

JONSEN SANDER

Since 1993

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JONSEN SANDER

Hangzhou Xiangsheng Abrasive Machine Manufacturing Co., Ltd (known as Jonsen Sander) was founded and established in the beautiful city of Hangzhou, Zhejiang, China in year 1993 by Mr. Xiangsheng (Jonsen) Chen. Jonsen Sander started out as a small abrasive belt production workshop. While fully immersing himself into the business, Mr. Xiangsheng (Jonsen) Chen soon realized the market's lack of wide abrasive belt machine supplier at the time. Back in the day, almost all of the machines were imported overseas and extremely expensive. People could rarely afford them. Therefore in year 1997, Jonsen Sander expanded its business scope and shifted the business focus into machine manufacturing.

Jonsen Sander has been fully committed to the industry of metal surface treatment equipment ever since. The applications include but not limited to surface finishing, deburring, edge rounding, de-slagging, precise grinding, and stock removal. Jonsen Sander is always passionate in innovations. The end goal has never changed since day one: making the machines simple, robust, efficient, and easy hand-on. Hence Jonsen Sander is very heavily oriented in R&D. It has obtained over 30 invention patents, and in total over 100 patents.

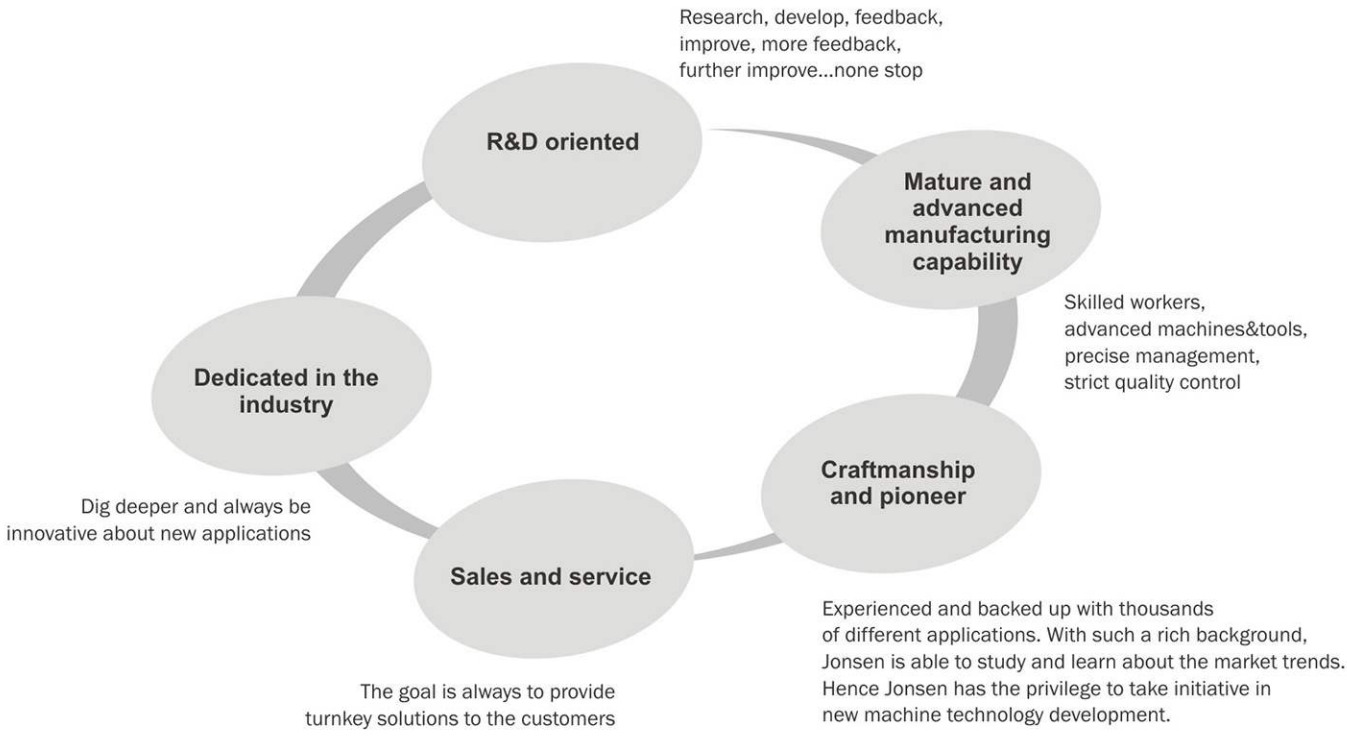
With such rich background and accumulation of experience over the years, Jonsen Sander has gained a vast amount of professional knowledge and practical experience in dealing with all kinds of different applications. In year 2015, Jonsen Sander was nominated and eventually became an honorable founding member, and standard making unit of Chinese National Metal Surface Treatment Equipment Association. Over 20 industrial standards were drawn up and published by Jonsen Sander.

Jonsen Sander's machines are on active services across industries all over the world: metal fabrications, constructional machineries, farming machineries, national defense, aerospace, rail transit, medical instruments, automobiles, kitchenware, mining equipment, rare special metal mills, and etc. Over the years, we have provided over 10,000 industrial solutions to our customers, and there are over 300 different machine models we have designed and manufactured.

Our slogan: Professionalism We Do!



Jonsen's CORE competitiveness



Professionalism We Do!



SGP1300

DEBURRING, EDGE ROUNDING, AND SURFACE FINISHING MACHINE FOR LASER CUTTING PARTS

APPLICATIONS

Deburring, edge rounding, and surface finishing of parts coming off laser cutting/stamping/fine blanking/punching/shearing/waterjet cutting machines with sharp edges and minor-moderate burrs.

SGP1300 is equipped with two work stations. First the wide abrasive belt head is for surface sanding, vertical burr sand off, as well as surface finishing (No.4). The planetary abrasive barrel station is for further deburring and edge rounding. The overall operation is safe, light labour intensity, and minimum metal dust exposure to the operators. Full working width vacuum conveyor also grants the capability of processing small work pieces. To summarize, the machine is flexible, robust, easy hands-on, clean, safe, and great performance.







TECHNICAL DATASHEET

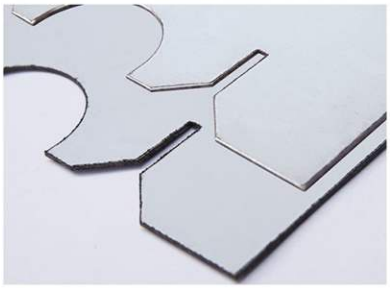
Maximum working width: 1280mm	Consumables: Wide abrasive belt, abrasive barrel
Working thickness range: 0-50mm	Quantity of abrasive barrels per set: 8
Conveyor speed: 1.5-5m/min	Weight: 5000KGS

HIGHLIGHTS

- Heavily constructed machine main frame: welded, sand blasted, and powder coated
- First work station wide abrasive belt head is used to sand down/off larger burrs. It is also capable of surface finishing such as No.4 finishing. Servo lifting is equipped to ensure precise height (thickness) adjustment
- Planetary abrasive barrel station: total of eight abrasive barrels to cover the whole working width. Each two adjacent barrels rotate in opposite direction to ensure consistent and even touch/pressure to all edges, corners, and holes
- Full working width vacuum conveyor allows processing of small work pieces, 60x60mm and up (solid surface area)
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Due to the working nature of the planetary abrasive barrel station, it targets mostly on edges, corners, and holes. There is minimum touch applied to the “flat surface”. Therefore, sheet with vinyl film can be processed (using planetary abrasive barrel station only)
- Capable of processing minor profiled parts (depend on the shape, form height, and sizes. Using planetary abrasive barrel station only)
- Long life span of the consumables. Less replacement needed.
- Easy hands-on, straightforward operation, LED light built-in
- User friendly touch screen interface

GOOD FIT MATERIALS

* Steel, stainless steel, aluminum, copper, various alloys and etc.
* Parts with vinyl films.
* Parts that require heavily rounded edges (radius) before coating process.




