA 93117 1 800 827-1333 www.cmtopline.com	PART NO.	DB300D300
	DESCRIPTION	Mr Debur Base Assembly
SCALE	SHEET 1 OF 1	

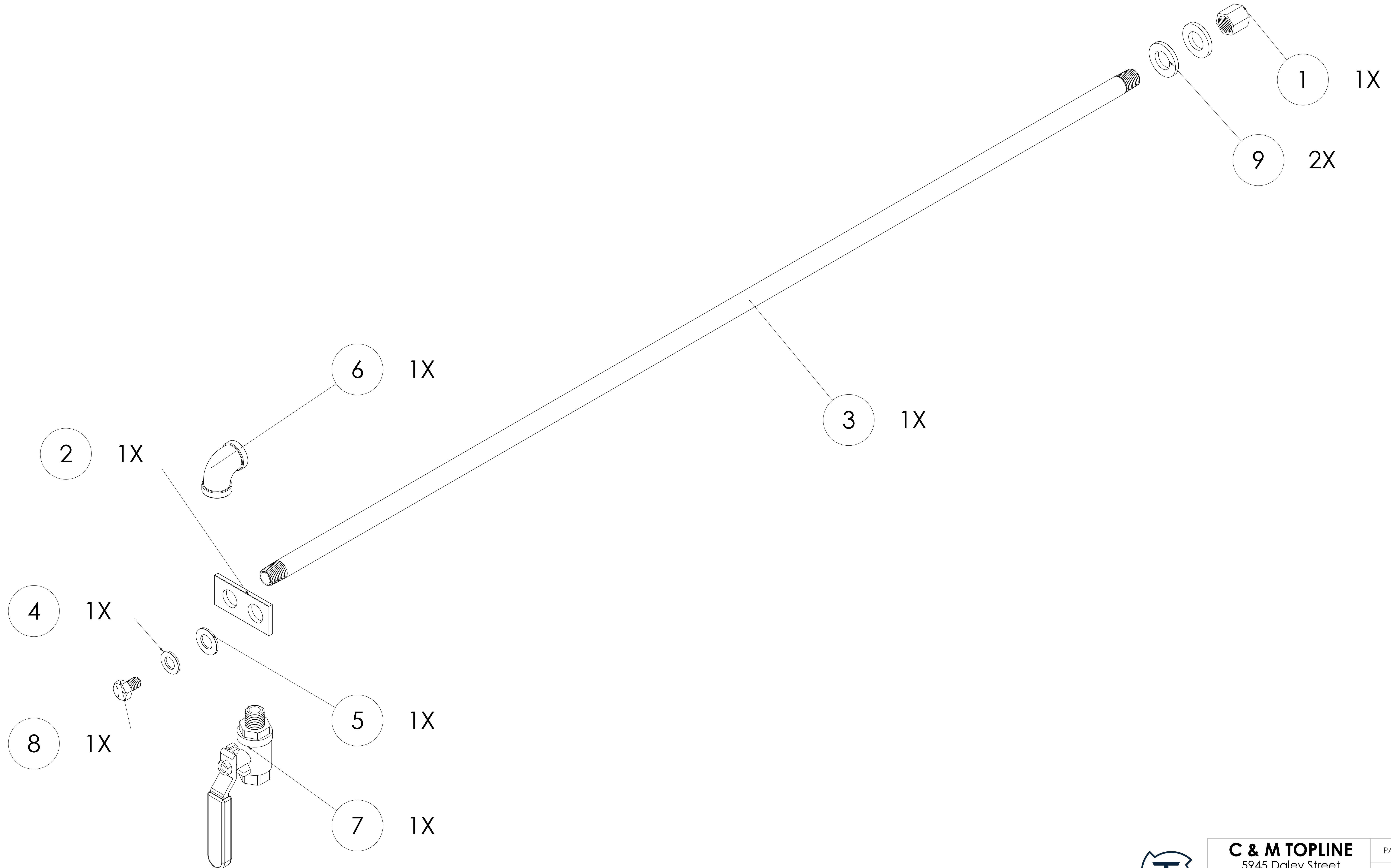
ITEM NO.	DESCRIPTION	QTY.
1	Flat End Spring	1
2	Hex Screw Partially Threaded 7/16 13	2
3	Spring Plastic Holder	2
4	Spring Washer 1.75 OD	2
5	Hex Nut 0.5 13	2
6	Spring Split Lock Washer	2



