

ACCELL E

THE COMPETITIVE EDGE

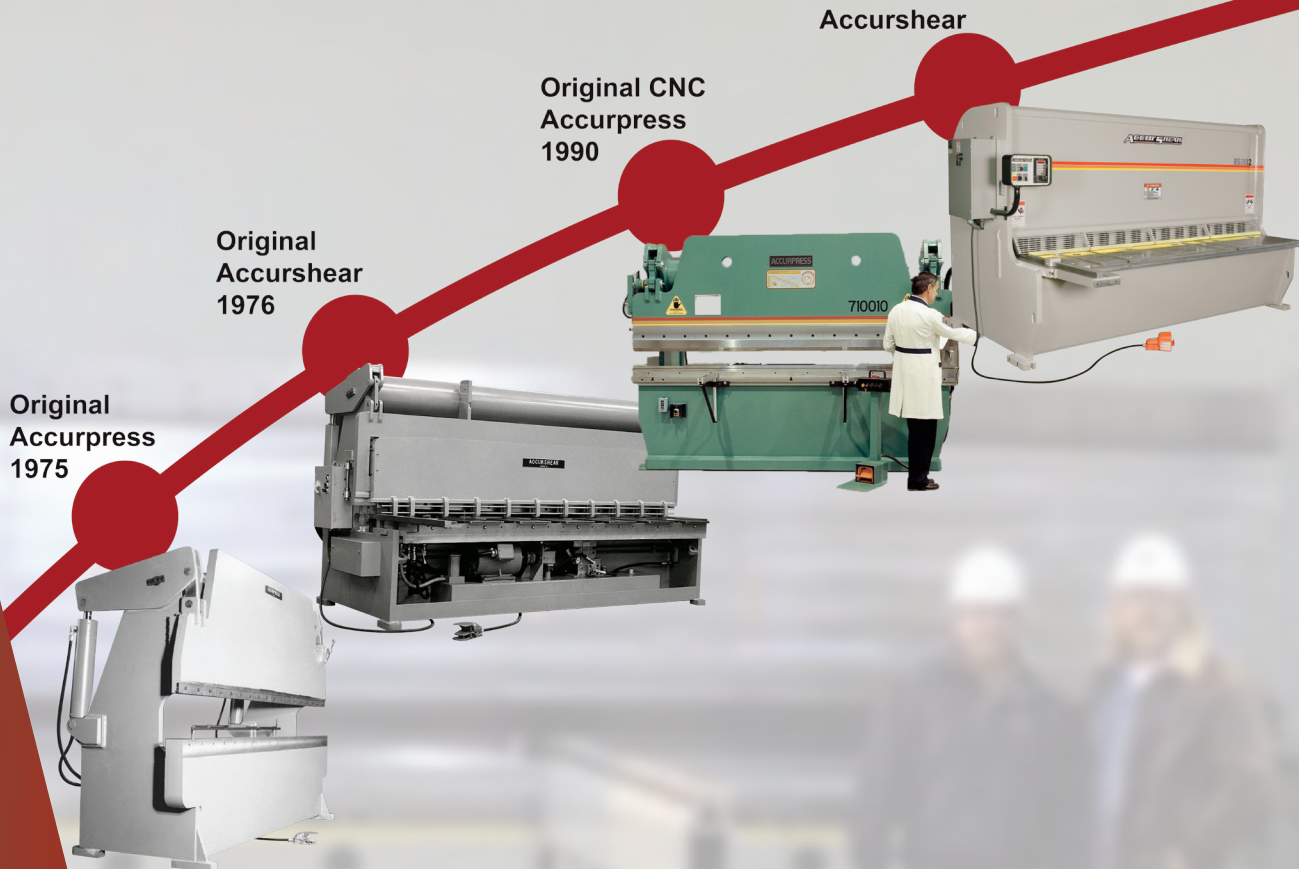


ACCELL U

UPGRADE PACKAGE

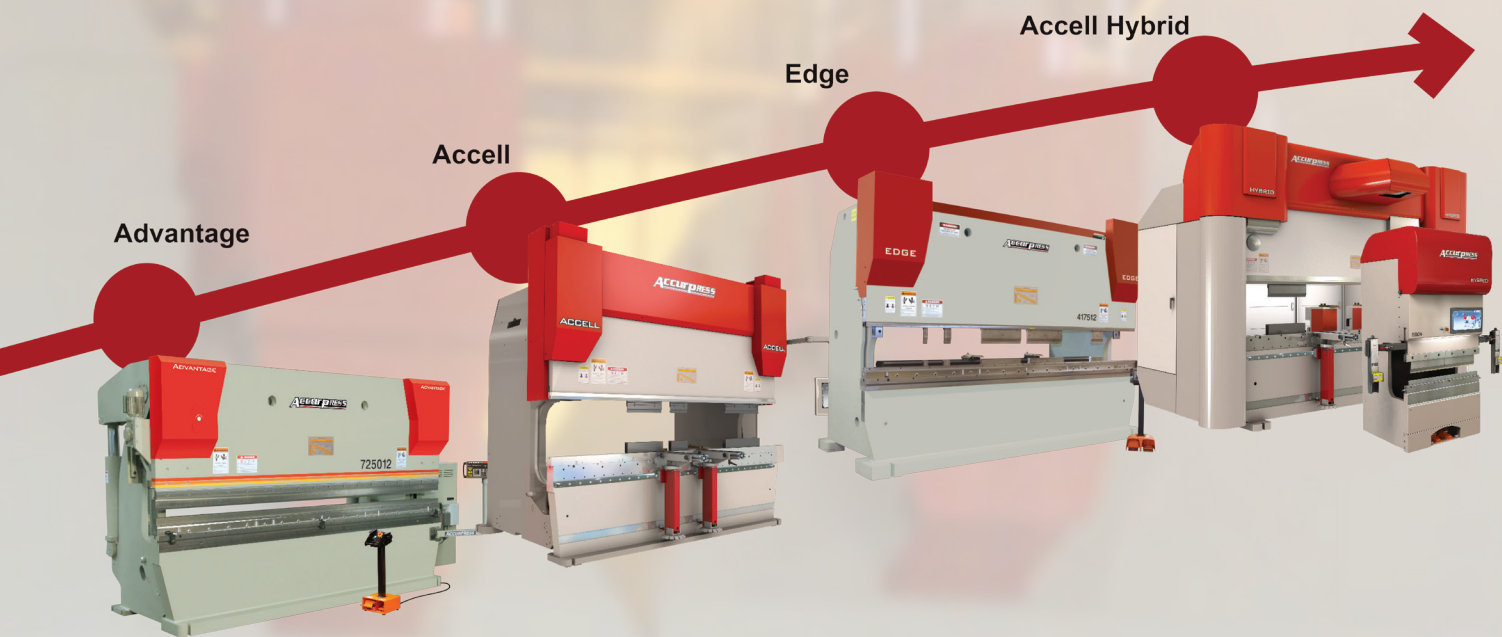
Accurpress

www.accupress.com



ABOUT US

With over 40 years in the marketplace, Accurpress continues to build on its tested history to manufacture an innovative and complete line of press brakes and shears for every bending and shearing application. Proudly North American made, Accurpress leads the way with high tonnage machines, revolutionary pole bending technologies, tandem machines and robot automation. With over 19,000 machines sold to thousands of satisfied customers, Accurpress continues to build press brakes and shears to meet the demands of today's manufacturing environments.



Steve Hilton
President

“While 40 years has brought huge changes to the machine tool industry, all of us at Accurpress continue to stand firm on the original foundation of quality that the company was built on. Every Accurpress machine, including the one you’ll buy, is made with 100% of our best efforts. Our business depends on it and so does yours.”

THE **ACCELL** LINEUP

A Complete Line of Y1/Y2 Machines

ACCELL **E** THE COMPETITIVE EDGE



Available from 75 - 500 Tons