MORE MACHINE MODELS AVAILABLE (MODULAR DESIGN)

- SP1300 with only planetary abrasive barrel station is a good fit for processing softer metals such as copper and aluminum, as well as parts with decent cutting quality with minor burrs
- SGGP1300 with two sets of wide abrasive belt heads and planetary abrasive barrel station is a good fit for processing parts with heavier burrs, or high hardness metal alloy materials
- SPG1300 with planetary abrasive barrel station on the front and wide abrasive belt head on the back is for reproducing the straight line surface finishing after deburring and edge rounding process
- SGPG1300 with wide abrasive belt head + planetary abrasive barrel station + wide abrasive belt head
- SGPB1300 with wide abrasive belt head + planetary abrasive barrel station + polishing barrel station
- Up to 1600mm extra wide working width machine





SP1300



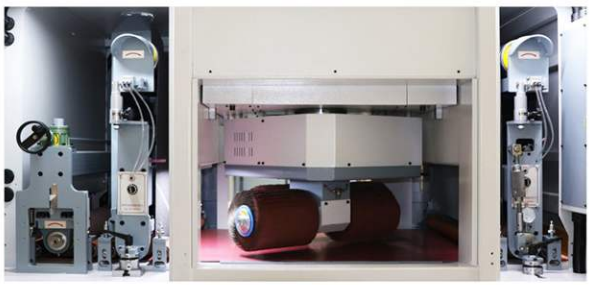
SGPGB1000

DEBURRING, EDGE ROUNDING, SURFACE FINISHING & POLISHING MACHINE

APPLICATIONS

Application: Versatile deburring, edge rounding, surface finishing & polishing for parts coming off laser cutting / stamping / punching / shearing / waterjet machines with sharp edges and minor-moderate burrs. It is equipped with total four work stations: wide abrasive belt head, planetary abrasive barrel station, another wide abrasive belt head, and lastly the polishing barrel station. Each work station can work individually or work inspecific combinations for specific jobs.

It is specially used for batch burr removal, edge blunting, surface polishing, surface drawing, etc. of laser cutting blanking parts. The core grinding station adopts up to four grinding methods, which can be used in combination to greatly improve processing efficiency.





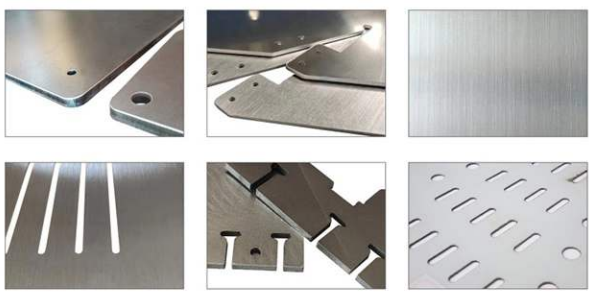
HIGHLIGHTS

- Heavily constructed machine main frame: welded, sand blasted, and powder coated
- First wide abrasive belt head for efficient burr removal, planetary abrasive barrel station for further deburring and edge rounding, another wide abrasive belt head for putting back the straight line graining (No.4 finish), and the polishing barrel for the final smooth touch.
- Full working width vacuum conveyor allows processing of small work pieces. Optional configuration: Full working width magnetic conveyor (for process ferrous parts only)
- Due to the working nature of the planetary abrasive barrel station, it targets mostly on edges, corners, and holes. There is only very minimum touch applied to the “flat surface”. Therefore, sheet with vinyl laser film can be processed by using planetary abrasive barrel station only. It will keep the surface finish under the film.
- User friendly touch screen interface. Easy hands-on and straightforward operation, LED light built-in for easy visual checks.
- Optional: Dust collector and vacuum generator can be built inside the machine’s under frame and top frame to save up the floor space

TECHNICAL DATASHEET

Maximum working width: 1000mm	Abrasive media: Abrasive barrel, wide abrasive belt, polishing barrel
Machine opening: 0-50mm	Quantity of workstation: 4
Conveyor feeding rate: 0.8-5m/min	Weight: 3000-4000kgs

GOOD FIT MATERIAL



SG1030-WJS

WET OPERATION SINGLE WIDE ABRASIVE BELT HEAD SANDING MACHINE

APPLICATIONS

Wet sanding process is friendly to heat sensitive materials that are easily deformable under heat. It is also a MUST HAVE for some special metals/alloys for preventing potential fire hazard. The cutting fluid/coolant is recyclable by a filtration unit that is couple to the machine. It will filter out metal particles and recycle the fluid back into the machine for reuse.

For finishing applications, wet operation also produces a finer and smoother surface comparing to dry working machines.



HIGHLIGHTS



- Wet operation to produce a finer and smoother surface
- Feed through type, parts batch processing
- Four pillar synchronized lifting conveyor table, high precision
- Patented wide abrasive belt automatic tracking system
- Automatic cutting fluid/coolant filtration and recycling unit
- Oil resistant and anti-erosion type conveyor belt
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped

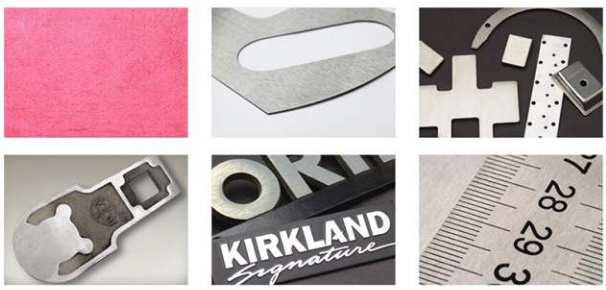
OPTIONAL CONFIGURATIONS

- The work stations are modular. For example, for finishing applications: configure the machine with multiple wide abrasive belt heads and polishing barrel stations
- The conveyor table can be configured to magnetic for processing small ferrous work pieces
- Machine working width available: 630mm, 1030mm, 1300mm, 1600mm, and etc
- Multiple machines to form a dedicated machine line for surface finishing and polishing applications



* Good fit materials

Aluminum alloys, magnesium alloys, titanium, zirconium, stainless steel, rubber, and other non-metal materials



* Common consumables

Wide abrasive belts in various types, sizes, and grits

TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 0.8-70mm
Conveyor speed: 2-9m/min	Weight: 1800KGS

SD300-WJS+3D

FINE DEBURRING AND EDGE ROUNDING MACHINE FOR PUNCHING, STAMPING, FINE BLANKING, FLAT MACHINING, AND POWDER METAL PARTS

APPLICATIONS

The machine is used for fine deburring and edge rounding process of punching, stamping, fine blanking, flat machining, and powder metal parts with minor burrs and sharp edges. It is most suitable for processing high volume punching, stamping, or fine blanking parts directly off the presses. Due to the heavy parts volume, this type of machines can be placed strategically right after the presses for minimum travel distances.