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PART NO.	DB300D800
DESCRIPTION	Mr Debur Spring Assembly
SCALE: 1:1	SHEET 8 OF 9

ITEM NO.	PART NAME	QTY.
1	Spray Pipe End Cap	1
2	Spray Pipe Mounting Plate	1
3	Spray Pipe	1
4	Pipe Washer .675 OD	1
5	Pipe Washer .81 OD	1
6	Spray Pipe 90 degree Galvanized Fitting	1
7	Spray Pipe Valve	1
8	Hex Screw Fully Threaded 5/16 18	1
9	Washer 1.035 OD	2



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PART NO.	DB300D200
DESCRIPTION	Mr Deburr Pipe Assembly
SCALE	SHEET 01 OF 1



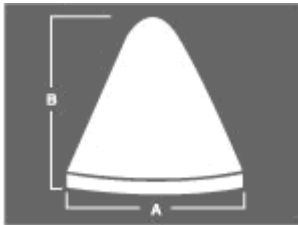
Plastic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Formulations	Formula Code	Color	Purpose	Media Wear	Surface Finish	Weight Per Cubic Foot
Preplate	V	Lt.Green	Preplate Finish	Exceptional	Very Smooth	65-70
General Purpose	X	Dark Green	General Metal Removal	Good	Smooth	65-70
Fast Cut	XV	Blue	Plating & Painting Finish	Good	Smooth	65-70
Fast Cut (Zircon)	Z1	Tan	Prepaint or Preplate Finish	Good	Smooth	90-95

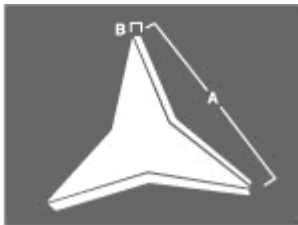
Cone



Formulations

Size Shape	V	X	XV	Z1
3/8 x 3/8	S	S	S	N
1/2 x 9/16	N	S	S	S
5/8 x 7/8	N	N	N	N
3/4 x 3/4	S	S	N	S
1 x 1	N	S	N	N
1 1/4 x 1 1/4	S	S	S	N
1 3/4 x 1 3/4	N	N	N	N
2 1/2 x 3	N	N	N	N

Tristar



Formulations

Size Shape	V	X	XV	Z1
1 3/4 x 3/4	N	S	S	N

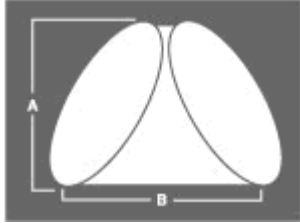


Plastic Media

S = Standard (no minimum order required)

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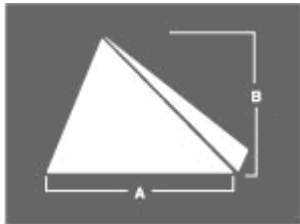
Cylinder Wedge



Formulations

Size Shape	V	X	XV	Z1
1/2 x 5/8	N	N	N	N
3/4 x 3/4	N	N	N	S
1 1/2 x 1 1/2	N	N	N	N

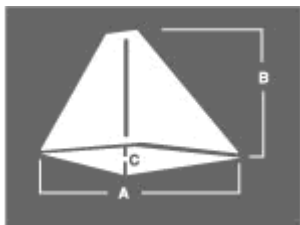
Tetrahedron



Formulations

Size Shape	V	X	XV	Z1
3/4 x 3/4 x 3/4	N	S	S	S
1 1/8 x 1 1/8	N	S	N	N
1 1/2 x 1 1/2	N	N	N	N

