# ACCELL E

THE COMPETITIVE EDGE

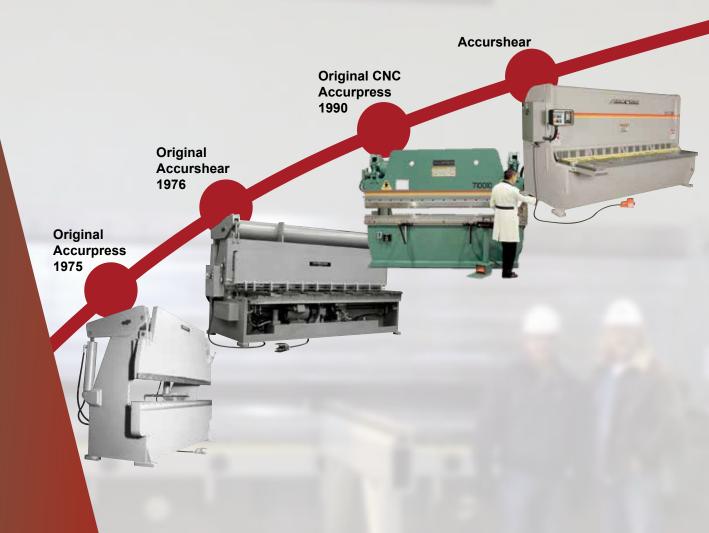


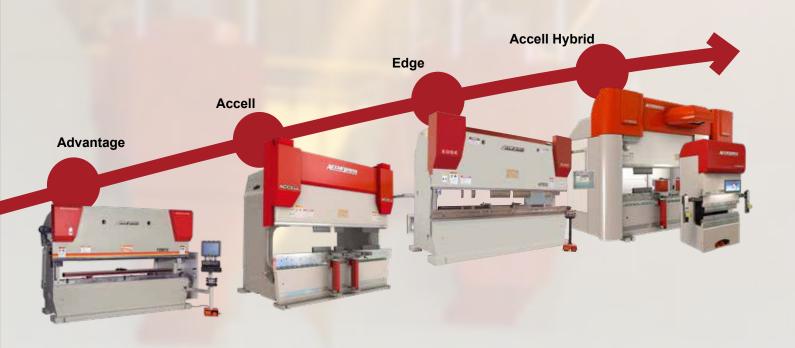
# ACCELL U

**UPGRADE PACKAGE** 



# ACCUIT PRESS





# **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

# ACCELL HT

### **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

### **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 <u>ACCELL HT Brochure</u> for complete list of features and options

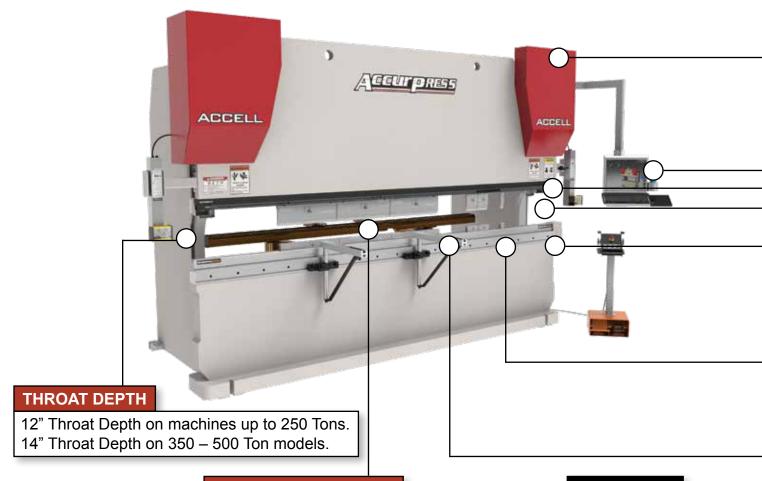


# ACCELL E

### 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:**



#### **BACKGAUGE OPTIONS**

See P. 12-15

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



#### 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.

#### **CONTROL HEAD WORK STATION**

See P. 10-11

The Vision control display has a convenient area for a keyboard, mouse and even your coffee mug!

#### **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**

The CNC Accurrown offers flexibility and accuracy to the full range of bending applications by compensating for machine deflection during forming. This feature is standard for all 4125xx-4500xx ton models. The 475xx models come standard with the Accurpress non-crowning Die Holder.

