

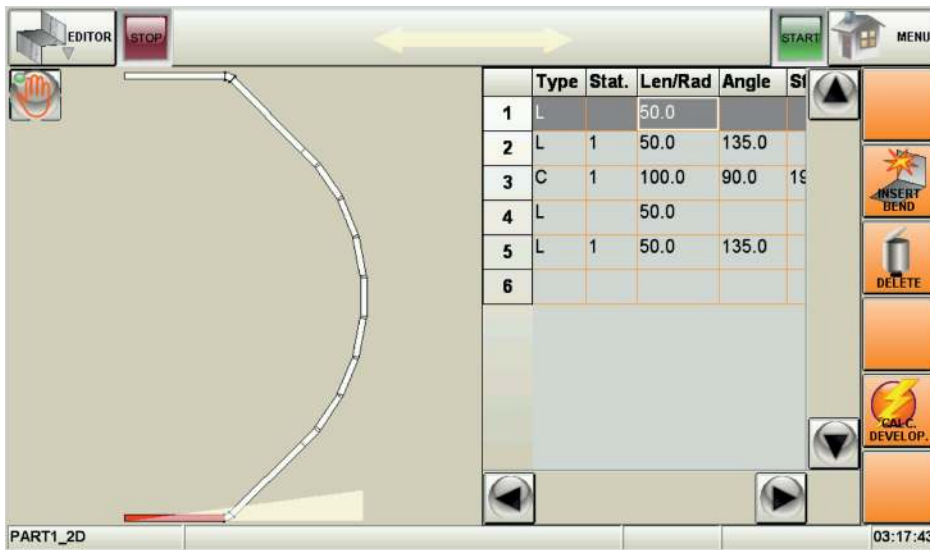
HYBRID FORM

H Y B R I D P R E S S B R A K E



HybridForm hybrid press brake is our innovative solution for this decade's most pressing issue...soaring energy costs. Every manufacturer is observing the effects of energy prices that is on a continuous rise and to be more efficient in a production environment is not only beneficial but crucial to survive. For this reason, we have developed HybridForm, a hybrid press brake that uses a servo motor and servo pump with variable oil flow control instead of the traditional AC motors and fixed flow pumps. With this advanced hydraulic system, our customers will have three key benefits compared to hydraulic press brakes;

- HybridForm consumes up to **%70 less energy** compared to traditional hydraulic press brakes.
- HybridForm requires up to **%50 less hydraulic oil** to run compared to traditional hydraulic press brakes. Lifetime of the hydraulic oil is also much longer (up to two times) since oil only circulates in the system during actual bending as opposed to continuous oil circulation on traditional hydraulic press brakes even when it is idle. Also no oil coolant is required for HybridForm even in the most demanding production environments.
- Silent operation of the machine (**up to 15 dB lower sound levels**) compared to traditional hydraulic press brakes.



HybridForm comes with NexT 2.0, a full fledged 2D graphic control with 10" touchscreen that is very easy to program and to run.

After you put in flange lengths and angles of the part you want to bend, NexT will tell you the exact dimension of the sheet you need to cut on your shear or laser cutting machine and will simulate the optimum bending sequence with minimum rotation of the part and avoiding any collision with tools or the machine.



See HybridForm in action on our
YouTube channel

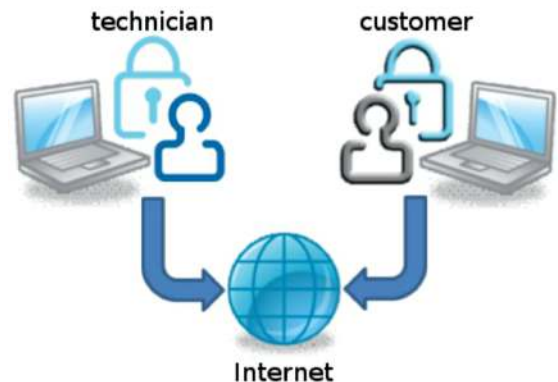
HybridForm's hand operated bed crowning system ensures even angles along the full length of the bed and can be upgraded to CNC controlled bed crowning on request



See Our Backgauge in action!

