

VALGRO

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NEWS

Volume 15

www.valgroindia.com

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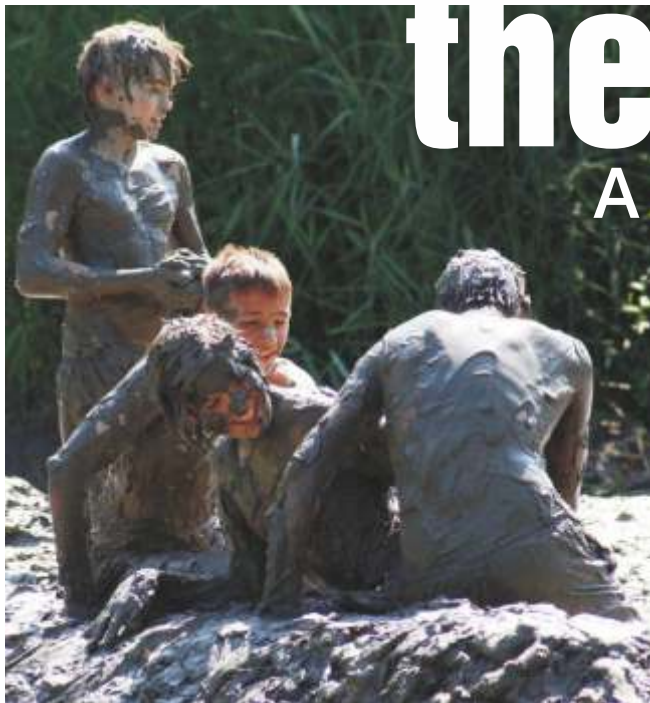
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◆ Deburring ◆ Finishing ◆ Polishing ◆ Cleaning ◆ Washing ◆ De-Scaling

◆ De-Greasing ◆ Sanding ◆ Brushing ◆ Oxide Removal ◆ Edge Rounding ◆ Slag Removal

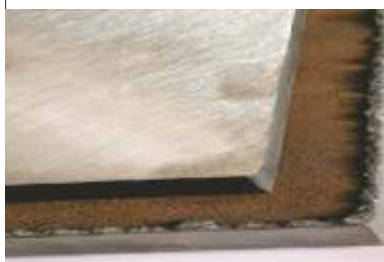
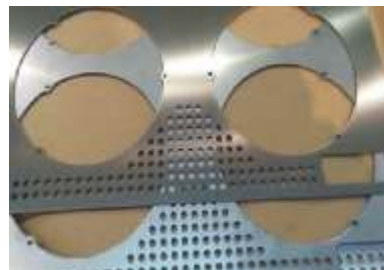


Whatever
the damage
A good scrub
will take care



Valgro India offers optimal answers to a huge range of finishing & surface preparation problems. They are being preferred by more and more industries as a superior alternative to traditional products in the field, owing to their technological efficiency and fineness.

Finally, we belong to the vision of becoming a lifelong credible partner for our customers.



Seamless Solution...

for Sheet Metal Preparation



" That is an
immeasurable outcome. That is
our Success.

That is exactly what we're
doing, We don't know why we're
doing it, We are passionate and
it's never for naught.

The pandemic years 2020 and 2021 changed the face of the world; no one imagined that the entire world would come to a halt. but it did. These two years proved to be extremely difficult for the survival of the industries. Everyone had their own aim and goal, and all were sprinting blindly towards it in order to attain it. And, coincidentally, the sectors suffered a significant setback as a result of the corona pandemic. My point is that all sectors that actively participated in growth-related discussions, observations, and upgraded their product, infrastructure, and brand awareness benefitted the most and are now experiencing a golden age.

Including Valgro, in the last two years, we have worked tirelessly to improve all of our products with the goal of making them more robust, accurate; aiming to match international standards. Today, as a consequence of the joint efforts of all three divisions, we are now on a trajectory of success that will allow us to reintroduce Valgro in a completely new avatar in 2022. Along with the abrasives that we create, we offer advice on which machines to purchase and how to operate them. We will continue to do all necessary to provide a comprehensive solution to every conceivable customer.

To that end, I would want to express my deepest gratitude to each customer, investor, and vendor. Let us all trust that no matter what happens in the future, even if there are major crises, we may stand together strong and propel the world forward. Let's create a new world together, one in which we can find all the resources we need to accomplish our goals.