#### 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.

#### **UL APPROVED ELECTRICAL STANDARDS**

Electrical cabinets are assembled and wired to the applicable and current UL approved standards.



# ACCELL U UPGRAGE 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.





#### THROAT DEPTH

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

#### **UL APPROVED ELECTRICAL STANDARDS**

Electrical cabinets are assembled and wired to the applicable and current UL approved standards.



#### **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 HEAD WORK STATION**

See P. 10-11

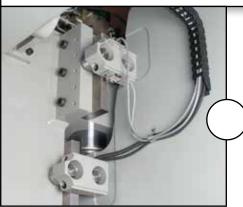
The Vision control display has a convenient area for a keyboard, mouse and even your coffee mug!

#### **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 Stoke Lengths.

#### **MATERIAL COMPENSATION FEATURES**

See P. 14

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

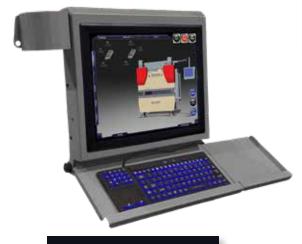
#### **OPTIONAL PRECISION SHEET SUPPORTS**

See P. 15

The bed of the machine is prepared for optional Precision Sheet Supports. This allows for easy installation of these support fixtures at any point.



## **VISION CONTROL**

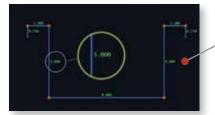


The Vision Control is a ground-breaking and revolutionary press brake control software system. Vision streamlines and simplifies the bending process, giving you full control over every aspect of metal forming.

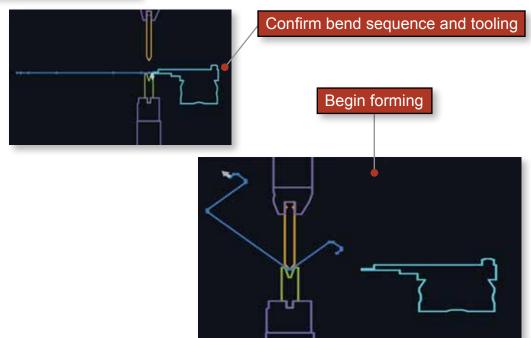
#### **FEATURES:**

- 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





## **VISION 3D**

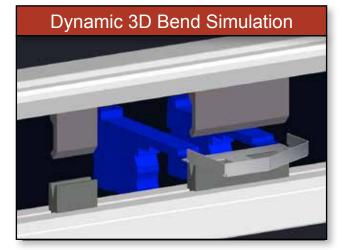


Working with Solidworks or Inventor, Vision 3D lets you import part models into Vision for full 3D programming, bend visualization and dynamic viewing during the forming process.

## **FEATURES:**

### **USE VISION RIGHT IN YOUR PART MODELS**





### Use Vision 3D for ETS3000





# **BACKGAUGE OPTIONS**

Accurpress offers a variation of excellent Backgauge Systems to best satisfy all bending needs.



	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	900 ipm
Position Repeatability	+/- 0.001"	+/- 0.001"	+/- 0.003"
Holding Force	750 lbs		

## PREMIUM BACKGAUGE

The Premium backgauge is offered for both the Accell-E and Accell-U models. It comes standard with power X & R axis (power Z1/Z2 optional). The Premium is a versatile gauge built with solid extrusions and roller carriage castings to maintain strength and accuracy over years of usage. Optional accessories are offered such as 39-inch X-axis travel in lieu of 24-inches, additional finger assemblies and X-Prime fingers offering plus/minus 1-inch of adjustment.





## **ELITE BACKGAUGE**

The optional Elite backgauge offers a full power 6-axis (X1/X2, R1/R2, Z1/Z2) part gauging via two independent gauging platforms that are mounted on a linear rail on the back of the press brake bed. This robust design built to last, offers accuracy and flexibility at competitive pricing. Included with the Elite backgauge is a rear gate attached to the back of the Accell-E or U-models inclusive of a safety interlock switch to meet all applicable safety standards.