The **Accell E** is the complete package. With a high-quality build, an impressive number of features and options, competitive pricing and advanced controls, this is your first choice in Y1/Y2 machine technology.

ACCELL H

HYBRID TECHNOLOGY



Available from 60 - 190 Tons

The **Accell H** exceeds performance expectations with its high speed forming and ability to tackle any application challenge. With advanced motion technologies and the most flexible features and options, the Accell H is the ultimate in creating complex parts.

Reference [ACCELL H Brochure](#) for complete list of features and options

ACCELL HT

HIGH TONNAGE



Available from 650 - 3000 Tons

The **Accell HT** features rugged builds, oversized components and powerful gauging devices. These machines are tough and durable and will stand up to any forming challenge. If you want to bend something big, we've got you covered.

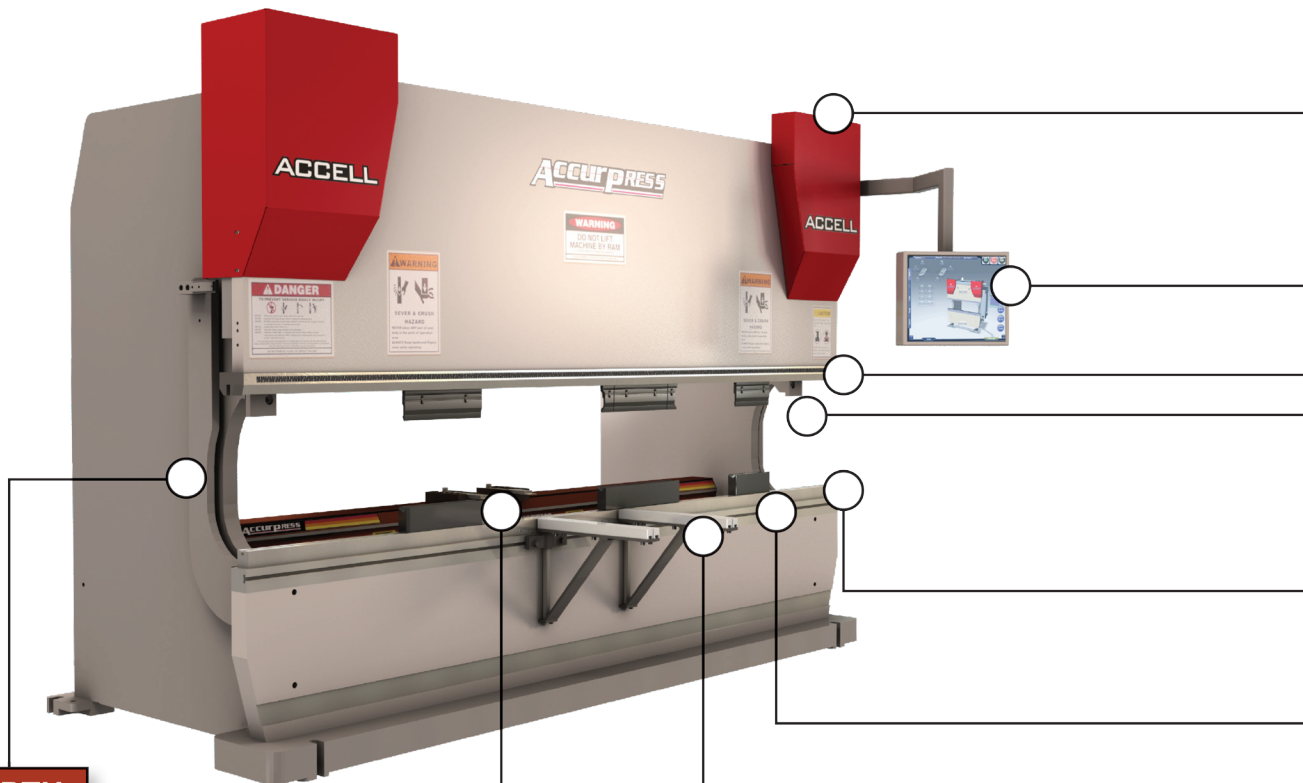
Reference [ACCELL HT Brochure](#) for complete list of features and options

ACCELL E

75 - 500 Ton Models

Your first choice in Y1/Y2 machine technology! With its quality build, impressive number of features and options, advanced Vision Control and competitive pricing, the Accell E is the total package.

