



**SPECIALIST
MACHINERY
SALES**

AUSTRALIA, NEW ZEALAND & SE ASIA

THOUGHT-LEADER IN STEEL PROCESSING AUTOMATION

SUPERIOR MACHINERY SYSTEMS PRELOVED ARKU DEBURRING MACHINE EDGEBREAKER 4000 PLUS



1300 262 123 / +61 8 6500 6880



**tellmore@smsales.com.au
www.SMSales.com.au**





DISCLAIMER

All the information provided herein is derived from the original quote presented to the previous owner and reflects the machine's specifications and history at the time of sale. The terms and conditions apply only to that transaction.

The machine is offered ex-stock Queensland, and the price shall be determined upon reviewing the relevant documentation. The technical information presented pertains specifically to the exact machine on offer, and an operating manual will be provided upon purchase.

Maintenance History

Routine maintenance has been performed as per the servicing charts in the Arku manual (pg 118). However, some frequent services may not have been completed regularly due to the machine's limited use. Maintenance performed includes:

- Cleaning out/blowing out
- Greasing via grease nipples
- Checking and lubricating chain tension
- Checking tension springs (brush belt tension)
- Cleaning filters (oil, water, dust)

Upgrades

The machine has undergone significant upgrades to enhance its performance:

- V pulleys and brush belts were replaced and standardised with more modern designs, featuring 4 horizontal grooves instead of 8, increasing the machine's capacity.
- Idle wheels were improved by replacing metal ones with additional rubber wheels.
- Brushes may also have been replaced as part of the upgrade process.

Software and Technician Involvement

- Software Upgrades: No recent software upgrades have been performed.
- Technician Involvement: Upgrades were completed by Arku technician Tim Karch, as noted by Justin Marr. Documentation, including invoices for this work, is available to substantiate the enhancements and add value to the price being offered to the buyer.

The information provided is accurate to the best of our knowledge, based on the original quote and documentation. Buyers are encouraged to review all details thoroughly and verify information as needed prior to purchase.



ACTUAL PHOTOS OF THE MACHINE





ACTUAL PHOTOS OF THE MACHINE



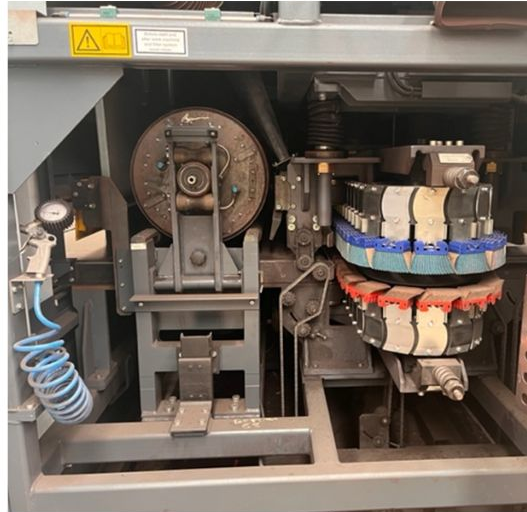


INSIDE OF THE MACHINE



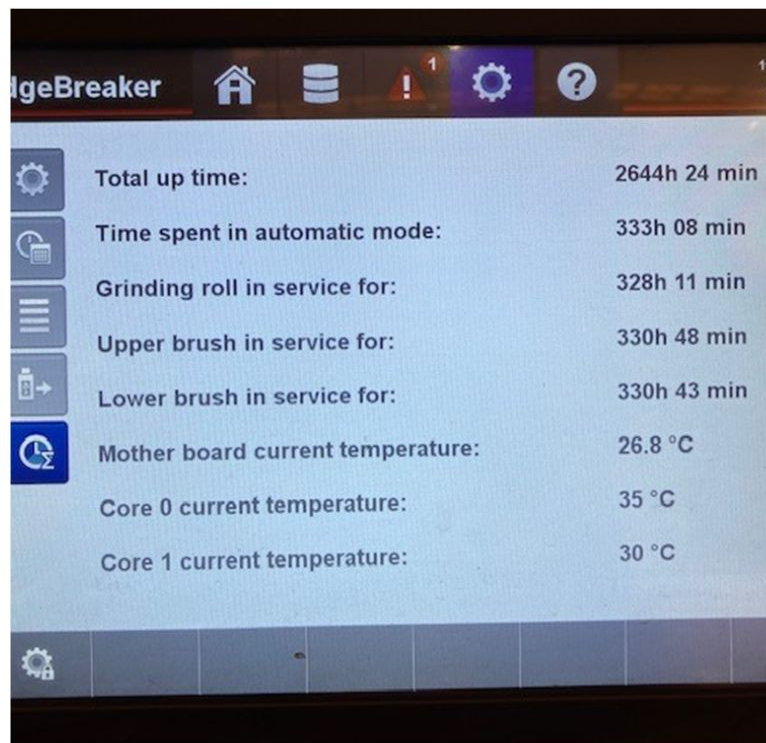
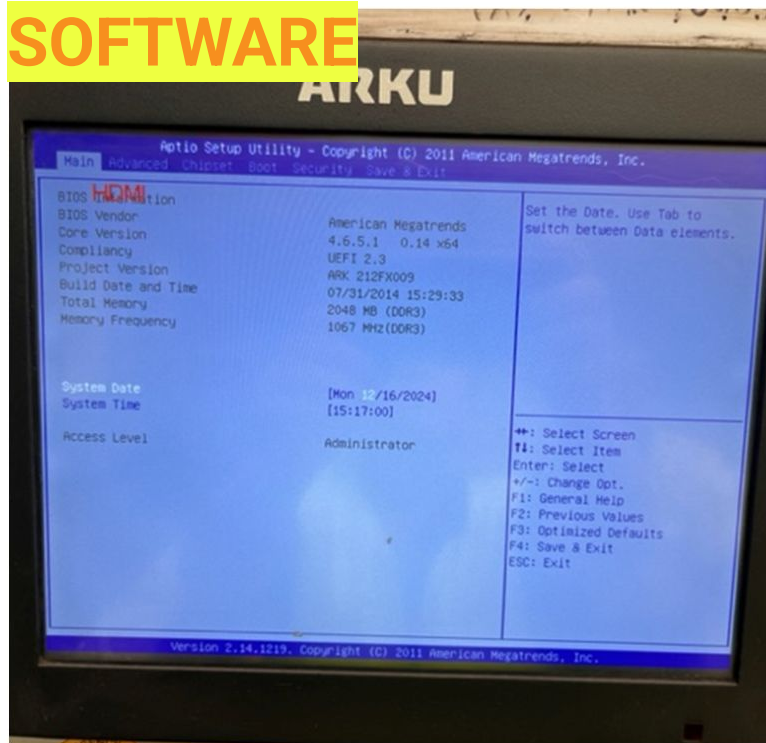


