

SOLUTION

HFE 3i SERIES

ADVANCED BENDING SOLUTION WITH 3D CONTROL





ADVANCED BENDING SOLUTION WITH 3D CONTROL

COMPLETE RANGE TO COVER ALL OF YOUR BENDING NEEDS

Built on the solid foundation of the HFE series, AMADA's HFE3i press brake models include additional production-enhancing features and an innovative touch-screen AMNC 3i interface.

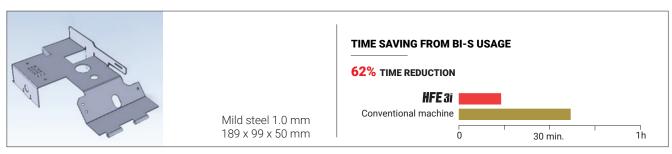
An 18.5" multi-touch display offers multiple modes of data entry (angle, depth, 2D and 3D) for ultimate programming flexibility.

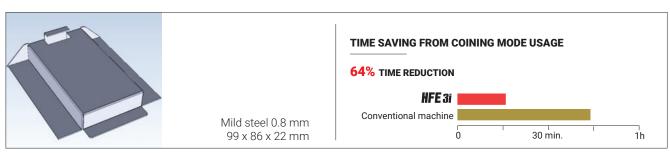
A user-friendly graphic interface and tool library assist operators in the quick set-up of complicated parts.



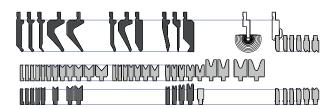
TYPICAL PROCESSING SAMPLES





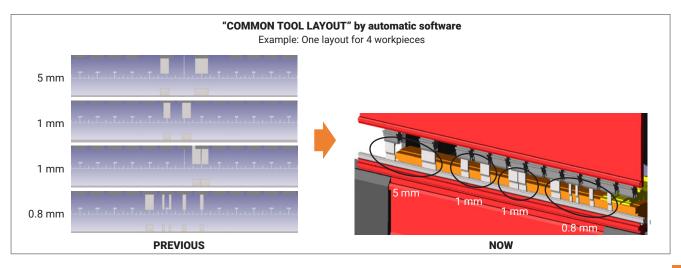


BENDING TOOLS



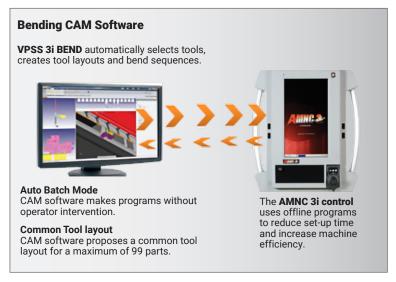
AFH & STAGED BEND TOOL

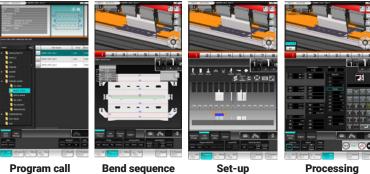
AMADA Fixed Height and Staged Bending tools are the best solution to minimise set-up operations.



HFE 3i SERIES

EASY OPERATION





VIRTUAL PROTOTYPE SIMULATION SYSTEM

VPSS 3i suite is the Intelligent, Interactive and Integrated software environment that surrounds the new AMADA solutions. This system considers the complete assembly and manufacturing process from the very beginning.

AMNC 3i NUMERICAL CONTROL

The AMNC 3i control is optimised for ease of use.

- Multi-touch LCD panel with a user-friendly design provides intuitive smartphone like operation.
- The 18.5 inch vertical display means you can view all the necessary program and bend information on one screen.

A BRIDGE BETWEEN ERP AND AMADA ECO-SYSTEM

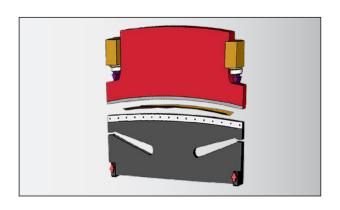
AMADA Order Manager (AOM) is the new Cloud-based platform created by AMADA.

Thanks to the AMADA standard data exchange interface, the customer's existing ERP system can be easily connected to AOM to allow the production data to be sent to the AMADA machines and for collecting the machine production data.

AMADA provides a suite of perfectly integrated software products. Each software technology can take advantage of the VPSS concept (Virtual Prototype Simulation System) to lead to a total, enhanced and error-free production with AMADA machines.

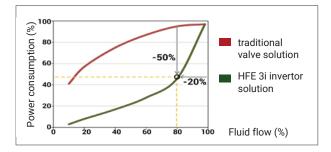


CROWNING SYSTEM AND ECO DRIVE SYSTEMS



CROWNING SYSTEM

The HFE 3i press brakes are equipped with AMADA's patented lower beam as standard, giving "Parallel Deflection" under all bending loads. This concept ensures consistent punch penetration into the V die, over the full bending length under all loads and conditions.



THE ECO DRIVE SYSTEM

The Eco drive system continually monitors and selfadjusts bending requirements – providing benefits such as less energy usage, reduced maintenance, less oil consumption, lower noise levels and increased reliability.

