

# Catalogue



[www.beveltools.com](http://www.beveltools.com)

Available at  
**ORBITAL TOOLS**  
BY MARRIOTT TOOL ENGINEERING COMPANY LTD



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## Beveltools advantages

### Weld preparation and bevelling

Welding remains a professional's job. Not everybody can create strong and clean weld. It all starts with a perfect bevel. By introducing the norm NEN-EN 1090 and ISO 9692 a good welding becomes more important, due to the specific requirements to manufacture steel and aluminum construction components.

### Rounding

Smooth and even rounding is essential whether you need to comply with IMO PSPC, ISO 12944, ISO 8501 or NEN-EN 1090. With the products from Beveltools, high quality that complies with all the norms and guidelines can be achieved quickly and consistently when rounding a wide range of metals.



#### Accurate and even

The Beveltools products make for consistent and accurate angles or rounding for metals. This produces stronger welding joints, a good bonding surface for paint and coatings, or smooth cable entry holes.



#### Work faster

Bevelling and rounding metals goes faster than with current conventional methods thanks to the unique design of the bevel head. The shaping and angle of the cutting surfaces mean that the metal can be cut quickly and effortlessly.



#### Long service life

Experience shows that with correct and careful use, you can bevel 100 to 140 metres with only one bevel head. For rounding, you can achieve 120 to 200 metres.



#### No finishing needed

An impeccable result is achieved immediately, with no finishing needed. Discoloration is prevented through precision machining that adds hardly any heat to the material.



#### Lightweight and handy to use

Because of the handy design and the light weight, minimal physical effort is needed to operate the machine. The machine rests on the material during rounding and bevelling. The only effort required is guiding the machine.



#### Better working conditions

Bevelling is done with hardly any sparks or vibrations. The chips are large and heavy, meaning they immediately drop to the ground. It doesn't release any harmful dust particles and/or combustion gases.

## Beveltools The Game Changer

Regardless of whether you are bevelling or rounding metal, Beveltools' innovative patented technology creates a true revolution!

The current methods for weld preparation, rounding and bevelling are physically demanding, inaccurate and time-consuming.

It should be possible to do this differently...

That is why Beveltools has developed 2 compact and ergonomic concepts, Bevel Mite® and Bevel Mate®. They make weld preparation, bevelling and rounding metal easier, faster, more accurate and cheaper.

With Beveltools your company will be ready for the future.

# Types of bevel heads and materials

Would you always like to achieve the best and most consistent end results when preparing an edge? With the Beveltools bevel heads, this can always be done quickly and cheaply.

Beveltools offers 3 different types of bevel heads



## Steel

The bevel heads for steel are ideal for bevelling and rounding the most common types of steel such as S235. For rounding and bevelling harder types of steel, we have developed the Premium bevel head.



## Premium

Stronger types of construction steel and plasma- or laser cut steel need a special type of bevel head. These Premium bevel heads are produced with state-of-the-art hard metal components, grinding technology and coatings. This makes the Premium bevel head ideal for stronger types of construction steel.



## Aluminum

The chips from non-ferrous metals such as aluminum can weld to the cutting surfaces of the bevel head. The aluminum bevel head has the perfect cutting edge for this group of metals. The combination of the right geometry and coating means that aluminum, non-ferrous metals and harder plastics can be bevelled or rounded with no problems, and without the use of any lubricants.

Bevel heads with angle:  
15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°