Servo driven two axis (X,R) backgauge runs on ballscrews for maximum precision. It has two precision machined gauging fingers that can be moved along the backgauge bar on linear guides.

All NexT controls are equipped with remote diagnostic feature and in the unlikely event of an issue, our engineers can remotely connect to your machine and diagnose any issues you might have.



Standard Features

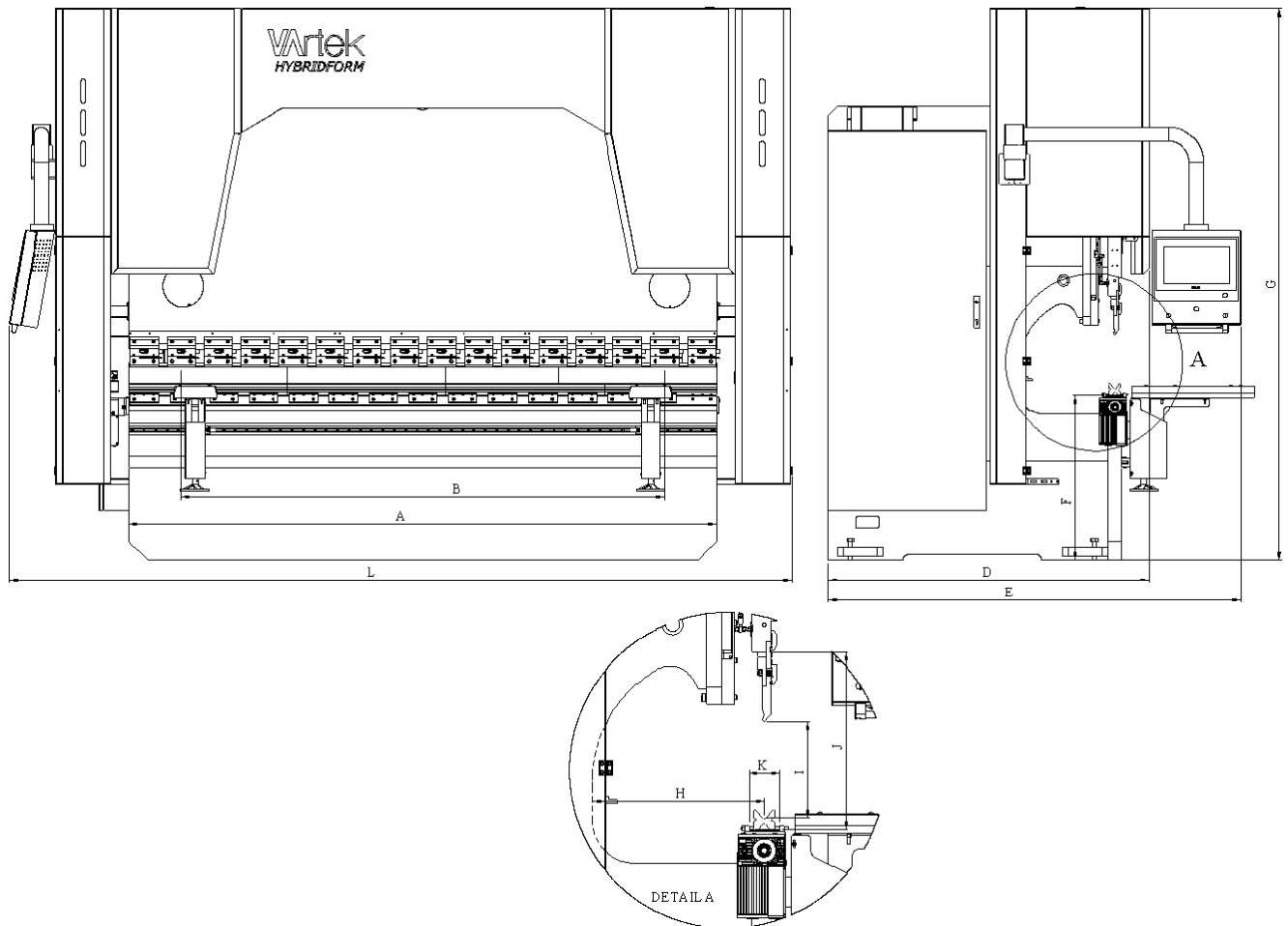
- Rigid frame designed on SolidWorks with stress and deflection analysis, welded by certified welders and machined to 0,01 mm precision in single piece.
- NexT 2.0 10" 2D graphic touchscreen control.
- Dependable servo hydraulic system with servo motors and servo pumps provided by HAWE.
- Honed, chrome covered cylinders with high precision ground pistons
- Y1-Y2 synchronized hydraulic cylinders running on dual ram guides on each side for smooth ascend and descend.
- 2 axis aluminium extrusion backgauge (X,R) running on ballscrews and double linear guides with servo motors to easily gauge parts.
- European and/or American style punch clamps
- European die holder with quick change mechanism.
- Manual crowning of die bed for even angles along full length of bend.
- High stroke (280 mm) and daylight (520 mm) for deep box/panel bending.
- 500 mm throat depth to utilize full length and deep bends.
- High resolution linear scales with an accuracy of 0,01 mm for precise bending.
- Front support arms sliding on linear guides to easily gauge small parts.