INSIDE OF THE MACHINE



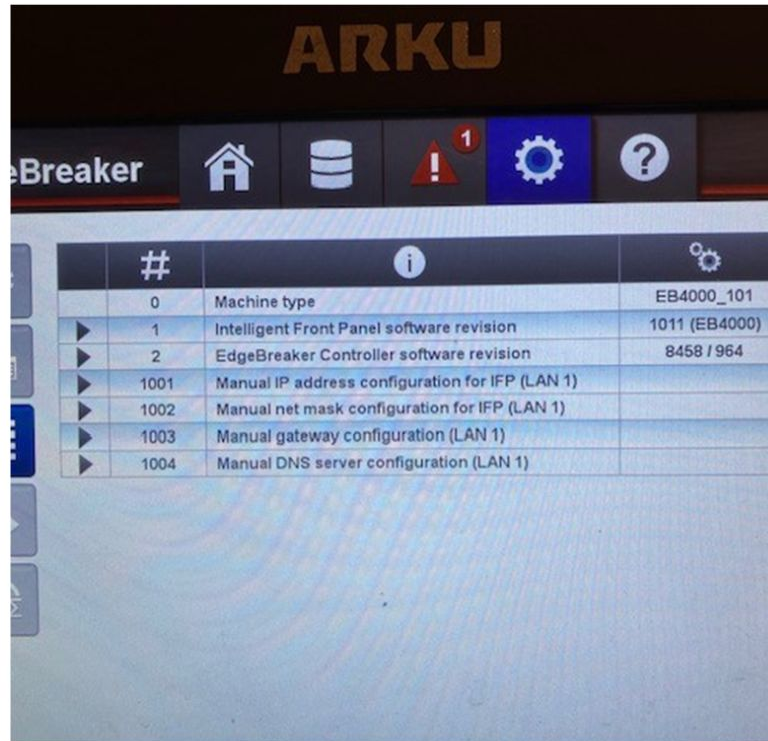


SOFTWARE





SOFTWARE





PARTS





SAMPLE PROFILES





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MACHINE OVERVIEW

The EdgeBreaker® 4000 is a highly specialised deburring machine designed to tackle the most challenging post-cutting tasks, particularly in plasma and flame cutting (oxyfuel) applications. Its core strength lies in its powerful grinding drum, which is engineered to handle heavy burrs and slag with remarkable efficiency. The drum's unique ability to flex slightly around the material ensures that even hard-to-reach corners are addressed, providing a thorough and consistent finish. This capability makes the EdgeBreaker® 4000 an ideal solution for processing plasma and flame-cut parts, as well as metal plates up to 100 mm thick—delivering clean, smooth edges that enhance both safety and quality.

One of the key advantages of the EdgeBreaker® 4000 is its adaptability. The machine's second unit can be equipped with various tools, depending on the specific requirements of the job. Operators can choose between grinding blocks for more aggressive material removal or deburring blocks for finer edge finishing. This level of customisation allows the EdgeBreaker® 4000 to be tailored to individual operational needs, making it a highly flexible solution in environments where processing requirements frequently change.

Whether dealing with a variety of materials or different levels of post-cut treatment, the EdgeBreaker® 4000 maintains optimal performance without compromising on quality or efficiency.





TECHNICAL DATA

Material	with dry dust collection: steel, stainless steel, copper and various alloys with we dust collection: aluminum
Surface condition	non-oil-treated flat-rolled products
Material thickness	deburring unit: from 3 up to 80 mm rounding unit: from 0,8 to 800 mm
Max. passageway width	1.300 mm
Min. dimensions	40 x 150 mm
Max. part weight	250 kg/m
How parts are fed	manually or by optional transport conveyor belts
Pass height	940 mm (+/- 30 mm adjusted)
Pass direction	from left to right



TECHNICAL DATA

Feed rate	0,2 – 6 m/min
Electrical parameters	3 x 40 VAC / 50 Hz
Power	25 kW
Power supply	63 Amps
Ambient temperature	10°C to 40°C
Relative air humidity	less than 80 %
Color	RAL 7024 graphite grey, RAL 7047 telegrey
Machine weight	approx. 4.650 kg



TECHNICAL DESCRIPTION

Grinding Drum

The grinding drum can remove slag and burr up to five millimeters thick in one pass. The abrasive drum is a closed cylinder which has no seam or breaking point and thus attains a maximum service life.