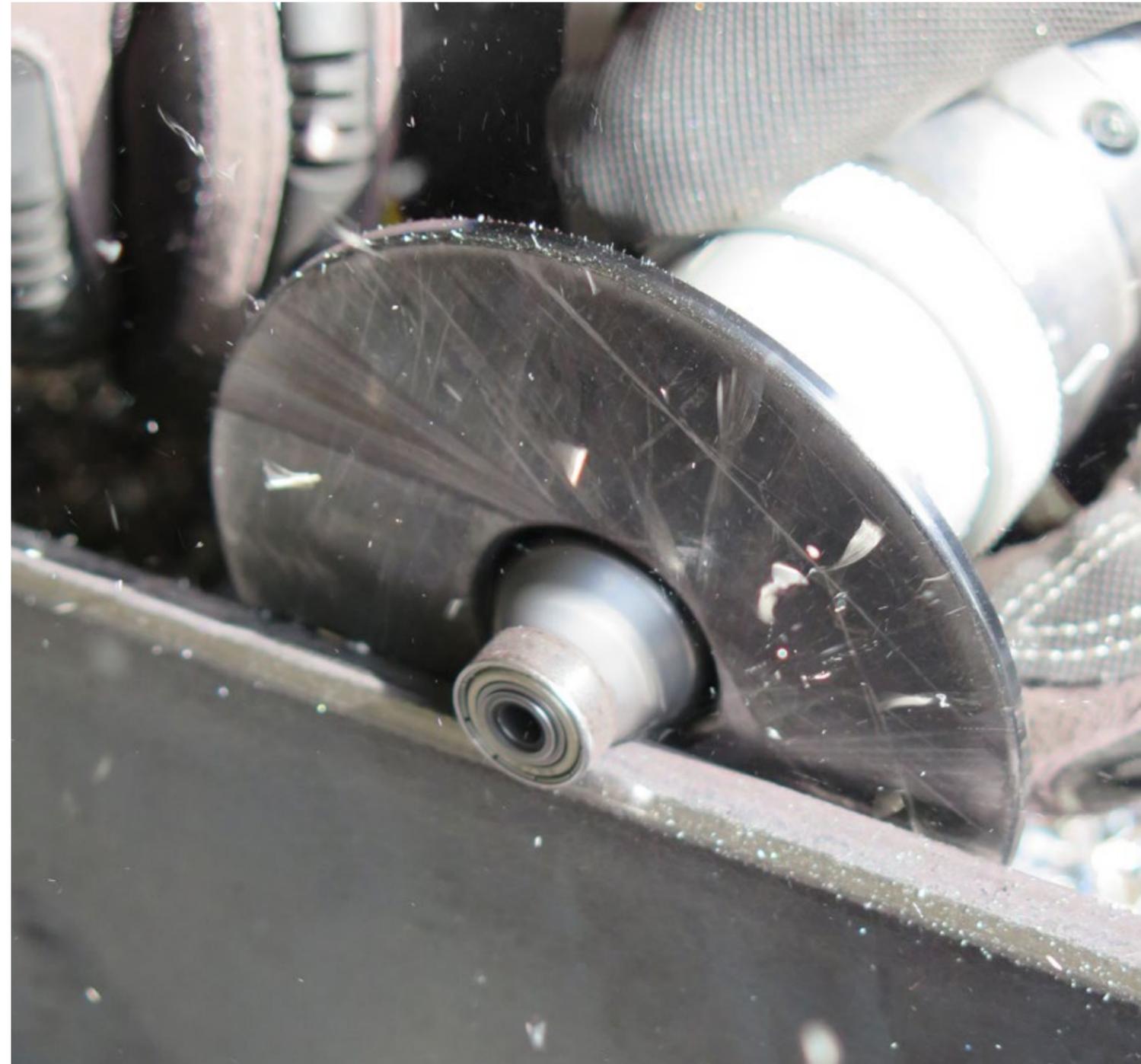
Bevel heads with radius:  
R2 - R3 - R4 - R5 - R6 - R8



## Choose the right bevel head that suits the material

For the best end result, it is highly important to choose the right bevel head that is the most suitable for the job at hand. The diagram below is a guide for making the right choice.

		S235	>S355	Plasma/ laser cut steel	Stainless steel 304	Non-ferrous metals
Steel head		😊😊	😊	😊	😞	😞
Premium head		😊😊😊	😊😊😊	😊😊😊	😊	😞
Aluminum head		😞	😞	😞	😞	😊😊😊



User experience - Linssen Yachts B.V.

“With Beveltools, I have finally found a way to round steel without needing to deburr or polish afterwards.”



