

# SWEBEND



# PLATE BENDING MACHINES



[WWW.SWEBEND.COM](http://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.

### ✓ **“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 parallelism**

For outstanding bending precision, our plate bending machines are equipped with a razor sharp roll parallelism control system with a tolerance of +/- 0.1mm (0.004"). This precision parallel system is powered by control systems from Beckhoff, a leader in industrial automation and controls.



## **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.



## **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!



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!





# SWEBEND

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 heavily proportioned frame and mechanical parts.
- has top hydraulic and electronic components from the best suppliers.
- has cutting edge quality and induction hardened roll forgings from well-known German steel mills.
- has bearings from SKF (the world famous Swedish bearing company) throughout the entire machine which will keep it rolling, rolling and rolling!



## 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!



## 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!**





# THE PB3 SERIES

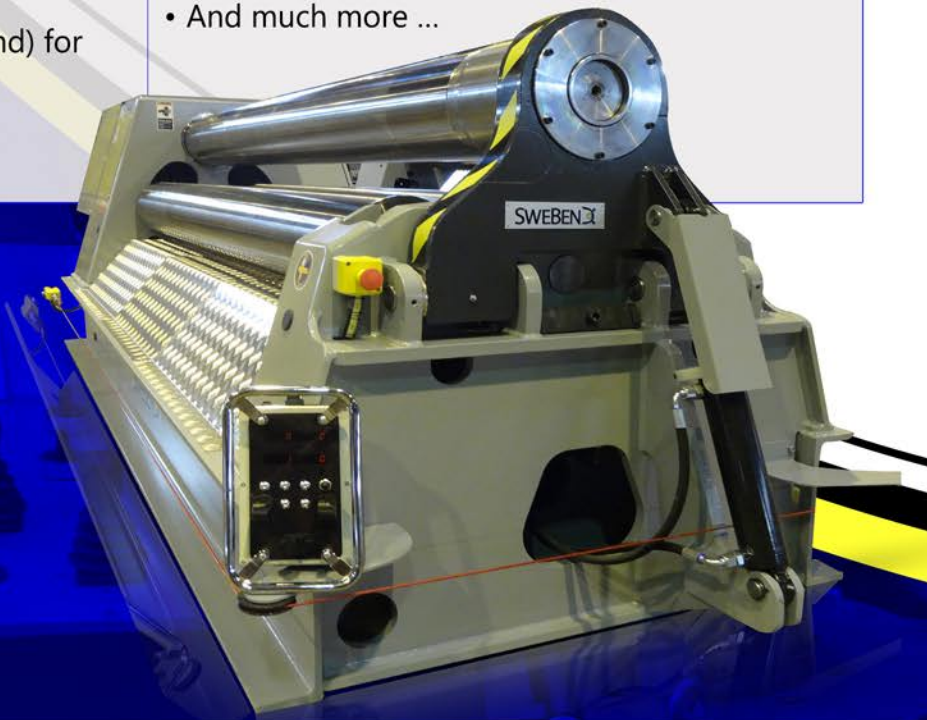
Perfect for bending companies and job shops (see the PB4 for machines for production applications). The PB3 (Plate Bending 3 roll) series is the strongest 3 roll machine ever made. These are versatile and universal machines. Through advanced engineering and knowledge of components, we can guarantee the 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.

**Higher power → fewer passes → higher production capacity → higher profit → shorter pay-off**

SweBend has developed a new complete standard range of three roll plate bending machines, starting with the PB3-4-2 (top roll Ø100 mm (4"), length 650mm (2') and stretching all the way up to the giant PB3-40-12 (top roll Ø1000 mm (40"), length 3650mm (12')). We will of course also deliver other lengths, shorter as well as longer, up to 8000 mm (26') length. Our machines handle plate thickness range 1mm – 250mm (18 ga. – 10"), in virtually any grade of steel or other material.