Depending on the application, various grain sizes can be implemented. It takes only a few minutes to change the grinding drum. The drum can be quickly placed in, or released from, tension by a pneumatic quick-action tensioning lock. A built-in height tolerance controller makes it possible for the grinding drum to straighten out uneven spots in the workpiece down to six millimeters. The oscillation of the grinding drum prevents wear from being focused at one point and contributes to the cleaning of the abrasive drum. The oscillation and the circular design of the grinding drum allow for optimal service life with uniform grinding performance.

Rounding Unit

The top and bottom edge rounding units round the edges of the workpiece in a single pass. The stationary design of the rounding unit makes it possible to guide the grinding blocks with no vibration. This improves the outcome of the rounding and increases the service life of the rounding blocks. The rounding blocks are easily and quickly replaced using a patented intelligent easy-click system. When the rounding blocks are replaced, the drive belts stay in the machine and do not have to be disassembled.

Rounding Unit (continued)

Film-coated material and galvanised materials can also be processed with the rounding unit without altering the surface.

Feed table with magnetic belt

The EdgeBreaker® is fitted with magnetic guidance over the entire bandwidth. This allows the user to process even small magnetic workpieces (from 150 mm) with the deburring drum. The minimum length of non-magnetic workpieces is 300 mm.

The feed table is equipped with small feed rollers on the top and a conveyor belt on the bottom. These driven rollers generate pressure on the material, thus achieving a strong holding power for safe component transport. The top rolls are also power driven.

Control

The EdgeBreaker® is equipped with modern, intuitive controls and a 10.4-inch touchscreen display. This can also be operated using gloves in a rugged environment during product processing. The menu is clearly laid out and all the values are easily legible. In addition, the controls can be used to bring up the operation manual which is pre-loaded for your convenience.



TECHNICAL DESCRIPTION

Automatic adjustment of machine values

Adjusted values, once established, can be stored in the tool storage device. Aided by the calibrating run, this ensures reproducible deburring and rounding results with reoccurring parts. You can achieve a high level of process reliability by a clear assignment of adjustment values to your work piece. After being changed, the tools (the grinding drum and the rounding unit) automatically run the preset values. This reduces set-up times and incorrect adjustments are avoided.

Dust collection

The EdgeBreaker® has an efficient dust-removal system, which, by intelligently guided air flows, achieves a supplemental cleaning effect and reduces air contamination to a minimum. The EdgeBreaker® has to be operated in conjunction with a dust collection device. Depending on the material being processed, various dust collection devices are required. For the processing of steel, dry dust "only" collectors can be used. The machine must be equipped with a wet dust collection device to process aluminum or titanium.

The extraction systems are to be dimensioned so that the majority of the dust is removed from the machine. This shortens the cleaning process and improves the air quality during production. If the dust collection device is not ordered from ARKU, ARKU shall assume no liability for damage from the dust collection device.

Dust collection (continued)

Included in the offer are 2000 mm of piping between the deburring machine and the dust collection unit supplied by ARKU.

Cleaning

When burrs are removed from the workpiece, sparks can be emitted. If the sparks encounter flammable material, there is danger of a fire. Therefore, the machines may not be set up in the vicinity of flammable objects, and must be cleaned daily after each shift.

Safety precautions

We deliver the EdgeBreaker® with a CE designation; with a Declaration of Conformity for integrated systems. Safety flaps are attached to the entry and exit panels, which stop the machine when actuated. Additional emergency stop buttons are located on the front and rear of the machine. The EdgeBreaker® is designed and developed according to the latest EU machine guidelines and accident prevention instructions, thus ensuring that personnel are protected.

Energy saving

Environmental protections, as well as the economical use of resources, are an important part of how we as a company do business, and are part of the ARKU corporate philosophy. The EdgeBreaker® is therefore designed to be particularly efficient and energy-saving. ARKU is ISO 9001-certified.



MACHINE OPTIONS

EdgeBreaker® 4000 Plus

The Edgebreaker® 4000 Plus is equipped with a grinding drum to remove heavy burrs on the top side. However, burrs can also occur on the bottom side which cannot be removed solely by the use of the rounding unit.

With the machine option Edgebreaker® 4000 Plus workpieces can be deburred from below as well. Thus foregoing the need to flip parts. Tools are replaced simply and quickly, with the intelligent ARKU click-system. The type of processing can be widely adapted. Accordingly, different combinations can be run, such as top and bottom rounding with rounding blocks above and below or top and bottom burr removal with grinding blocks above and below, or a combination of the two.

Automatic grinding block measurement (calibration unit)

Accurate and reproducible edge rounding results are dependent on the precise adjustment of rounding blocks to the workpiece. With the automatic rounding block measurement, the position of the rounding blocks is measured and re-calibrates the machine according to the actual amount of wear.

As a result of this, the relative wear and the current length of the consumable is determined and displayed clearly and with no manual re-measurement necessary.