Linssen Yachts from Maasbracht is a family business specialising in the manufacture of steel motor yachts with lengths of between 8 and 15 metres. Linssen Yachts was founded in 1949 and has grown in the Netherlands to become one of the major players in this sector of yacht-building. In the meantime, the company has developed a large sales network all across Europe. The various models of yachts are designed and finished by their own specialists. By producing them in batches and using the best materials and techniques to do so, the steel yachts are of excellent quality.

In yacht-building, the finishing is crucial. Peter Zentjes (Production Leader - Hulls) says: “rounding sharp edges in the hull material is important to ensure that the coating and paint bond well and stay on for a long time. Rounded edges look better to the end user too. By rounding sharp edges with Beveltools,

you get a beautiful, smooth, rounded finish.”

The Beveltools system is used almost daily in the hull production hall. “Before, we used to weld a tube on the top edge to create the rounding. Then we had to deburr the material from irregularities. This was time-consuming work. I went on the lookout for a system that would create a rounding in the steel without needing deburring and polishing afterwards. I quickly came across Beveltools,” says Peter.

The EBA-12 in combination with the Premium bevel head is the perfect solution for Linssen Yachts. “The machine is lightweight and handy. I can use it anywhere. The Beveltools R3 and R4 bevel heads we use have a long service life but are easy to replace when necessary. For us, Beveltools is the ideal method to achieve quick and consistent rounding,” says Peter.



User experience - Texas, USA

“After using the Bevel Mate® EBA-12 for one week, we had made up all the lost time and were even a week ahead of schedule. For our next project, we will definitely be using this machine from the start.”



A well-renowned company in the oil, gas and chemical industry from Texas, USA, had already been introduced to the Bevel Mate® concept, but - as is often the case - there was no time to go into the field and view a machine in action.

Two weeks later, it turned out that it had been unwise not to free up some time for this. They were behind schedule on a project. If they failed to meet the deadline, they would be

facing severe penalties. That was enough reason for a demonstration of the Bevel Mate® EBA-12, together with all the workers involved.

During the demonstration, it quickly turned out that the skeptical attitude of the workers was completely unfounded. The Bevel Mate® EBA-12 proved to be 15 times faster than the grinding disc in creating a bevel of exactly 37.5° for an accurate weld.



# Bevel Mite® | For lighter work

## The Bevel Mite® concept

For lighter bevelling and rounding work up to a depth of 6 mm, you can use the Bevel Mite® concept. The Bevel Mite® concept is highly compact, manoeuvrable and lightweight. Available in 3 types: with an electric motor (EBI-06), pneumatic motor (ABIS-06) or battery (B-EBI-06).



The EBI-06 and ABIS-06 PREMIUM bevelling machines have unique features

- ✓ A precise depth adjustment in 0,1 mm increments.
- ✓ The new spindle makes changing the bevel head even simpler and quicker.
- ✓ A rotating flange head.

### Electric motor

### Pneumatic motor

EBI-06



EBI-06 PREMIUM



ABIS-06



ABIS-06 PREMIUM



	EBI-06	EBI-06 PREMIUM
Part no.	1031000	1031010
Motor	Electric	Electric
Max. bevel depth	6 mm	6 mm
Available bevel heads with radius	R2 - R3 - R4	R2 - R3 - R4
Available bevel heads with angle	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°
Air pressure	-	-
Air consumption	-	-
Power	500 W	500 W
Voltage	230 V (also available in 120 V)	230 V (also available in 120 V)
Speed	11.000 rpm	11.000 rpm
Weight	1,6 kg	2,0 kg
Min. opening diameter for bevelling	22 mm	22 mm
Min. opening diameter for rounding	16 mm	16 mm

	ABIS-06	ABIS-06 PREMIUM
Part no.	1122000	1122010
Motor	Pneumatic	Pneumatic
Max. bevel depth	6 mm	6 mm
Available bevel heads with radius	R2 - R3 - R4	R2 - R3 - R4
Available bevel heads with angle	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°
Air pressure	6 bar	6 bar
Air consumption	310 ltr/min	310 ltr/min
Power	0,5 hp / 0,38 Kw	0,5 hp / 0,38 Kw
Voltage	-	-
Speed	25.000 rpm	25.000 rpm
Weight	0,8 kg	1,1 kg
Min. opening diameter for bevelling	22 mm	22 mm
Min. opening diameter for rounding	16 mm	16 mm

Check our website [www.beveltools.com](http://www.beveltools.com) for more product information, distributors, user manuals and demo videos for all products.