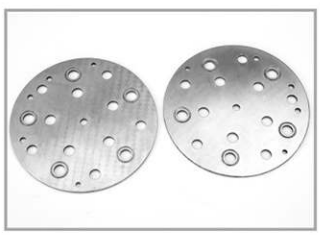
HIGHLIGHTS

- Work stations: combination of one wide abrasive belt head and three planetary disk brush stations. Each work station can be used individually or as combinations. Each work station has its own individual servo lifting
- Magnetic conveyor to process small ferrous parts
- Conveyor belt quick change design. By changing to a specific conveyor belt to accommodate parts with special humps/shapes, so the parts can sit flat
- Integrated PLC control
- High efficiency with minimum maintenance required
- Live load monitoring of each work station
- Automatic abrasive compensation (optional configuration)
- Oil mist separator (optional configuration)
- Automatic cutting fluid/coolant filtration and recycling unit

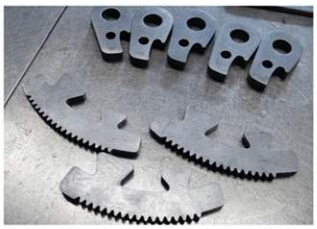


GOOD FIT MATERIALS









TECHNICAL DATASHEET

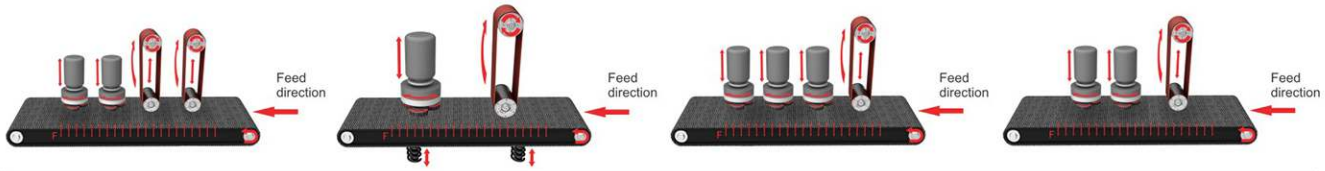
Maximum working width: 300mm	Disk brush diameter: ϕ165mm
Maximum working thickness: 200mm	Conveyor table height: 940mm
Conveyor speed: 1-5m/min	Wide abrasive belt size: 1900x300mm
Disk brush rotational speed: 150-1480r/min VFD	Planetary rotational speed: 10-50r/min VFD
Conveyor type: VFD variable speed control	Total power: 23kw
Weigh: 4500KGS	Machine dimensions: 4950x1450x2150mm

MORE MACHINE MODELS AVAILABLE (MODULAR DESIGN)

Various combinations of wide abrasive belt heads and planetary disk brush stations are available







SD300-JS+D

FINE DEBURRING AND EDGE ROUNDING MACHINE FOR PUNCHING, STAMPING, FINE BLANKING, FLAT MACHINING, AND POWDER METAL PARTS

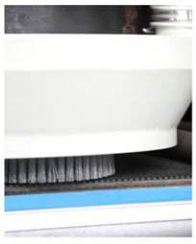
Applications: A simpler and dry operation version of SD300-WJS+3D.



HIGHLIGHTS

- Feed through type, parts batch processing
- Work stations: single wide abrasive belt head + single planetary disk brush station
- Work stations can be used together or individually
- Magnetic conveyor to process small ferrous parts
- Easy hands-on, straightforward operation, LED light built-in
- Compact floor layout







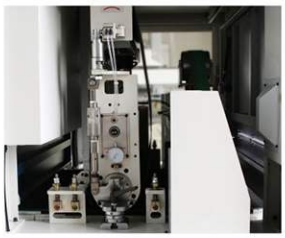
* **Good fit materials:** Ferrous materials

SG1030-NG+JS

COST EFFECTIVE DEBURRING, DE-SLAGGING, AND SURFACE SANDING MACHINE FOR LASER CUTTING PARTS

APPLICATIONS

The machine has a special work station configuration of one narrow abrasive belt head and one wide abrasive belt head. The two work station combination is to efficiently clean the parts coming off laser tables with molten slags, piercing slags, sharp edges. The narrow abrasive belt is mainly focused on the edges and contours only, with minimum touch/pressure applied to the “surface”. With such unique characteristic, the narrow abrasive belt will have a long lifespan. The wide abrasive belt then sweeps on the entire surface to further clean off leftover stubborn slags if there is any. It is also capable of general surface sanding and deep scratch removal.







HIGHLIGHTS

- Feed through type, parts batch processing
- Four pillar synchronized lifting conveyor table, high precision
- Patented wide abrasive belt automatic tracking system
- Minimum metal dust exposure with proper dust extraction system installed
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Patented magnetic conveyor with adjustable magnetic force







*** Common consumables**

Narrow and wide abrasive belts in various types, sizes, and grits

*** Good fit applications**

Steel parts batch processing after cutting

OPTIONAL CONFIGURATIONS

- Add a crossbelt station with de-slagging blocks so it can handle parts with heavier slags that comes off plasma and flame cutting tables.
- Add a crossbelt station with abrasive block to further round the edges of the work pieces.
- Form a production line that receives parts directly off laser tables.

TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 1-70mm
Conveyor speed: 1-5m/min	Weight: 2200KGS

SGP1000

DEBURRING, EDGE ROUNDING, AND SURFACE FINISHING MACHINE FOR LASER CUTTING PARTS

APPLICATIONS

Deburring, edge rounding, and surface finishing of parts coming off laser cutting/stamping/fine blanking/punching/shearing/waterjet cutting machines with sharp edges and minor-moderate burrs.

SGP1000 is equipped with two work stations. First the wide abrasive belt head is for surface sanding, vertical burr sand off, as well as surface finishing (No.4). The planetary abrasive barrel station is for further deburring and edge rounding. The overall operation is safe, light labour intensity, and minimum metal dust exposure to the operators. Full working width vacuum conveyor also grants the capability of processing small work pieces. To summarize, the machine is flexible, robust, easy hands-on, clean, safe, and great performance.







