

Australian Made Quality.



BVSTT

Surface Improvement Technologies

info@bvstt.com www.bvstt.com

About us.

BVSTT is an independent distributor based in Bangkok Thailand. We provide surface finishing solutions in Thailand and South East Asia. With the support and resources of some of the worlds largest and most respected companies, we can provide solutions to almost any surface finishing requirement.



We proudly represent BV Products Australia - Manufacturers of innovative vibratory finishing machines.






BV Products has been perfecting its unique all cast polyurethane vibratory finishing machines for almost 40 years to make them the most innovative and most cost-effective surface finishing solution available.

Manufactured in Melbourne, Australia, BV Products machines have a reputation for reliability, longevity and efficiency. Offering a 5 year limited warranty unmatched by rivals, they are the first choice in mass finishing machines.

Vibratory Finishing Machines.

Australian






The "B" series machines range in size from 30 litres up to 600 litres. They are designed for hand loading/ unloading. This type of machine is especially suited for deburring larger parts and also delicate polishing processes such as those found in our ISFP technology. Due to their reduced weight & rigid design, these machines provide much faster finishing than machines produced by outdated, more traditional methods.

B Series				
Model	Description	Volume	Bowl Diameter	Trough cross-section
BV1B 	30L Batch machine – manual pick out of parts only. Includes single phase input control panel with speed/process control.	30	625	135X200
BV3B 	60L Batch machine – manual pick out of parts only. Includes single phase input control panel with speed/process control.	60	760	240X300
BV4B 	110L Batch machine – manual pick out of parts only. Includes single phase input control panel with speed/process control.	110	815	240X350
BV7B 	200L Batch machine – manual pick out of parts only. Includes single phase input control panel with speed/process control.	200	980	325X400
BV12B 	450L Batch machine – manual pick out of parts only. Includes single phase input control panel with speed/process control.	450	1400	380X480

Vibratory Finishing Machines.

Australian

The unique "DR" machines include our advanced separation system. There is no need for "gate clearing" found in other brands. Just switch to reverse, watch flap automatically lower and parts discharge as media is efficiently returned to the bowl. The BD range of DR machines is available from 30L through to 450L & of course can be optioned as found in our B series machines.

DR Series				
Model	Description	Volume	Bowl Diameter	Trough cross-section
BV1DR 	25L Vibratory bowl machine with integrated auto unload separation system. Includes single phase input control panel with speed/process control.	30	625	135X200
BV2DR 	50L Vibratory bowl machine with integrated auto unload separation system. Includes single phase input control panel with speed/process control.	60	760	240X300
BV3DR 	90L Vibratory bowl machine with integrated auto unload separation system. Includes single phase input control panel with speed/process control.	110	815	240X350
BV5DR 	150L Vibratory bowl machine with integrated auto unload separation system. Includes single phase input control panel with speed/process control.	200	980	325X400
BV10DR 	350L Vibratory bowl machine with integrated auto unload separation system. Includes single phase input control panel with speed/process control.	450	1400	380X480

Vibratory Finishing Machines.

Economy

As an economical alternative to our Australian range, we also offer our Asian made series of vibratory finishing machines. Built to our exacting specifications, we offer full support and service of these machines. Due to the increase in quality standards in many Asian countries, these machines are popular in both European and American markets with customers looking for quality on a budget.

Ranging in size from 30 litres up to 700 litres, with or without separation system, simple on/off start or fully automated control system, there is a machine to fit all customer requirements and budgets.



Centrifugal Disc Finishing Machines.

Precision

BVSTT supply a range of high quality precision centrifugal disc machines suitable for the jewellery industry, and small, precision parts manufacturing. With adjustable gap width down to 0.03mm, these machines are suitable for very small or thin parts. The machines are made to our exacting specifications and are fully supported by us.

This style of mass-finishing machine has a round chamber with a rotating disc in the bottom. The disc rotates and forces the mass out and up against the stationary chamber wall, where it begins to slow down. The mass slows further as it reaches the top of the load, just before it descends back down the middle toward the spinning disc, where the cycle is repeated.

The constantly varying speeds of media and parts generate excellent surface finishes in cycles that vary in duration between the vibratory machines and the centrifugal barrel. It is also possible to use disc machines for processing flat parts that will stick together in conventional vibratory machines.



Model	Capacity (Litre)	LxWxH(mm)	Power(kW)	Weight(Kg)
BCD18	18	700x800x1500	.75	140
BCD18x2	2x18	1200x800x1500	2x.75	235
BCD18x3	3x18	1700x800x1450	3x.75	330
BCD38	38	900x800x1500	2.2	220
BCD38x2	2x38	1500x800x1500	2x2.2	370
BCD38x3	3x38	2200x800x1500	3x2.2	530
BCD50	50	1500x2000x2400	2.2	650

Centrifugal Disc Finishing Machines.