FEATURING:



THROAT DEPTH

12" Throat Depth on machines up to 250 Tons.
14" Throat Depth on 350 – 500 Ton models.

BACKGAUGE OPTIONS

Accell E models include the Premium CNC X, R, Z1/Z2 backgauge. The optional Elite backgauge offers greater flexibility in 6-axis X1/X2, R1/R2, Z1/Z1.

See P. 12-13

Y1/Y2 PROPORTIONAL HYDRAULIC TECHNOLOGY

The Accell E has the latest in proportional hydraulic technologies allowing for positional accuracies of 0.0004". Machine reliability is monitored via a Safety PLC.

MACHINE CONTROLS

See P. 10-11

The powerful and easy to use Vision Control comes standard with all Accell models. Optional Moses upgrade is available.

HYDRAULIC RAM CLAMPING

See P. 18

All E-models are equipped with Wila Hydraulic Ram Clamping to suit American tooling. Wila New Standard Pro or Premium is available as an option.

GENEROUS OPEN HEIGHT/STROKE LENGTH

The Accell line comes standard with impressive ram open heights and stroke lengths to provide flexibility for complex part designs.

OFF CENTER BENDING

The integrity of the frame provides for precision off-center bending applications. Additionally, the advanced control allows for the creation of CNC fade bends.

CNC CROWNING

CNC Accurcrown is a standard feature offering flexibility and accuracy to the full range of bending applications in all job shop and production environments.

FRONT SUPPORT ARMS

Swing-stock arms, mounted to the front of the bed, slide left-right via the machine t-slot on the face of the bed.

ACCELL U

UPGRADE PACKAGE

Available for Accell Models: 175 Ton x 10' to 500 Ton x 20'

The Accell U Upgrade Package builds on the already impressive standard features of the machine to provide even more functionality and flexibility. This specialized machine can handle any forming challenge or production run with ease.

FEATURING:



THROAT DEPTH

16" Throat Depth on machines up to 250 ton models.
18" Throat Depth on 350 – 500 Ton models.

DOUBLE BENDING SPEED

On models up to 350 tons: Standard Bending Speed can be doubled from 24" to 48" IPM enabling maximum productivity over production runs.

CONTROL SCREEN UPGRADE

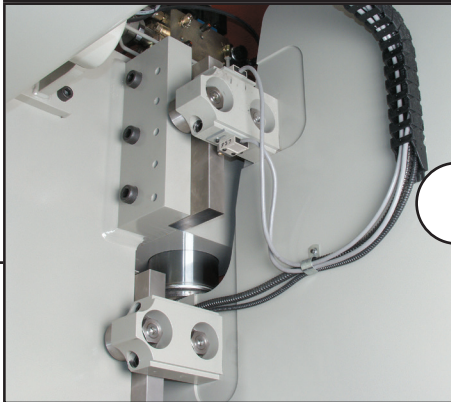
The Vision Screen features the robust Beckhoff control head complete with keyboard/mouse tray and additional USB port.

OPTIONAL ETS3000 CONTROL

This option offers consistency for shops already familiar with the ETS3000 control.

ADDITIONAL STROKE LENGTHS

This upgrade package provides optional additional Open Height and Stroke Lengths (See Spec Chart).



The 4-point Roller Ways System included with this upgrade, provides the needed stability in Ram Motion for even larger custom Open Height and Stroke Lengths.

MATERIAL COMPENSATION FEATURES

Material Thickness Sensing, Teach Crowning and Pressure Compensation all provide real-time positional adjustments based on material variance.

FRONT BED MACHINING

Front bed machined for (OPTIONAL) Precision Sheet Supports and/or Sheet Follower System. These can easily be added for future retrofits.

MACHINE CONTROLS

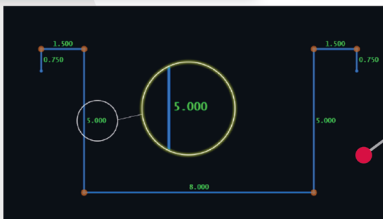
The Vision Control is a ground-breaking and revolutionary press brake control software system. Vision streamlines and simplifies the bending process, giving you full control over every aspect of metal forming.

FEATURES:

- Touch screen control
- Automatic bend sequencing
- Automatic tool selection
- Quick tooling change
- Complete control over all axis
- Simple bump bending
- Special bend support such as offset, hemming and pre-bends
- Easily program custom tools