Pyramid



Formulations

Size Shape	V	X	XV	Z1
1/4 x 1/4 x 1/4	S	S	N	S
5/16 x 5/16	N	N	N	N
3/8 x 3/8	N	S	N	S
3/8 x 5/8	N	S	N	S
1 5/8 x 1 x 1	N	S	N	S
2 x 1 1/8	N	N	N	N
2 x 1 1/2 x 1	N	N	N	N
2 1/2 x 1 7/8	N	S	N	N

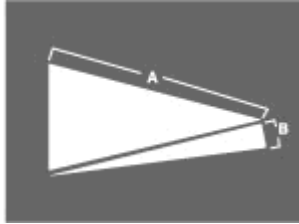


Plastic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

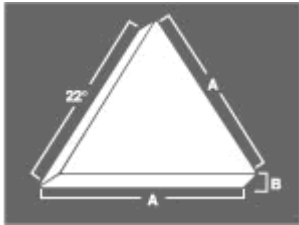
Wedge (Bowtie)



Formulations

Size Shape	V	X	XV	Z1
1 x 3/4	N	S	N	S
1 1/2 x 1	N	S	N	N
2 x 1 1/4	N	N	N	N
2 1/2 x 1 1/2	N	N	N	N

Triangle



Formulations

Size Shape	V	X	XV	Z1
5/8 x 3/8 x 1/2	N	S	N	N
1 1/4 x 5/8 x 7/8	N	S	N	N



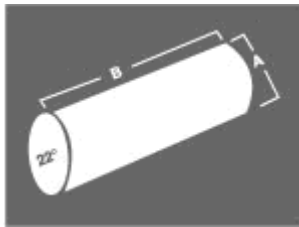
Ceramic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Ceramic Media Formulations	Formula Code	Color	Purpose	Media Wear	Surface Finish	Weight Per Cubic Foot
Polish	P	White	Polish	Excellent	Bright	85-90
Light Cut	LC	Gray	Lt. Deburr	Exceptional	Good	85-90
General Purpose	M	Gray	Gen. Deburr	Exceptional	Good	85-90
Fast Cutting	SF	Gray	Fast Deburr	Good	Good	85-90
Extra Fast Cutting	XF	Tan	Extra Fast Deburr	Moderate	Matte Fine	85-90
Dense Super Fast Cutting	DF	Brown	Dense Fast	Moderate	Matte	95-100
Silicon Carbide	SC	Gray	No Al Oxide	Good	Good	85-90
Ultra Aggressive	UFX	Blue Gray	Aggressive	Moderate	Matte	85-90

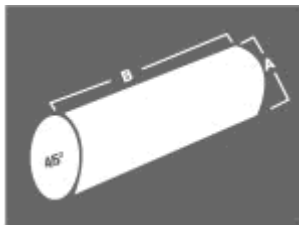
Angle Cut Cylinder 22°



Angle Cut Cylinder 22° Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
1/8 x 11/32	N	N	N	N	N	N	N	N			
5/32 x 5/16	N	N	N	N	N	N	N	N			
3/16 x 3/8	S	N	S	S	N	N	N	N			
1/4 x 5/8	N	N	S	S	N	N	N	N			
5/16 x 5/8	N	N	S	S	N	N	N	N	N	S	N
3/8 x 5/8	S	N	S	N	N	N	S	S	N	N	N
7/16 x 7/8	N	N	S	N	N	N	N	N	S	N	N
1/2 x 7/8	N	N	S	N	N	N	N	N	N	N	N
5/8 x 1 1/8	N	N	S	S	N	N	N	N	N	N	N
5/8 x 1 1/2	N	N	S	N	N	N	N	N	S	N	N
7/8 x 1 1/2	N	N	S	N	N	N	N	N			
7/8 x 1 3/4	N	N	S	N	N	N	N	N	S	N	N