As part of the pandemic effort, we present today the **2022 series of Valgro's** machines, each with its own unique design and avatar. I hope that our machines will provide excellent service 24x7, 365 days a year, and will work seamlessly, increasing each customer's productivity while decreasing rejection and rework, and assisting in meeting production targets.

Once again, I want to express my heartfelt gratitude to all of you and encourage you to continue growing!!

Dr. Arvind Patel

Valgro - We all Grow



VALGRO INDIA LIMITED

Valgro-Hyzer[®]
Xpert In Metal Preparation

Valgro-Fynex[®]
superlative surface solutions

31 Affordable Solution for Deburring & Metal Preparation

Samarth Series - Flat Sheet Metal Parts

Deburring + Finishing + Cleaning



Finish: Matt # 4 Brush Finish

Application

Laser & Fine blanking press punch sheet metal parts for vertical primary and Secondary burr removal.

Burr Classification: Class#1 | Class#2

Working Thickness: 0.8mm to 2mm

Material Specification: Stainless Steel, Aluminum, Brass, Copper and other alloy steels, where finishing is required with deburring operation.

Available Models : DB-24HD | DB-32HD | DB-50HD



Disc Expert Series - Flat Sheet Metal Parts

Deburring + Roughening + Edge Rounding



Is specifically designed to process deburrs and edge rounds on flat sheet metal parts upto 100 mm of thickness.

Finish: Vibration Finish + Burr free surface

Application Laser cut & Fine blanking sheet metal Press punch parts for vertical primary and secondary burr removal

Burr Classification: Class#1 | Class#2

Working Thickness: Up to 100mm

Material Specification: CRC, Galvanized Alloy Steel, where roughening is required before powder coating.

Available Models DEB-06 | DEB-14 | DEB-32 | DEB-50 | DEB-62

Plasma & Gas Cut Part Deburring

Slag & Dross Removal + Deburring + Edge Rounding



Application: Plasma and Gas cut for Parent burr, Rout Burr, Attached burr, dross removal & vertical primary & Secondary burr.

Multi-head deburring station offer with in and outside of the hole and corner with edge radiusing.

Burr Classification: Class #3 | Class #4 | Class #5

Working Thickness: Up to 100mm

Material Specification: Hot Roll Carbon Steel Parts

Available Models: SLR-24 | SLR-52 | SLR-62

LBF Karam Series : Laser Cut Parts

Deburring + Edge Radius + Inside Outside burr



BR = Belt + Roller Brush



Finish : Burr free surface

Application: Laser cut, Press punch sheet metal parts for vertical primary and secondary burr removal – Inside + Outside hole edge and corner.

Burr Classification: Class#1 | Class#2 | Class#3

Working Thickness: Up to 100mm

Material Specification: Alloy Steel

Available Models LBF32-BR | LBF50-BR | LBF62-BR | LBF50-TNB

De-Slager Series - Slag Removal

Burr Classification: Class #4 | Class #5

Working Thickness: Up to 100mm

Material: Hot Roll Carbon Steel Parts

Available Models: SLR-24 | SLR-52 | SLR-62



Strip Edge Trimming Rounding Line



During the production process of strip and coil, the edge of the material develops a sharp edge, commonly referred to as a burr. This sharp edge has both safety and manufacturing implications. Its help to Dressing edge minimise these risks and provides a cost effective and safe solution to manufacturers.

Available Models : Made to order

Classic Hybrid Series - Wide Belt Sander

Deburring + Grinding + Finishing



Finish: #4 Brush Finish | Matt Finish | Hairline Finish
Application: Laser cut and press punch parts

Burr Classification: Class #1 Class#2 Class#3
Working Thickness: 0.8 to 12mm
Material Specification: Stainless Steel | Copper | Aluminum | Brass
Available Models: HYB-06 | HYB-24 | HYB-50 | HYB-62

Valgro Hybrid Series deburring, Edge rounding and Finishing Machine specially designed to meet needs of sheet metal processing in Deburring and Finishing. This is an automatic feed-tough machine with a belt. The machine will deburr and sand a radius to the sharp edge on cut out parts.

