USA

GROW YOUR BUSINESS WITH WILA

PRESS BRAKE PRODUCTIVITY TOOLING

www.wilausa.com

WILA
SINCE 1932
THE PRESS BRAKE PRODUCTIVITY PEOPLE

PRESS BRAKE PRODUCTIVITY

GROW YOUR BUSINESS with WILA

With over 85 years of experience, WILA is dedicated to help you maximize your Press Brake Productivity.

Being the only piece of equipment that actually touches the workpiece during the bending process, press brake tooling is an integral component of any successful bending operation. WILA develops and manufactures durable and high-quality precision tooling that is known to retain its long-lasting precision for over a decade. Our award-winning innovations make the tool changing process faster, safer and extremely accurate.

Our goal is to provide you with the best solution for your bending applications. Our Press Brake Productivity professionals have extensive knowledge of bending and the many challenges you might face in meeting the demands of your customers. We can support you directly and online or through your local WILA partner.

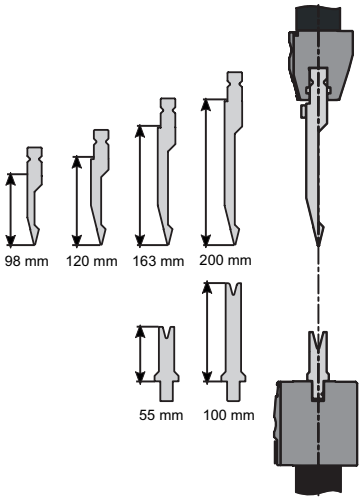
If you are looking for fast and easy tool advice, try WILA's online Tool Advisor. With the WILA Tool Advisor, you will receive tool advice based upon your part profiles. You can even design a modified standard tool or a custom tool to meet your specific needs.

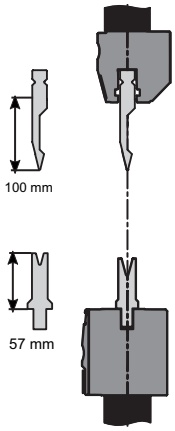
PRODUCT RANGE

WILA develops and manufactures tooling systems for press brakes. No two applications are the same and each situation is different. WILA is able to meet all needs via three separate product ranges - New Standard Premium, New Standard Pro and American Style. These lines of products reflect a level of quality that serves as the international standard in press brake tools.

NEW STANDARD PREMIUM

Press brake tools of the very highest quality, which are based on WILA's long standing expertise and experience. They have been developed with great care in order to comply with extreme tolerances and the most complex requirements under all conditions. New Standard Premium is appreciated for its uncompromising performance and quality in sheet metal processing industries throughout the world.



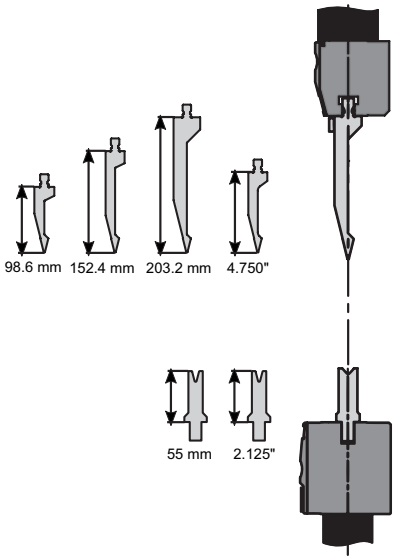


NEW STANDARD PRO

The leading standard for bending applications with less extreme requirements, but where top quality and productivity are essential. New Standard Pro Tooling is a comprehensive WILA product line and has been developed for tools with a limited working height. An intelligent combination between clamping system and tooling helps to guarantee perfect and consistent bending results.