## FEATURES

STANDARD	OPTIONAL
<ul style="list-style-type: none"> <li>• Double-pinch pyramid design, enabling prebending at both ends of the plate</li> <li>• Razor sharp electronic control of roll parallelism (+/- 0.1mm (0.004") tolerance)</li> <li>• Wireless control unit with variable speed joysticks and digital readouts</li> <li>• Hardened &amp; ground rolls with polished roll finish.</li> <li>• Easy prebending and rolling in either direction</li> <li>• Tiltable bending rolls</li> <li>• Variable rotation speed</li> <li>• Four digital readouts (one for each end of both lower rolls)</li> <li>• 3 hydraulically driven rolls</li> <li>• SKF bearings only</li> <li>• Top electrical &amp; hydraulic components from the best suppliers.</li> <li>• Hydraulic opening mechanism (drop end) for unloading finished rolled product</li> <li>• Emergency stop devices</li> <li>• CE-Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Customized roll crowning</li> <li>• Special rolls with contour, grooves etc., to allow bending plates with flanges and/or ribs</li> <li>• Changeable top roll for rolling diameters smaller than possible with the standard top roll (Extra Top Roll)</li> <li>• Cone bending device (key or roll)</li> <li>• Special color and design</li> <li>• Oil cooling system</li> <li>• Top support/lifting device with electro-mechanical or hydraulic operation</li> <li>• Side supports</li> <li>• Calibration Systems</li> <li>• And much more ...</li> </ul>



# THE PB3 SERIES



# CAPACITY TABLE

Our machine sizes can handle plate thickness 1 - 250 mm (18 ga. – 10"). Please let us know your specific requirements and we will guide you to the right machine. Don't worry – we can bend almost everything!

**TRD** = Top Roll Diameter.

**Prebending** is a finished bending operation after only one pass.

**Circular bending (Roll bending)** is method of bending through several passes, hence the increased capacity.

Model	Roll length feet	ROLL DIAMETERS		PREBENDING	CIRCULAR ROLLING		Motor Size HP
		Top inch	Bottom inch	PB 3*TRD inch	RB 5*TRD inch	RB 8*TRD inch	
PB3-6-3	3	6	6	1/4	5/16	3/8	5.5
PB3-8-3	3	8	8	1/2	5/8	11/16	7.5
PB3-6-4	4	8	8	7/32	9/32	5/16	5.5
PB3-8-4	4	10	10	7/16	9/16	11/16	7.5
PB3-10-4	4	12	12	9/16	7/8	15/16	10
PB3-6-5	5	6	6	3/16	1/4	9/32	5.5
PB3-8-5	5	8	8	3/8	9/16	5/8	7.5
PB3-10-5	5	10	10	9/16	3/4	7/8	10
PB3-12-5	5	12	12	3/4	1-1/8	1-3/16	20
PB3-14-5	5	14	14	1-1/8	1-7/16	1-9/16	30
PB3-16-5	5	16	16	1-7/16	1-3/4	2	40
PB3-18-5	5	18	18	1-3/4	2-3/16	2-3/8	60
PB3-20-5	5	20	20	2	2-3/8	2-9/16	75
PB3-22-5	5	22	22	2-1/4	3-1/4	3-7/16	95
PB3-24-5	5	24	24	3	3-1/2	3-3/4	120
PB3-28-5	5	28	28	3-1/2	4-1/2	5	168
PB3-6-6	6	6	6	7 ga.	7/32	1/4	5.5
PB3-8-6	6	8	8	5/16	1/2	9/16	7.5
PB3-10-6	6	10	10	1/2	11/16	3/4	10
PB3-12-6	6	12	12	11/16	15/16	1	20
PB3-14-6	6	14	14	1	1-3/8	1-7/16	30
PB3-16-6	6	16	16	1-1/4	1-9/16	1-3/4	40
PB3-18-6	6	18	18	1-1/2	2	2-3/16	60
PB3-20-6	6	20	20	1-3/4	2-3/16	2-3/8	75
PB3-22-6	6	22	22	2	2-7/8	3	95
PB3-24-6	6	24	24	2-9/16	3-1/8	3-3/8	120
PB3-28-6	6	28	28	3-3/8	4-3/16	4-1/2	168
PB3-6-8	8	6	6	5/32	3/16	7/32	5.5
PB3-8-8	8	8	8	1/4	7/16	1/2	7.5
PB3-10-8	8	10	10	7/16	5/8	11/16	10
PB3-12-8	8	12	12	9/16	13/16	15/16	20
PB3-14-8	8	14	14	7/8	1-1/4	1-3/8	30
PB3-16-8	8	16	16	1-1/8	1-7/16	1-9/16	40
PB3-18-8	8	18	18	1-3/8	1-3/4	1-7/8	60
PB3-20-8	8	20	20	1-9/16	2	2-3/16	75
PB3-22-8	8	22	22	1-3/4	2-9/16	2-5/8	95
PB3-24-8	8	24	24	2-3/16	2-3/4	3	120
PB3-28-8	8	28	28	3-1/8	3-7/8	4-3/16	168
PB3-6-10	10	6	6	10 ga.	7 ga.	3/16	5.5
PB3-8-10	10	8	8	7/32	11/32	7/16	7.5
PB3-10-10	10	10	10	3/8	9/16	5/8	10
PB3-12-10	10	12	12	1/2	3/4	7/8	20
PB3-14-10	10	14	14	11/16	1-1/8	1-1/4	30
PB3-16-10	10	16	16	1	1-1/4	1-3/8	40
PB3-18-10	10	18	18	1-1/4	1-5/8	1-3/4	60
PB3-20-10	10	20	20	1-3/8	1-3/4	2	75
PB3-22-10	10	22	22	1-9/16	2-5/16	2-7/16	95
PB3-24-10	10	24	24	2	2-9/16	2-3/4	120
PB3-28-10	10	28	28	3	3-5/8	3-7/8	168
PB3-8-12	12	8	8	3/16	1/4	3/8	7.5
PB3-10-12	12	10	10	5/16	7/16	9/16	10
PB3-12-12	12	12	12	7/16	5/8	3/4	20
PB3-14-12	12	14	14	9/16	1-1/16	1-3/16	30
PB3-16-12	12	16	16	13/16	1-1/8	1-1/4	40
PB3-18-12	12	18	18	1-1/8	1-1/2	1-9/16	60
PB3-20-12	12	20	20	1-3/16	1-9/16	1-3/4	75
PB3-22-12	12	22	22	1-7/16	2-3/16	2-1/4	95
PB3-24-12	12	24	24	1-3/4	2-3/8	2-9/16	120
PB3-28-12	12	28	28	2-3/4	3-3/8	3-9/16	168