 Battery

### B-EBI-06



	B-EBI-06
Part no.	1031020
Motor	Battery
Max. bevel depth	6 mm
Available bevel heads with radius	R2 - R3 - R4
Available bevel heads with angle	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°
Air pressure	-
Air consumption	-
Battery capacity	4 AH
Voltage	18 V
Speed	8600 rpm
Weight	2,4 kg
Min. opening diameter for bevelling	22 mm
Min. opening diameter for rounding	16 mm



### User experience - Roweko Staalconstructies B.V.

“For me, saving time is a great benefit. With Beveltools, I can make a bevel or radius, with no further finishing. With grinding discs you take much longer and the end result is never as smooth as with Beveltools.”

Roweko from Nootdorp specialises in making large steel constructions for applications such as bridges or buildings. Roweko uses Beveltools for both bevelling and rounding.

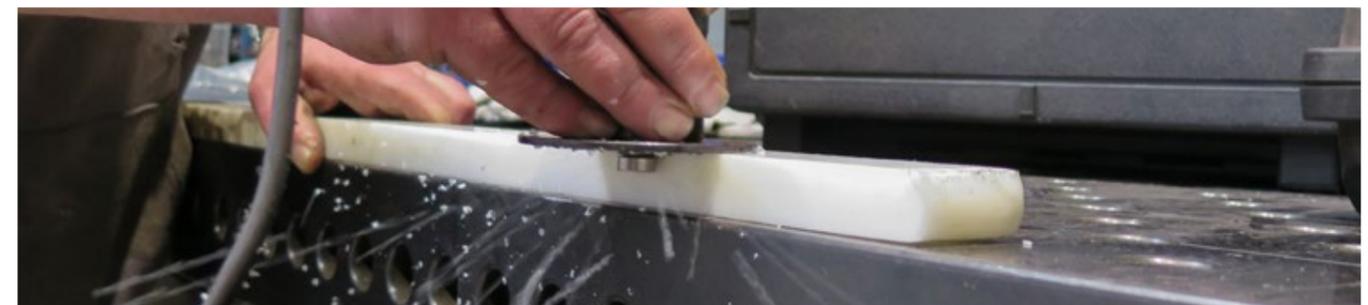
Previously, this was always done with an angle grinder and grinding discs. According to René de Kok, owner of Roweko, this is fine but far from the best solution. “Grinding discs produce a lot of dust and take a very long time to achieve a flush or rounded finish. It is much faster with Beveltools. After taking a look at the different machines, I opted for the EBI-06 Premium and then later on the EBA-12 for the slightly heavier work.”

René and his colleagues immediately saw the advantages of Beveltools as compared with discs. “For me, the greatest advantages of Beveltools are: how much time they save and how easy they are to work with. With grinding discs, you just take too long to get a good result. Now I take the Beveltools bevelling machine and make a bevel or radius with one movement. It works so quickly that a grinding disc simply can’t compare. Finishing is no

longer necessary either, which saves a lot of time. I use Beveltools mainly for steel, but they also work brilliantly with plastic,” says René.

Apart from the fact they save time, Roweko are also delighted with the improvement to the work environment. “The chips made by the Beveltools products are relatively large and immediately drop to the ground. We have no more issues with chips flying around and fine dust blown into the air. The machines also make quite a bit less noise.”

