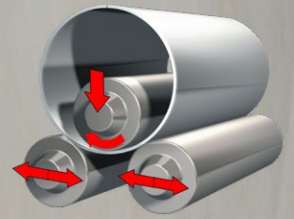


F-FAB

VARIABLE GEOMETRY MOTORIZED THREE ROLLS
FUSELAGE PANELS AND WING EDGE BENDING MACHINE



NEED MULTI RADIUS BENDING?

As with all RMT designs, these special rolls are designed and engineered here in the USA. Built with quality components and extremely intelligent design, these rolls are built to last decades.

No other machines match the speed, simplicity and precision for the aviation industry as the RMT F-Fab Series machines. These machines bend aluminium or titanium alloyed sheets even with one or more radius, including hyperbolic shapes, to get precise cylindrical or tapered forms. The RMT R&D teams experience and expertise can even help create custom machines to solve any problem specific to your project.

There was a time when several companies fought over the aircraft and aerospace industry in forming leading edge's, helicopter propellers, and other special projects. Almost all of those companies are gone now and their used machines are very difficult to find.



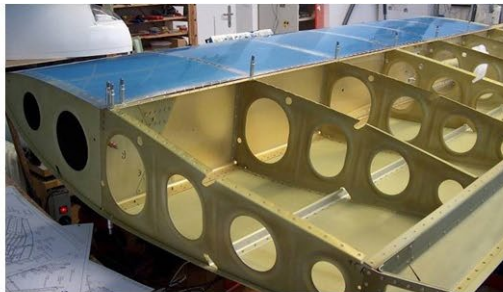
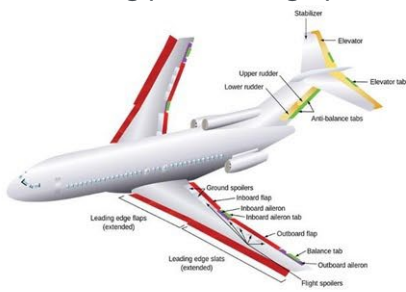
RMT F-Fab series rolls have filled the need and brought back with even more unique features the machine that makes these difficult parts, simple again.



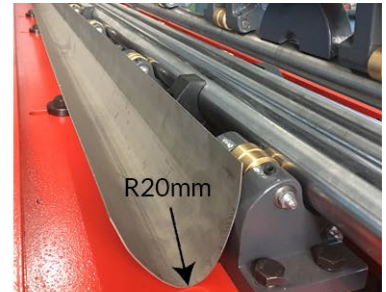
ADVANTAGES

The movement of the upper beam is powered by separate dual speed AC motors, gearboxes, screw jacks and zero backlash couplings. Upper beam positions are monitored by very sensitive linear encoders and digital readouts.

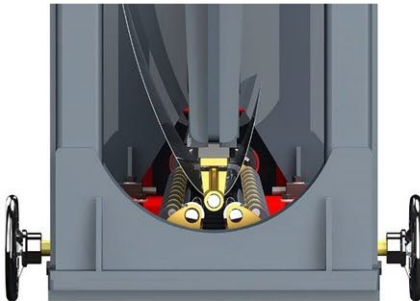
Top and bottom rolls are driven by a high torque dual speed AC motor and gear set. Gearbox rotation transferred to the rolls by sensitive cardan joints. The strong magnetic disk brakes prevent the sheet from sliding back during pre-bending operation.



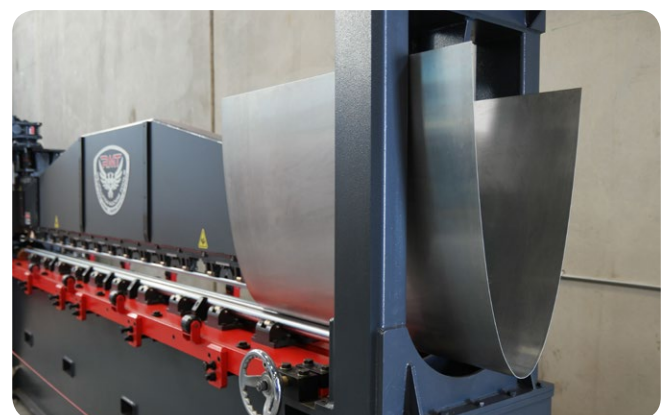
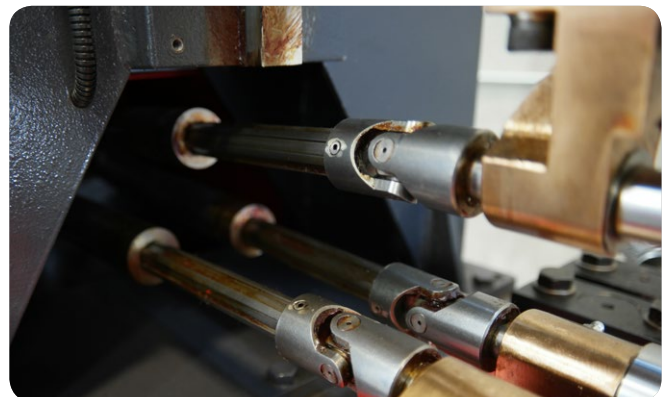
1,5 mm Aluminum 2024-T4



0,8 mm Titanium 6Al4V



If you have ever tried to form relatively thin titanium, then you know exactly how flexible and elastic it is. Overcoming the ultra high yield point to allow the material to take on the new shape you need requires not only special knowledge, but special machinery that takes into consideration the challenges that such materials bring to the table. RMT Rolls are all designed to perform with a wide range of materials to suit each customer's need.