Classic Series - Wide Belt Sander

Deburring + Grinding + Hairline No. 4 Finishing



Finish: #4, Hairline
Application: Laser & Press punch parts for vertical burr removal

Burr Classification: Class #1 | Class #2 | Class #3
Working Thickness: 0.8mm to 12mm
Material Specification: Stainless Steel | Aluminum | Sheet Metal Parts
Available Models: WBS-06 | WBS-12 | WBS-24 | WBS-50 | WBS-62

Classic Series deburring and Finishing Machine specially designed to meet needs of sheet metal processing in Deburring and Finishing. This is an automatic feed-tough machine with a belt.

Valgro offers a wide range of equipment and accessory & allows unlimited personalized solutions.

Nib End Edge Deburring - Edge 11

Deburring Shearing Cut Parts – Top Edge
 + Side Edge In One Pass With Auto Transmit System



- No physical strain
- Avoid unhealthy position
- Employee do not have to suffer under flying spark, dust, dirt or noise.



Finish: Smooth burr free edge
Application: Removal Nib Shearing cut, Top and Side wall both in one pass

Burr Classification: Class #1 Class #2
Working Thickness: 0.8mm to 3mm / 3mm to 12mm.
Available Models: Edge 11 - Edge11HD

Designed to remove metal burrs from sheet external perimeter. Burr formation happens after cutting processes such as shearing, punching & Laser cutting

End Edge Deburring - Manual

Deburring



Edge 7
 Nib Micro Joint Burr Removal



Edge 9
 Shear Cut Edge Burr Removal



Profile End Edge Deburring - Edge 21

Deburring + Edge Radius Inside & Outside Cut Parts

Application-Aluminum extrusions saw cut profile for automotive, aerospace, building construction, and medical device industries. Cut Tube, Pipe deburring Valgro Abrasive nylon brushes are an excellent tool for deburring and Edge Radius.



VALGRO-SAMARTH – Edge Breaker Series END EDGE Deburring Machine is designed to remove metal burrs and shear cut edge from ends of pipes, tubes, and profiles. Its single head semi-automatic end edge deburring system helps you to easily activate clamping mechanism. Its automatic clamp shell hood provides additional safety from dust. It drives variable speed machine attached to 12inches or 14inches Valgro disc deburring brush.

Pipe Deburring Machine - Edge 3

Deburring + Edge Radius



Time and this significantly reduces time consumption. The machine has a powerful speed motor and the ability to deburr both round and square sections. Deburr material such as steel, aluminium, stainless steel, copper, brass, and the like. The machine comes with a 0.5mm abrasive wire brush and is prepared for the installation of an extractor as an accessory. Valgro pipe deburring machine can deburr material from the inside and outside of a pipe at the same.



Both End Burr Removal Machine In Single Pass Made To Order

Polishing

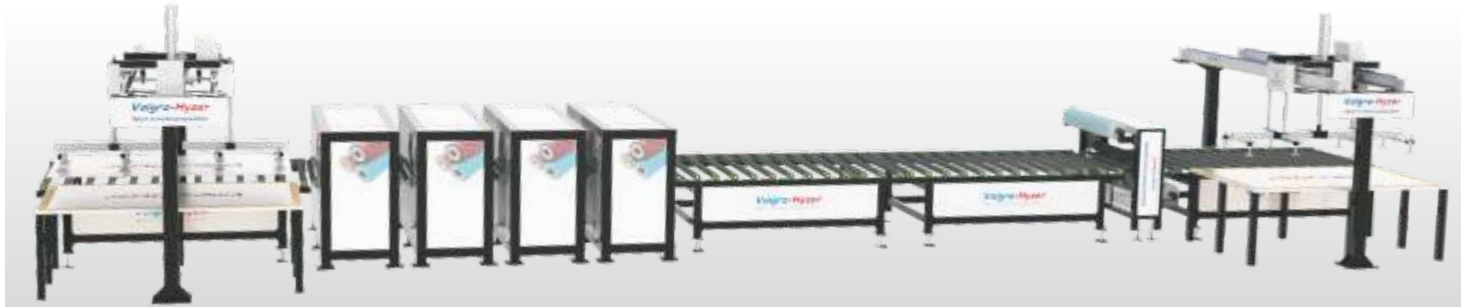
Polishing is value added operation in steel fabrications Industries. Uniform Surface finishing for Aesthetic look, easy cleaning & Rust resistant surface is most important parameters.