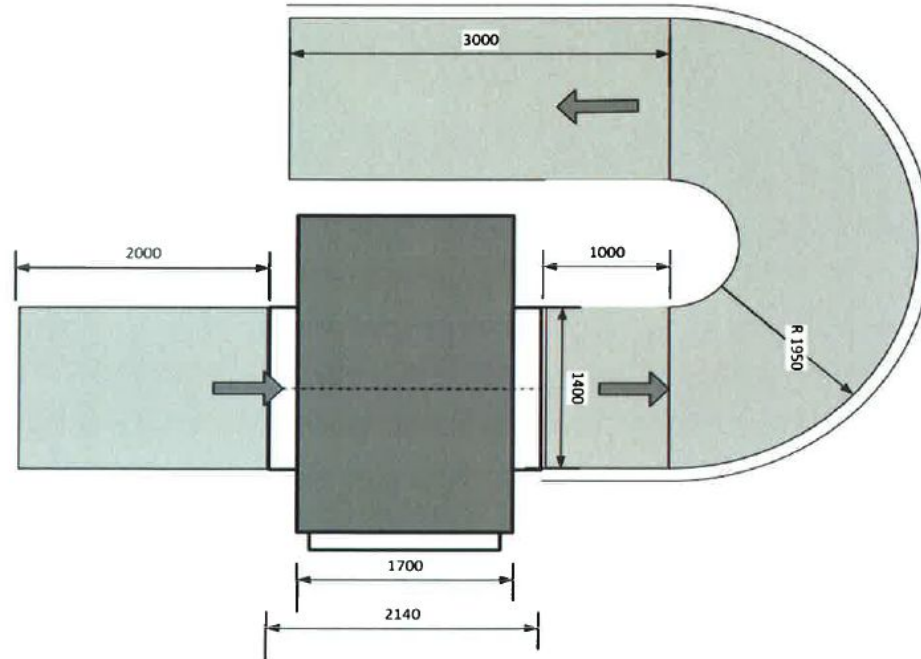


CONVEYOR BELT OPTION

Feed-in adjustment belts	Technical Data
Conveyor belt length	1000 mm / 2000 mm / 3000 mm
Version of conveyor belt	PVC supergrip black
Feed rate	0,2 – 6 m/min
Curve conveyor	180°
Curve conveyor	Plastic jointed band (width 1500 mm)
Pass height	900 mm above floor +/- 50 mm, adjustable
Component temperature	max. 60°C
Component weight	max. 250 kg/m, curved conveyor max. 150 kg
Electrical characteristics	3 x 400 VAC / 60 Hz (UL/CSA)

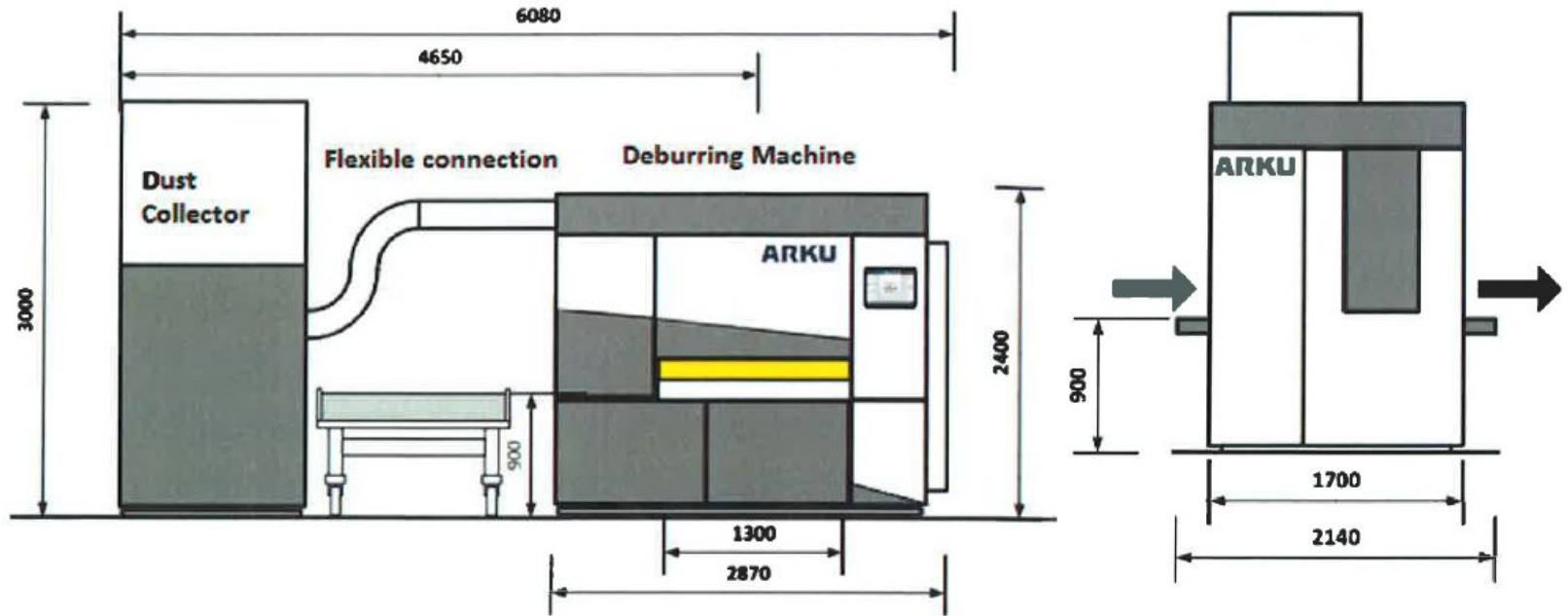


CONVEYOR BELT OPTION





MACHINE LAYOUT





SUMMARY PROPOSAL

The order will be placed directly with the machine tool builder in accordance with the terms and conditions outlined in this proposal. We have compiled everything into the SMS-branded template to capture all the key features and specifications of the machine.