Positioning

Speed

Position Repeatability Holding Force 900 ipm

+/- 0.001"

750 lbs

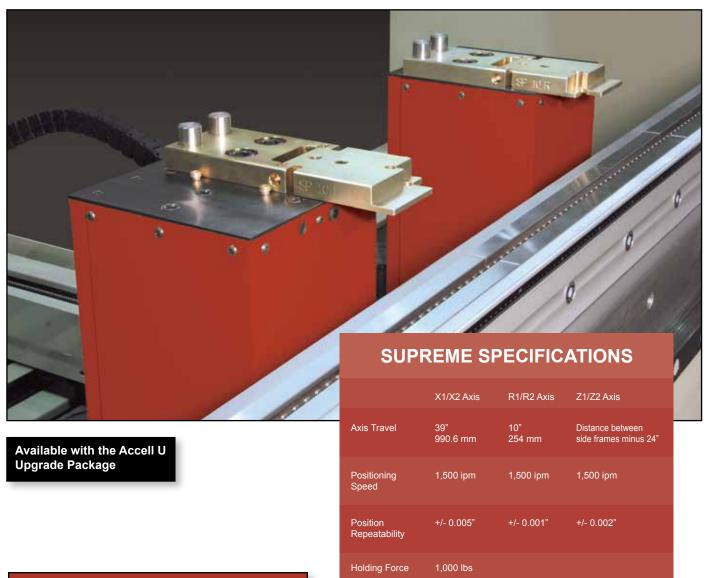
900 ipm

+/- 0.001"

900 ipm

+/- 0.003"



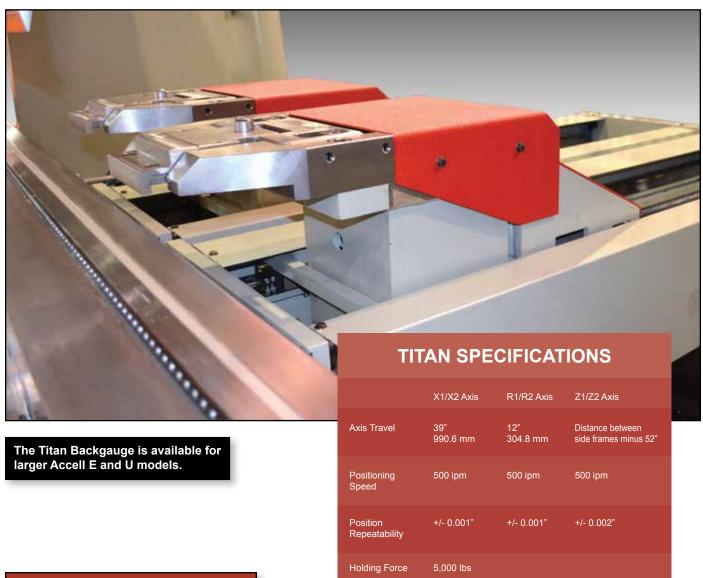


## **SUPREME BACKGAUGE**

For applications demanding the most complex sheet metal parts and in high productions shops, Accurpress offers the Supreme backgauge available for the Accell-U models. Constructed from a one-piece rugged steel platform that is isolated from the press brake ram movements, the Supreme backgauge is built for optimum accuracy, high speeds on all six axis (X1/X2, R1/R2, Z1/Z2) and for years of minimal service requirements. Included with the Supreme backgauge is a rear gate attached to the back of the Accell-U inclusive of a safety interlock switch to meet all applicable safety standards.

To ensure compliance to applicable safety standards, Accurpress installs rear guarding inclusive of a gate with a safety interlock switch on all Accurpress models sold with the Supreme Backgauge.





### **TITAN BACKGAUGE**

The Titan 6-Axis (X1/X2, R1/R2, Z1/Z2) is the world's heaviest and strongest gauge built specifically for larger Accell E and U models that are fabricating the most extreme parts! Each and every component including the oversized fingers have been engineered to withstand the most extreme conditions, shock loads and massive forces from placement of large plates in preparation for final gauging and forming. Each X-Axis is capable of 65,000 lbs of static and 20,000 lbs of dynamic load capacity. This rugged backgauge features servo-drive motors, lifetime lubricated precision linear bearings and an unsurpassed ability to handle the heaviest of structural plate applications.

To ensure compliance to applicable safety standards, Accurpress installs rear guarding inclusive of a gate with a safety interlock switch on all Accurpress models sold with the Titan Backgauge.