Like other metalworkers, Roweko often needs to observe the EN-1090 standard. Sharp edges in steel must be rounded before it can be galvanised and/or coated. “Beveltools simply deliver a great result. You would never get such a smooth edge with an angle grinder,” says René. “I recommend Beveltools for any business that regularly has to do rounding or bevelling. It is no huge investment either. For a couple of hundred euros, you have a machine with bevel heads. It saves you so much time that you quickly recoup that investment.”



# Bevel Mite® bevel heads with angle



# Bevel Mite® bevel heads with radius



Steel bevel head

Aluminum bevel head

Premium bevel head

	Steel bevel head	Aluminum bevel head	Premium bevel head
Type	15-06-STL	15-06-ALU	15-06-PREMIUM
Part no.	7106000	7106010	7106020
Type	22-06-STL	22-06-ALU	22-06-PREMIUM
Part no.	7107000	7107010	7107020
Type	30-06-STL	30-06-ALU	30-06-PREMIUM
Part no.	7104000	7104010	7104020
Type	37-06-STL	37-06-ALU	37-06-PREMIUM
Part no.	7103000	7103010	7103020
Type	45-06-STL	45-06-ALU	45-06-PREMIUM
Part no.	7102000	7102010	7102020
Type	52-06-STL	52-06-ALU	52-06-PREMIUM
Part no.	7108000	7108010	7108020
Type	60-06-STL	60-06-ALU	60-06-PREMIUM
Part no.	7105000	7105010	7105020



Steel bevel head

Aluminum bevel head

Premium bevel head

	Steel bevel head	Aluminum bevel head	Premium bevel head
Type	R2-06-STL	R2-06-ALU	R2-06-PREMIUM
Part no.	7101100	7101110	7101120
Type	R3-06-STL	R3-06-ALU	R3-06-PREMIUM
Part no.	7101000	7101010	7101020
Type	R4-06-STL	R4-06-ALU	R4-06-PREMIUM
Part no.	7101200	7101210	7101220



## User experience from a Dutch metalworking company

“For a large project, we had to round off a great number of metres and in accordance with NEN-EN 1090. With just one Premium bevel head we could round off over 200 metres. That is four times more than with a set of inserts!”

A metalworking company from the region of Utrecht used Beveltools for a large project. For one particular client, they had to produce different steel parts for electricity pylons. These electricity pylons, with a height of 55 to 75 metres, were recently fitted in several areas, including Achterhoek (The Netherlands).

The manager explains: “For this client we delivered the steel parts for the electricity pylons. These included a large number of connection rings, lifting eyes, bulkheads, brackets and attachment points used for the pylons.” Because these are load-bearing galvanised steel constructions, all parts must carry CE certification in accordance with NEN-EN 1090. This norm states the technical specifications to which the steel end products must adhere. Part of this norm stipulates that edges must be rounded with a minimum radius of 2 mm to obtain a greater bonding surface for coating.

“The connection rings must all be rounded in accordance with the EN 1090 norm. We chose to do this with radius 3 to achieve a better finish. The largest connection ring had a diameter of 2.5 metres, which makes a lot of metres to round off. I looked for a system with which I could quickly achieve radius 3 at a low cost. We didn’t have much experience with rounding, but for this project we delved into it and we decided to purchase

a machine,” says the manager. The machine had to be easy to handle and control, and not too expensive to use so that it would also make sense for smaller projects. Initially, the company had gone for a system with inserts.

However, they did not meet expectations. The service life promised was not achieved and the inserts had to be exchanged much too often. “Alternating the inserts takes an incredible amount of time, plus they are fragile so they broke all too often even before we’d used them for all cutting edges. The work took much longer and cost much more than I’d anticipated. Then I contacted Beveltools and immediately switched to this system, especially because of the single bevel head. The steel bevel heads by Beveltools lasted 2 to 2.5 times longer in our case than a set of inserts. When Beveltools showed us the Premium bevel head, we immediately started to use it. With just one Premium bevel head we could round off over 200 metres. That is four times more than with a set of inserts!”

For the metalworking company it is a huge advantage that the bevel heads are made up of one piece. You can swap the bevel head in the blink of an eye and because it has many cutting edges, machining goes really smoothly. “With Beveltools we were able to finish our work before the deadline and at an advantageous cost. Our client was delighted with the results.”