MORE MACHINE MODELS AVAILABLE (MODULAR DESIGN)

- SP1000 with only planetary abrasive barrel station is a good fit for processing softer metals such as copper and aluminum, as well as parts with decent cutting quality with minor burrs
- SGGP1000 with two sets of wide abrasive belt heads and planetary abrasive barrel station is a good fit for processing parts with heavier burrs, or high hardness metal alloy materials
- SPG1000 with planetary abrasive barrel station on the front and wide abrasive belt head on the back is for reproducing the straight line surface finishing after deburring and edge rounding process
- SGPG1000 with wide abrasive belt head + planetary abrasive barrel station + wide abrasive belt head
- SGPB1000 with wide abrasive belt head + planetary abrasive barrel station + polishing barrel station
- Optional configuration: magnetic conveyor table for ferrous metal work pieces



SP1000

HIGHLIGHTS

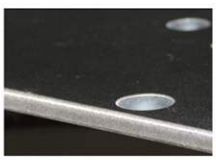
- Heavily constructed machine main frame: welded, sand blasted, and powder coated
- First work station wide abrasive belt head is used to sand down/off larger burrs. It is also capable of surface finishing such as No.4 finishing. Servo lifting is equipped to ensure precise height (thickness) adjustment
- Planetary abrasive barrel station: total of six abrasive barrels to cover the whole working width. Each two adjacent barrels rotate in opposite direction to ensure consistent and even touch/pressure to all edges, corners, and holes
- Full working width vacuum conveyor allows processing of small work pieces, 60x60mm and up (solid surface area)
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Due to the working nature of the planetary abrasive barrel station, it targets mostly on edges, corners, and holes. There is minimum touch/pressure applied to the “flat surface”. Therefore, sheet with vinyl film can be processed (using planetary abrasive barrel station only)
- Capable of processing minor profiled parts (depend on the shape, form height, and sizes. Using planetary abrasive barrel station only)
- Long life span of the consumables. Less replacement needed.
- Easy hands-on, straightforward operation, LED light built-in
- User friendly touch screen interface

GOOD FIT MATERIALS

* Steel, stainless steel, aluminum, copper, various alloys and etc
* Parts with vinyl films
* Parts that require heavily rounded edges (radius) before coating process







TECHNICAL DATASHEET

Maximum working width: 1000mm	Consumables: Wide abrasive belt, abrasive barrel
Working thickness range: 0-50mm	Quantity of abrasive barrels per set: 6
Conveyor speed: 0.8-5m/min	Weight: 4000KGS

SG1030-JS

SINGLE WIDE ABRASIVE BELT HEAD SANDING MACHINE: SIMPLE AND CLASSIC

APPLICATIONS

The wide abrasive belt head is a versatile work station that is capable of general surface sanding, surface finishing, burr removals, deep scratch removal, surface roughening, and etc.

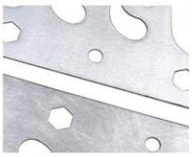
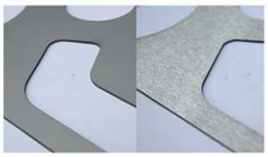


HIGHLIGHTS

- Simple and robust, dry operation, minimum maintenance required
- Feed through type, parts batch processing
- Four pillar synchronized lifting conveyor table, high precision
- Patented wide abrasive belt automatic tracking system
- Minimum metal dust exposure with proper dust extraction system installed
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped



* **Common consumables**
  Wide abrasive belts in various types, sizes, and grits
* **Good fit materials:** Steel, stainless steel, and etc.

TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 0.8-70mm
Conveyor speed: 2-9m/min	Weight: 1800KGS

OPTIONAL CONFIGURATIONS

The workstations are modular, for example ,for finishing applications:
configure the machine with multiple wide abrasive belt heads and polishing barrel stations
The conveyor table can be configured to vacuum or magnetic for processing small work pieces
Machine working width available: 630mm, 1030mm, 1300mm, 1600mm, and etc






SG630-3WB

WET OPERATION SURFACE FINISHING AND FINE POLISHING MACHINE

APPLICATIONS

This is a dedicated machine for wet operation surface finishing and fine polishing applications with three polishing barrel stations. It is most suitable for heat sensitive materials that is easily deformable under heat. It is also a MUST HAVE for some special metals/alloys for preventing potential fire hazard.



HIGHLIGHTS

- Wet operation, smooth and consistent surface finishing and polishing
- Feed through type, parts batch processing
- Four pillar synchronized lifting conveyor table, high precision
- Three polishing barrel stations. Each can work individually or as combinations
- Automatic cutting fluid/coolant filtration and recycling unit
- Oil resistant and anti-erosion type conveyor belt
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped

COMMON ABRASIVE MEDIAS FOR POLISHING BARREL

Dupont fiber type (SiC coated), Scotch Brite type, nonwoven fabric type, and etc.

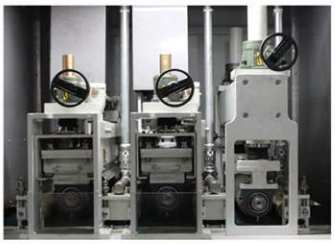
GOOD FIT MATERIALS

Aluminum alloys, magnesium alloys, titanium, zirconium, stainless steel, rubber, and other non-metal materials

TECHNICAL DATASHEET

Maximum working width: 600mm	Working thickness range: 0.8-50mm
Conveyor speed: 2-9m/min	Polishing barrel width: 630mm





SG1030-3TB

DE-SLAGGING AND EDGE ROUNDING MACHINE

APPLICATIONS

De-slagging and edge rounding of parts coming off plasma, high power laser, flame cutting machines with slags and dross.

Equipped with Jonsen patented carousel type crossbelt station which features “one belt two passes” processing. This particular machine has 1000mm working width, and is equipped with three crossbelt stations. The first two of the three crossbelts are mounted with numerous of high hardness anti-wear metal alloy pin blocks. The rotating crossbelts basically mimic the motion of “hammering and chiseling” off the slags. The third crossbelt is mounted with abrasive blocks that is made of dense sand paper and Scotch Brite flaps. It further cleans and rounds the edges and holes so it is not sharp.





HIGHLIGHTS

- Feed through type, parts batch processing
- Magnetic conveyor with adjustable magnetic force to accommodate work pieces with difference sizes and weights
- Minimum metal dust exposure with proper dust extraction system installed
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped

* **Common consumables**
Pin blocks, abrasive blocks

WORKSTATION CONFIGURATION IS FLEXIBLE. VARIOUS OF TYPES CONSUMABLES ARE AVAILABLE









* **Good fit materials:** Steel parts batch processing after cutting







TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 5000KGS

SG1300-3TB+B

DOUBLE SIDE DE-SLAGGING AND EDGE ROUNDING MACHINE

APPLICATIONS

Double side de-slagging and edge rounding of parts coming off plasma, high power laser, flame cutting machines with slags and dross.

Equipped with Jonsen patented carousel type crossbelt station which features "one belt two passes" processing. This particular machine has 1300mm working width, and is equipped with three "top and bottom" crossbelt stations. Hence parts' both top and bottoms sides can be processed simultaneously. The first two of the three crossbelt stations are mounted with numerous high hardness anti-wear metal alloy pin blocks. The rotating crossbelts basically mimic the motion of "hammering and chiseling" off the slags. The third crossbelt is mounted with abrasive blocks that is made of dense sand paper and Scotch Brite flaps. It further cleans and rounds the edges and holes so it is not sharp.