# **ANGLE MEASUREMENT SYSTEM**

To provide the absolute optimum in high precision bending, Accurpress offers an Angle Measurement System as an optional accessory for the Accell-E and U models. This measurement device is inclusive of six sensors that may be positioned anywhere along the length of the tooling. This system will detect the variances in material thickness, grain direction or spring-back, and will make instant adjustments as needed. Each sensor can be individually programmed to modify the Y1/Y2 or crowning axis as required.







# **MATERIAL COMPENSATION**

Included with the Accell U Upgrade Package

# MATERIAL THICKNESS SENSING SYSTEM

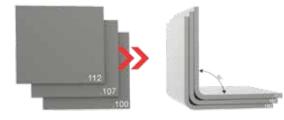
During the bending process, the Accell measures variations and inconsistencies in material thickness and then self-adjusts to maintain accurate angle performance.

#### **TEACH CROWNING**

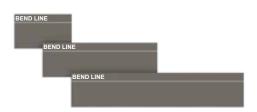
The Teach Crowning feature eliminates the need to manually adjust crowning values via a crowning sensor, which measures machine deflection in real-time and automatically updates the system for the next bend.

#### 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.







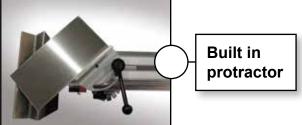


# **SUPPORT FIXTURES**

## **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 positing left to right on the press brake. Both sizes feature angle gauging, squaring bars and disappearing stops.

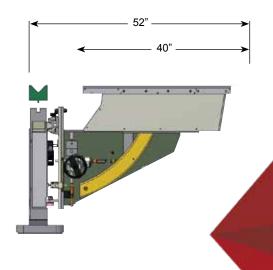




## **SHEET FOLLOWER**

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.

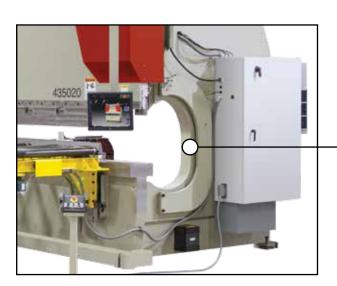






# **EXTENDED RAM STROKE & OPEN HEIGHTS**

To satisfy the bending requirements for deep box forming or additional special forming needs, Accurpress offers optional extended Ram Stroke Lengths—available on the Accell-U models. The Accell-E model may be ordered with additional Ram Open/Closed Heights to enable the optimum height for specific applications and tooling requirements.





## **EXTENDED THROAT DEPTH**

The Accell E and U can be customized to have additional Throat Depth Clearance to facilitate parts with deeper flange lengths.



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.



# **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



# **OPTIONAL BARCODE READER**

Note: Vision Control required Two models available:

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





# **ROBOTICS INTEGRATION**

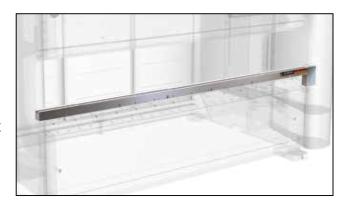
Accurpress offers robotic press brake solutions for automated bending. Robotized bending combines the Accell press brake with experienced partners in robotics and offline software.





# PRECISION TOOLING SYSTEMS

Accell-E and U models are sold with a CNC Accurcrown Holder as a standard feature, interfaced to the Vision or ETS3000 control. The Accurcrown is manufactured with a series of precision wedges providing a uniform crown and is anchored to the press brake bed via a universal bolt pattern for maximum rigidity. Lower tool clamping is accomplished manually via set screws in the holder or hydraulically when ordered as an option.





In addition to Crowing Systems, the Accell-E and U models include hydraulic Wila Ram Clamping Systems equipped to handle either American tang-style punches or Wila's large selection of New Standard tang-style punches. As a final complement, Accurpress offers a wide selection of press brake tooling. Choose from standard planner mill dies to high precision, including the complete Wila product line of ultimate exacting standards.

# **SAFETY GUARDING SYSTEMS**

#### LAZERSAFE SENTINEL



Lazersafe Sentinel is a Safety System offered on the Accurpress HT models that incorporates a continuous dual beam laser field protection zone directly below the punch tip. The Accurpress will immediately stop if any obstruction is detected when the ram is in motion. This system is most efficient up to 32' ram/bed lengths.