AMERICAN STYLE

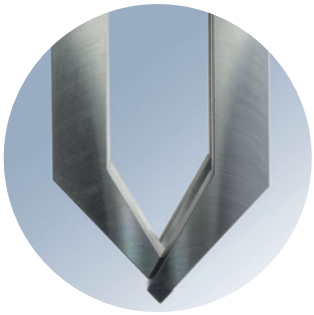
The WILA product range designed especially for the North American market. American Style press brake tools and accessories have been carefully adapted by WILA to suit the American approach to sheet-metal bending. This range of products is ideal for all press brakes with an American Style upper beam configuration. Of course, WILA's American Style product range is also characterized by very high quality standards.



THE BENEFITS OF WILA PRESS BRAKE TOOLING

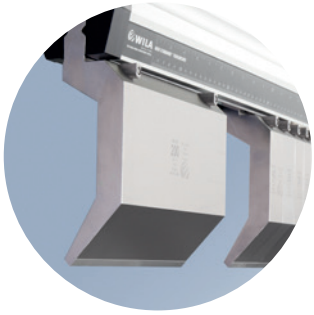
MORE FREEDOM, HIGHER CAPACITY

Finding the right balance between bending freedom and load capacity is key. WILA Tooling provides maximum bending freedom while easily sustaining the loads that are required for most bending applications.



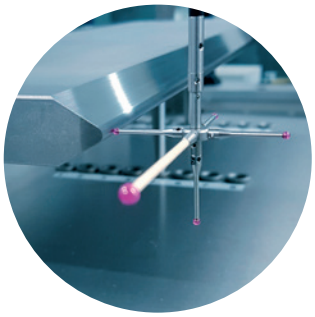
DESIGNED FOR FLEXIBILITY

Spend less and bend more with a limited selection of WILA tooling. Segmented and reversible tooling of the optimum height allows for the forming of a wide variety of part configurations.



LONG TOOL LIFE

WILA has set the benchmark by producing precision tooling with guaranteed specifications and proven long lasting tool quality for many years now. Tool segments, new and existing, are guaranteed to match up.



MAXIMUM PRECISION

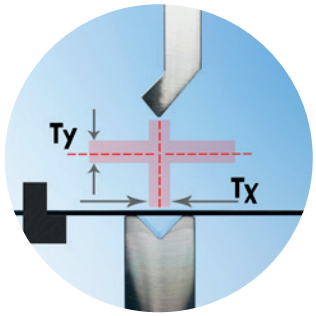
We precision grind our tools after we harden them. WILA tools are produced to a tolerance of up to +/- 0.01 mm (+/- 0.004"). and undergo strict quality assurance checks at every step in the production process. This guarantees an extreme level of precision for each WILA tool.

FAST AND SAFE TOOL CHANGES

Our Safety-Click® and Easy-to-Move® (E2M) technology maximizes speed and safety when changing top and bottom tools vertically or horizontally.

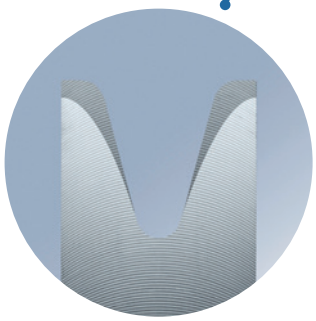
EASY TOOL IDENTIFICATION

With a scannable DM-code on every New Standard Premium tool, WILA provides an Industry 4.0 tool management solution for easy identification and tool data exchange.