Sketch part profile using touchscreen

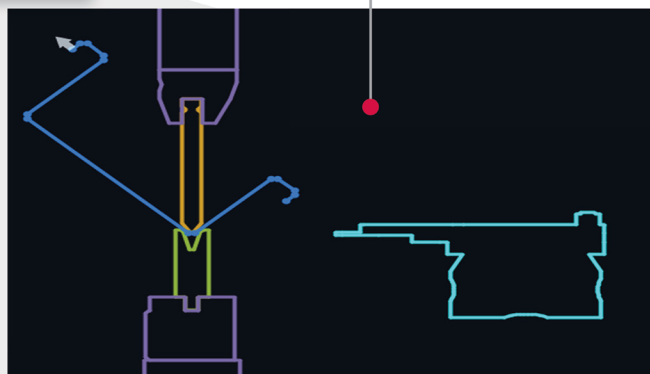


Easily add dimensions and angles

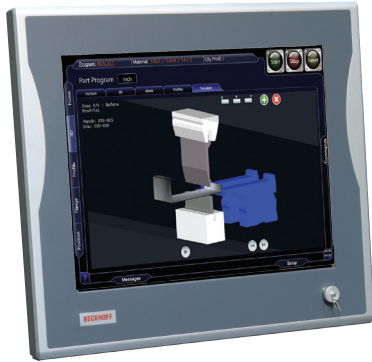


Confirm bend sequence and tooling

Begin forming



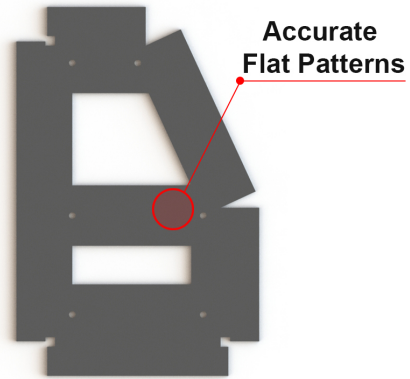
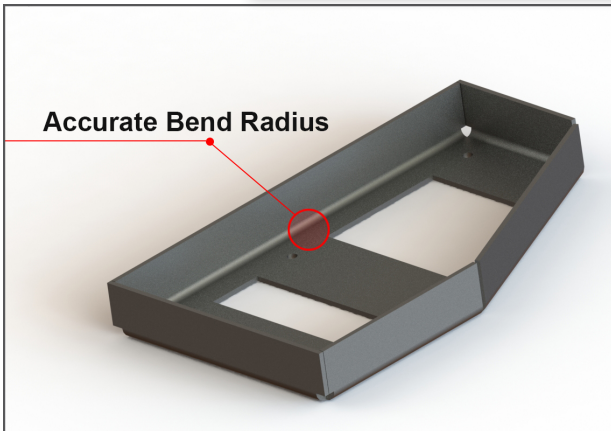
VISION 3D



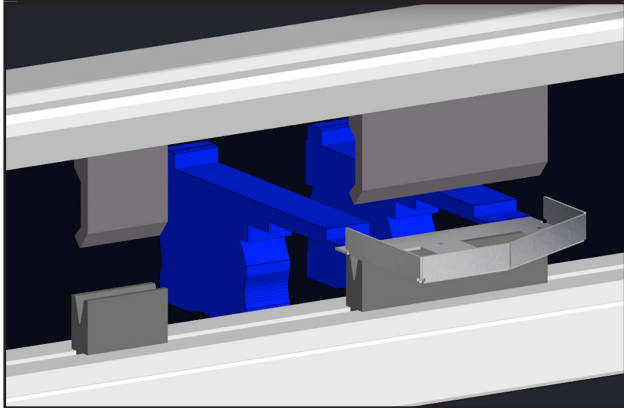
Working with Solidworks or Inventor, Vision 3D lets you import part models into Vision for full 3D programming, bend visualization and dynamic viewing during the forming process.

FEATURES:

USE VISION RIGHT IN YOUR PART MODELS



Dynamic 3D Bend Simulation



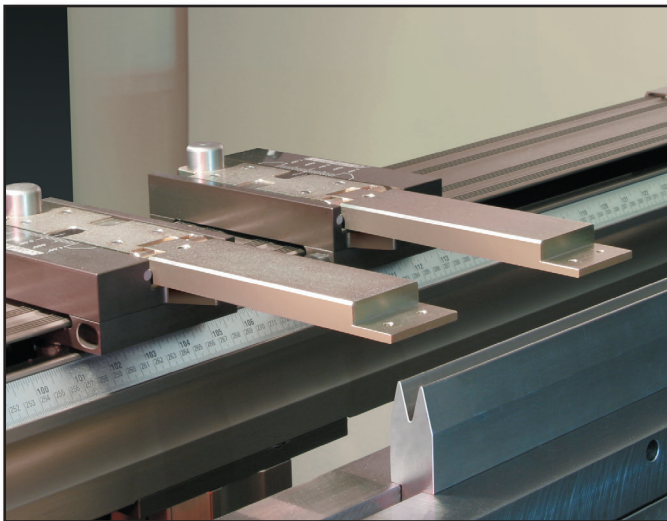
Use Vision 3D for ETS3000



ACCEL E

PREMIUM BACKGAUGE

The Premium backgauge is Accurpress' standard backgauge, available for all makes and models of Accurpress press brakes. Available in lengths from 6' to 24', the Premium backgauge is built with large section extrusions and roller carriage castings that maintain strength and accuracy over the life of the machine. This gauge is easily serviced and maintained and comes standard with X,R,Z1/Z2 powered Axis.



ELITE BACKGAUGE

The Elite backgauge offers full 6-axis part gauging via 2 independent gauging platforms that are mounted on a linear rail on the back of the bed. This rugged and accurate design combined with flexible gauging options and competitive pricing make the Elite backgauge your first-choice in 6-axis gauging.

Rear guarding complete with gate and safety interlock switch, is installed for every Elite backgauge to meet all applicable safety standards.



Finger tip contoured for tapered gauging applications

PREMIUM SPECIFICATIONS

	X Axis	R Axis	Z1/Z2 Axis
Axis Travel	24" - 39" 609.6 - 990.6 mm	10" 254 mm	Distance between side frames minus 16"
Positioning Speed	900 ipm	900 ipm	950 ipm
Position Repeatability	+/- 0.001"	+/- 0.001"	+/- 0.003"
Holding Force	750 lbs		

ELITE SPECIFICATIONS

	X1/X2 Axis	R1/R2 Axis	Z1/Z2 Axis
Axis Travel	39" 990.6 mm	13" 330.2 mm	Distance between side frames minus 24"
Positioning Speed	900 ipm	900 ipm	900 ipm
Position Repeatability	+/- 0.001"	+/- 0.001"	+/- 0.003"
Holding Force	750 lbs		