DESCRIPTION	PRICE IN EURO	INCLUDED
EdgeBreaker® 4000 PLUS		X
Basic equipment: 1 grinding drum, 59 rounding blocks top and bottom		X
Options for the machine		
EdgeBreaker® 4000 PLUS, including 58 grinding blocks on the bottom in addition		X
Automatic grinding block measurement (calibration system)		X
Machine price with the suggested options		
Special price for a new machine		

[REVIEW ORIGINAL QUOTE HERE](#)



SUMMARY PROPOSAL

The order will be placed directly with the machine tool builder in accordance with the terms and conditions outlined in this proposal. We have compiled everything into the SMS-branded template to capture all the key features and specifications of the machine.

TOOL FOR DEBURRING AND GRINDING	PRICE IN EURO	INCLUDED
10 pcs sand paper for the grinding drum grit 24 - K 17667		X
10 pcs sand paper for the grinding drum grit 36 - K 17939		X
2 set (116 pcs) deburring blocks top unit - Z 75120		X
2 set (116 pcs) grinding blocks bottom unit - Z 77670		X
1 set (58 pcs) deburring blocks top unit - Z 75120		
1 set (58 pcs) grinding blocks bottom unit - Z 77670		
SERVICE	PRICE IN EURO	INCLUDED
Transport / Packaging DAP QLD; 40' container		X
Installation / Operator Training - 1 week at customer site, without accommodation costs		X



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FINANCING OPTIONS

TO THE PROSPECTIVE BUYER

As part of our commitment to supporting our clients, we would like to introduce you to Ledge Finance Ltd., a long-time partner specialising in financing solutions.

Ledge Finance works closely with midcap public companies, high-net-worth individuals, and developing SMEs, focusing on finance and commercial risk mitigation. They have a strong presence across various industries, including mining, resources, engineering, construction, and manufacturing.

With extensive experience working with steel fabrication clients throughout Australia, Ledge Finance understands the unique requirements of the industry. They can provide tailored financing solutions directly linked to the equipment, ensuring competitive rates and structures that align with your specific needs.

If you're interested in exploring financing options, please feel free to reach out to 0409 315 331 anytime.

Kind regards,

Neil Ferguson, Finance Executive

The logo for Ledge Finance is the word 'LEDGE' in a bold, green, sans-serif font. The letter 'D' is stylized with a white outline and a shadow effect.

LEDGE





TERMS AND CONDITIONS

NOT INCLUDED in this offer

- Foundation work, attachment plates related to the foundation
- Coverings that are not in the vicinity of the machine, pit enclosure, ground, stairways, passageways, and sealing of foundation to be oil-tight
- Sound-protection booths and booth measures for noise reduction
- Tools and storage of materials
- Crane and lifting devices for parts transport
- Supply of power, water, or pneumatic supply
- Scrap containers
- Crane and transport devices
- All communication systems
- Fire prevention measures
- All other services that are not expressly listed in the offer
- Unloading of the supply and electrical connection of the machine

TO BE PROVIDED by the client

- Ensuring that transport and installation passageways are free and unhindered
- Making an approach ramp available, if necessary
- Making available the necessary shop cranes, stroke lifters and for lift
- During initial placement in operation and startup, making available operators, maintenance personnel, crane and lift operators, etc
- A water attachment, as well as a wet drain connection for the dust collection unit
- A water attachment, as well as a wet drain connection for the dust collection unit
- Making available a 3 phase 480-volt, 60-Hz, 32-amp power connection for the dust collection unit

Acceptance Procedure

The machine is assembled, put into operation and tested with your material in our works in Baden-Baden, Germany. All functions of the machine are tested and pre-adjusted. In this way the time and expenses for installation in your works is reduced to a minimum. The test material is provided free of charge by the customer.

The acceptance of the machine takes place at ARKU in presence of the customer, as documented with defined test part samples.

Installation and test operation

We recommend the installation of the machine in your works by ARKU. All expenses for installation and configuration are invoiced separately.

The scope of supply includes:

- Alignment of the machine
- Fixings of the machine, without expenses for material or fixings
- Configuration of the machine
- Test run with test material (material is supplied free of charge by the customer)
- Instruction and operator training (about 4 hours during installation).

Special agreements

We will include also a spare parts package for the machine. After one year we will make a decision if Southern buy the spare parts or send it back to ARKU in Baden Baden. Surdex or Southern send one serviceman to ARKU in Baden Baden for one week training.



TERMS AND CONDITIONS

Warranty

We offer 12 months, maximum 1700 working hours, warranty after release for production for 1 shift operations. The warranty ends 14 months after notice of readiness for shipment at the latest. Wear parts are not included in this warranty. You will receive a list of wear parts at the latest by pre-inspection of the machine. Further mistakes made by improper use, maintenance and maintenance works are not included in the warranty

Documentation

For customers in the EU the documentation is delivered in national language (one copy in paper form with CD-Rom). For all other countries it is delivered in English or German language. The documentation is handed over to the customer 4 weeks after the release of production through ARKU.