# THE PB4 SERIES

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 102 mm (4") up to PB4-28 with top roll diameter 711 mm (28").

With roll lengths from 500 mm (20") up to 8 000 mm (26'), SweBend will always offer the best machine 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 1mm – 250mm (18 ga. – 10"), in virtually any grade of steel or other material.

## FEATURES

STANDARD	OPTIONAL
<ul style="list-style-type: none"> <li>• Double-pinch design, enabling prebending at both ends of the plate</li> <li>• Razor sharp electronic control of roll parallelism (+/-0.1mm (0.004") tolerance)</li> <li>• Wireless control unit with variable speed joysticks and digital readouts</li> <li>• Hardened &amp; ground rolls with polished finish.</li> <li>• Easy prebending and rolling in either direction</li> <li>• Tilttable bending rolls</li> <li>• Variable rotation speed</li> <li>• Four digital readouts (both ends of both side rolls)</li> <li>• Top and lower roll hydraulically driven</li> <li>• SKF bearings only</li> <li>• Top electrical &amp; hydraulic components from the best suppliers.</li> <li>• 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 and PB4-5 models)</li> <li>• Emergency stop devices</li> <li>• CE-Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Customized roll crowning</li> <li>• Support rolls under the lower roll</li> <li>• SEVEN – SweBend’s own trademarked Graphical CNC SYSTEM</li> <li>• "Turbo Production" kits in combination with CNC</li> <li>• Special rolls with contour, grooves etc., to allow bending plates with flanges and/or ribs</li> <li>• Integration in production cells, including communication with other software systems</li> <li>• Changeable top roll for rolling diameters smaller than possible with the standard top roll</li> <li>• Cone bending device (key or roll)</li> <li>• Material ejection devices</li> <li>• Plate handling equipment (feed tables, lifters &amp; loaders)</li> <li>• Special color and design</li> <li>• Calibration Systems</li> <li>• Side supports</li> <li>• Top support with electro-mechanical or hydraulic operation</li> <li>• And much more ...</li> </ul>

# THE PB4 SERIES





# CAPACITY TABLE

Our machine sizes can handle plate thickness 1 - 250 mm (18 ga. – 10"). Please let us know your specific requirements and we will guide you to the right machine. Don't worry – we can bend almost everything!