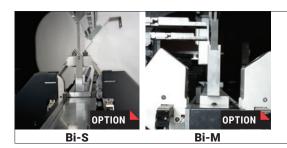
ANGLE CONTROL AND ANGLE MEASURING SYSTEMS



Digipro

The AMADA Digipro is a highly-accurate, electronic angle measuring device that transmits the measured angle wirelessly to the press brake's NC.

The program is then automatically corrected as required, providing a precise bend angle.

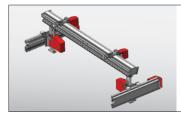


Bi-S & Bi-M

Automatic angle adjustment ensures highly accurate bending even when material thickness and properties vary from part to part. This removes the need for test bending and adjustment of the initial bend angle, eliminating scrap and reducing set-up time.

HFE 3i SERIES

STANDARD EQUIPMENT AND FUNCTIONS



New back gauge system

The 5 axis back gauge has a tool navigation system whereby the finger indicates the precise position to place the tools.



Fast Finger

The back gauge with active security allows to increase the productivity and safety with low impact force and maximum speed. (Only available on low tonnage machines).



Finger pin

Stable gauging by flexible PIN position.



SGRIP

- Front installation/front removal
- Space between grips can be eliminated
- Manual rear plate (option)



Hand wheel

- Adjust all axis
- Easy and flexible manual adjustments.



Bar code reader

- Built-in bar code reader
- Eliminates program search time and errors.



LED light (rear)

A LED light is installed to the rear side of the upper beam to increase operator visibility.

OPTIONAL EQUIPMENT AND FUNCTIONS



The Delta X finger

The Delta X finger is a useful feature when bending asymmetrical workpieces.



U-Shape finger

- Special finger shape for smart gauging of complex part shape.
- Finger position is properly calculated by AMNC 3i or VPSS 3i.



Sensor fingers

- Eliminates gauging errors : bending process is allowed only when gauging is correctly made.
- Sensor pauses the bend process when the part is separated from the gauge.



Automatic grip for AMADA tool: AGRIP A (hydraulic) / R-GRIP (pneumatic)

- Front installation/front removal
- Automatic pull up function
- Easy to reposition and remove grips
- Space between grips can be eliminated



Automatic hydraulic grip

- Front installation/front removal
- Easy setting of complicated tool layouts
- No external pipes on rear side



Front support

Front workpiece support



Sheet follower

- Improves accuracy and safety.
- Assists operator for handling of large and heavy parts.
- Eliminates the need for a second operator.

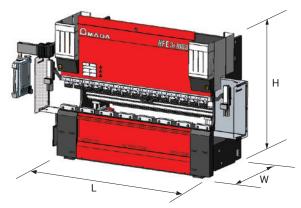


AKAS V

The latest AKAS security system solution (AKAS V) offers the highest level of safety with an increased performance due to easier set-up.

DIMENSIONS





HFE3i		5012	5020	8025	1003	1303	1703	1704	1745	2203	2204
Total length (L)*	mm	2653	3575	4035	4615	4620	4650	5710	6000	4650	5740
Total width (W)**	mm	2267	2660	2660	2660	2700	2763	2700	2700	2763	2700
Total height (H)	mm	2420	2440	2540	2680	2805	2880	2890	3000	3185	3080
Machine mass	kg	3550	4700	5600	6600	8150	11600	13900	14800	13750	17000

^{*}Total length is intended with the arm and the NC maximum extended on the exterior, and all doors closed.
**Total width is intended with the arm and the NC maximum extended in front, and all doors closed.

MACHINE SPECIFICATIONS

HFE3i		5012	5020	8025	1003	1303	1703	1704	1745	2203	2204	
Capacity	kN	50	00	800	1000	1300 17		00 1700		2200		
Beam length	mm	1270	2090	2570	3110	3140	3170	4230	4520	3220	4280	
Table width	mm		60			90		180				
Distance between frame	mm	1035	1665	2125	2705	27	2700 376		4050	2700	3760	
Throat depth	mm	100	420									
Open height	mm	480	470 (620)*									
Stroke	mm	150	200 (350)*									
Working height	mm	920**	960									
Oil capacity	liter	85	55	95	110	100		160				
Power consumption***	kW	5.5	4 7.5			11	15			18.5		
Approach speed	mm/s	220	200			100						
Maximum bending speed	mm/s	25****	15****			10						
Return speed	mm/s	220		150		100						

*(Long Stroke)

**without die holder

***hydraulic pump only

****depending on V-size and applied force

Note: HFE3i-5012 has different functions/options compare to other models. For further details please contact your sales subsidiary. For high tonnage HFE3i models, please contact your AMADA representative or refer to specific documentation.

Specifications, appearance and equipment are subject to change without notice by reason of improvement.



For Your Safe Use

Be sure to read the operator's manual carefully before use.

When using this product, appropriate personal protection equipment must be used.

The official model name of machine described in this catalogue is HFE3i. Use the registered model name when you contact the authorities for applying for installation, exporting, or financing.

Hazard prevention measures are removed in the photos used in this catalogue.

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