Mass production

BVSTT also supply centrifugal disc machines for more industrial applications, including automated systems. These machines are suitable for larger parts where a precision gap is not required. Parts such as door hardware, marine fittings, tapware, are just some of the types that can be efficiently processed in these machines. Sizes begin at 50 litres.



Centrifugal Barrel Machines.

HZ High Energy series Centrifugal Barrel Finishing (CBF) systems from Mass Finishing are the fastest and most economical form of finishing machine available. They are the industry workhorse in polishing, deburring and de-flashing parts. From jet engine blades in the aerospace industry to heart valves and medical implants, these tumbling machines are the versatile and money-saving solution for polishing and deburring.

In a matter of minutes this deburr tool can clean up metal, acrylic or rubber parts are finished in what could take hours or even days by hand. The finish achieved by these machines is isotropic, meaning parts are polished uniformly and evenly, something that cannot be achieved by hand. Variable speed control allow these tumbling machines to achieve whatever finish the operator desires, from a simple polish at low speed, to full scale deburring and edge radiusing.



Consumables.

Media







BVSTT stocks a range of media manufactured using quality ingredients to our exacting high standards. You will find our media gives better results, while lasting longer than most media sold in the region, and our prices are very competitive.

Ceramic abrasive medias are recommended for general light and heavy deburring, fast and extra fast deburring and ultra-aggressive metal removal. Ceramic media is best for heavy cutting and hard metals.

Non-abrasive **Porcelain** medias are used for light polishing and mirror finishes on all ferrous and non-ferrous materials.

Plastic medias are recommended for general light and heavy deburring, fast and extra fast deburring and ultra-aggressive material removal of all non-ferrous components and some stainless steels.

BVSTT are continually expanding our range of media. If there is a media you require that is not listed, we can supply with a very short lead time.

Shape Grade	Cone 	Tetrahedron 	Triangle (anglecut) 	Cylinder (anglecut) 	Ball 	Ellipse 
PGSC700 - Extra fine fast	10x10	10x10				
PGM-Medium plastic	10x10	10x10				
PGF -Fine plastic	10x10	10x10				
PGXF—Extra fine plastic	10x10	10x10				
CR - Fast cutting Ceramic			5x5			
CC Medium cutting Ceramic			6x6,10x10, 15x15,20x20,	3X10	3,5,8	
CPP - Polishing Porcelain			6x6	2x4	3,4,6	8x3x8



Consumables.

Chemical Compounds



BVSTT formulate and manufacture our own range of compounds here in Bangkok. We have a range of liquid compounds, powders and pastes which can satisfy any surface finishing process. Why pay expensive imported prices when quality is available here in Bangkok at competitive prices. If we do not have an equivalent to your current compound, we can formulate one.

	Type	R12	JDS	1730	LDG	SMS-L	NNB -22	NNB -20	LMR
Liquid Compounds	Description	Corrosion protection for all rust sensitive metals	Universal cleaning and polishing.	Cleaning and polishing for non ferrous & stainless steels	High de-greasing with corrosion protection	Degreasing and cleaning and protection for ferrous and non-ferrous metals	Etching, cleaning and brightening of non-ferrous metals	Light etching and polishing for all non-ferrous metals & stainless steels	Cleaning & Polishing compound with brightening effect
	Ph Value \pm 0.5	10.0	9.0	2.5	12.0	14.0	1.5	1.5	1.0
metals	Steel/Iron	++	+	●	++	++	●	●	+
	Stainless Steel	●	+	++	+	++	+	++	++
	Copper/Brass	●	+	++	●	++	++	++	++
	Aluminium	●	+	+	●	●	++	++	++
	Zinc	●	+	++	●	●	●	+	●
	Titanium			++	+	+			
application	Deburring / radiussing	++	+	++	+	+	+	++	+
	Degrease/de-oil		●		++	++	●	●	+
	Smooth/Polish		+		●	●	++	++	++
	Polishing		++	++	●	●	++	++	++
	Ball polishing		●	++	●	●	++	++	++
	Descale/de-rust				+	●	●	●	+
properties	Corrosion protection	++	+		+	+	●	●	●
	Cleaning	+	+		+	++	+	+	+
	Degreasing		●	+	++	++	●	●	+
	Brightening		++	++	●		++	++	++
	Foam		++	++	+	+	+	++	++
	Etching			+			++	++	+

Waste Water Treatment

As with any mass or in particular vibratory finishing application, a slow, continuous stream of water is fed into the bowls for lubrication of the parts and finishing media. The water discharged from the process contains metal fragments and degraded media that require disposal. Flushing the water down the sewer is no longer an option due to the metal and other solids content of the effluent, not to mention the possibility of clogged pipes due to the ceramic and plastic media fines. Until recently, disposal was time consuming and very expensive, but recent developments in the use of small centrifuges and/or paper media using filtration units have not only made treatment prior to disposal down sewers possible they have led in some instances to waste water being able to be cleaned to the point it can be re-used in the machines many times over.