HIGHLIGHTS

- Double side processing, hence heavy parts after cutting (slags facing down) does not need to be flipped
- Feed through type, parts batch processing
- Heavy duty pinch rollers to ensure parts firmly clamped while feeding
- Minimum metal dust exposure with proper dust extraction system installed
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Workstation configuration is flexible. Various of types consumables are available



* **Common consumables**
Pin blocks, abrasive blocks

AUTOMATED MACHINE LINE EXAMPLE

Main machine, automated material handling including loading, off-loading, and extension conveyors



GOOD FIT MATERIALS

Steel parts batch processing after cutting





TECHNICAL DATASHEET

Maximum working width: 1300mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 7800KGS

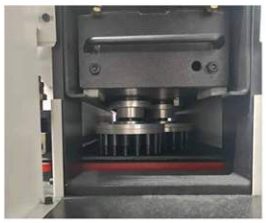
SG1030-2D+JS+D

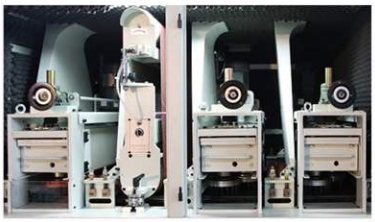
SIMPLE AND ROBUST DE-SLAGGING, EDGE ROUNDING, AND SURFACE SANDING MULTI-WORK STATION MACHINE

APPLICATIONS

De-slagging and edge rounding of parts coming off plasma, high power laser, flame cutting machines with slags and dross. Also capable of general surface sanding and finishing by the wide abrasive belt head.

Total four work stations: two oscillating disk brush stations that are mounted with high hardness anti-wear metal alloy pin type de-slagging disks, one wide abrasive belt head, and one oscillating disk brush station with general abrasive disks.







HIGHLIGHTS

- Dry operation, simple and robust, minimum maintenance required
- Feed through type, parts batch processing
- Each work station can be used individually or as a few different combinations to achieve specific results/applications
- Easy hands-on, straightforward operation, LED light built-in
- Minimum metal dust exposure with proper dust extraction system installed

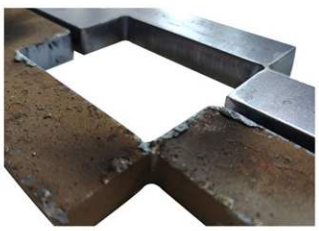


TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 5000KGS

GOOD FIT MATERIALS





OPTIONAL CONFIGURATIONS

Magnetic conveyor with adjustable magnetic force to accommodate work pieces with difference sizes and weights





SG1600-3TB+B

DOUBLE SIDE DE-SLAGGING AND EDGE ROUNDING MACHINE

APPLICATIONS

Double side de-slagging and edge rounding of parts coming off plasma, high power laser, flame cutting machines with slags and dross.

Equipped with Jonsen patented carousel type crossbelt station which features “one belt two passes” processing. This particular machine has 1600mm working width, and is equipped with three “top and bottom” crossbelt stations. Hence parts’ both top and bottoms sides can be processed simultaneously. The first two of the three crossbelt stations are mounted with numerous high hardness anti-wear metal alloy pin blocks. The rotating crossbelts basically mimic the motion of “hammering and chiseling” off the slags. The third crossbelt is mounted with abrasive blocks that is made of dense sand paper and Scotch Brite flaps. It further cleans and rounds the edges and holes so it is not sharp.





HIGHLIGHTS

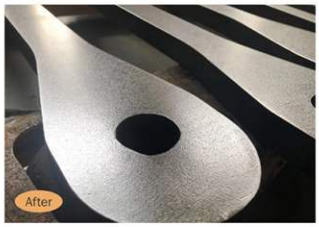
- Double side processing, hence heavy parts after cutting (slags facing down) does not need to be flipped
- Feed through type, parts batch processing
- Heavy duty pinch rollers to ensure parts firmly clamped while feeding
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Workstation configuration is flexible. Various of types consumables are available.
- User friendly control interface. Automated material handling system can be customized
- Minimum metal dust exposure with proper dust extraction system installed



GOOD FIT MATERIALS

Steel parts batch processing after cutting





*** Common consumables**

Pin blocks, abrasive blocks

TECHNICAL DATASHEET

Maximum working width: 1600mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 10000KGS

SG1030-3TB+B / SG2400-3TB+B

AUTOMATED DOUBLE SIDE DE-SLAGGING AND EDGE ROUNDING MACHINE LINE FOR INDUSTRY 4.0 MANUFACTURING PLANTS

APPLICATIONS

After cutting, all parts will first be going through a sorting process. They will be sorted into several categories based on the sizes, and finally processed by a couple of de-slagging machines. Each machine targets on a specific part size to achieve maximum working efficiency. For example, SG1030-3TB+B is aimed for “small” parts, and SG2400-3TB+B is aimed for “large” parts.



All the parts with different sizes will be randomly loaded on (either by human or by automation) a conveyor first. Along this conveyor, there will be multiple robotic arms that are visually guided to grab and sort the parts, and distribute them into a few second stage conveyors (for example if there are two de-slagging machines, there will be two second stage conveyors) that will feed the parts to the de-slagging machines.

Equipped with Jonsen patented carousel type crossbelt station which features “one belt two passes” processing. The two machines have 1000mm and 2400 mm working widths respectively, and with the same workstation configurations. Each is equipped with three “top and bottom” crossbelt stations. Hence parts’ both top and bottoms sides can be processed simultaneously. The first two of the three crossbelt stations are mounted with numerous high hardness and anti-wear metal alloy pin blocks. The rotating crossbelts basically mimic the motion of “hammering and chiseling” off the slags. The third crossbelt is mounted with abrasive blocks that is made of dense sand paper and Scotch Brite flaps. It further cleans and rounds the edges and holes so it is not sharp.

FOR “SMALL” PARTS PROCESSING



HIGHLIGHTS

- Heavily constructed machine main frame: welded, sand blasted, and powder coated
- Unique sectional conveyor design for double side processing
- Feed through type, parts batch processing
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Workstation configuration is flexible. Various of types consumables are available
- Minimum metal dust exposure with proper dust extraction system installed
- Common consumables: pin blocks, abrasive blocks
- 1300mm and 1600mm working width can be configured

* Optional configurations

Add a triangular narrow abrasive belt head specifically for processing high power laser cutting parts with hard and molten slags.



TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 10000KGS

FOR “LARGE” PARTS PROCESSING

HIGHLIGHTS

- Heavily constructed machine main frame: welded, sand blasted, and powder coated
- Feed through type, parts batch processing
- Heavy duty pinch rollers to ensure parts firmly clamped while feeding
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Workstation configuration is flexible. Various of types consumables are available
- Minimum metal dust exposure with proper dust extraction system installed
- Common consumables: pin blocks, abrasive blocks

2400mm or wider working width can be configured







TECHNICAL DATASHEET

Maximum working width: 2400mm	Working thickness range: 3-80mm
Conveyor speed: 1-5m/min	Weight: 13000KGS

SG1030-JS+D

WIDE ABRASIVE BELT HEAD + OSCILLATING DISK BRUSH STATION MACHINE

APPLICATIONS

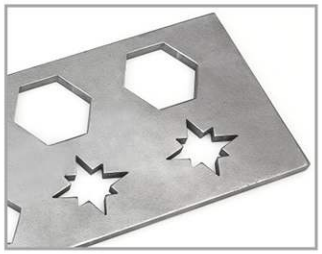
General surface sanding, surface finishing, deburring, and edge rounding. A versatile and flexible machine for every fabrication shop.



HIGHLIGHTS

- Simple and robust, dry operation, minimum maintenance required
- Feed through type, parts batch processing
- Wide abrasive belt head for surface finishing and sanding off large burrs; oscillating disk brush station for further deburring and edge rounding
- The two work stations can be used individually or together
- Easy hands-on, straightforward operation, LED light built-in
- Minimum metal dust exposure with proper dust extraction system installed





*** Good fit materials**

Steel, stainless steel, and etc.