## User experience - ConFab Incorporated

“With a bur bit it took us on average 45 seconds to 1 minute to bevel a hole. Now, with the lightweight ABIS-06 machine, it only takes us 7 to 10 seconds.”

Located in El Dorado, KS, ConFab Incorporated, part of C-Tech Industrial Group, specializes in custom made pipe and steel construction for commercial, industrial and petrochemical applications.

Jesus Arredondo: “Before we purchased the Bevel Mite® ABIS-06 we were using a bur bit and it would take on average 45 seconds to 1 minute to bevel a 4 cm diameter hole. Now with this tool we are averaging 7 to 10 seconds per hole and that’s a lot in an 8 hour day.”



# Bevel Mate® | For heavier work

## The Bevel Mate® concept

The Bevel Mate® concept has been designed for heavy-duty bevelling and radius work, bevelling up to a depth of 12 mm. The Bevel Mate® machines are compact and powerful. Available in 2 types: with an electric motor (EBA-12) or pneumatic motor (ABA-12).



“The Bevel Mate® concept works 50% faster and considerably more quietly than a grinding disc and without producing grinding dust. The final result is precise in terms of radius and with no burrs, meaning that finishing is no longer necessary.”

### Electric motor

EBA-12



Flangehead with depth adjustment



Variable speed



Supplied in a luxury case

### Pneumatic motor

ABA-12



Flangehead with depth adjustment



Safety lever



Supplied in a luxury case

	EBA-12
Part no.	2031100
Motor	Electric
Max. bevel depth	12 mm
Available bevel heads with radius	R2 - R3 - R4 - R5 - R6 - R8
Available bevel heads with angle	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°
Air pressure	-
Air consumption	-
Power	1,53 KW
Voltage	230 V (also available in 120 V)
Speed	10.500 rpm
Weight	4,5 kg
Min. opening diameter for bevelling	41 mm
Min. opening diameter for rounding	22 mm



	ABA-12
Part no.	2032000
Motor	Pneumatic
Max. bevel depth	12 mm
Available bevel heads with radius	R2 - R3 - R4 - R5 - R6 - R8
Available bevel heads with angle	15° - 22,5° - 30° - 37,5° - 45° - 52,5° - 60°
Air pressure	6 bar
Air consumption	1100 ltr/min
Power	2 hp / 1,48 KW
Voltage	-
Speed	10.000 rpm
Weight	5,66 kg
Min. opening diameter for bevelling	41 mm
Min. opening diameter for rounding	22 mm