Optional Features

- Next 3.0 3D CNC Controller
- Front laser guards for finger protection.
- Automatic crowning of die bed for even angles along full length of bend.
- Custom design throat, stroke and daylight.
- Large selection of punches and dies.
- Tandem Preparation
- Automatic Lubrication System

HYBRID TECH SPECS

TYPE	Bending Length	Bending Tonnage	Stroke	Daylight	Distance between frames	Y axis freefall speed	Bending Speed	Y axis return speed	X axis stroke	R Axis Stroke	X Axis Speed	R Axis Speed	Main Motor	Oil tank	Length	Width	Height	Installed width	Throat Depth	Table Height	table Width	Weight
	A	I	J	B											L	D	G	E	H	F	K	
	mm	Ton	mm	mm	mm	mm/sec	mm/sec	mm/sec	mm	mm	mm/sn	mm/sn	kw	lt	mm	mm	mm	mm	mm	mm	mm	kg
VA-H 2600-100	2600	100	280	520	2100	200	10	200	800	250	500	170	2x3	2x34,5	3450	1750	2900	2250	500	860	90	7300
VA-H 2600-135	2600	135	280	520	2100	200	10	200	800	250	500	170	2x3	2x34,5	3450	1750	2900	2250	500	860	90	7800
VA-H 3100-100	3100	100	280	520	2550	200	10	200	800	250	500	250	2x3	2x34,5	4100	1750	2900	2250	500	860	90	7900
VA-H 3100-135	3100	135	280	520	2550	200	10	200	800	250	500	250	2x3	2x34,5	4100	1750	2900	2250	500	860	90	8300
VA-H 3100-175	3100	175	280	520	2550	200	10	200	800	250	500	250	2x7,65	2x55	4050	1850	3050	2300	500	930	90	10000
VA-H 3100-220	3100	220	280	520	2550	180	10	180	800	250	500	250	2x7,65	2x55	4050	1850	3050	2300	500	930	90	11100
VA-H 4100-135	4100	135	280	520	3550	200	10	200	800	250	500	170	2x3	2x34,5	5100	1750	2900	2250	500	860	90	10100
VA-H 4100-175	4100	175	280	520	3550	200	10	200	800	250	500	170	2x7,65	2x55	5150	1850	3050	2300	500	930	90	12350
VA-H 4100-220	4100	220	280	520	3550	180	10	180	800	250	500	170	2x7,65	2x55	5150	1850	3050	2300	500	930	90	13900



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