OPTIONAL CONFIGURATIONS

- The conveyor table can be configured to vacuum or magnetic for processing small work pieces
- Additional wide abrasive belt head can be configured for heavy duty sanding/grinding applications
- Combinations of wide abrasive belt heads and polishing barrel station for fine surface finishing applications
- Combinations of wide abrasive belt heads, oscillating disk brush stations, and polishing barrel stations for versatile applications
- Standard size up to 1280mm working width. Wider model can be customized.

TECHNICAL DATASHEET

Maximum working width: 1000mm
Working thickness range: 1-80mm
Conveyor speed: 2-9m/min
Disk brush quantity per station: ϕ165mm/7pieces
Abrasive medias: DuPont fiber (SiC coated) type brush, Scotch Brite + sand paper type brush, wide abrasive belt
Oscillating disk brush station main motor: 7.5kw
Wide abrasive belt head main motor: 11kw
Machine dimension: 1800x2300x2000mm
Weight: 2800KGS

SG1030-WJS+DB

WET OPERATION SURFACE FINISHING, POLISHING, DEBURRING, AND EDGE ROUNDING MACHINE

APPLICATIONS

It is a multi-work station machine for wet operation surface finishing, polishing, deburring, and edge rounding applications. Wet operation is friendly to heat sensitive materials. It is also a MUST HAVE for some special metals/alloys for preventing potential fire hazard.

Work stations are modular design, can be configured in various combinations for different applications such as finishing, polishing, deburring, and edge rounding. This machine has a wide abrasive belt head, an oscillating disk brush station, and a polishing barrel station



HIGHLIGHTS

- Feed through type, parts batch processing
- Three work stations. Wide abrasive belt head for surface finishing and sanding off vertical burrs; oscillating disk brush station for further deburring and edge rounding; polishing barrel station for fine polishing
- Each work station can be used individually or as a few different combinations to achieve specific results / applications
- Easy hands-on, straightforward operation, LED light built-in
- Automatic cutting fluid/coolant filtration and recycling unit

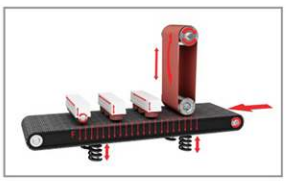




OPTIONAL CONFIGURATIONS

- Multiple sets of oscillating disk brush stations for more efficient deburring process and improve surface roughness
- Additional wide abrasive belt heads can be configured for heavy duty sanding/grinding applications
- Combinations of wide abrasive belt heads and polishing barrel stations for surface finishing applications such as No.4 and Hairline (HL) finishings
- Standard size up to 1280mm working width. Wider model can be customized.
- Standard configuration up to 4 work stations. More work stations can be customized
- Wet type vacuum conveyor table for processing small work pieces
- Magnetic conveyor table for processing small ferrous work pieces





*** Good fit materials**

Aluminum alloys, magnesium alloys, titanium, zirconium, stainless steel, rubber, and other non-metal materials

TECHNICAL DATASHEET

Maximum working width: 1000mm
Working thickness range: 1-80mm
Conveyor speed: 2-9m/min
Disk brush quantity per station: ϕ165mm/7pieces
Abrasive medias: DuPont fiber (SiC coated) type disk brush, Scotch Brite + sand paper type disk brush, wide abrasive belt
Oscillating disk brush station main motor: 7.5kw
Wide abrasive belt head main motor: 11kw
Polishing barrel station main motor: 7.5kw
Weight: 3500KGS

SG1300-WJS

WET OPERATION HEAVY DUTY RECIPROCATING TYPE PRECISE GRINDING, POLISHING, AND STOCK REMOVAL MACHINE

APPLICATIONS

The machine is specifically for heavy duty precise grinding, polishing, and stock removal applications of titanium, stainless steel, thick steel plate, and other special metals such as molybdenum alloy.

A single wide abrasive belt head is rigidly constructed on the machine gantry frame with heavy power delivered to the contact roller, hence driving the wide abrasive belt.

The conveyor rollers run in a reciprocating manner, in both directions. Therefore the parts can be fed through the machine multiple passes (the number of passes is programmable). The cutting rate/pressure is adjustable based on the type of material and operator's experience.







HIGHLIGHTS

- Wet operation, minimum deformation, finer surface quality
- Heavy duty pinch rollers to secure and "clamp" the parts firmly while processing
- A special bottom roller, Billy roller, is utilized underneath the main contact roller for optimum performance.
- Minimum working thickness: 0.5mm
- Main contact roller is equipped with Jonsen patented servo lifting system. It utilizes Mitsubishi servo systems to reach a excellent precision of ±0.01mm
- Multiple stage filtration and recycling system (can be customized)
- Wide abrasive belt change-over assisting tool/hanger
- Self cleaning/spraying function inside the machine chamber
- Programmable Mitsubishi control interface with live load monitoring
- Fixed conveyor table design to allow easier automation such as extension conveyors, material handling systems, and etc.

TECHNICAL DATASHEET

Maximum working with: 1280mm	Working thickness range: 0.5-70mm
Conveyor speed: 2-14m/min	Wide abrasive belt size: 1300x2620mm
Machine dimensions: 2050x2000x2500mm	Weight: 10000KGS

SG1650-WJS+B

WET OPERATION SURFACE FINISHING, SURFACE POLISHING, PRECISE STOCK REMOVAL MACHINE FOR EXTRA WIDE WORK PIECES

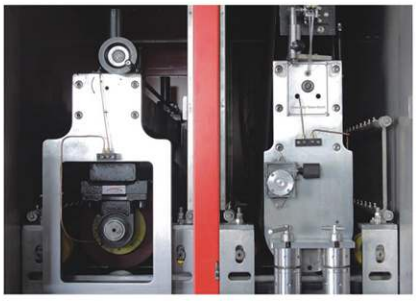
APPLICATIONS

There are two types of applications for this machine. The first one is surface finishing and polishing application for decorative purposes. The second one is functional application such precise stock removal, specific surface roughness requirement, and etc. The machine is used for processing extra wide work pieces and complete sheets such as large scale elevator panels, kitchenware panels, and etc. Wet operation is friendly to heat sensitive materials that are easily deformable under heat. It is also a MUST HAVE for some special metals/alloys for preventing potential fire hazard.

HIGHLIGHTS

- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Heavy duty construction machine frame
- Roller type conveyor for robust and precision feeding
- Synchronized conveyor lifting (if equipped with extension conveyors)
- Automatic cutting fluid/coolant filtration and recycling unit
- Conveyor can be configured to reciprocating type
- Machine working width available: 1300mm, 1650mm, 1900 and etc.





* **Optional configurations**

Various of combinations of wide abrasive belt heads and polishing barrel stations

TECHNICAL DATASHEET

Maximum working width: 1580mm
Minimum working length: 700mm
Working thickness range: 0.5-40mm
Conveyor speed: 2-18m/min
Total power: 97.5kw
Wide abrasive belt dimension: 1650x2620mm
Machine dimensions: 3500x3300x2260mm
Weight: 8000KGS

SG1950-4WJS

WET OPERATION RECIPROCATING TYPE PRECISE GRINDING, POLISHING, AND STOCK REMOVAL MACHINE

APPLICATIONS

The machine is equipped with four heavy duty gantry frame type wide abrasive belt heads for precise grinding, polishing, and stock removal processes in a reciprocating manner, in both directions.