# Bevel Mate® bevel heads with angle



Steel bevel head

Aluminum bevel head

Premium bevel head

			
Type	15-08-STL	15-08-ALU	15-08-PREMIUM
Part no.	7205000	7205010	7205020
			
Type	22-08-STL	22-08-ALU	22-08-PREMIUM
Part no.	7206000	7206010	7206020
			
Type	30-08-STL	30-08-ALU	30-08-PREMIUM
Part no.	7204000	7204010	7204020
			
Type	37-08-STL	37-08-ALU	37-08-PREMIUM
Part no.	7203000	7203010	7203020
			
Type	45-08-STL	45-08-ALU	45-08-PREMIUM
Part no.	7202000	7202010	7202020
			
Type	52-08-STL	52-08-ALU	52-08-PREMIUM
Part no.	7208000	7208010	7208020
			
Type	60-08-STL	60-08-ALU	60-08-PREMIUM
Part no.	7207000	7207010	7207020

# Bevel Mate® bevel heads with angle



Steel bevel head

Aluminum bevel head

Premium bevel head

			
Type	15-12-STL	15-12-ALU	15-12-PREMIUM
Part no.	7305000	7305010	7305020
			
Type	22-12-STL	22-12-ALU	22-12-PREMIUM
Part no.	7306000	7306010	7306020
			
Type	30-12-STL	30-12-ALU	30-12-PREMIUM
Part no.	7304000	7304010	7304020
			
Type	37-12-STL	37-12-ALU	37-12-PREMIUM
Part no.	7303000	7303010	7303020
			
Type	45-12-STL	45-12-ALU	45-12-PREMIUM
Part no.	7302000	7302010	7302020
			
Type	52-12-STL	52-12-ALU	52-12-PREMIUM
Part no.	7308000	7308010	7308020
			
Type	60-12-STL	60-12-ALU	60-12-PREMIUM
Part no.	7307000	7307010	7307020

# Bevel Mate® bevel heads with radius



Steel bevel head

Aluminum bevel head

Premium bevel head

	Steel bevel head	Aluminum bevel head	Premium bevel head
Type	R2-08-STL	R2-08-ALU	R2-08-PREMIUM
Part no.	7201100	7201110	7201120
Type	R3-08-STL	R3-08-ALU	R3-08-PREMIUM
Part no.	7201000	7201010	7201020
Type	R4-08-STL	R4-08-ALU	R4-08-PREMIUM
Part no.	7201200	7201210	7201220
Type	-	R5-08-ALU	R5-08-PREMIUM
Part no.	-	7201310	7201320
Type	-	R6-10-ALU	R6-10-PREMIUM
Part no.	-	7201410	7201420
Type	-	R8-12-ALU	R8-12-PREMIUM
Part no.	-	7201610	7201620

User experience - Jos van den Berselaar Constructie B.V.

“We work a lot with harder metals and laser-cut steel. The Bevel Mate® EBA-12, because of its long service life, is ideal for rounding holes in our pieces.”

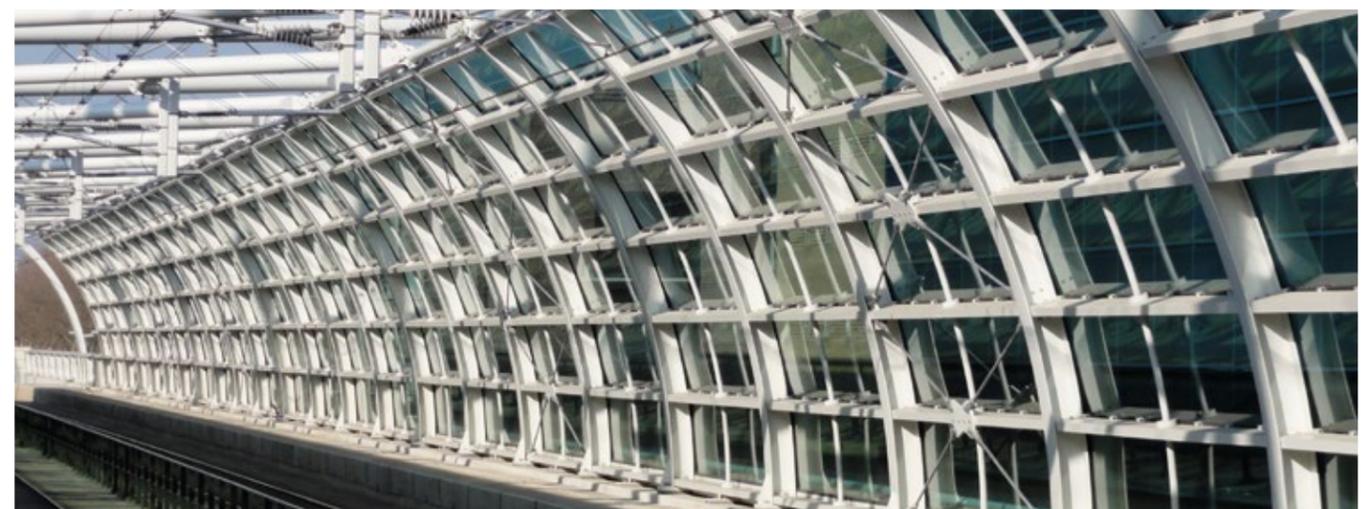


At Jos van den Berselaar Constructie B.V. in Udenhout, quality has always been paramount and ultimately it became a specialism: not supplying steel, but solutions. The company specializes in high-performance, lightweight structures made of steel aluminum and stainless steel.