SELF-SEATING AND ALIGNING

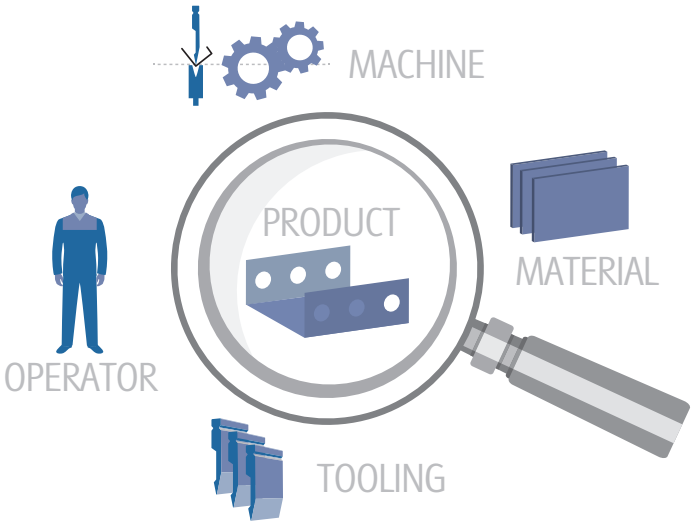
WILA Tooling is self-clamped, seated, centered, and aligned to extreme accuracy when used in WILA Top and Bottom Tool Holder systems. They undergo extra processing to prevent adhesion to other tools when placed in a Tool Holder. Our V-Lock® technology ensures that all bottom tools are firmly secured.



HARDENED CONTACT SURFACES

Our New Standard Premium Tooling is CNC-Deephardened® to 56-60 HRC, up to 4 mm (.157") on all working surfaces. This provides maximum wear resistance, durability, and long-term accuracy.

TOOL SELECTION



Selecting the right tool not only has a great effect on the quality of the end product, but can also save you a lot of time and money. First of all, it is important to understand that using the best tools for the job is one of four major elements that influence the end result. You should make sure that the quality and consistency of the material, the press brake itself and the skills of the operator all match up to create a high quality product.

SPEND LESS. BEND MORE.

WILA segmented tooling enables you to bend a variety of bend angles and lengths with a limited set of tooling. Limiting the tooling selection to only what's necessary and investing in quality enables the lowest cost of ownership and maximum productivity for any press brake operation.

ASK THE EXPERTS.

At WILA, we pride ourselves on offering our customers world class applications support. Need assistance on tool selection? Our knowledgeable sales staff will work with you to develop a custom tool package, so you can bend everything you need to and avoid paying for tools you don't need.

GET ONLINE TOOL ADVICE.

Are you still using bend limit graphs to determine which tools to use? And tonnage charts to find the required loads? Then check out the WILA Tool Advisor. Based on the part profile that you draw in our Tool Advisor, you will be provided with a solution for your critical bends. Your machine specifications and existing tooling inventory will be taken into account.

Contact us to help you find the right tools for your applications and bend the same parts with fewer tools. Or try out our online Tool Advisor!

WILA TOOL ADVISOR

FAST AND EASY ONLINE TOOL ADVICE

1. **Draw your profile**
   Draw your own part profile by simply clicking and dragging on the canvas.

2. **Receive tool advice**
   You will receive tooling advice based on your part profile, its various properties, and your machine specifications.

3. **Collisions? Create a customized tool**
   Does the selected tool have any collisions with the drawn profile? No problem, simply let the Tool Advisor create a special customized tool for you, or customize the specifications of the tool by hand.

4. **Receive an instant quote or place your order**
   The WILA Tool Advisor is fully integrated with our Webshop and our highly automated production systems.
   Once you are satisfied with the advice, you can instantly request a quote or order your tools.

WILA WEBSHOP

Have you decided which products to order from WILA? Do you want information on pricing, availability and delivery times? A fast and easy way is to make a visit to our Webshop. The Webshop also features product information about Tool Holders (Clamping, Crowning and Bottom Tool Holders).

Create your account via: webshop.wilausa.com

WILA HIGH PRECISION TOOLING

This overview gives an impression of our range of standard WILA tooling. Our knowledgeable sales staff will work with you to develop a custom tool package, so you can bend everything and you are only paying for the tools you need.