Valgro Scotch Brite roller polishing is Widely used for restaurant and kitchen equipment, Pharma & food processing, dairy equipment. Architectural wall panels, Beverage equipment, Boat fittings, Bus shelters, Elevator doors and interiors, Escalator trim, Hospital Furniture, Mass transit equipment, Water fountains, Metro and Railways, Shipbuilding, Automobiles.

The polishing of coils and sheets is one of the most added-value operations offered by Valgro India. Valgro has developed various model for sheet polishing in configuration of flexibility and lower operating cost. Sheet Polishing machines are available in dry and wet processing.

The Valgro-Hyzer precision Polishing Machine is suitable for surfacing of nonferrous and ferrous metals. Provides good quality of polishing effect with removal of micro scratch, Acid layer & Oxide from the surface with safe and economical way.

Samarth Project Series : Scotch brite Dry Sheet Polishing Line



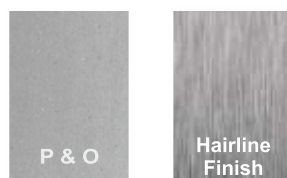
Available Model Fabrika Series:
SP50-1, SP62-1 Dry Polishing Line
SAMARTH Fabrika Series Stainless steel Sheet & Blank Polishing machine Suitable for Stainless steel Fabrication Industries for in-house Polishing work. Increase profit by reducing cost.

Finish : #4 Brush Finish | Matt Finish | Hairline Finish | Satin



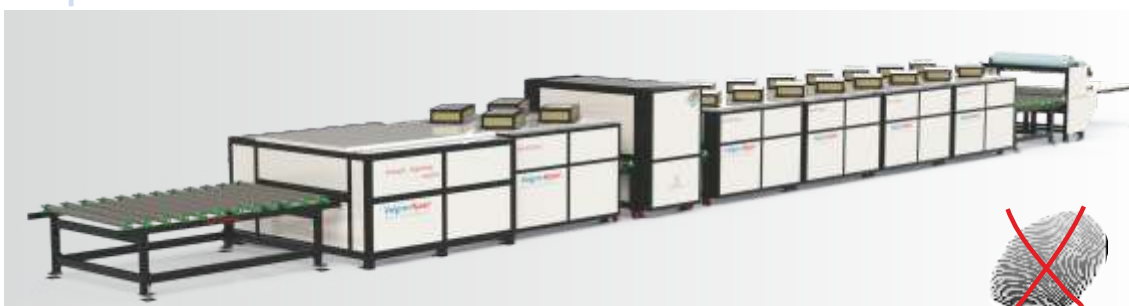
Samarth Project Series : Wet Oil Sheet Grinding Polishing Line

Finish: Belt Grinding + #4 Hairline



Project Series: SP 50-4, SP 62-4 Wet or Dry High Speed Polishing Line
SAMRTH Project series Sheet polishing machine is widely acceptable from Stainless Steel sheet and coil producer, service center and warehouse.

Samarth Project Series : Anti-Finger Coating Line



**AntiStain Coat,
No finger mark**



STAYKLEAN XS-05



Valgro STAYKLEAN XS-05 is translucent water based single component and multipurpose coating liquid to give crystal clear non-yellowing coating over most surfaces to protect the surface from getting stain. The uniquely blended STAYKLEAN XS-05 prevents tarnish, water stains for both oxide/tarnish and scale/deposit as well as finger print over metals surface too. The physical properties and chemical resistance of the crystal clear thin film form strong bonds integrated with the surfaces, providing long-term protection. The non-yellowing film formed will suit the outdoor surfaces too.

APPLICATION : STAYKLEAN XS-05 is ready to use. It is spray-able, paintable over contour surface or wipe-able over flat surface properly cleaned, degreased, dried without dust, grease, oil and tarnish-free neutralized surfaces. Coating layer is readily dried to touch at room temperature within 15 minutes. Hot air blower or drying in oven at 50°C for few minutes can be applied or faster drying, but matured coat properties achievable after leaving to cure further at room temperature for 48hrs.

Micro Strip Polishing Machine

Rust Free - Rust Resistant Smooth Clean Surface

Finish: #4 Finish | Matt Finish | Hairline Finish | Satin | Gloss Buff / Mirror Finish



Coil & Strip Polishing Machine

Specially Made For Thin Strip, Very Economical And Precious Working With Less Power Consumption.