After watching a demonstration of the Bevel Mate® EBA-12, they were immediately enthusiastic and a second machine was purchased within six months. This was the perfect solution to their issue.

Lots of holes have to be rounded in these structures. This rounding should have a constant radius of at least 2 mm, because the workpieces are galvanized and coated. In the past this regularly resulted in major challenges. It cost the company a lot of time and effort to supply the expected high quality using a machine with inserts.

Maarten van de Wouw, CWL: “The machine with inserts would already be blunt after using it 2 to 3 times, so that did not work for us. We work a lot with hard materials and laser-cut steel. The Bevel Mate® EBA-12 is truly ideal for rounding the holes in workpieces because of the long service life and its high level of user-friendliness. We are very happy that we can now supply our high quality to our customers without issues.”



# Bevel Mate® Guide

## More stability when machining metal

The Bevel Mate® Guide has been specially developed to give you perfect lateral guidance for bevelling and rounding. This attachment gives your Bevel Mate® machine even more stability when machining metal.

The plastic guiding blocks increase the running surface, thereby offering heightened support both on sheet material and round pipes. Especially if many metres of material are being machined sequentially, this attachment offers extra stability. Equally, because of its special design, the discomfort of flying chips is reduced.

This unique accessory is simple to fit on the flange head and is made of top-grade durable stainless steel. With the use of POM plastic guiding blocks scratches on the material are prevented. Thanks to the open underside, the bevel head is still simple to swap.

The Bevel Mate® Guide is a separate attachment for your existing EBA-12 or ABA-12 machine.



Part no. 8233300



# Accessories

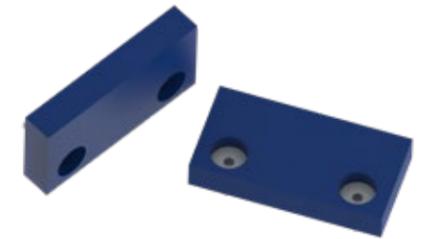
In addition to the range of machines and cutting tools, we also offer a series of accessories.



## Stainless steel flange head

You can get a stainless steel flange head for the Bevel Mate® EBA-12 and ABA-12. This can be used for machining stainless steel.

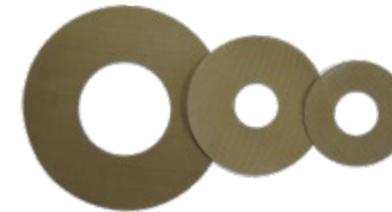
Part name	Part no.
Flangehead Premium stainless steel	8233200



## Plastic guiding blocks

The blue guiding blocks, made from wear-resistant POM, are used on the Bevel Mate® Guide. Set of 2, with attachment screws.

Part name	Part no.
Guide blocks POM	9233300



## Teflon base plate

The flexible Teflon protective plate prevents scratches on the material. Easy to stick to the flange head. Available for all types of machines.

Part name	Part no.
Teflon base plate ABIS-06	9103111
Teflon base plate EBI-06	9103112
Teflon base plate EBA-12 / ABA-12	9300111



## Guide bearings

The guide bearings are available individually, in 3 different types.

Part name	Part no.
Guide bearing xx-06	9103210
Guide bearing xx-08	9300001
Guide bearing xx-12	9300002



# Beveltools The Game Changer

## History

2013 was an exciting year. An American-Korean duo of inventors developed a revolutionary new bevel tool. This created a new standard for rounding and bevelling metal. Entrepreneur Jan Enno Hofman recognized the quality and the innovative application of it, leading to the incorporation of Beveltools.

## Future

The current team of specialists is continuously busy developing new solutions. It must be possible to make bevelling and rounding metal easier, more accurate, faster and cheaper. The daily struggles one faces when rounding and bevelling metal creates our drive to provide tools that can be used to create perfect end results. The basic assumptions used here are cost and time savings, but also user-friendliness.

## Contact

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