Basic tool shapes

CUSTOM

Top tool	Bottom tool
Shape	Shape
Angle	Angle
Height	Height
Tip radius	V-opening
	Shoulder radius

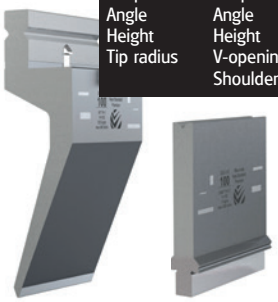
28° R=1 mm

80° R=1 mm

86° R=1 mm

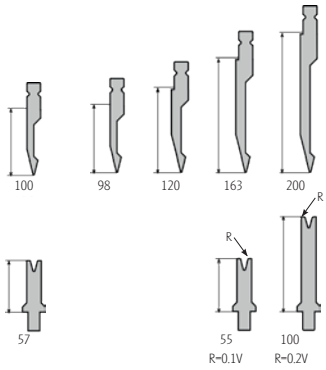
60° R=3 mm

30°, 86°
V=4-200 mm

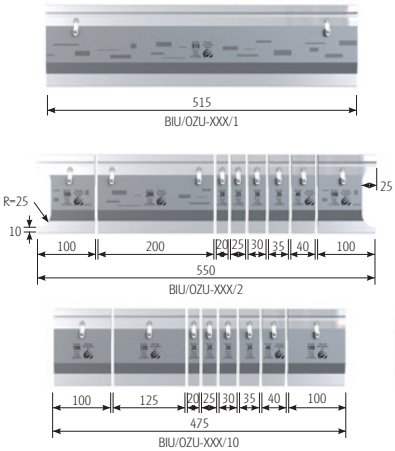


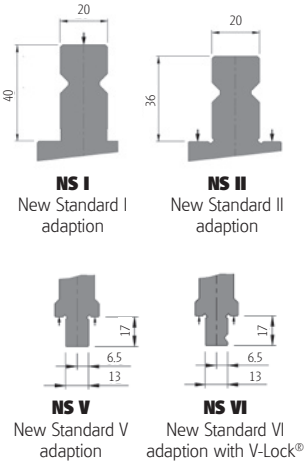
Customized

Tool heights, segment lengths and adaptions



New Standard Pro *New Standard Premium*





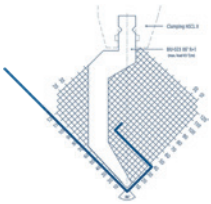
NS I
New Standard I adaption

NS II
New Standard II adaption

NS V
New Standard V adaption

NS VI
New Standard VI adaption with V-Lock®

Online tool advice, delivery times and ordering



Are you still using tonnage charts and bend limit graphs to determine the bend sequence, the required loads and to prevent collisions? Then check out the WILA Tool Advisor.

Have you decided which products to order from WILA? Do you want information on pricing, availability and delivery times? Visit the WILA Webshop.

FACTSHEET	NEW STANDARD® PREMIUM	NEW STANDARD® PRO	AMERICAN STYLE®
Material	High tensile CrMo steel alloy, ≥ 1.000 N/mm² minimum for maximum durability.	High quality tool steel, suitable to meet the demands for all normal bending jobs.	High tensile CrMo steel alloy, ≥ 1,000 N/mm² for maximum durability.
Hardening	All working areas are CNC-Deephardened® to 56° Rc minimum, width a depth of ≥ 4 mm (0.157") - for maximum longevity.	All bending radii are precision ground and CNC-Deephardened® to 52° Rc minimum to a depth of 2 mm (0.079") for long tool life.	CNC Deep-hardened® to 52 Rc, with a depth of ≥ 2 mm (0.079")
Accuracy	All working surfaces are precision ground to +/- 0.01 mm (0.0004") for highest accuracy (adequate for V=6 mm * S).	All working surfaces are precision ground to +/- 0.02 mm (0.0008") for highest accuracy (adequate for V=8 mm * S).	All working surfaces are precision ground to +/- 0.02 mm (0.0008")

A flexible, precision tool package can not only save money on the initial tooling investment, but it can also lead to exponential savings on the production line. By learning how to bend the same parts with fewer tools, operators can reduce their number of setups per day.

Equipping for flexibility

A job shop might use a 3 meter press brake that is equipped with WILA's New Standard Premium Tool Holders. If they typically bend angles between 30° and 180° in 1-3 mm (.036" - .118") mild steel, the following tooling would allow them to do just that.

