

SWEBEND

PRECISION BENDING, SIMPLIFIED



POWERFUL,
PRECISE &
RELIABLE

PLATE BENDING MACHINES PB3 & PB4 SERIES

www.swebend.com

PLATE BENDING

All our Plate rolls are custom built and engineered with years of experience to have the maximum drive torque throughout the entire speed range, unlike many competitors who only have maximum drive torque available at low speed. We only use hydraulic drive as standard for all models to help the operator produce the best bending results. A SweBend machine will result in the highest ROI compared to any competitive machine.

HIGHER POWER → FEWER PASSES → HIGHER PRODUCTION CAPACITY → HIGHER PROFIT → SHORTER PAY-OFF



“ELIMINATE” FLAT ENDS

Through Swedish engineering SweBend has proven to be THE best at virtually eliminating flat ends. Our machines produce high enough forces from the bending rolls to reduce the flat ends to a bare minimum.

No matter what anyone tells you, in the end, reducing the length of flat ends comes down to raw bending force, and SweBend uses world-renowned Swedish manufacturing standards and unmatched competence to produce the strongest machines with the highest roll power on the market.



THE BEST ROLLS FOR AMAZING RESULTS

Our rolls are induction hardened roll forgings produced by well-known German steel mills such as DiroStahl. The roll material is ALWAYS individually tailored to meet our customer's exact requirements which gives the best precision, durability and quality.



RAZOR SHARP BENDING PRECISION THROUGH ELECTRONIC ROLL

For outstanding bending precision, our plate bending machines are equipped with a razor sharp roll parallelism control system with a tolerance of ± 0.004 ". This precision parallel system is powered by control systems from Beckhoff, a leader in industrial automation and controls.

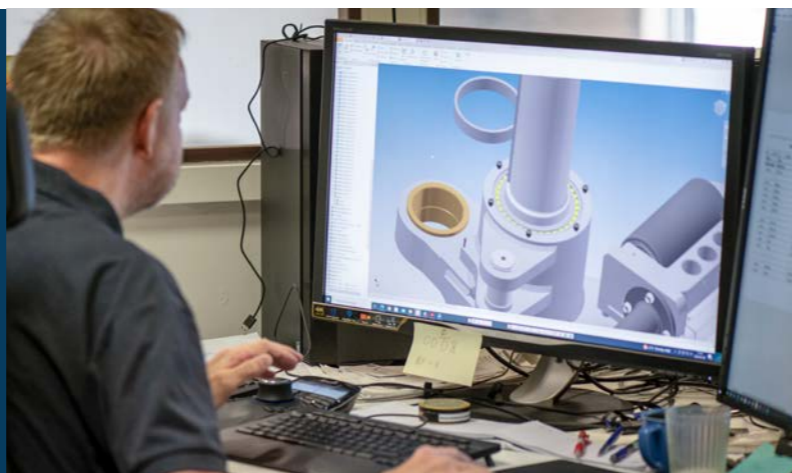


MADE IN SWEDEN - BECAUSE QUALITY MATTERS

Means a machine that guarantees the highest quality in all details resulting in longer lifetime, less maintenance and repairs, higher output, better production quality and an unmatched return-on-investment!

DESIGNED THROUGH EXPERIENCE

All machine sizes are designed with the know-how SweBend engineers achieved over a long period of years and with extra attention to even the smallest details that truly will make a big difference in the long run. Anyone can build a plate roll but very few know what is required to achieve market-leading performance, and make it last for decades!



POWERFUL, PRECISE & RELIABLE

SweBend designs and produces the strongest and most user-friendly machines on the market. You can be sure to get the highest drive torque and strongest bending power compared to any other Plate roll of the same size.

A SWEBEND MACHINE IS A MACHINE WHICH...

- ✓ has the lowest total cost of ownership of any competitive machine.
- ✓ is customized to meet each customer's specific requirements. We use our vast knowledge to dimension each part of the machine to be balanced perfectly for our customer.
- ✓ has bearings from SKF (the world famous Swedish bearing company) throughout the entire machine which will keep rolling, rolling and rolling!
- ✓ has cutting edge quality and induction hardened roll forgings from well-known German steel mills.
- ✓ has top hydraulic and electronic components from the best suppliers.
- ✓ has heavily proportioned frame and mechanical parts.