Angle Cut Cylinder 45° & 60°



Angle Cut Cylinder 45° & 60° Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
3/8 x 5/8 (45°)	N	N	S	N	N	N	N	N	N	N	N
5/8 x 1 1/8 (45°)	N	N	S	N	N	N	N	N	N	N	N
1/4 x 9/16 (60°)	N	N	N	N	N	N	N	N			



Ceramic Media

S = Standard (no minimum order required)
 N = Non Standard (1,000 min. order for non-stock)

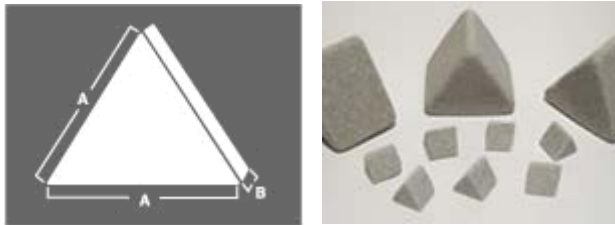
Angle Cut Triangle 22°



22° Cut Triangle Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
1/4 x 3/16	N	N	N	S	N	N	N	N			
1/4 x 1/4	N	N	S	N	N	N	N	N			
3/8 x 1/4	N	N	S	S	N	N	N	N	N	N	S
3/8 x 3/8	N	N	S	S	N	S	N	N	N	N	S
5/8 x 3/8	N	N	S	N	N	N	N	N			
5/8 x 5/8	N	N	S	S	N	S	N	N	S	S	S
7/8 x 5/16	N	N	N	N	N	N	N	N	N	N	N
7/8 x 3/8	N	N	S	S	S	N	N	N	S	N	N
7/8 x 7/8	N	N	S	S	S	S	S	N	N	N	S
1-1/8 x 3/8	N	N	S	S	N	N	N	N	N	N	N
1-1/8 x 5/8	N	N	N	N	N	N	N	N			
1-1/8 x 7/8	N	N	S	N	N	N	N	N	N	N	N
1-1/8 x 1-1/8	N	N	S	N	N	S	N	N	N	N	N
1-3/8 x 1/2	N	N	S	N	N	N	N	N	S	N	N
1-3/8 x 5/8	N	N	N	N	N	N	N	N			
1-1/2 x 1/2	N	N	N	N	N	N	N	N			
1-1/2 x 1-1/2	N	N	N	N	N	N	N	N			
1-7/8 x 5/8	N	N	S	N	N	N	N	N	S	N	S
1-7/8 x 7/8	N	N	N	N	N	N	N	N			
2 x 5/8									N	N	N
2 x 7/8	N	N	N	N	N	N	N	N	N	N	N

Straight Cut Triangle



Straight Cut Triangle Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
1/4 x 1/4	N	N	N	N	N	N	N	N			
7/8 x 5/8	N	N	N	N	N	N	N	N			



Ceramic Media

S = Standard (no minimum order required)
 N = Non Standard (1,000 min. order for non-stock)

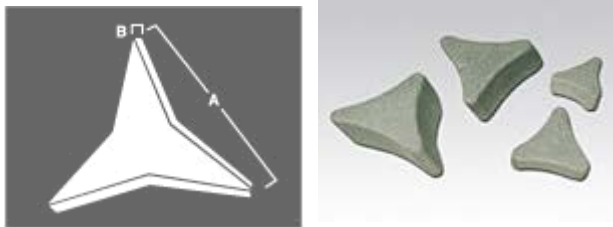
Angle Cut Ellipse



Angle Cut Ellipse Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
3/8 x 5/8 x 5/8	N	N	N	N	N	N	N	N	N	N	N
3/4 x 9/16 x 7/8									N	N	N
5/8 x 1 1/8 x 7/8	N	N	N	N	N	N	N	N			
1/4 x 9/16 x 1	N	N	N	N	N	N	N	N			