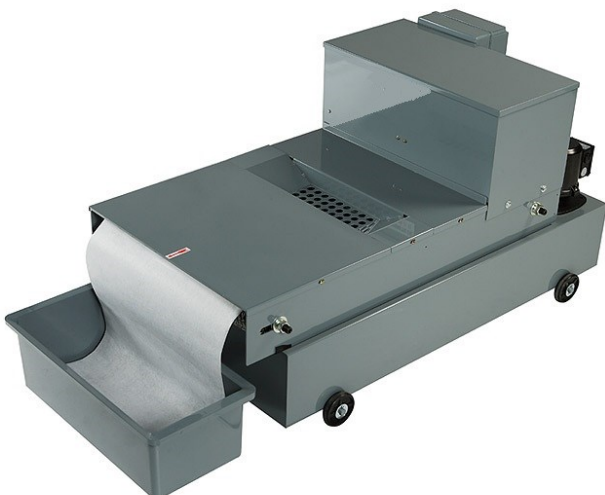
BVSTT manufactures a range of equipment that provide practical solutions to the problem of treating the waste from mass finishing processes. These include, centrifuges, paper bed /band filters, simple settling/recycling tanks and more comprehensive systems that can be a combination of all the aforementioned that allow the re-cycling of waste water.

RCT System

BV products range of RCT tanks are inexpensive, self-contained units that utilise "under over" settling of solids and they can be used in two different ways. In simple polishing processes using non-degrading medias (like porcelain) they can offer water and compound return to the machine for re-use for a number of days. If wearing medias are used the tank can be set up as a non-return system to simply settle solids and transfer the cleaned water via the integrated pump to sewer or other collection system. Please note that RCT tanks are NOT waste water treatment systems.



PFA Series



BVSTT range of PFA – Paper band/bed filter units are semi-automatic, simplified membrane filters. The principle is simple. The units consist of a stainless steel mesh conveyor which supports a continuous length of filter paper. Waste water from the finishing operation passes on to the filter paper. Eventually the section under the discharge hose "blinds" or clogs and a puddle forms on the paper. Once it reaches a pre-set depth a float rises and trips the servo motor which indexes a fresh section of paper into place. At the end of a working day the waste paper is simply cut off and disposed in a hard waste container. The PFA units come in a number of sizes and capacities.

Waste Water Treatment

BVSTT range of standalone, Eco waste water treatment systems come in a variety of models to suit customer's budgets and requirements. All are based on the use of centrifugal force to separate suspended solids from the waste water. The centrifuges can be complimented in a number of ways - if dissolved solids are an issue - with a combination pH control or flocculation. The Eco systems can be designed & supplied with a variety of dirty water and clean water tanks fitted with stirrers. This in some instances can enable waste from the finishing machines to be cleaned and re-cycled for lengthy periods thus enabling savings in water and compound usage and waste disposal.



Process Development

In mass finishing everything begins with selecting the correct process and in this regard we work backwards by first providing a solution which then dictates the correct equipment and materials. In an effort to select the correct type and size of machine and to establish the process parameters for achieving a particular result on the customer's part we operate a demonstration facility with machines of varying types and sizes. Customers simply submit parts to us, with a control sample of what they wish to accomplish if possible, and we will establish a process in a suitable machine, media and compound that produces what the customer requires.

Please send your components to:

BV Surface Technologies Thailand Co., Ltd.

1979 Moo 9 Soi Sukhumvit 109,
Samrong Nua, Samutprakarn 10270
Thailand

Suggested extras:

Description of the desired finish and current finishing systems

Business Card

Return freight package

Control Sample

Contract Services.

In today's manufacturing environments where OH&S practices and environmental issues are placing more and more pressures on local producers it can often make more sense to get someone else to worry about labour, noise levels water consumption and waste water disposal. We at BVSTT have recognised that not everyone wants the hassles of finishing their own parts, so we are equipped to provide expert contract finishing services. Many customers utilize these specialized services to handle both regular requirements and overflow even when they have their own equipment and expect quick, convenient and reliable processing of their components — on time, on spec, on budget.

BVP can handle everything from cleaning, de-burring, polishing and isotropic super finishing of all parts, from simple metal pressings to gears, surgical parts and turbine engine components, in a tightly controlled and highly responsive finishing systems to assure you of on-time delivery and agreed upon quality specifications.

If you would prefer to send out your parts for processing, instead of investing in equipment, please contact us to discuss the options.

Company Location.

Address: BV Surface Technologies Thailand Co., Ltd.

1979 Moo 9 Soi Sukhumvit 109

Samrong Nua, Samutprakarn 10270

Find us on Google maps.