#### LAZERSAFE SENTINEL PLUS



The Lazersafe Plus includes a dual beam system with a camera as a receiver that recognizes and monitors the silhouette of the punch. The Plus has the added benefit of allowing the ram to operate in fast speeds closer to the pinch point. This system is most efficient up to 18' ram/ bed lengths. A Sentinel Plus HL system is available for Accurpress models 20' and longer in length.

### FIESSLER AKAS 3F



The Fiessler Laser
Guarding System protects
the operator from the 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.

### **LIGHT CURTAIN GUARDING**



Some applications may be best suited to a Light Curtain Guarding System. Accurpress will work with you to recommend a safety system that will provide a secure working environment.



#### **REAR GUARDING**

This is a standard feature for all Accurpress HT models that have an Elite or Titan Backgauge. A metal fixture with a gate and a 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, the interlock switch on the gate will prevent the machine from turning on when the door is opened.



# ACCURPRESS ACCELLE SPECIFICATIONS

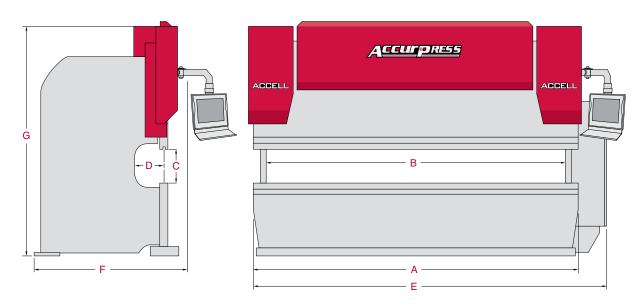
		Α	В			С			D	E	F	G				
			DISTANCE			LENGTH	RAM	RAM		OVER	ALL DIMENS	SIONS		ROX. SPEEL		APPROX.
		LENGTH	BETWEEN	BED	TOP BED	OF RAM	OPEN	CLOSED	THROAT				APPROACH	BEND	RETURN	SHIPPING
MODEL	TOUG	OF BED	FRAMES	HEIGHT	WIDTH	STROKE	HEIGHT	HEIGHT	DEPTH	LENGTH	DEPTH	HEIGHT	SPEED	SPEED	SPEED	WEIGHT
NUMBER	TONS	(INCHES)	(INCHES)	(IN/MIN)	(IN/MIN)	(IN/MIN)	(LB)									
4756	75	72	54	34		10	18	8	12	78	60	92	520	24	320	9500
4758	75	96	78	34		10	18	8	12	102	60	92	520	24	320	11000
47510	75	120	102	34	3	10	18	8	12	124	60	92	520	24	320	13000
41258	125	96	78	34		10	18	8	12	102	60	100	490	24	320	14000
412510	125	120	102	34		10	18	8	12	124	60	100	490	24	320	16000
412512	125	144	126	34		10	18	8	12	148	60	100	490	24	320	18000
412514	125	168	148	34		10	18	8	12	174	63	102	370	24	280	22000
417510	175	120	102	34	4	10	18	8	12	124	63	102	370	24	280	19000
417512	175	144	126	34	4	10	18	8	12	148	63	102	370	24	280	22000
417514	175	168	148	34	4	10	18	8	12	174	63	102	370	24	280	24000
417516	175	192	178	36	8	10	18	8	12	204	65	108	370	24	280	36000
417520	175	240	218	36	8	10	18	8	12	254	65	108	370	24	280	48000
425010	250	120	102	36		10	18	8	12	124	65	106	320	24	260	22000
425012	250	144	126	36		10	18	8	12	150	65	106	320	24	260	27000
425014	250	168	148	36	8	10	18	8	12	174	65	108	320	24	260	32000
425016	250	192	172	36	10	10	18	8	12	204	65	108	320	24	260	39000
• 425020	250	240	218	36	10	10	18	8	12	254	65	108	320	24	260	52000
435012	350	144	126	38	10	12	20	8	14	156	76	122	320	24	260	38000
435014	350	168	148	38	10	12	20	8	14	178	76	122	320	24	260	43000
435016	350	192	172	38	12	12	20	8	14	204	76	122	320	24	260	49000
• 435020	350	240	218	38	12	12	20	8	14	254	76	126	320	24	260	62000
• 435024	350	288	266	38	12	12	20	8	14	340	76	128	320	24	260	70000
450012	500	144	124	38	10	12	20	8	14	156	82	130	320	24	260	45000
450014	500	168	146	38	10	12	20	8	14	178	82	130	320	24	260	52000
• 450016	500	192	170	38	12	12	20	8	14	204	82	130	320	24	260	58000
• 450020	500	240	218	38	12	12	20	8	14	254	82	134	320	24	260	70000
• 435024	500	288	266	38	12	12	20	8	14	340	82	136	320	24	260	82000