SPECIAL REQUIREMENTS

With our standard range of models as a foundation, we design and produce custom-built and adapted plate rolls for specific customer needs. This can mean producing a machine with a unique roll diameter, special roll length or even a customized shape of the rolls. Request help with integrating the machine in your product line, demand special features and ask for what you think is impossible; we'll gladly prove you wrong!



THE PB3 SERIES

PLATE BENDING / PLATE ROLLS WITH 3 ROLLS

Perfect for bending companies and job shops (see the PB4 for machines for production applications).

The **PB3** (Plate Bending 3 roll) series is the strongest 3 roll machine ever made. These are versatile and universal machines. Through advanced engineering and knowledge of components, we can guarantee the highest prebending power and drive torque compared to all similar sized machines on the market. The bending roll power is the key factor in bending.

SweBend has developed a new complete standard range of three roll plate bending machines, starting with the PB3-4-500 (top roll Ø 4", length 20') and stretching all the way up to the giant PB3-42-14 (top roll 42", length 14'). We will of course also deliver other lengths, shorter as well as longer, up to 26' length. Our standard machines handle plate thickness range 18 ga. - 10", in virtually any grade of steel or other material.

MADE IN SWEDEN - BECAUSE QUALITY MATTERS



EXPLORE THE PB3 SERIES FURTHER ONLINE:



SEE THE PB3 CAPACITY TABLE ON PAGE 8 →

STANDARD FEATURES

- Double-pinch pyramid design, enabling prebending at both ends of the plate
- Razor sharp electronic control of roll parallelism (+/- 0.004") tolerance)
- Wireless control unit with variable speed joysticks and digital readouts
- Hardened & ground rolls with polished roll finish
- Easy prebending and rolling in either direction
- Tilttable bending rolls
- Variable rotation speed
- Four digital readouts (one for each end of both lower rolls)
- 3 hydraulically driven rolls
- SKF bearings only
- Top electrical & hydraulic components from the best suppliers
- Hydraulic opening mechanism (drop end) for unloading finished rolled product
- Emergency stop devices
- CE-Certification

OPTIONAL FEATURES

- Customized roll crowning
- Special rolls with contour, grooves etc., to allow bending plates with flanges and/or ribs
- Changeable top roll for rolling diameters smaller than possible with the standard top roll (Extra Top Roll)
- Cone bending device (key or roll)
- Special color and design
- Oil cooling system
- Top support/lifting device with electro-mechanical or hydraulic operation
- Side supports
- Calibration Systems
- And much, much more...

THE PB4 SERIES

PLATE BENDING / PLATE ROLLS WITH 4 ROLLS

Perfect for bending companies and production applications.

The **PB4** (Plate Bending 4 roll) series with the optional SweBend SEVEN CNC system is ideal for repetitive series production. The double pinch bending mechanism allows for optimal results in only one pass, which equals reduced production time! The bending precision and ease of use allows for the mass production of complex shapes and radii transitions. Through advanced engineering and knowledge of components we can guarantee the highest prebending power and drive torque compared to all similar sized machines on the market.

The PB4 series from SweBend offers twelve different standard size ranges, from PB4-4 with top roll diameter 4" up to PB4-28 with top roll diameter 28". With roll lengths from 20" up to 26', SweBend will always offer the best machine.

 **MADE IN SWEDEN - BECAUSE QUALITY MATTERS**

CUSTOMIZED FOR YOUR APPLICATION.

All machines are designed and engineered using the latest 3D CAD systems, are heavily proportioned, and have more bending power compared to any other plate bending machine on the market. Our machines handle plate thickness in the range 18 ga. – 10", in virtually any grade of steel or other material.