BACKGAUGE OPTIONS

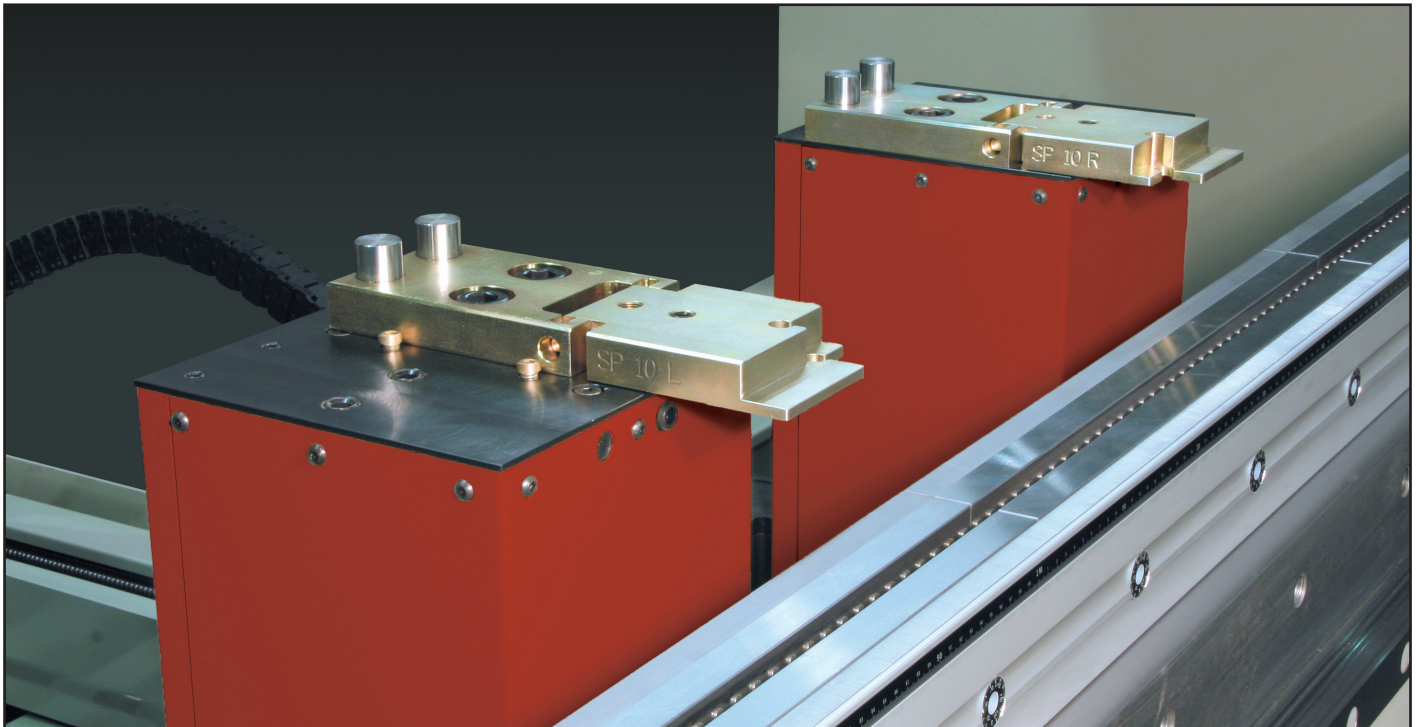
Available with the Accell U Upgrade Package

SUPREME BACKGAUGE

The Supreme backgauge is Accurpress' 6-axis gauging system that meets the challenges of today's complex sheet metal parts and fast paced production environments. Constructed from a one-piece rugged steel platform that is isolated from machine ram movements, the Supreme backgauge maintains its accuracy and strength over the lifetime of the machine.

Rear guarding, complete with gate and safety interlock switch, is installed for every Supreme backgauge.

SUPREME SPECIFICATIONS			
	X1/X2 Axis	R1/R2 Axis	Z1/Z2 Axis
Axis Travel	39" 990.6 mm	10" 254 mm	Distance between side frames minus 24"
Positioning Speed	1,500 ipm	1,500 ipm	1,500 ipm
Position Repeatability	+/- 0.0005"	+/- 0.001"	+/- 0.002"
Holding Force	1,000 lbs		



Note: The Titan Backgauge is available for larger Accell E and U models. Please reference the Accell HT Brochure.

MOSES CONTROL

This groundbreaking control gives you the powerful features of Vision directly onto the Accurpress Ram. Use the Ram like a touchscreen while Moses easily walks you through the bend process.

- Displays 3D visual of program during forming
- Use the Ram as a touch screen
- Stunning visual clarity and detail
- Visual guide for tool set ups and part orientation
- Adjust angles and flanges quickly and easily

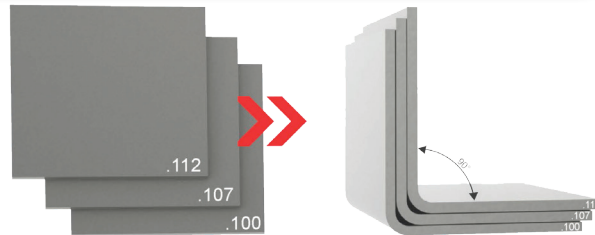


MATERIAL COMPENSATION

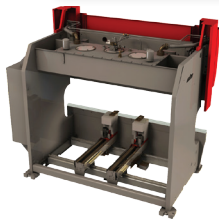
Available with the Accell U Upgrade Package

MATERIAL THICKNESS SENSING SYSTEM

During the bending process, the Accell measures variations and inconsistencies in material thickness and then self-adjusts to maintain accurate angle performance.



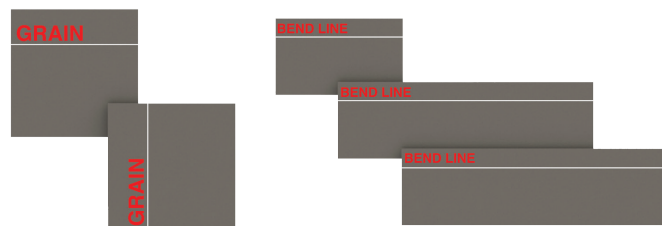
TEACH CROWNING



The Teach Crowning feature eliminates the need to manually adjust crowning values via a crowning sensor, which measures machine deflection in real-time and automatically updates the system for the next bend.