Angle Cut Tristar



Angle Cut Tristar Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
5/8 x 1/4	N	N	S	S	N	N	N	N	N	N	S
7/8 x 5/16	N	N	S	S	N	N	N	N			
7/8 x 3/8	N	N	S	S	N	N	N	N	N	N	S
1 1/8 x 3/8	N	N	S	S	N	N	N	N	N	N	N
1 1/8 x 5/8	N	N	N	N	N	N	N	N			
1 3/8 x 1/2	N	N	N	N	N	N	N	N			
1 7/8 x 5/8	N	N	S	N	N	N	N	N			

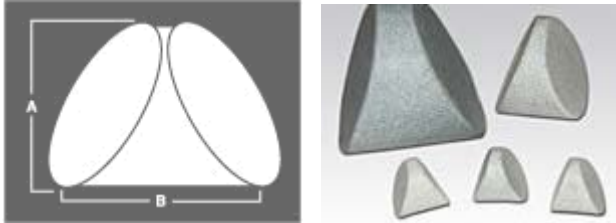


Ceramic Media

S = Standard (no minimum order required)

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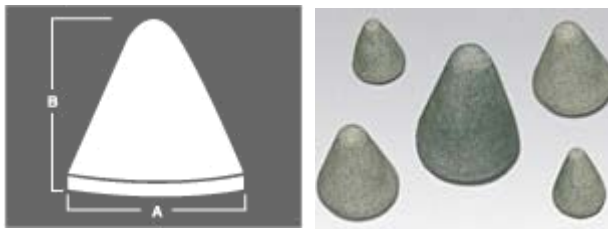
Cylindrical Wedge



Cylindrical Wedge Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
7/16 x 7/16	N	N	N	N	N	N	N	N			
3/8 x 3/8									N	N	N
5/8 x 5/8	N	N	S	S	N	N	N	N	N	N	N
3/4 x 3/4	N	N	S	S	N	S	N	N	N	N	S
7/8 x 7/8									N	N	N
1 x 1	N	N	S	S	N	N	S	N	S	N	N
1 1/8 x 1 1/8	N	N	S	S	N	N	N	N	N	N	N
1 1/4 x 1 1/4									N	N	N
1 1/2 x 1 1/2									S	N	N
2 x 2	N	N	N	N	N	N	N	N	N	N	N

Cones



Cones Formulations

Size Shape	P	LC	M	SF	XF	UFX	DF	SC	2	3	4
3/4 x 7/8	N	N	S	S	N	N	N	N			
1 x 1 1/4	N	N	S	N	N	N	N	N			
1 3/16 x 1 3/16	N	N	S	N	N	N	N	N			



Precision Ceramic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Formulations	Formula Code	Color	Purpose	Media Wear	Surface Finish	Weight Per Cubic Foot
Polish	P	White	Polish Light Deburr	Excellent	Bright	115-120
Fast Cut	FC	Gray	Fast Cut	Good	Good	100-110

Polishing Pins (White)



Formulations

Diameter x Length	P
1.3 x 3 mm	S
1.7 x 5.2 mm	S
2.5 x 8 mm	S
3 x 10 mm	S
4.5 x 14 mm	S
7 x 23 mm	S

Polishing Spheres (White)



Formulations

Diameter x Length	P
2 mm	S
3 mm	S
4 mm	S
5 mm	S
6 mm	S
8 mm	S
10 mm	S
12 mm	S

Polishing Triangle



Formulations

Diameter x Length	P
2 x 2mm	S
3 x 3mm	S
4 x 4mm	S
6 x 6 mm	S



Precision Ceramic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Fast Cutting Pins (Gray)



Formulations

Diameter x Length	P
1.5 x 5 mm	S
2.5 x 8 mm	S
3 x 6 mm	S

Fast Cut Spheres (Gray)



Formulations

Diameter x Length	P
2 mm	S
4 mm	S
5 mm	S
6 mm	S
9 mm	S

Fast Cut Triangles (Gray)



Formulations

Diameter x Length	P
2 x 2 mm	S
3 x 2.5 mm	S
3 x 3 mm	S
3 x 6 mm	S
4 x 4 mm	S
4 x 8 mm	S