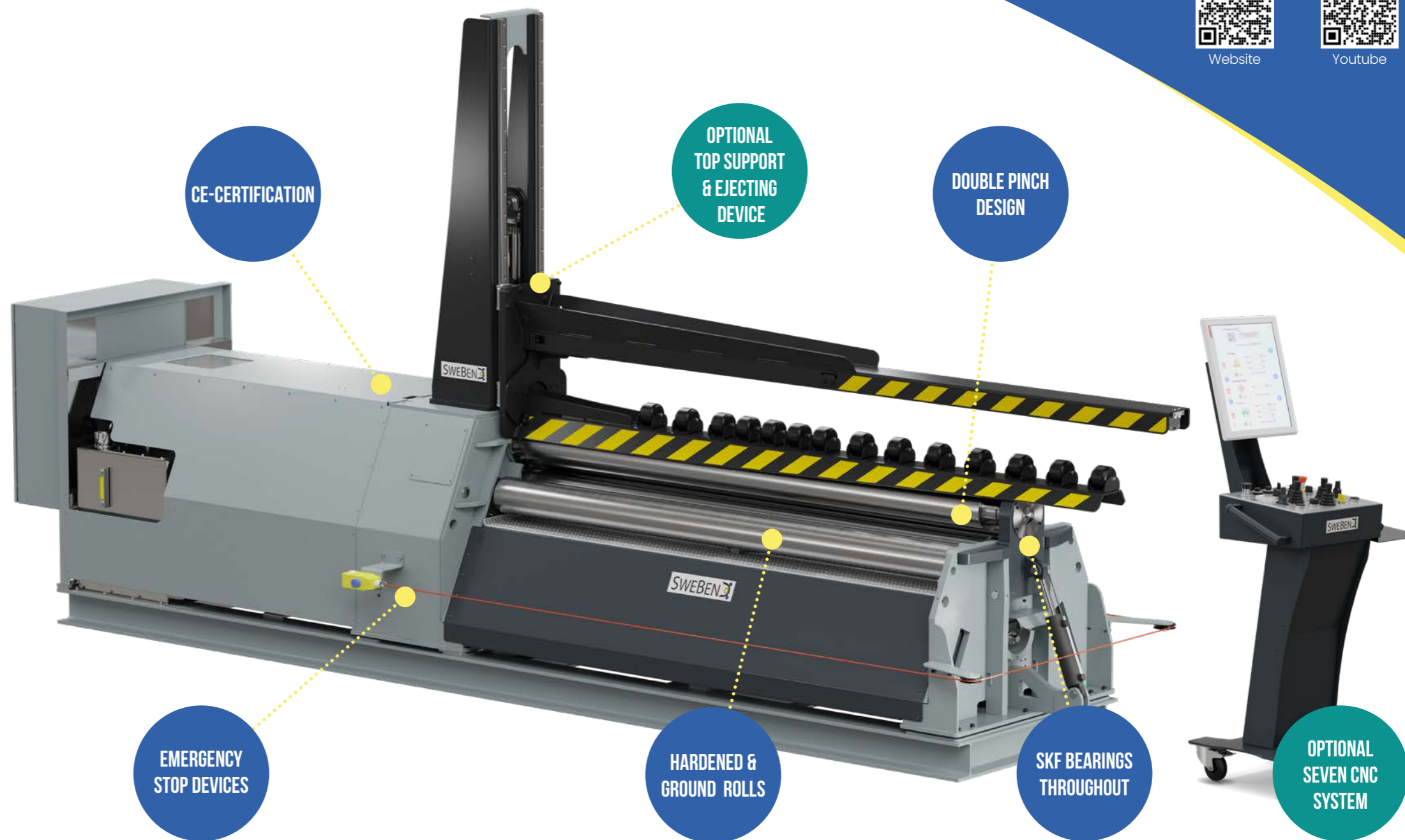
EXPLORE THE PB4 SERIES FURTHER ONLINE:



Website



Youtube



SEE THE PB4 CAPACITY TABLE ON PAGE 9 →

STANDARD FEATURES

- Double-pinch design, enabling prebending at both ends of the plate
- Razor sharp electronic control of roll parallelism (+/- 0.004" tolerance)
- Wireless control unit with variable speed joy sticks and digital readouts
- Hardened & ground rolls with polished finish
- Easy prebending and rolling in either direction
- Tilttable bending rolls
- Variable rotation speed
- Four digital readouts (both ends of both side rolls)
- Top and lower roll hydraulically driven
- SKF bearings only
- Top electrical & hydraulic components from the best suppliers
- Hydraulic opening mechanism (drop end) for unloading finished rolled product, including hydraulic raising of the top roll when the drop end is opened (optional on PB4-4 models)
- Emergency stop devices
- CE-Certification

OPTIONAL FEATURES

- Customized roll crowning
- Support rolls under the lower roll
- SEVEN – SweBend's own trademarked Graphical CNC SYSTEM
- "Turbo Production" kits in combination with CNC
- Special rolls with contour, grooves etc., to allow bending plates with flanges and/or ribs
- Integration in production cells, including communication with other software systems
- Changeable top roll for rolling diameters smaller than possible with the standard top roll
- Cone bending device (key or roll)
- Material ejection devices
- Plate handling equipment and robot loading (infeed tables, lifters & loaders)
- Special color and design
- Calibration Systems
- Side supports
- Top support with electro-mechanical or hydraulic operation
- And much, much more...