Finish: Brush Finish | Matt Finish | Hairline Finish | Satin Finish | Gloss Mirror



Harden N Temper Strip Polishing Line

Wet & Dry Polishing Line - Smooth Clean Shine Surface



The surface finish of Hardened and Tempered Steel Strip products is not too critical in general engineering applications where the normal blue-black (also known as blue-grey) oxidized finish from the heat treatment is satisfactory. By control of the atmospheres in the furnaces non-oxidised surfaces can also be produced, on a selected basis, and alternatively, steels can be satin or bright polished were needed, these finishes being as much for cosmetic reasons as for engineering purposes.



Before



After

Copper Busbar Polishing Machine

Oxide and Tarnish Free Smooth Clean Surface



Improve Electric conductivity



Before



After

Valgro-Hyzer busbar polishing machine is specially made for Square and rectangle shapes. This machine is very economical and precise working with less power consumption.

Finish: Brush Finish | Matt Finish | Hairline Finish | Satin Finish | Gloss Mirror

Work Station : Long belt sander

Finish : Matt # 4 Finish

Model: WS-50 Eco | WS-50 Pro | WS-120 Pro | WS-120 Auto



VALGRO long belt finishing machines have a flexible abrasive belt which enables finishing on flat surfaces of big dimensions with Fully Auto function.

Application

Ideal for Cabinets – Enclosures- panels – Fabrications, Home and Kitchen appliance Industries, Flat surface deburring and Finishing.

Large Plate Automated Polishing Machine



Valgro Large Plate Automated Polishing Machine. Our newly built and custom designed large plate polishing machine not only increased our ability to process larger and heavier plates, tubes and sheets, but with faster through out at a lower cost. Our capabilities include plates weighing over 5000 LBS. in lengths 20 mtr widths to 3 mtr.

Our newly built and custom designed large plate polishing machine not only increased our ability to process larger and heavier plates, tubes and sheets, but with faster throughput at a lower cost. Please request a quote to see how we can provide you with best-in-class service and platinum results on your next project.

Planetary Head Round Tube Polishing

Finish: #4 Finish | Matt Finish | Gloss Finish



The Valgro planetary system enables the work without rotating the tube, delivering the best results on both bent and curved tubes.

The auto feeding system transports straight tubes safely and automatically through the finishing station, enabling a consistent and high productive tube polishing quality.

Bend & Oval Tube Polishing Machine

Finish: Matt Finish | Hairline Finish | Satin Finish | Gloss Mirror



Bend & Oval Tube Polishing Machine Valgro curved round Tube polishing machine is the perfect choice for finishing the surface of round, oval, and elliptical tubes. Provide maximum flexibility and consistency. The Valgro planetary system enables the work without rotating the tube, delivering the best results on both bent and curved tubes.

Aluminum Profile High Gloss Mirror Polish



Finish: High Gloss Mirror

High Gloss Buffing surfaces are performed with rotation buffing rolls with the application of a polishing compound. For each task varied materials for the buffing, a roll can be used like cotton, fiber, sisal, or steel wire.

Aluminum Profile Brush Finish Machine

Finish: Brush Finish | Matt Finish | Hairline Finish | Satin Finish | Gloss Mirror

Model: ALU14-2T | ALU14-2TNB



Valgro Aluminum Profile polishing machine is used to have brush finish hairline and satin finish on aluminum extrusions prior to anodizing.

Valgro Abrasive Brushes clean the surface of aluminum and eliminate extrusion lines, scratches, marks.

Weld Edge Polisher



The double speed abrasive belt grinder enables you to work angles up to 145 mm on a support surface adjustable in height and inclination.

Easy to use electrical system and dust extractor hood.

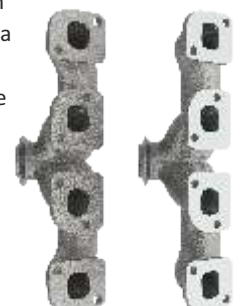
Belt: 150 x 2000 mm

Flat Grinder



For flat machining with an abrasive belt sander grinder, with two speeds and a convenient handwheel that functions on a fork that supports the tensioning roller on both sides. The workstation is protected by movable cranks that may be opened half or completely to ease the processing of long items while maintaining the highest level of security.