Ceramic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Formulations	Formula Code	Color	Purpose	Media Wear	Surface Finish	Weight Per Cubic Foot
Polish	P	White	Polish Light Deburr	Excellent	Bright	115-120
Fast Cut	FC	Gray	Fast Cut	Good	Good	100-110

Polishing Pins (White)



Formulations

Diameter x Length	P
1.3 x 3 mm	S
1.7 x 5.2 mm	S
2.5 x 8 mm	S
3 x 10 mm	S
4.5 x 14 mm	S
7 x 23 mm	S

Polishing Spheres (White)



Formulations

Diameter x Length	P
2 mm	S
3 mm	S
4 mm	S
5 mm	S
6 mm	S
8 mm	S
10 mm	S
12 mm	S

Polishing Triangle



Formulations

Diameter x Length	P
2 x 2mm	S
3 x 3mm	S
4 x 4mm	S
6 x 6 mm	S



Ceramic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

Fast Cutting Pins (Gray)



Formulations

Diameter x Length	P
1.5 x 5 mm	S
2.5 x 8 mm	S
3 x 6 mm	S

Fast Cut Spheres (Gray)



Formulations

Diameter x Length	P
2 mm	S
4 mm	S
5 mm	S
6 mm	S
9 mm	S

Fast Cut Triangles (Gray)



Formulations

Diameter x Length	P
2 x 2 mm	S
3 x 2.5 mm	S
3 x 3 mm	S
3 x 6 mm	S
4 x 4 mm	S
4 x 8 mm	S



Synthetic Media

S = Standard (no minimum order required)

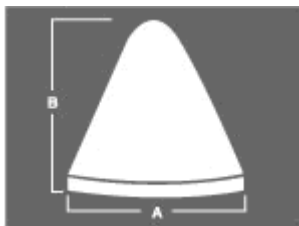
N = Non Standard (1,000 min. order for non-stock)

Benefits of Synthetic Media

- Eliminates foaming as well as the residue plaguing polyester media formulations.
- 20% to 45% lower Bulk Density than Polyester and Ceramic Media offering a Greater Volume per pound and yielding a lower working cost
- Lesser weight Per Cubic Ft. Synthetic will reduce surface hammering and impingement:
- Synthetic 55/lbs Cu. Ft., Polyester 65/lbs. Cu. Ft., Ceramic 85/lbs. Cu Ft.
- Offers extremely Fine Finishes. (Ideal for medical, Dental, Aerospace etc.....)
- The effluent from our Synthetic Media separates quickly and clearly in a matter of hours compared to days for Polyester Media.
- Our Synthetic Media is water based making it the most cost effective and easily treated material for removal in waste water systems.
- Quick settling of solids makes closed-loop waste water systems practical, affordable offering a considerable water cost saving for continual use.

Formulations	Formula Code	Color	Purpose	Media Wear	Surface Finish	Weight Per Cubic Foot
Polish	SM	Pink	Preplate	Excellent	Polish	55-60
Preplate	SV-1	Light Green	Preplate	Excellent	Super Fine	55-60
Preplate	SV	Light Green	Preplate	Good	Fine	55-60
General Purpose	SY-1	Tan	General Purpose	Good	Matte	55-60
Fast Cut	SY	Tan	General Purpose	Good	Matte	55-60
Aggressive	SX	Pink	General Purpose	Good	Matte	55-60

Cone



Cone Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
3/8 x 3/8	N	N	S	N	N	S
7/16 x 5/8	N	N	N	N	N	N
1/2 x 9/16	N	N	S	S	S	S
5/8 x 7/8	N	N	N	N	N	N
3/4 x 3/4	N	N	S	S	S	S
1 1/4 x 1 1/4	N	N	S	S	S	N
1 1/2 x 1 1/2	N	N	N	N	N	N

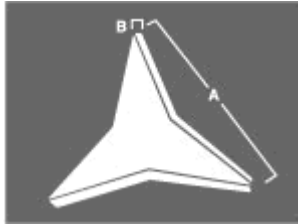


Synthetic Media

S = Standard (no minimum order required)