The work pieces will be placed, and fixed on the working table by means of either locating pins, clamping tools, vacuum, or magnetic tables. The working table is sitting on linear guides and driven by high precision ball screw mechanism for stable and consistent moving rate. The working table moves in a reciprocating manner, therefore the work pieces can be processed multiple passes back and forth until the desired result is achieved.







HIGHLIGHTS

- Gantry type: each wide abrasive belt head has its own “sub frame”. Each head has its individual servo lifting for maximum precision control
- A combination of wide abrasive belt heads can be used for different applications. Each head can be used individually or in various of combinations
- Wet operation, minimum deformation, finer surface quality
- Multiple sets of spray nozzles and air knifes at machine’s infeed and outfeed ends
- Programmable stock removal rate
- Precision accuracy: +/- 0.02 mm
- Multiple stage filtration and recycling system (can be customized)
- Wide abrasive belt change-over assisting tool/hanger
- Self cleaning/spraying function inside the machine chamber
- Multiple sets of coolant nozzles are equipped for each wide abrasive belt head





TECHNICAL DATASHEET

Maximum working width: 630/1000mm/1300mm/1600mm/1900mm(Optional)
Maximum working length: 3000mm
Maximum working thickness: 100mm
Precision accuracy: ±0.02mm

Smaller scale machine with single wide abrasive belt head available: SG630-WJS-L

SG1300-JS/SG1300-2JS

STAINLESS STEEL SHEET/COIL TO COIL SURFACE FINISHING LINE

APPLICATIONS

Fine surface finishing process for stainless steel sheet/coil to coil applications. For such production line, a special additive oil is typically added as assistant fluid for finer surface finishing result. Benefits of oil sanding: sheet surface is better smoothened, and it becomes more anti-rust. A complete production line will consist of extension conveyors, main machines for No.4 finishing and Hairline (HL) finishing, degreasing machine, rinsing and drying machine, laminating machine, and etc. Double side processing can also be achieved.



For coil to coil production lines, decoiler, rewinder, and levelling machines can be integrated.



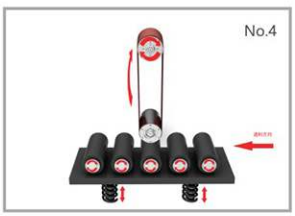
SG1300-JS



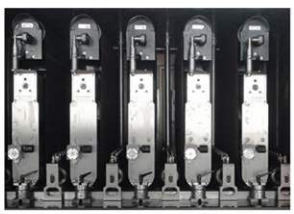
SG1300-2JS

HIGHLIGHTS

- No.4 finishing machine and Hairline (HL) finishing machine
- Large diameter contact rollers for finer surface finishing result
- Essential rollers are properly balanced, high rotational speed rated bearings are equipped
- Patented wide abrasive belt automatic tracking system
- All drive and pinch rollers are rubber coated
- Efficient degreasing, hot water rinsing, tap water rinsing, and drying process, so all the work pieces come out dry and clean
- Multiple coolant spray nozzles for each wide abrasive belt head
- Production live monitoring









规 格

Maximum working width: 1300/1600/2100mm
Conveyor speed: 2-18m/min
Working thickness range: 0.5-40mm
Wide abrasive belt circumference: 2620mm
Applications: No.4 short parallel straight line / Hair line (HL) long straight line

SG2500-2

DOUBLE BELT STROKE SANDER FOR BOX, ENCLOSURE, AND PANEL SURFACE FINISHING AND POLISHING

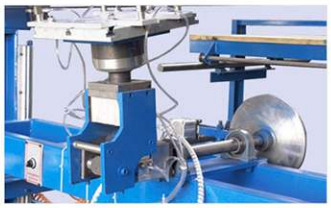
APPLICATIONS

SG2500-2 is a dedicated machine for box, enclosure, and panel surface finishing (No.4, Hairline, and etc.) applications. It is also capable of sanding down weld bead, deep scratch removal, fine polishing and etc.



HIGHLIGHTS

- Double belt stations, various abrasive medias and grit sizes available
- Double interchangeable loading decks: 1. rotational vacuum cup 2. flat deck
- Unique design of contact rollers/pressure pads for different applications
- Abrasive belt main motor is equipped with VFD, rotational speed is adjustable





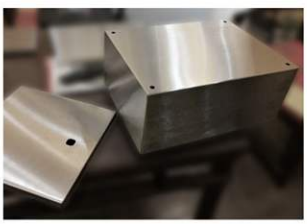


*** More machine models**

SG3800-2: extra wide model with automation

TECHNICAL DATASHEET

Maximum working width: 1500mm	Dust extraction requirement: 3000m^3/h
Maximum working length: 2500mm	Total power: 12kw
Maximum working height/thickness: 600mm	Abrasive belt size: 9000x100mm
Compressed air: 0.6mpa	Weight: 3500KGS
Machine dimensions: 4350x4200x2350mm	



*** Good fit applications**

Electrical cabinets, electrical enclosures, wide door frames, stainless steel panels, and etc.

SD-H

FLEXIBLE MANUAL SWING ARM DEBURRING, EDGE ROUNDING, SANDING MACHINE WITH VACUUM TABLE

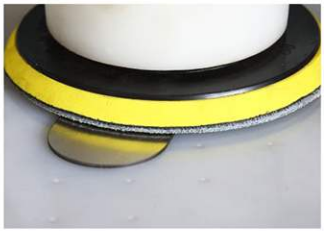
APPLICATIONS

Small batch parts processing. The SD-H is a better substitute of DA sanders, orbital sanders, and other hand held grinders, and etc. It is safer for operators, substantially less stressful on operator's hands, and in the meantime higher efficiency. With numerous types of abrasive medias available, it is a flexible fit for parts coming off laser cutting/stamping/fine blanking/punching/shearing/waterjet cutting machines with sharp edges and minor-moderate burrs.











HIGHLIGHTS

- Air spring supported working head provides a "zero gravity" feel to the operators. The head hovers over the working table, therefore the operator only needs to apply a slight downward pressure to lower it to the work pieces.
- Partial vacuum area, 330x300mm. Simply place the parts over the vacuum area, strong down draft force will hold the parts in place for safe processing.
- Different abrasive medias available for different applications.
- A single motor drives two abrasive medias on the two ends of the motor. Typically one is disk brush and one is Velcro pad to mount the sanding pad. The head is rotational, up to 180° with locating pins 45° apart
- The swing arm has a wide working span for extra large work piece up to 1500x1500mm



TECHNICAL DATASHEET

Vacuum area: 330x300mm
Main motor power: 0.75kw
Working table size: 1000x800mm
Number of working head: 2
Maximum working size (off the table): 1500x1500mm
Dust extraction requirement: 1000m^3/h
Swing arm span: 1500mmx360°
Total power: 4.05kw
Working thickness range: 1-150mm
Machine dimensions: 1700x1000x1700mm

SGGB1000

DEBURRING AND EDGE ROUNDING MACHINE FOR LASER CUTTING PARTS

APPLICATIONS

Two common models below:

1. SGGB1000: deburring, edge sanding, surface sanding, and edge rounding of laser cutting part with sharp edges, and minor-moderate burrs.