PRESSURE COMPENSATION

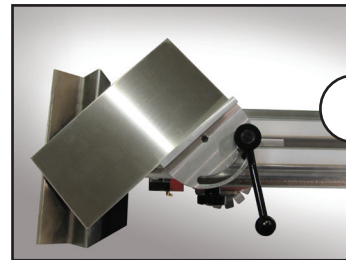
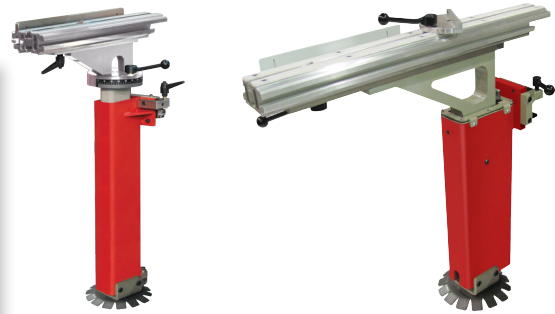
The Accell senses variations in pressure between bending with or against the material grain and senses different bend line lengths. Variations can be automatically compensated for, resulting in consistent angle performance.



SUPPORT FIXTURES

FRONT SUPPORT ARMS

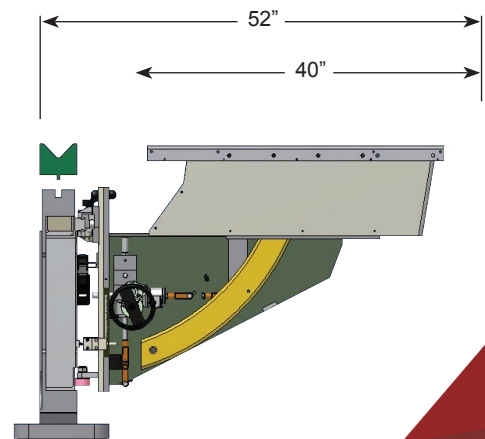
The Accurpress front support arms come in 24" and 36" lengths and are fully adjustable for different tooling heights and thicknesses. The bottom Foot Disk allows the operator to easily adjust the height of the support arm while the top support piece can be adjusted front to back depending on the desired position. These support arms are mounted on a liner rail for smooth and accurate positioning left to right on the press brake. Both sizes feature angle gauging, squaring bars and disappearing stops.



Built in protractor

SHEET FOLLOWER

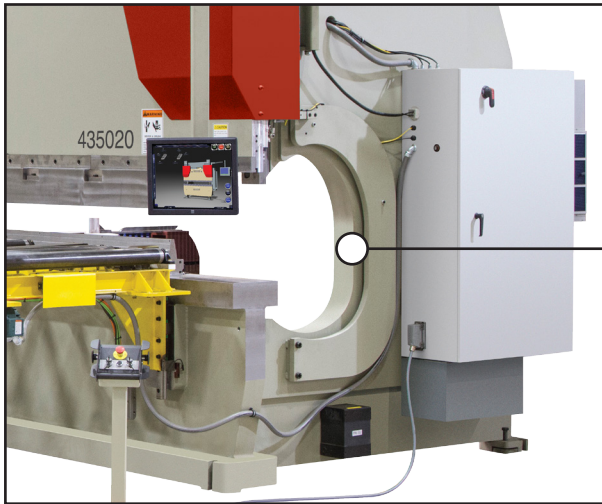
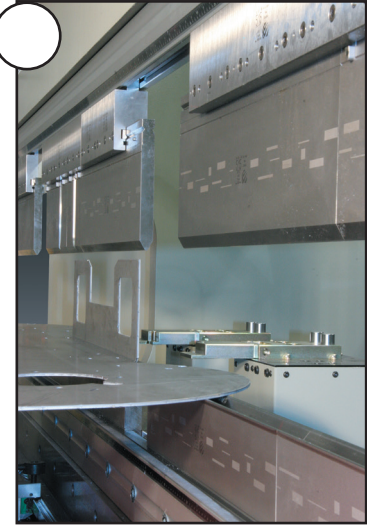
The Accurpress Sheet Following System is a moveable support table that lifts and supports material during the bending motion. It is fully synchronized with the ram bend speed and desired angle and can support a load capacity of 500lb per sheet follower. Descent speed and activation of the Sheet Following System are fully programmable by the operator.



EXTENDED OPEN HEIGHT

The Ram Open Height can be extended to form parts that require the need for extra daylight.

Note: Additional Stroke length is available on the Accell U Models



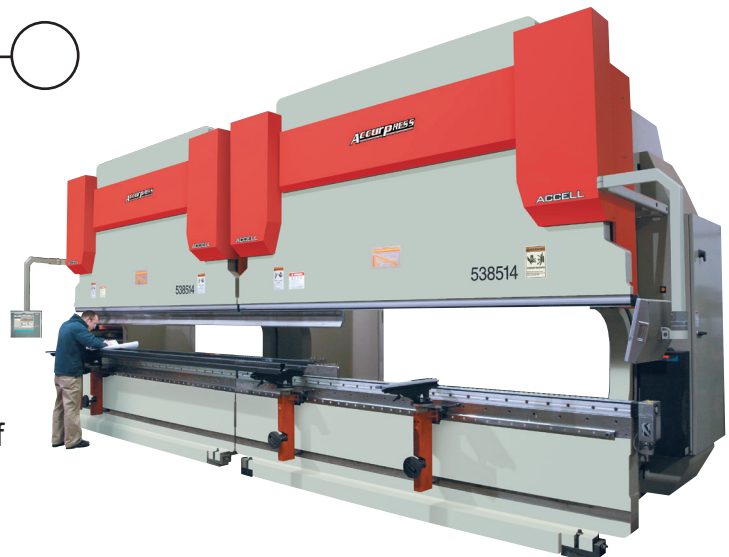
EXTENDED THROAT DEPTH

The Accell E and U can be customized to have additional throat depth clearance to facilitate parts with deeper flange lengths.

TANDEM MODE

All Accell Models can be installed in Tandem, where two or more machines operate as one. During operation, the machine controls are electronically connected to exchange information for fully synchronized forming.

This flexible package offered by Accurpress provides the press brake operator the luxury of choosing single machine operation or tandem via a simple selector switch.