EXTENDED FEATURE

SEVEN – SWEBEND'S CNC CONTROL SYSTEM



THE POWER OF “SEVEN”

No two bending applications are the same. Many factors, including material size and thickness, mechanical properties, spring back, diameter, etc. can influence the bending requirements necessary to roll an acceptable part.

With the **SEVEN CNC** system, we can help take the guess work out of your rolling operation. The precision bending assistant IRMA, will easily accommodate for minor variations that are commonly found in all materials, which gives you the ultimate control over the entire rolling process.

Design any shape possible with **ADAM** - The Automated Design Assistant Manager and create precise production planning with the **SEVEN Simulator** which estimates the cycle time, runs the program in your preferred time-scale and calculates valuable data. Unsure of how much control you'll need? We'll optimize the number of CNC-controlled axes for your bending requirements.

- ✓ AVAILABLE IN MORE THAN 30 LANGUAGES!
- ✓ EASY, USER FRIENDLY GRAPHICAL INTERFACE
- ✓ TEMPLATES TO GET YOU UP AND RUNNING FAST



The SEVEN Control Panel



IRMA



ADAM

PERFECTLY MATCHED TO MEET YOUR REQUIREMENTS

The **SEVEN CNC** is available in several versions depending on your specific requirements. Choose from CPUs with differing processing speeds, touch screen monitors from 6.5” to 19”, enhanced software features and the number of CNC-controlled axes.

All **SEVEN CNC** systems feature components from Beckhoff of Germany, whose quality and worldwide presence ensures a stable hardware platform for many years to come. All systems come with online support via TeamViewer to assist you with programming questions and troubleshooting any issues with the machine.

In addition, the **SEVEN CNC** can be adapted to integrate your auxiliary equipment, such as robots, material handling equipment, etc.

FOR NEW & OLD MACHINES

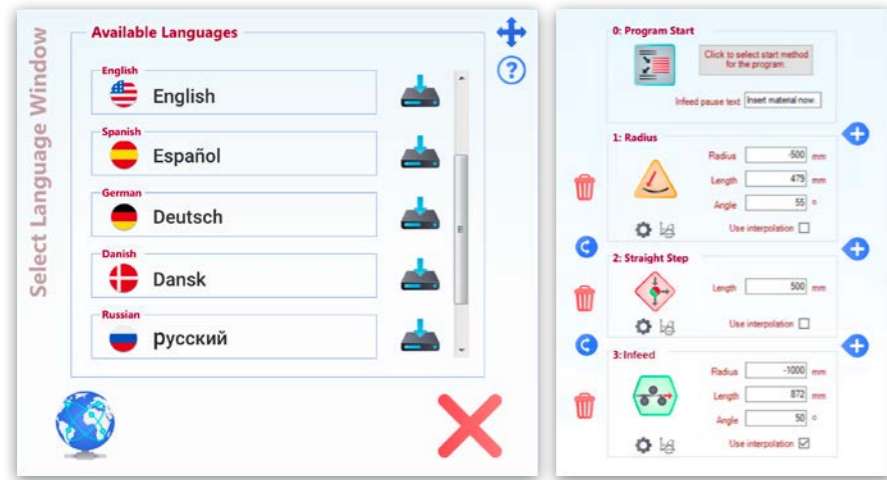
We'll upgrade your old machine (with or without CNC) and train your operators in only three days!

BLUETOOTH CONTROL UNIT

Control your machine's functions from anywhere in the room. The Bluetooth protocol handles 24 digital signals (directional signals), 2 analog signals and 4 position signals (digital readouts). Thanks to the control unit's high adaptability it can control almost any type of bending machine in the industry.

Customized for you - you're the final voice,

SweBend will set up the control according to your wishes!



Easy, user friendly graphical interface.

Templates to get you up and running fast.



POWERFUL CONTROL

Equip your machine with our perfectly tuned and operator-friendly SEVEN CNC control system that will ensure market leading quality, greatly reduce previous production times and reduce learning time & skill training. Ask us about it!



UNMATCHED FREEDOM

As standard, your machine will be equipped with the SweBend Bluetooth Control unit, which is a hand-held wireless control unit that gives the operator full freedom to control all machine functions from anywhere in the room.



SERVICES

Owning a bending machine demands for a lot of attention to maintenance, training and living up to production requirements. For the experienced bender, this is second nature but can become too much when demand is high. We've developed and offer these services to face these problems and support bending machine owners (specialists) in their day-to-day business.