2. SGB1000: deburring, edge sanding only, and edge rounding of laser cutting part with sharp edges, and minor-moderate burrs.



SGB1000



SGGB1000

HIGHLIGHTS

- Feed through type, parts batch processing
- The combination of both narrow and wide abrasive belt heads efficiently sands off burrs along the edges, contours, and holes, as well as removes surface scratches/imperfections, and general surface sanding. The crossbelt station with abrasive blocks will further clean and round the edges.
- Each work station can be used individually or as a few combinations for different applications
- Magnetic conveyor to process small ferrous parts
- Simple and straightforward operation, easy hands-on
- Compact floor layout





Combo with: Wet type dust collector

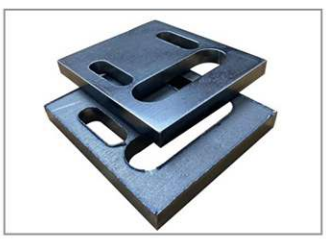


* **Good fit materials:** Steel parts batch processing after cutting









More machine models available (modular design)

SGB1000: Narrow abrasive belt head + crossbelt station with abrasive blocks. The characteristic of narrow abrasive belt is that it targets mostly on the edges and contours with very minimum touch/pressure to the entire surface. Therefore it saves extensively on the abrasive belt. It is a good trait for customer whose application does not need parts whole surface sanded

TECHNICAL DATASHEET

Maximum working width: 1000mm	Working thickness range: 0-80mm
Conveyor speed: 1-5m/min	Weight: 3500KGS

JONSEN AFTER CUTTING SYSTEM

APPLICATIONS

Jonsen after cutting system is a great fit for customers who routinely process bulk order plasma cutting, high power laser cutting, and flaming cutting parts(medium-thick work pieces) with minimum human intervention required.

Besides the main de-slagging machines, a smart material handling system which is capable of automatic parts loading and unloading is an integral part of “Jonsen after cutting system”. The gantry type robotic arm with suction/magnetic cup assembly will pick up raw parts from “raw pallets” and load them on the infeed conveyor. The parts will then be fed into the main machine for de-slagging/deburring, and edge rounding processing. Afterwards, the parts will be fed out to the outfeed conveyor. While moving, all parts will be marked and analyzed by the visual system, and finally get picked up by the robotic arm(s), and re-stacked on the “finished pallets”.

The visual system is capable of multiple working logics. It handles complex working scenarios, such as multiple types of work pieces that come in random positionings.

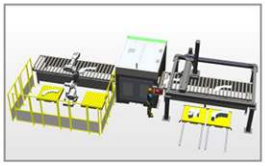
Furthermore, multiple sets of robotic arms can be integrated along the outfeed conveyors to greatly increase the working efficiency.

For loading, the gantry type robotic arm with suction/magnetic cup assembly is capable of grabbing multiple work pieces at a time, hence higher efficiency.

The load capacity can be customized to meet each customer’s requirement.

Manual de-slagging, deburring, and edge rounding are tedious and hazardous work for human operators. Jonsen after cutting system is an intelligent and turnkey solution to minimize manual labour for this type of work. We believe such automated machine line that requires minimum operator’s attention is a long term trend.







TECHNICAL DATASHEET

Maximum working width: 1300mm	Visual area: 1300*1300mm
Visual resolution: 0.6mm/pixel	Restacking accuracy: ±3mm
Working cycle: ⩽10s/pc	Gantry load: ⩽1000kg

WE CHOOSE TOP QUALITY CONSUMABLES!

A good machine needs matching quality consumables to achieve the best performance!

Jonsen Sander started off as a wide abrasive belt manufacturer. Since then, we've never stopped exploring in the consumable world. We design and apply new designs in our machines, and always try to improve them further. We design and try out prototypes non-stop, version 1, version 2, version 3... Therefore, we know about our machines and consumables!

In the meantime, we work strategically with reputable suppliers all over the world!

STRATEGIC PARTNERS IN CONSUMABLES, IN NO PARTICULAR ORDER

3M Science. Applied to Life.™ — 3M, USA

HERMES for an excellent finish — Hermes, Germany

VSM WE KNOW ABRASIVES — VSM, Germany

KLINGSPOR — Klingspor, Germany

SHARPNESS — Sharpness, China

NCA — NCA, Japan

JONSEN CONSUMABLES

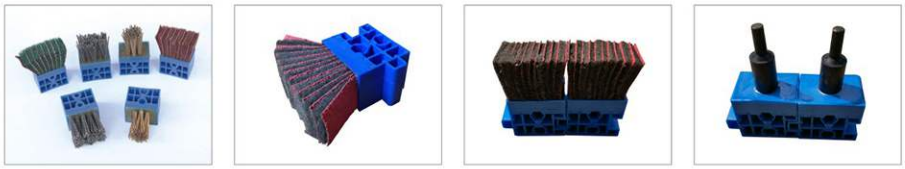
We supply consumables that covers Jonsen Sander's full product line, including applications such as deburring, edge rounding, de-slagging, finishing, polishing, precision grinding, stock removal and etc



Wide and narrow abrasive belts available in various brands, types, grits, and sizes



Polishing and finishing barrels available in various brands, types, grits, and sizes



Jonsen patented crossbelt available in various types, and grits



Disk brush types: DuPont fiber (SiC coated), sand paper and Scotch Brite, wire brush, metal alloy pin (de-slagging), Velcro pad, and etc



Abrasive barrels available in various types, and grits



Jonsen patented crossbelt available in various types, and grits



JONSEN SANDER'S MACHINES ARE ON ACTIVE SERVICES ACROSS INDUSTRIES ALL OVER THE WORLD

大明 ZOOMLION 中联重科 SUNWARD 山河智能 FOXCONN 富士康科技集团 伟创力集团 FLEXTRONICS DSBJ 苏州东山精密制造股份有限公司 CETC 中国电子科技集团有限公司

XCMG 徐工集团 三一集团 DINGLI Ascend New Height LuXshare 立訊精密工業 BAOTi SIEMENS 西门子 HOERBIGER

中国航天科技集团公司 郑煤机 兖矿集团 YANKUANG GROUP CSIC 中船重工 国机集团 SINOMACH MESSER Gases for Life Sodick

WW automotive 有研总院 GRINM 北京精雕 BEIJING JINGDIAO 比亚迪汽车 Lawrence 西发 发动机零部件专业制造商 哈电集团

天津汽车模具股份有限公司 昆船 KSEC AT&M 安泰科技 中航沈飞股份有限公司 AVIC SHENYANG AIRCRAFT COMPANY LIMITED 宁夏东方钽业股份有限公司 NINGXIA ORIENT TANTALUM INDUSTRY CO., LTD 西部材料

中国兵器工业集团 内蒙古第一机械集团有限公司 INNER MONGOLIA FIRST MACHINERY GROUP CO.,LTD. 中国兵器工业集团 西北工业集团有限公司 NORTH INDUSTRIES GROUP FINANCE COMPANY LTD. 北京机电研究所有限公司 BRIMET Beijing Research Institute of Mechanical & Electrical Technology 中国航天 上海航天技术研究院 Shanghai Academy of Spaceflight Technology

The above Jonsen Sander's customers are in no particular order



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