MODEL TYPE	Bending Capacities				Upper Roll	Lower Rolls	Max. Pass Through	Length	Width	Height	Working Height	Weight	Motor Power
	Bending Length	Aluminium 5754-H22 Capacities	Mild Steel & Aluminium 6061-T6 Capacities	Titanium 6242 Capacities									
	L (inch)	T (inch)	T (inch)	T (inch)									
F-FAB 6-100	6'	12 Ga	14 Ga	16 Ga	1.00	1.75	2.00	139	34	84	39.37	4,270	5.5
F-FAB 10-100	10'	14 Ga	16 Ga	20 Ga	1.00	1.75	2.00	187	34	84	39.37	5,823	5.5
F-FAB 12-100	12'	14 Ga	16 Ga	20 Ga	1.00	1.75	2.00	211	34	84	39.37	6,600	5.5
F-FAB 16-100	16'	16 Ga	18 Ga	22 Ga	1.00	1.75	2.00	259	34	84	39.37	8,153	5.5
F-FAB 20-100	20'	16 Ga	18 Ga	22 Ga	1.00	1.75	2.00	307	34	84	39.37	9,706	5.5
F-FAB 10-150	10'	0.156	0.125	14 Ga	1.50	2.00	2.50	187	34	84	39.37	10,390	9.0
F-FAB 12-150	12'	0.156	0.125	14 Ga	1.50	2.00	2.50	211	34	84	39.37	11,660	9.0
F-FAB 16-150	16'	0.125	12 Ga	16 Ga	1.50	2.00	2.50	259	34	84	39.37	14,190	9.0
F-FAB 20-150	20'	0.125	12 Ga	16 Ga	1.50	2.00	2.50	307	34	84	39.37	16,730	9.0
F-FAB 10-200	10'	0.250	0.210	10 Ga	2.00	2.36	3.00	190	44	96	39.37	14,960	13.5
F-FAB 12-200	12'	0.250	0.210	10 Ga	2.00	2.36	3.00	214	44	96	39.37	16,720	13.5
F-FAB 16-200	16'	0.210	0.187	12 Ga	2.00	2.36	3.00	262	44	96	39.37	20,240	13.5
F-FAB 20-200	20'	0.210	0.187	12 Ga	2.00	2.36	3.00	310	44	96	39.37	23,760	13.5

Weight and motor powers optionally goes higher levels with additional features.

STANDARD

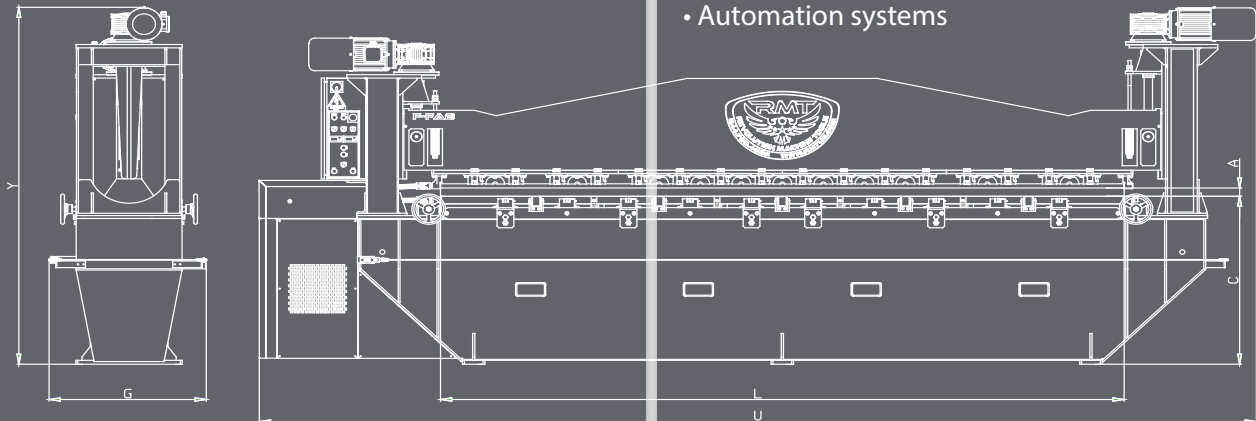
- Digital readout
- Dual speed
- Induction hardened rolls (HRC 54-58)
- AISI 1050 Carbon steel rolls ground and chrome coated.
- Upper beam is powered by separate dual speed AC motors, gearboxes, screw jacks and zero backlash couplings
- Machine body constructed of stress-relieved high yield steel
- Rolls seated in bronze roller bushings
- All rolls driven by AC motor and helical gear box with cardan shafts
- Emergency stop wire around the machine

STANDARD (CONTINUED)

- Electrical and mechanical protection against overloads
- World standard electrical components (parts stocked by RMT or available off-the shelf from your local supplier)
- Manual lubrication

OPTIONAL

- NC Control Unit
- Motorized bottom rolls
- Motorized and NC controlled bottom rolls
- All axis positioning with adjustable speed on NC machines
- Hydraulic side support system (both sides)
- Material feeding table (Idle or motorized)
- Automatic central lubrication
- Automation systems



F-SMART

NUMERIC CONTROLLED VARIABLE GEOMETRY SERVO DRIVEN
THREE ROLLS FUSELAGE PANELS AND WING EDGE
BENDING MACHINE



Aircraft and Aerospace projects require superb precision and repeatability and the RMT F-SMART series can make it easy to reliably form part after part that you can count on.

ADVANTAGES

Superior springback control on thin, high yield materials, by using precise roll positioning and narrow roll geometry. This allows for almost flawless repeatability on even hard to form pieces.

Gearbox disc braking system allows for perfect press bending without allowing the material to slide.

Excessive upper beam daylight lets you easily remove parts.

Portable NC control unit moves with you so you can monitor the forming process anywhere in the work area.

Independent tiltable infeed and outfeed tables provide support to protect your forming radius.