The tape is prepared by sliding it on a graphite canvas band. Preparation for a self-filtering suction system that collects dust generated by the rolling of the belt. Versatile and process-adjustable attachments are provided upon request.



Belt: 150 x 2000 mm

Pipe Facing Machine

Portable Pipe End Facing Equipment is a lightweight and compact machine for facing, bevelling, and weld preparation on all materials including stainless steel, duplex, Inconel, and others, resulting in burr-free pipe ends that are perfectly parallel to the axis of the tube.

Belt: 125 x 1220 mm





Sheet Pick N Place System

Application -Safety interlocks have been provided such that if any of the movement gets mechanically jammed, the system halts. The vacuum pressure if goes below a set level, the machines starts an alarm and the sheet is returned to the home position. E-Stop will be provided at loading and unloading station such that Operator can stop the machine at any stage from any position. All the control system will work on 24V DC, so that there will be no electrical shock to the operator. Additional safety Infra-Red Curtains can be provided around the machine (optional).

VALGRO has designed and developed Automatic Pick and Place System for Handling Automation. The system can be designed to operate with Pneumatics and Servo Controlled Systems. End Grippers are designed as per the product requirement.



Surface Protection Laminator Machine

Model: LM-50 | LM-62

Today customer understands the importance of protecting metal surfaces from scratches, and damage. Customers who receive aluminum, stainless steel, copper, and/or brass sheets demand a defect free surface, or the resulting sheets are returned and dollars, plus your reputation is lost. Plastic and wood surfaces often require film coatings to protect the surface.



Stainless Steel Total Finishing Solution

3 Strong Mobile Polisher Kit For Stainless Steel Fabrication Industries

every surface turns out perfectly, linear texturing, satin finish, hairline finish & shadow free matt finish without streaks



Linear Polisher

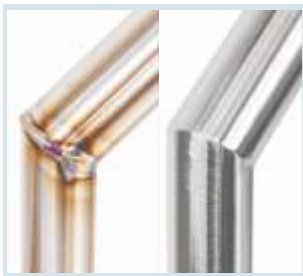
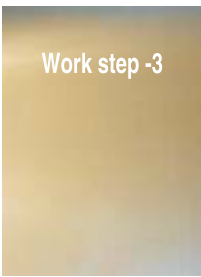


Tube Polisher



Corner Polisher

Electronic Speed Control | Marathon Heavy Duty Motor | Double Reduction Gear System | Precisely Guiding & Light Weight



Notes: 1. Finishing is slow & step-by-step process. Always select suitable wheels from rougher grade to gradually finer abrasive grade for better polishing effect. 2. Finish described by a particular industries designation. i.e No.4 Finish, may still vary from supplier to supplier & even from batch to batch from same supplier. This may be the result of differing manufacturing condition at mill finish. 3. The customer should define and agree acceptable levels of variations from the standard to minimize the problems caused by mill finish or semi finishing of base metal surface. 4. A factor of 1.1 X CLA is used throughout this table to calculate RMS(iin.) 5. Typically, for values of Ra from 50im to 3.2im, the conversion factor for Rt (im) is 4. As surface roughness decreases from 3.2im, the conversion factor increases, reaching 12 at 0.025im. This is reflected in the table above.



The Brush Factory



Mobile Dust Collector-High Suction

Low Noise Level High Filtering Efficiency



DuKlean
Clean Air Equipment, *s Valgro*

Model: DSC-1 | DSC-2 | DSC-3 | DSC-5 | APS-5 | DCW-5

"Valgro-DuKlean" dust collector noise control silencer to reduce objectionable noise during operation.

There are two primary types of dust collection filtration systems: dry and wet. Dry filtration machines are essentially giant vacuum cleaners, simply sucking up and containing metal debris until they reach maximum capacity. Wet filtration models force all of the grinding debris into a tank of water, capturing and cooling it to mitigate the risk of fires and explosions.

WORKING TOGETHER FOR BUSINESS GROWTH



"We say what we do and we do what we say"

Hello Friends,

To make machines and to bring desired results, both are different things. Our expertise in surface condition is the key factor in our metal finishing success. There are several manufacturers of brushing & polishing machine, but due to lack of abrasive expertise, they fail to deliver desired results to the end user and end up being dissatisfactory in terms of production quality. whereas in our case, total solution and customer satisfaction is guaranteed due to one roof seamless surface solutions.