Punches

Acute

BIU-021
New Standard Premium
Working height = 163 mm, α = 28°,
Tip radius = 1 mm
Max. load = 70 ton/m

Gooseneck

BIU-023
New Standard Premium
Working height = 163 mm, α = 86°,
Tip radius = 1 mm
Max. load = 65 ton/m

1x

5x

Dies

V=8 mm

OZU-351
New Standard Premium
Working height = 100 mm,
V-opening = 8 mm/30°,
Shoulder radii = 2.5 mm
Max. load = 80 ton/m (α = 90°)

V=12 mm

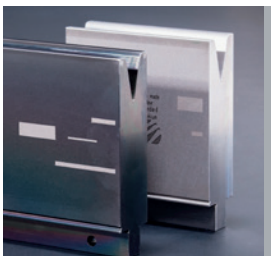
OZU-352
New Standard Premium
Working height = 100 mm,
V-opening = 12 mm/30°,
Shoulder radii = 3 mm
Max. load = 80 ton/m (α = 90°)

V=16 mm

OZU-353
New Standard Premium
Working height = 100mm,
V-opening = 16 mm/30°,
Shoulder radii = 3.5 mm
Max. load = 80 ton/m (α = 90°)

V=24 mm

OZU-354
New Standard Premium
Working height = 100mm,
V-opening = 24 mm/30°,
Shoulder radii = 5 mm
Max. load = 80 ton/m (α = 90°)



"To prevent galling when bending galvanized sheet metal, we use coated WILA New Standard dies. We have formed over 100.000 bends without the need for cleaning with abrasive pads."
Goma, Hengelo (NL)

1x

5x

TOOL MANAGEMENT

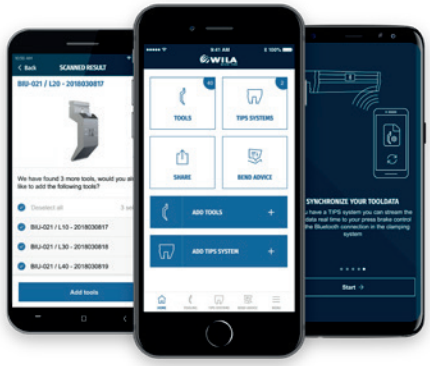
If you are familiar with lean manufacturing principles, you understand the advantages of efficient tool management. Tools should be stored near the press brake for easy access. You should also be able to identify and enter them into the press brake control quickly and easily. This will save time and help prevent mistakes during changeovers. With proper care, maintenance, and tool storage, WILA Tooling will retain its accuracy for ten years or more.

IDENTIFICATION

WILA Tools are inscribed with all the information an operator needs, including part number, critical dimensions, maximum load capacity, and weight.

Smart Tooling App

The WILA Smart Tooling App provides instant access to tool data anytime, anywhere. It offers major time savings, error-free tool data entry, and simplified tool inventory management. All WILA New Standard Premium tools feature a unique, scannable code, offering an Industry 4.0 Tool Management solution for digital tool data exchange.



Download on the App Store

GET IT ON Google Play

Scan your tool with the WILA app

Clear inscription on the tool

STORAGE

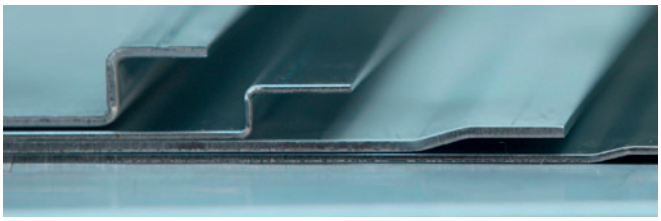
The WILA New Standard Tooling Cabinet provides an organized and safe method for tool protection and storage when not in use. Our cabinets are built strong and designed specifically to store WILA New Standard and American Style Press Brake Tooling. Each drawer has a weight capacity of 200 kg (440 lbs) and has two bottom plates to vertically store WILA tools.