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		Top inch	Bottom inch	Side inch	PB 3*TRD inch	RB 5*TRD inch	RB 8*TRD inch	
PB4-4-3	3	4.2	4	4	10 ga.	7 ga.	3/16	3
PB4-6-3	3	6	6	5.5	1/4	5/16	3/8	5.5
PB4-8-3	3	8	8	6.3	1/2	5/8	11/16	10
PB4-4-4	4	4.2	4	4	11 ga.	5/32	7 ga.	3
PB4-6-4	4	6	6	5.5	7/32	9/32	5/16	5.5
PB4-8-4	4	8	8	6.3	7/16	9/16	11/16	10
PB4-10-4	4	10	10	8	9/16	7/8	15/16	15
PB4-4-5	5	4.2	4	4	12 ga.	10 ga.	5/32	3
PB4-6-5	5	6	6	5.5	3/16	1/4	9/32	5.5
PB4-8-5	5	8	8	6.3	3/8	9/16	5/8	10
PB4-10-5	5	10	10	8	9/16	3/4	7/8	15
PB4-12-5	5	12	12	10.3	3/4	1-1/8	1-3/16	30
PB4-14-5	5	14	14	12.4	1-1/8	1-7/16	1-9/16	40
PB4-16-5	5	16	16	13.6	1-7/16	1-3/4	2	60
PB4-18-5	5	18	18	15.4	1-3/4	2-3/16	2-3/8	90
PB4-20-5	5	20	20	16.5	2	2-3/8	2-9/16	120
PB4-22-5	5	22	22	18	2-1/4	3-1/4	3-7/16	150
PB4-24-5	5	24	24	19.5	3	3-1/2	3-3/4	160
PB4-28-5	5	28	28	22.2	3-1/2	4-1/2	5	220
PB4-4-6	6	4.2	4	4	14 ga.	11 ga.	10 ga.	3
PB4-6-6	6	6	6	5.5	7 ga.	7/32	1/4	5.5
PB4-8-6	6	8	8	6.3	5/16	1/2	9/16	10
PB4-10-6	6	10	10	8	1/2	11/16	3/4	15
PB4-12-6	6	12	12	10.3	11/16	15/16	1	30
PB4-14-6	6	14	14	12.4	1	1-3/8	1-7/16	40
PB4-16-6	6	16	16	13.6	1-1/4	1-9/16	1-3/4	60
PB4-18-6	6	18	18	15.4	1-1/2	2	2-3/16	90
PB4-20-6	6	20	20	16.5	1-3/4	2-3/16	2-3/8	120
PB4-22-6	6	22	22	18	2	2-7/8	3	150
PB4-24-6	6	24	24	19.5	2-9/16	3-1/8	3-3/8	160
PB4-28-6	6	28	28	22.2	3-3/8	4-3/16	4-1/2	220
PB4-6-8	8	6	6	5.5	5/32	3/16	7/32	5.5
PB4-8-8	8	8	8	6.3	1/4	7/16	1/2	10
PB4-10-8	8	10	10	8	7/16	5/8	11/16	15
PB4-12-8	8	12	12	10.3	9/16	13/16	15/16	30
PB4-14-8	8	14	14	12.4	7/8	1-1/4	1-3/8	40
PB4-16-8	8	16	16	13.6	1-1/8	1-7/16	1-9/16	60
PB4-18-8	8	18	18	15.4	1-3/8	1-3/4	1-7/8	90
PB4-20-8	8	20	20	16.5	1-9/16	2	2-3/16	120
PB4-22-8	8	22	22	18	1-3/4	2-9/16	2-5/8	150
PB4-24-8	8	24	24	19.5	2-3/16	2-3/4	3	160
PB4-28-8	8	28	28	22.2	3-1/8	3-7/8	4-3/16	220
PB4-6-10	10	6	6	5.5	10 ga.	7 ga.	3/16	5.5
PB4-8-10	10	8	8	6.3	7/32	11/32	7/16	10
PB4-10-10	10	10	10	8	3/8	9/16	5/8	15
PB4-12-10	10	12	12	10.3	1/2	3/4	7/8	30
PB4-14-10	10	14	14	12.4	11/16	1-1/8	1-1/4	40
PB4-16-10	10	16	16	13.6	1	1-1/4	1-3/8	60
PB4-18-10	10	18	18	15.4	1-1/4	1-5/8	1-3/4	90
PB4-20-10	10	20	20	16.5	1-3/8	1-3/4	2	120
PB4-22-10	10	22	22	18	1-9/16	2-5/16	2-7/16	150
PB4-24-10	10	24	24	19.5	2	2-9/16	2-3/4	160
PB4-28-10	10	28	28	22.2	3	3-5/8	3-7/8	220
PB4-8-12	12	8	8	6.3	3/16	1/4	3/8	10
PB4-10-12	12	10	10	8	5/16	7/16	9/16	15
PB4-12-12	12	12	12	10.3	7/16	5/8	3/4	30
PB4-14-12	12	14	14	12.4	9/16	1-1/16	1-3/16	40
PB4-16-12	12	16	16	13.6	13/16	1-1/8	1-1/4	60
PB4-18-12	12	18	18	15.4	1-1/8	1-1/2	1-9/16	90
PB4-20-12	12	20	20	16.5	1-3/16	1-9/16	1-3/4	120
PB4-22-12	12	22	22	18	1-7/16	2-3/16	2-1/4	150
PB4-24-12	12	24	24	19.5	1-3/4	2-3/8	2-9/16	160
PB4-28-12	12	28	28	22.2	2-3/4	3-3/8	3-9/16	220