We work with our customers to develop innovative products to increase the productivity with reduce rejection and rework. We provide proactive flexible and high performance approach to all task level from [detail design to final assembly of surfacing solution](#).

No matter. what sort of finishing problem you have, we are always ready with the right solution & are just a phone call away.

Technological Advancement

Valgro is the only company that provides total surface treatment solutions. With a high-tech manufacturing facility, the company has consistently set standards in technology, innovation and quality products. They have continually set toughest of target & achieved high growth by keeping a tab on market and technological trends.

About Valgro

Valgro India engages in manufacturing of surface conditioning abrasives brush & SCS Brushing machine. It has carved a niche in the competitive marketplace over the years. The company is distinguished due to its adherence to high quality standard and ensuring complete client satisfaction. Valgro is renowned for it's master workmanship.

Total Solution

Valgro provide professional and honest advice, tailored to your needs. Whatever your requirements, we will find a solution. Valgro has one of the best-performing and best-equipped factories in Asia for surface conditioning segment .

India's 1st Research, Developments & Manufacturing Center For Metal Surface Preparation

Working With Various Challenges on Wide Range of Metal Surface Defect



Oil Patch



Corrosion



Un Pickled Patch



Over Pickling



Water Scale



Raw Mat. Defect



Oil Stain



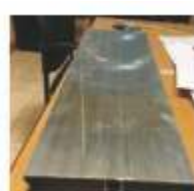
Etching Stain



CorAcid rosion



Insufficient Degreasing



Die Lines



PitiType Corrosion



Stress Corrosion



Rust



Burr Classification & Deburring Solution

Class of Burr	Definition of burr & Removing technique
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Class 1 : Microburrs

Microburrs Can only be observed using magnification. To the unaided eye, they appear as sharp edges. Grinding Operations are a common source of this type of burr

How to Remove deburr by Nylox abrasives wire brush



Class 2 : Feather burrs

Feather burrs are readily visible without magnification and are characterized by extremely thin roots. They can be removed with a tip of a pencil

How to Remove deburr by abrasive brush



Class 3 : Attached burr

Class 3 burrs, are well-attached. The primary difference is size and root thickness.

How to Remove Brushes can sometimes remove Class 3 burrs but often a stock removal operation such as grinding is necessary for complete removal.



Class 4: Root burr

Class 4 burrs are very large with thick, tight roots. Burrs in this class are different then conventional burrs because they comprises of displace base material wich is still fully-attached to the parent part.

How to Remove often a stock removal operation such as grinding or machining is required for complete removal.

Ultimate Solution For Deburring And Metal Finishing In Sheet Metal Processing

Deburring The burr can vary when punching or laser cutting your materials. Burrs created via laser cutting and punching adhere to the material in various strengths. Therefore, finding a comprehensive deburring solution is crucial.

Edge rounding A good edge rounding result is characterized by removing the sharpness on the edges of your laser-cut or punched materials. This prevents injuries that may be caused during handling of the material, while simultaneously improving downstream processing. (Furthermore having a radius at the edge of the materials also improves paint adhesion.)

Oxide removal If you are cutting via a CO₂-laser with oxygen. Shall Lead to Oxides formatous at the cut work areas. Our **Classic Hybrid** can remove any oxide layers along the cutting edge of the material.

Surface finish Punched and laser-cut parts often require deburring on the surface. A beautiful surface has a pleasant effect to deburring process. Most of the specific type of surface finish is a necessarily could be necessary.

Slag removal The slag on oxyfuel or plasma-cut parts has to be removed via hand grinding before the actual deburring process takes places. This is done to ensure a reliable and economical result subsequent to deburring process.

Thanks to the machines offered by VALGRO INDIA, having to manually remove the slag is no longer necessary.



Deburring Flat



Deburring Shaped



Edge Radiushing



Laser Oxide Removal



Graining Flat



Graining Shaped



Slag-Grinding



Flattening



Weld Dressing



Polishing



Calibrating

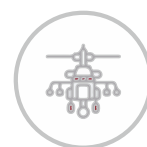


Non-Meta

Metal Deburring and Finishing for every Industry



Sheet Metal



Military



Aerospace



Metalwork



Hospitality



Appliances



Automotive



Transport

Business Promotion **World**wide



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