OPTIONAL BARCODE READER

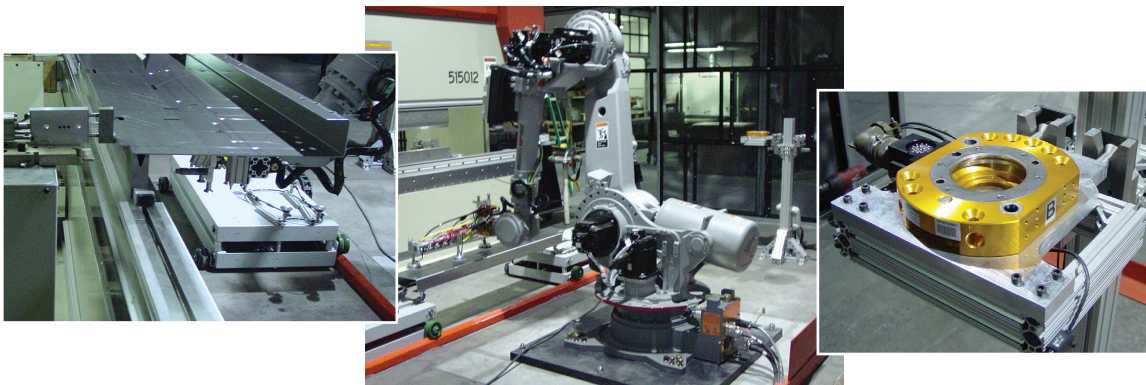
Note: Vision Control required

Two models available:

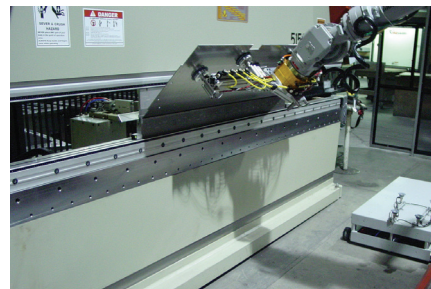
- 1) Paper-read
- 2) Paper-read/barcode etched in metal



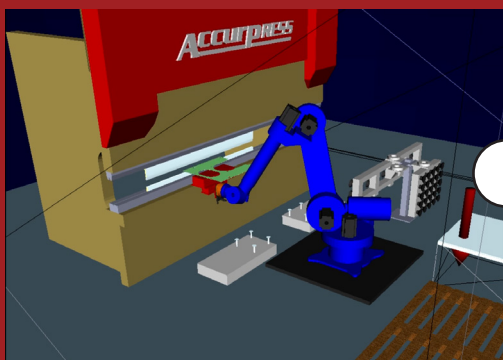
ROBOTICS INTEGRATION



Accurpress offers robotic press brake solutions for automated bending. Robotized bending combines the Accell press brake with experienced partners in robotics and offline software.



OBELISK OFFLINE ROBOTIC SOFTWARE



Obelisk offline programming for press brake robot workcells enables you to simulate the whole bending process and program them from your office.

Obelisk increases the efficiency of the workcell reducing off time for tool setup, gripper design and robot programming.

Contact Accurpress for a Demo

WILA PRECISION TOOLING SYSTEMS



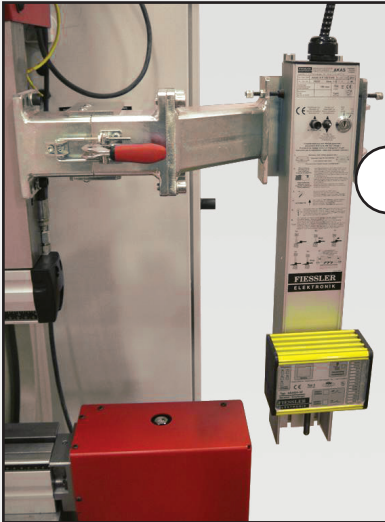
For over 80 years, Wila has supplied trend-setting tools and accessories worldwide for press brake builders and users. Wila continues to invest in the latest bending technologies making them the smart choice for the Accurpress machine.

THE ACCURPRESS CROWNING DIE HOLDER

The Accurcrown system is available for all Accell models. This Crowning Die Holder is manufactured with a series of precision wedges providing a uniform crown, which may be adjusted manually or power interfaced to the Accurpress CNC system.



SAFETY SYSTEMS



FISSLER AKAS 3F

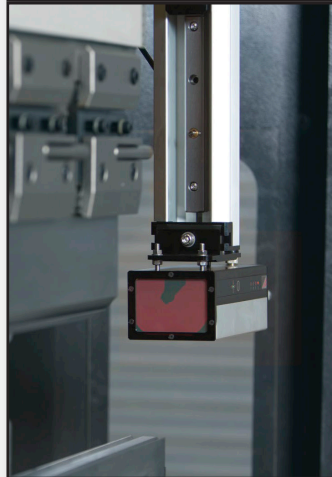
The Fiessler laser guarding system is available and protects the operator from pinch point hazard of closing tooling. The Fiessler system transmits 3 lasers across the tooling area and monitors any interference as the parts are formed. In the event of an unplanned obstruction in the laser area, the ram is immediately stopped, thereby protecting the operator.

LASER SAFE SENTINEL



A continuous dual laser field protects the zone directly below the punch tip. If an obstruction is detected when ram is in motion, the machine is automatically stopped.

LASER SAFE SENTINEL PLUS



The laser field is processed by the receiver and divided into three continuous zones to detect obstructions entering from the front, sides and rear of the tool area. If an obstruction is detected, the machine is automatically stopped.



REAR GUARDING

A standard feature for the Elite, Supreme and Titan Backgauges and can be ordered as an option for the Premium backgauge. A metal gate and safety interlock switch is installed and safely blocks operator access to the backgauge area. If the operator needs to access the back of the machine, an interlock switch is installed on the gate that will prevent the machine from turning on when the door is opened.