MAINTENANCE

Protect your investment!
The Press Brake Productivity Wax ensures WILA Tooling always remain in top condition. This concentrated, liquid spray wax has been specially developed for cleaning, maintaining and protecting WILA tools.

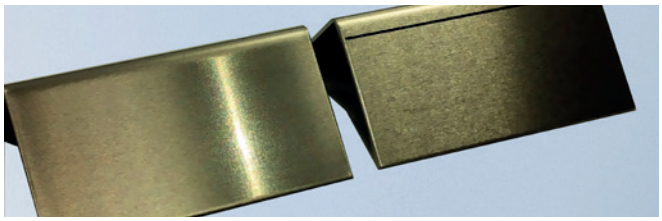
SPECIAL APPLICATIONS

OFFSET BENDING



Using offset bending, two bends that are close to each other can be formed simultaneously. These bends have the same angle and create parallel surfaces. WILA offers a range of offset tools to be used in combination with our holders for inserts. Tool offset heights vary from 1 to 15 mm (0.039" to 0.591").

MARK-FREE BENDING



To minimize marking due to bending, WILA offers solutions for tool maintenance, special Rotabend tools that reduce marking, coated tools to prevent galling and adiprene inserts, high grade foil or cloth to protect the material.

LARGE RADIUS BENDING

Large radius bending is characterized by creating an inside radius of at least 8 times the material thickness. WILA offers a range of large radius tools to be used in combination with our radius tool holders. Radii vary between 7 and 50 mm (0.276" and 1.969").

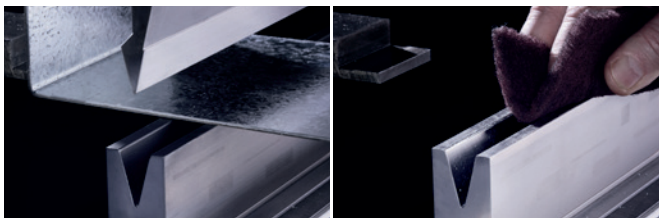
BOX BENDING

Box bending requires a lot of bending freedom. WILA tools are ideally suited for bending boxes. Our tight production tolerances and top quality material allow for tall top tools. If needed, using our tool extenders you can further expand the available bending freedom, leaving the open height of the machine as the last potential limitation.

HEAVY DUTY BENDING

For the bending of thicker plates, WILA offers a range of heavy duty bottom tools that form an ideal combination with our high load bearing radius tools. With our Heavy Duty ToolStation, it is surprisingly easy and safe to change even the largest and heaviest tools.

BENDING GALVANIZED SHEET



When bending galvanized sheet, galling occurs. WILA OZU-ZN Coating is a specially developed coating, which can be applied to all WILA CNC-Deephardened® bottom tools. This protective layer prevents zinc from depositing on the bending radii. Cleaning activities, which are a hindrance to productivity are a thing of the past.

HEMMING

By hemming sheet metal, sharp edges are eliminated and the sheet is reinforced. Hemming consists of two steps. First, the material is bent at approximately 30°. Next, the bent material is flattened. WILA offers different hemming solutions for occasional or frequent hemming and is able to handle a maximum sheet thickness of 4 mm (0.157") for mild steel.

CUT-OUTS NEAR THE BEND LINE

To minimize the deformation of holes and cut-outs that are near the bend line, the material needs to be fully supported during bending. Our Rotabend tools are more than suitable for the job and enable you to bend short flanges. As an alternative WILA also offers tools for bottom bending.

WILA.
THE PRESS BRAKE PRODUCTIVITY PEOPLE.

WILA is totally focused on providing a line of products and support systems to maximize the productivity of your press brakes. For over 85 years, WILA has specialized in Clamping Systems, Crowning Systems and Tooling and Accessories to reduce set-up time and improve accuracy of the press brake. Through strong partnerships with the world's leading press brake manufacturers, an extensive and trained dealer network, long experienced regional managers, dedicated application support and engineering staff, WILA is always close at hand to support your needs.

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