CE-Certification

The machine is delivered with CE Certification (with manufacturer's declaration of conformity at interlinked lines).

Terms of Delivery and Payment

- Place of Delivery: DAP QLD (Incoterms 2010), without custom duties
- Delivery Time: 8 - 12 weeks
- Terms of Payment: 30% after receipt of the order, 60% at declaration of readiness for shipment, before shipment, 10% within 30 days after declaration of readiness for shipment, net.

The terms of payment are valid under the condition of agreement of our goods credit insurance.

Terms of Delivery and Payment (continued)

The goods are of ARKU Maschinenbau GmbH property until full payment of the outstanding amounts from the customer, independent of local laws in this regard.

Liability

Liability according to Orgalime SI 14. Irrespective of anything contrary in this agreement, liability for consequential damages is excluded according to clause 77 also in cases of gross negligence. Liability for damages to persons and property based on legal liability regulations for private law is limited to the coverage of our liability insurance in the amount of 15.000.000,00 €

Applicable Law

The contract shall be governed by the substantive law of Switzerland.

General Conditions

The General Conditions of the Supply and Erection of Mechanical, Electrical and Electronic Products (Orgalime SI 14) shall apply.

Validity

The offer is valid for 3 months.

Confidentiality

All rights reserved. Copying and passing of this quotation on to third parties only with the express permission of ARKU Maschinenbau GmbH.



ADDITIONAL INFORMATION

POS. ARTICLE NO. CONVERSION OF ROUNDING BELT TO SERIES 102			
ARTICLE DESCRIPTION	QUANTITY	ARTICLE DESCRIPTION	QUANTITY
Z87855 - Rounding belt assembly package Customs tariff no.: 8466 93 60	2 pieces	K16422 - Groove ball bearing Customs tariff no.: 8482 10 90	4 pieces
Z87563 - V-ribbed washer cpl Customs tariff no.: 8483 50 20	20 pieces	K17364 - Taper roller bearing Customs tariff no.: 8482 20 00	4 pieces
Z82537 - Hold down roll Customs tariff no.: 8466 93 60	5 pieces	Parts deburring roller - K20238 - Set of rubber sponge ring Customs tariff no.: 4016 10 00	1 piece
Z87561 - V-Belt pulley Customs tariff no.: 8483 50 20	2 pieces	K16574 - Tooth belt Customs tariff no.: 4010 39 00	1 piece
Z87560 - V-Belt pulley Customs tariff no.: 8483 50 20	2 pieces	K18740 - V-ribbed belt Customs tariff no.: 4010 31 00	1 piece



ADDITIONAL INFORMATION

POS. ARTICLE NO. CONVERSION OF ROUNDING BELT TO SERIES 102			
ARTICLE DESCRIPTION	QUANTITY	ARTICLE DESCRIPTION	QUANTITY
K05741 - Tightening roll Customs tariff no.: 8483 90 89	2 pieces	K17092 - Cam follower Customs tariff no.: 8482 50 00	1 piece
Z77835 - Sliding wedge bush Customs tariff no.: 8479 90 70	2 pieces	Parts transport system - Z79529 - Transmission kit chain wheel Customs tariff no.: 8483 90 89	9 pieces
Z72534 - Wedge Customs tariff no.: 8466 93 60	8 pieces	K11708 - Precision roller chain Customs tariff no.: 7315 11 90	10.00 m
Z75288 - Slide bushing Customs tariff no.: 8483 30 80	2 pieces	K11709 - Closing link Customs tariff no.: 7315 19 00	5 pieces
K16547 - Cam follower Customs tariff no.: 8482 50 00	2 pieces	K20477 - Grinding Roller Belt Customs tariff no.: 6805 10 00	2 pieces



ADDITIONAL INFORMATION

ARKU

ARKU Maschinenbau GmbH
Siemensstraße 11
76532 Baden-Baden / Germany
T: + 49 72 21 / 50 09-0
F: + 49 72 21 / 50 09-11
info@arku.com
www.arku.com

Service Offer 71840
of 8/02/2024

Order no.:	Call# 7004		
Customer no.:	506177		
Your sign:		Our sign:	Dominik Hinz
Phone:		Phone:	+49 7221 5009-18
Mail:		Mail:	dominik.hinz@arku.com

Overhaul for your ARKU-Edgebreaker 1/18
Belongs to spare part offer 13797

below you will find the description of the performance for your service.

Machine: M 704034
ARKU Deburring Machine
EdgeBreaker 4000 Plus

Serial number: M704034



ADDITIONAL INFORMATION

Service offered		Price EUR	Price EUR
Montage	<p>Service on site</p> <p>--- EFFORT ---</p> <p>Estimated time for work on site: 5 days</p> <p>Inclusive: travel time, accommodation, expenses, travel costs (flight, car)</p> <p>Exclusive: material, extension, surcharge</p> <p>--- INVOICING ---</p> <p>The costs are being billed according to expenses by using the relevant charges. The price stated is a BUDGET PRICE.</p>	10.000,00	10.000,00



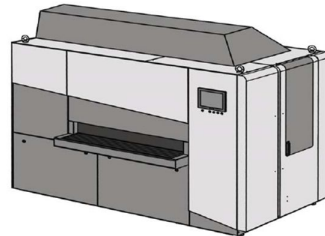
ADDITIONAL INFORMATION

ARKU

ARKU
Maschinenbau GmbH
Siemensstr. 11
D-76532 Baden-Baden

Operating manual 20159062

Translation of the original operating manual
Keep safe for future use.