ACCELL E SPECIFICATIONS

MODEL NUMBER	TONS	OVERALL DIMENSIONS											APPROX SPEEDS			APPROX SHIPPING WEIGHT (LB)
		A LENGTH OF BED (INCHES)	B DISTANCE BETWEEN FRAMES (INCHES)	C BED HEIGHT (INCHES)	D TOP BED WIDTH (INCHES)	E LENGTH OF RAM STROKE (INCHES)	F RAM OPEN HEIGHT (INCHES)	G RAM CLOSED HEIGHT (INCHES)	H THROAT DEPTH (INCHES)	I LENGTH (INCHES)	J DEPTH (INCHES)	K HEIGHT (INCHES)	APPROACH SPEED (IN/MIN)	BEND SPEED (IN/MIN)	RETURN SPEED (IN/MIN)	
4758	75	96	78	34	3	10	18	8	12	102	60	92	520	24	320	11,000
47510	75	120	102	34	3	10	18	8	12	124	60	92	520	24	320	13,000
41256	125	72	54	34	4	10	18	8	12	78	60	100	520	24	320	12,000
41258	125	96	78	34	4	10	18	8	12	102	60	100	520	24	320	14,000
412510	125	120	102	34	4	10	18	8	12	124	60	100	520	24	320	16,000
412512	125	144	126	34	4	10	18	8	12	148	60	100	520	24	320	18,000
417510	175	120	102	34	4	10	18	8	12	124	63	102	370	24	280	19,000
417512	175	144	126	34	4	10	18	8	12	148	63	102	370	24	280	22,000
417514	175	168	148	34	4	10	18	8	12	174	63	102	370	24	280	24,000
425010	250	120	102	36	5	10	18	8	12	124	65	106	320	24	260	22,000
425012	250	144	126	36	5	10	18	8	12	150	65	106	320	24	260	27,000
425014	250	168	148	36	8	10	18	8	12	174	65	108	320	24	260	32,000
425016	250	192	172	36	8	10	18	8	12	204	65	108	320	24	260	39,000
*425020	250	240	218	36	10	10	18	8	12	254	65	108	320	24	260	52,000
435012	350	144	126	38	10	12	20	8	14	156	76	122	320	24	260	38,000
435014	350	168	148	38	10	12	20	8	14	178	76	122	320	24	260	43,000
435016	350	192	172	38	12	12	20	8	14	204	76	122	320	24	260	49,000
*435020	350	240	218	38	12	12	20	8	14	254	76	122	320	24	260	62,000
450012	500	144	124	38	10	12	20	8	14	156	82	130	320	24	260	45,000
450014	500	168	146	38	10	12	20	8	14	178	82	130	320	24	260	50,000
*450016	500	192	170	38	12	12	20	8	14	204	82	130	320	24	260	57,000
*450020	500	240	218	38	12	12	20	8	14	254	82	130	320	24	260	72,000

DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE. MACHINE SHIPPING WIDTHS AND WEIGHTS MAY CHANGE PENDING OPTIONAL ACCESSORIES
 • MODELS REQUIRE BELOW FLOOR LEVEL BED

ACCELL U SPECIFICATIONS

MODEL NUMBER	TONS	OVERALL DIMENSIONS											APPROX SPEEDS			APPROX SHIPPING WEIGHT (LB)
		A LENGTH OF BED (INCHES)	B DISTANCE BETWEEN FRAMES (INCHES)	C BED HEIGHT (INCHES)	D TOP BED WIDTH (INCHES)	E LENGTH OF RAM STROKE (INCHES)	F RAM OPEN HEIGHT (INCHES)	G RAM CLOSED HEIGHT (INCHES)	H THROAT DEPTH (INCHES)	I LENGTH (INCHES)	J DEPTH (INCHES)	K HEIGHT (INCHES)	APPROACH SPEED (IN/MIN)	BEND SPEED (IN/MIN)	RETURN SPEED (IN/MIN)	
517510	175	120	106	34	4.5	14	22	8	16	139	78	118	340	24-48*	280	28,000
517512	175	144	130	34	4.5	14	22	8	16	162	78	118	340	24-48*	280	32,000
517514	175	168	154	34	5.5	14	22	8	16	186	78	118	340	24-48*	280	36,000
517516	175	192	178	34	5.5	14	22	8	16	210	78	118	340	24-48*	280	40,000
517520	175	240	216	34	5.5	14	22	8	16	320	78	118	340	24-48*	280	48,000
525010	250	120	130	38	5.5	14	22	8	16	139	85	132	340	24-48*	280	32,000
525012	250	144	126	38	5.5	14	22	8	16	160	85	132	340	24-48*	280	36,000
525014	250	168	150	38	5.5	14	22	8	16	184	85	132	340	24-48*	280	40,000
525016	250	192	174	38	5.5	14	22	8	16	210	85	132	340	24-48*	280	44,000
525020	250	240	216	38	5.5	14	22	8	16	320	85	132	340	24-48	280	52,000
535012	350	144	126	38	12	14	22	8	18	160	85	138	300	24-48*	240	42,000
535014	350	168	150	38	12	14	22	8	18	184	85	138	300	24-48*	240	46,000
535016	350	192	174	38	12	14	22	8	18	208	85	138	300	24-48*	240	50,000
535020	350	240	216	38	12	14	22	8	18	320	85	138	300	24-48	240	62,000
550012	500	144	132	38	12	14	22	8	18	156	92	148	260	24	200	52,000
550014	500	168	146	38	12	14	22	8	18	180	92	148	260	24	200	60,000
*550016	500	192	170	38	12	14	22	8	18	204	92	148	260	24	200	66,000
*550020	500	240	216	38	12	14	22	8	18	320	92	148	260	24	200	72,000

DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE. MACHINE SHIPPING WIDTHS AND WEIGHTS MAY CHANGE PENDING OPTIONAL ACCESSORIES
 * 24"/MIN AT FULL TONNAGE. 48"/MIN AT APPROXIMATELY 50% FULL TONNAGE RATING
 • MODELS REQUIRE BELOW FLOOR LEVEL BED