# ~ EXTENDED FEATURE ~ SEVEN – SWEBEND'S CNC CONTROL SYSTEM



## PERFECTLY MATCHED TO YOUR REQUIREMENTS

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 SweBend "Seven" CNC control, we can help take the guess work out of your rolling operation. The powerful operating environment can easily accommodate minor variations that are commonly found in all materials, which gives you the ultimate control over the entire rolling process. SweBend can optimize the number of CNC-controlled axes for your specific bending requirements.

## THE POWER OF "SEVEN"

The Seven CNC control 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 controls feature components from Beckhoff of Germany, ensuring top quality and a stable hardware platform for years to come, and 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 control 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

With our new wireless control device the operator remains in charge but is no longer tied to a stationary control. We listened to our customers and developed a revolutionary control unit that can be used to control almost any type of bending machine in the industry. The SweBend Bluetooth Control Unit allows full control over the operation by letting you control the machine from the best and safest working position.







# SERVICES



## 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

With a large network of representatives and agents around the world, we also have new and used bending and forming machines available for quick delivery. Ask us for our selection of such machines.



## SPARE PARTS

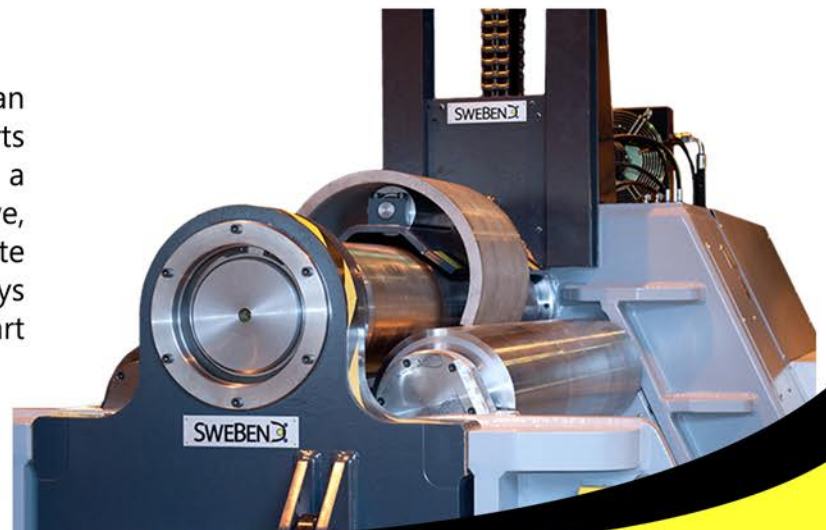
Even for the very best of machines, things can happen and you may need spare parts urgently. This could be an oil filter, a joystick, a push button, an encoder or a hydraulic valve, but regardless which part it is, do not hesitate to ask us for a quote. Be assured we will always do our utmost to get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





# ABOUT SWEBEND

SweBend is a company specializing in bending and forming technology. The company is located in Hässleholm in the very south of Sweden. Our team of dedicated and experienced engineers and mechanics offers the best possible solutions when it comes to section, plate and tube bending, CNC systems, flights, augers and spiraling machines and rolls and tooling. Together we have a solid foundation of experience and know-how of what it takes to design, manufacture and install machines that will be a cornerstone in your production. SweBend's biggest strength is the ability and willingness to customize our machines to meet the exacting requirements of even the most demanding applications.

Customers are quickly seeing that the new choice in bending rolls is SweBend, as evidenced by the large number of orders for SweBend machines.

We believe in strong and lasting commitments with our customers, representatives, agents and co-operation partners around the world. For us, all contacts are treated the way they should be, i.e. promptly and with maximum attention.



# RESELLERS



TRILOGY MACHINERY, INC.  
North America  
[www.trilogymachinery.com](http://www.trilogymachinery.com)  
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