Deburring machine for parts
EdgeBreaker®4000 plus

Machine number: M 704017



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WHY CHOOSE ARKU

At ARKU, we are driven by a passion for engineering excellence. Our machines and services are built with long-lasting value in mind, delivering unparalleled process reliability and efficiency for customers across the globe. With a strong foundation of precision and innovation, our solutions are designed to tackle the challenges of tomorrow while staying true to our roots in quality and craftsmanship.

For decades, ARKU has been the market and technology leader in precision leveling, setting the standard in the industry. Our expertise has now expanded to include cutting-edge deburring technology, broadening our industrial capabilities and delivering comprehensive solutions to meet the evolving needs of modern manufacturing.

Choosing ARKU means partnering with a company that values precision, innovation, and reliability. Our commitment to excellence ensures that our machines and systems provide high performance, adaptability, and long-term value. Whether it's precision leveling or deburring, ARKU is your trusted partner for achieving optimal results.

Discover the ARKU difference today—where technology meets passion!





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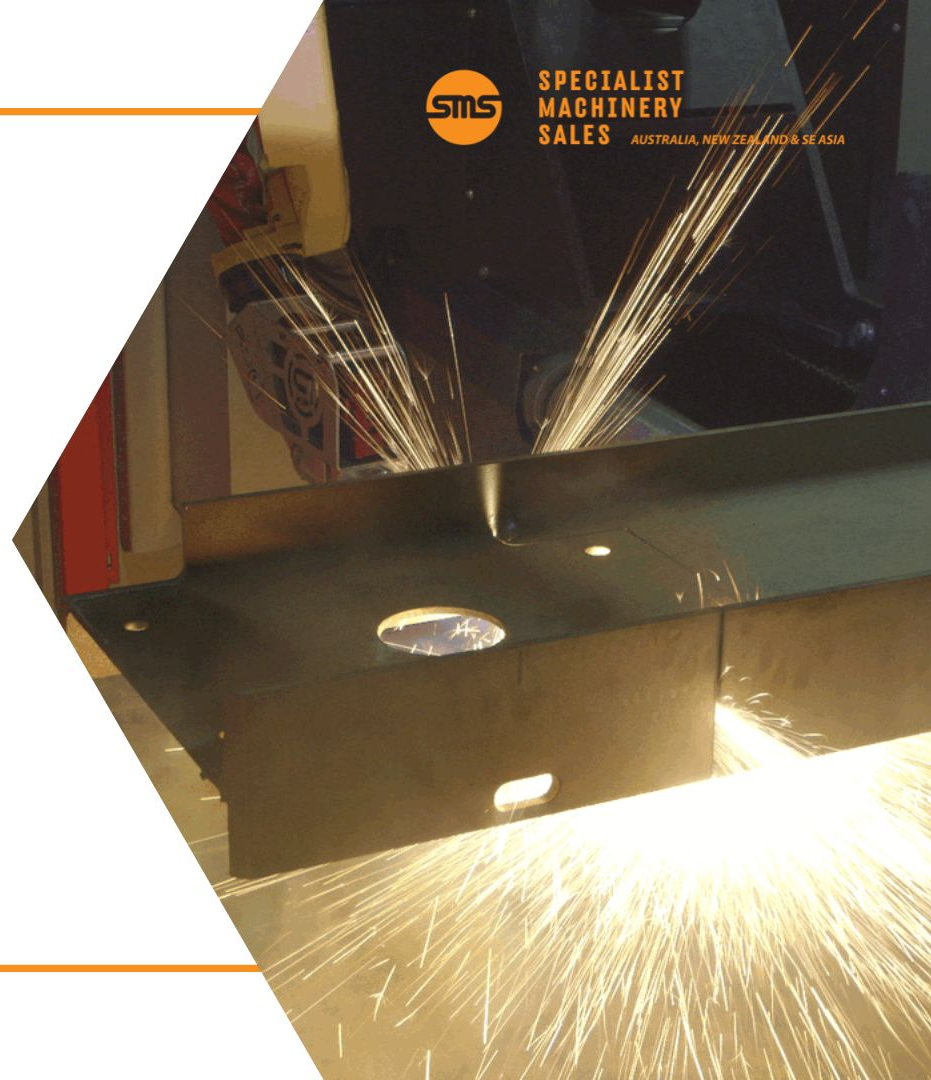
HOW WE CAN HELP YOU WIN GOVERNMENT FUNDING

Did you know that our clients have secured defense and sovereignty funding worth up to 80% of their project costs? That's right – millions in funding have been received by our clients to support their machinery acquisitions. Here's just a snapshot of some recent success stories:

- Steel Beam Assembly: Secured 80% funding totaling AUD 4 million
- Pipe Plasma Cutting: Received 50% funding valued at AUD 720,000
- Steel Beam Assembly: Supported with 50% funding amounting to AUD 2.5 million
- Cope Robot: Obtained funding of AUD 720,000
- Steel Beam Assembly: Granted AUD 1.5 million in funding
- Steel Part Sorting: Received AUD 400,000 in funding

With our expertise and support, you too can tap into these lucrative funding opportunities to propel your machinery investments forward. Don't miss out on your chance to maximise your budget and accelerate your growth. Reach out to us today to learn how we can help you win the funding you need for your next machinery acquisition!