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

# **DIMENSIONS**





# ACCURPRESS ACCELL U SPECIFICATIONS

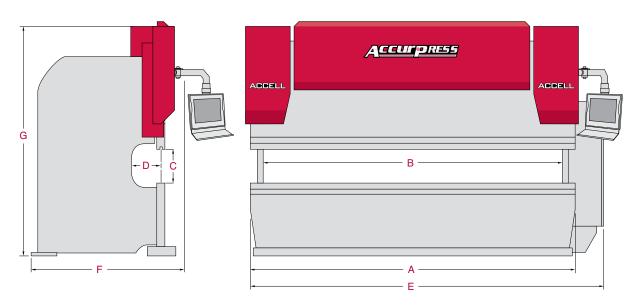
MODEL NUMBER	TONS	A LENGTH OF BED (INCHES)	B DISTANCE BETWEEN FRAMES (INCHES)	BED HEIGHT (INCHES)	TOP BED WIDTH (INCHES)	C LENGTH OF RAM STROKE (INCHES)	RAM OPEN HEIGHT (INCHES)	RAM CLOSED HEIGHT (INCHES)	D THROAT DEPTH (INCHES)	E OVER LENGTH (INCHES)	F ALL DIMENS DEPTH (INCHES)	G SIONS HEIGHT (INCHES)	APPI APPROACH SPEED (IN/MIN)	ROX. SPEED BEND SPEED (IN/MIN)	DS RETURN SPEED (IN/MIN)	APPROX. SHIPPING WEIGHT (LB)
517510	175	120	106	34	4.5	14	22	8	16	139	78	118	340	24-48	280	28000
517512	175	144	130	34	4.5	14	22	8	16	162	78	118	340	24-48	280	32000
517514	175	168	154	34	5.5	14	22	8	16	186	78	118	340	24-48	280	36000
517516	175	192	178	34	5.5	14	22	8	16	210	78	118	340	24-48	280	40000
517520	175	240	216	34	5.5	14	22	8	16	320	78	118	340	24-48	280	48000
525010	250	120	130	38	5.5	14	22	8	16	139	85	132	340	24-48	280	32000
525012	250	144	126	38	5.5	14	22	8	16	160	85	132	340	24-48	280	36000
525014	250	168	150	38	5.5	14	22	8	16	184	85	132	340	24-48	280	40000
552016	250	192	174	38	12	14	22	8	16	210	85	132	340	24-48	280	44000
• 525020	250	240	216	38	12	14	22	8	16	320	85	132	340	24-48	280	52000
535012	350	144	126	38	12	14	22	8	18	160	85	138	300	24-48	240	42000
535014	350	168	148	38	12	14	22	8	18	184	85	138	300	24-48	240	46000
535016	350	192	172	38	12	14	22	8	18	208	85	138	300	24-48	240	50000
• 535020	350	240	218	38	12	14	22	8	18	320	85	138	300	24-48	240	62000
• 535024	350	288	218	38	12	14	22	8	18	340	85	138	300	24-48	240	74000
550012	500	144	124	38	12	14	22	8	18	156	92	148	260	24	200	52000
550014	500	168	146	38	12	14	22	8	18	180	92	148	260	24	200	60000
• 550016	500	192	170	38	12	14	22	8	18	204	92	148	260	24	200	66000
• 550020	500	240	218	38	12	14	22	8	18	320	92	148	260	24	200	72000
• 550024	500	288	266	38	12	14	22	8	18	340	92	148	260	24	200	86000

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

# **DIMENSIONS**





## **DEALER SUPPORT NETWORK**

Accurpress Sales & Service is provided by an Authorized Dealer Network.

All of our Dealers are factory trained and supported to provide you with knowledgeable, competent and local service.