N = Non Standard (1,000 min. order for non-stock)

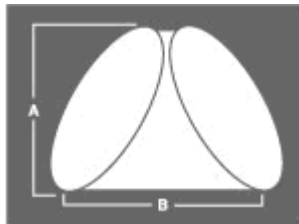
Tristar



Tristar Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
2 x 1	N	N	N	N	N	N

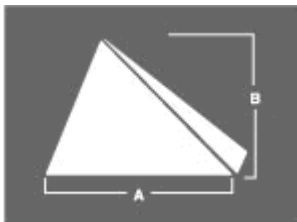
Cylinder Wedge



Cylinder Wedge Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
3/4 x 3/4	N	N	N	N	N	N
1 1/8 x 1	N	N	N	N	N	N
1 1/2 x 1 1/2	N	N	N	N	N	N

Tetrahedron



Tetrahedron Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
3/4 x 3/4	N	N	N	N	N	N
1 1/8 x 1 1/8	N	N	N	S	S	N
2 x 2	N	N	N	N	N	N
3 x 3	N	N	N	N	N	N

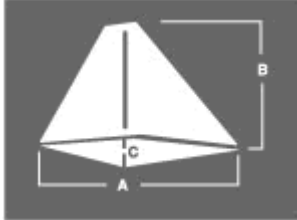


Synthetic Media

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N = Non Standard (1,000 min. order for non-stock)

Pyramid

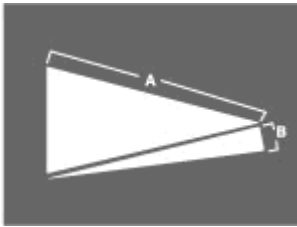


Pyramid Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
3/8 x 3/8	N	N	N	N	N	N
3/8 x 5/8	N	N	N	N	N	S
1 5/8 x 1 x 1	N	N	N	N	N	N



Wedge (Bowtie)

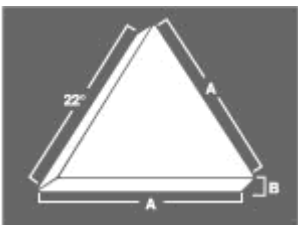


Wedge (Bowtie) Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
1 x 3/4	N	N	N	N	N	S
1 1/2 x 1	N	N	N	S	S	N
2 x 1 1/4	N	N	N	N	N	N



Triangle



Triangle Formulations

Size Shape	SM	SV-1	SV	SY-1	SY	SX
5/8 x 3/8 x 1/2	N	N	N	N	N	N
1 1/4 x 7/8 x 5/8	N	N	N	N	N	S





Vibratory Tumbling Compounds



VF-77T (pH 10-11)

A unique blend of quality raw materials that has proven to be an excellent compound for controlling the white foam residue that plagues most users of plastic or UF resin bonded media. VF-77T works equally well on all metal and plastics. Designed primarily for aluminum alloys. A rust inhibitor may need to be added when used with steel.



VF-100 (pH 8.8-9)

Excellent cleaner for heavier oils, work equally well on ceramic or plastic media. Blended with inhibitors to help control the rusting problem on ferrous metal. Designed primarily for steel applications.



VF-103 (pH 9.36)

Excellent results when used with ceramic polishing media, i.e polishing spheres, polishing triangles or polishing cylinders. Effective on aluminum and both ferrous and non-ferrous part applications.



VF-150 (pH 4.5)

An acid base compound blended from quality raw materials including inhibitors to prevent rusting of steel media. VF-150 is a proven compound for operating flo-thru on batch type burnishing systems. It produces bright finishes on zinc, brass, copper, steel, stainless steel, and various exotic materials. Ok for some aluminum alloys.



VF-R18B (pH 8.5)

Excellent for dipping and spraying parts or when you need additional inhibitor to add in your compounds. Can also be used to prevent the rusting of steel media while in storage.