PERSONNEL TRAINING

Even the best machines require skilled operators, and therefore we offer training as well. This can be done in your workshop, using your specific equipment and products, in order to make it as efficient as possible. We offer general or customer-specific training programs for rolling, CNC controls (basic and advanced) and maintenance.



REFURBISHED MACHINES

Our large network of representatives and agents around the world are often able to supply new, used and refurbished bending machines for quick delivery. Turn to one of our resellers (page 13) for available machines.



SPARE PARTS

Even for the very best of machines, things can happen and you may need spare parts urgently. This could be an oil filter, a joystick, a push button, an encoder or a hydraulic valve, but regardless which part it is, do not hesitate to ask us for a quote. Be assured we will always do our utmost to get you the replacement part in the shortest possible time.



SERVICE & OVERHAULING

To get maximum performance from your machines, it is important to keep them in good shape. Let us perform your next service, and at the same time check the overall machine condition for you.

A smaller repair at an early stage is more economical than an unexpected breakdown later on (and those always come when things are really busy, don't they?). We also do full overhauling jobs, modifications and upgrades on old machines. This includes mechanical, hydraulic, electrical and CNC controls.

LONG TERM RESELLERS

SweBend continuously expand its network of resellers.

Ask us for a reseller close to You!



TRILOGY MACHINERY, INC.
North America & Mexico
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POWERING THE WORLD'S LEADING BENDING COMPANIES

ABOUT SWEBEND

THE SWEBEND EXPERIENCE

At SweBend, we pride ourselves on creating a welcoming atmosphere where customers and agents feel valued and at home. This is achieved through our serious dedication to our work and respectful, honest interactions. We value long-term relationships and we stand by our promises, ensuring that our machines function exactly as we guarantee from the very first day.

“WE VALUE LONG-TERM RELATIONSHIPS AND WE STAND BY OUR PROMISES.”

In essence, the SweBend experience is about creating a home-like atmosphere, fostering long-term relationships, maintaining reliability, and providing exceptional customer care through honesty and deep knowledge. We are committed to upholding these values in every interaction and service we provide.

This is what we call “the SweBend experience.”
/ Peter Nilsson, CEO & Sales



ABOUT SWEBEND

THE STORY OF SWEBEND



The story of SweBend originates with Roundo®, once considered the worlds best bending machine manufacturer, with clients such as Rolls-Royce, John Deere, Toyota, Volvo and over 16,000 machines delivered all over the world.

When the founder passed away, Peter Nilsson, whom he had mentored for almost 30 years, was appointed as his successor. Following a change of ownership at the company and the ensuing bankruptcy and closing of the Roundo factory in Sweden, Peter decided to work on a new venture, and joined by Roundo's best, brightest and most experienced team members, they combined their bending machine expertise – and SweBend was born.

Now, our sophisticated yet user-friendly machines supply the world's leading bending companies such as Barnshaws, Danvals, Den Oudsten, Kersten Europe, Sjölund, Van Rijsoort, etc. with perfect bending results which are produced effortlessly yet efficiently. Through innovation, profound quality thinking and unmatched engineering expertise, we take great pride in building machines that have the market's highest return on investment, a reason why so many loyal clients keep coming back to us to solve their toughest bending problems.

By breaking down our clients' bending challenges and then explaining to our customers the fundamental theory behind it, we produce modern, powerful and specifically purposed bending machines. The sophisticated functionality of our machines is easily

mastered by our clients as we assist them in becoming expert benders.

Located in Sweden, with renowned Swedish quality and a client-focused mindset, our passion for developing high-end bending machines has been recognized by clients all over the world. Through our vast knowledge of bending increasingly challenging materials, we continuously update our machines' technology with more sensors, better controls and improved software functionality. (Ask us about our renowned CNC system "SEVEN"; we can update old and even analog machines).

“WE PRODUCE MODERN, POWERFUL AND SPECIFICALLY PURPOSED BENDING MACHINES.”

Our clients value long term quality investments and choose the path of innovation, unmatched expertise and a powerful worldwide support network consisting of an increasing list of trusted resellers.

We look forward to working with you. Ask us about our section-, plate- and tube bending rolls, CNC systems, flighting, augers and spiraling machines, special rolls and tooling, and more!

The Roundo name is now a registered trademark of Faccin S.r.l.

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THE WORLDS BEST BENDING MACHINES



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