LEARN MORE HERE ►





LOOKING TO BUY PRE-LOVED MACHINERY?

Specialist Machinery Sales offer second-hand or used structural steel processing machinery from Kaltenbach, Gietart, Haeusler, SLF and more.

Generally, the machines that SMS has access to are from trading for new machines offered from the machine tool builders to clients of SMS in Australia and New Zealand. Most machines are between 5 and 15 years of age with full-service history available. Some machines can be inspected under power or in their shipping packing ready for immediate delivery to Australasia.

LEARN MORE HERE ►





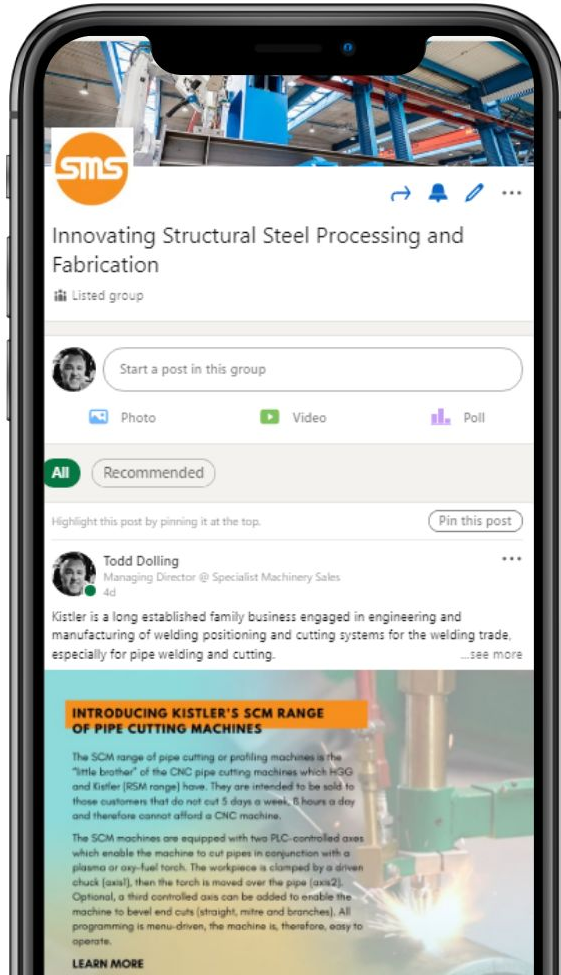
READY TO SELL YOUR PRE-LOVED MACHINERY?

Selling your pre-loved machinery may appear to be a simple process but it might be more complicated than you think. Selling pre-loved machinery involves equipment liens, resale certificates and financing a buyer. BUT DO NOT WORRY!

Used Structural Machinery (USM) is here to partner with you. At USM, we are your ideal channel to take your equipment and place it in the right hands, with the security and confidence that characterises us. Review our checklist below to help you understand when to retire your machine and how USM can help you sell it off efficiently and effectively.

LEARN MORE HERE ►





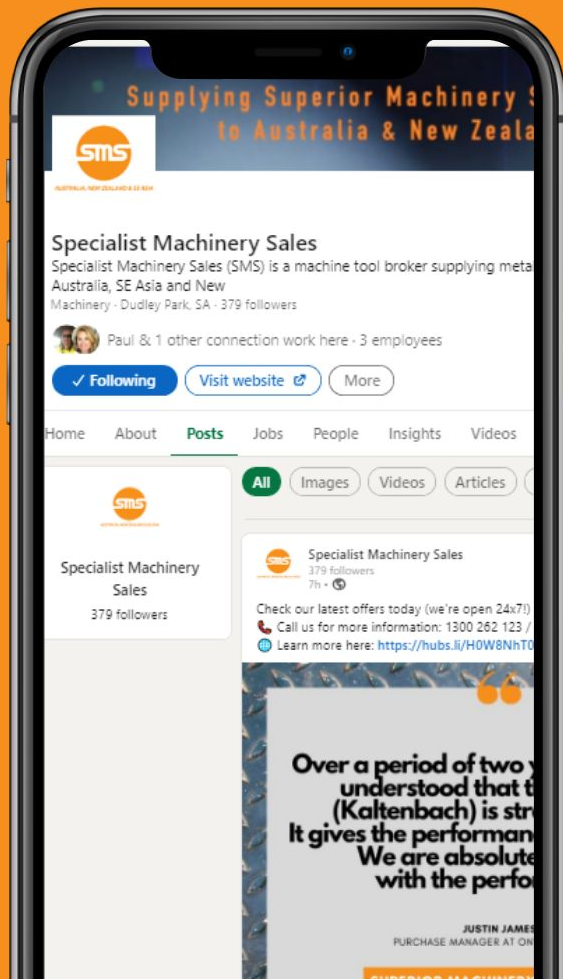
JOIN OUR EXCLUSIVE AND GROWING LINKEDIN GROUP

Join our growing and exclusive LinkedIn Group - [Innovating Structural Steel Processing and Fabrication Group](#).

In this group, we bring in thought leadership content, topics, trends and challenges within the steel industry and steel processing automation. We encourage everyone to share your business challenges and solutions that you have encountered and how steel processing automation had helped achieved your business objectives.

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HATE MISSING OUT?

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