

NO COMPROMISE.

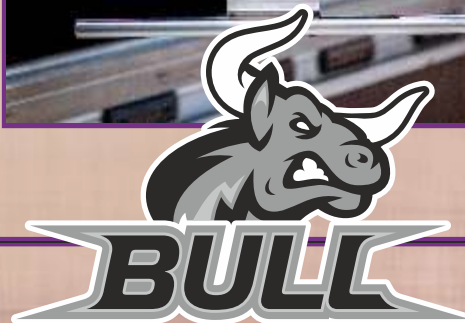
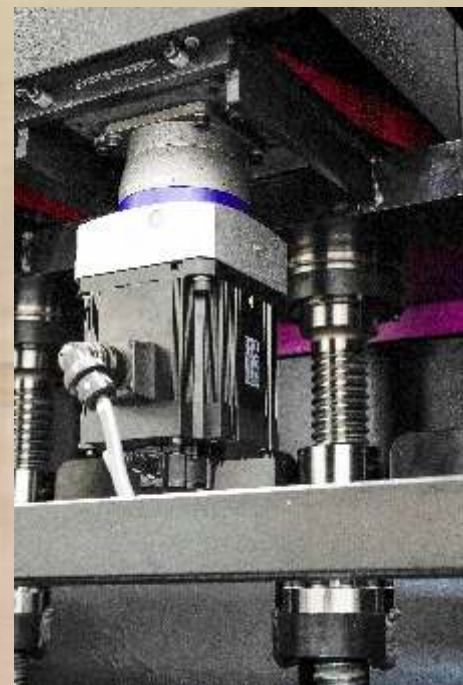
RAW POWER WITH ULTIMATE PRECISION

Introducing new member with high tonnage, The Bull Series.

Built in Finland, home to Europe's higher quality machine exports. These machines are all electric, servo-driven, built to run for decades in most demanding environments. They will last from father to son.

- All Servo Electric
- Accurate
- Ergonomic
- Ecologically Friendly
- Low Operating Costs

Thanks to the simple drive system, the average power consumption of the Bull is only 1-3 kW. The absence of a hydraulic system eliminates expensive hydraulic fluid changes, spare parts, valves and maintenance expenses, common to hydraulic press brakes.



As standard, they have user-friendly Cone TC programming that even unexperienced operator can run machine on their first day.

The closed O-frame suits excellent for bigger press brakes. O-frames deflect different than C-frames: Less vertical and horizontal deflecting. That is less weight, better accuracy. *Small footprint with big power.*

Despite the superior kinematic of the servo technology, compared to the hydraulic; the oil free technology saves environment, needs minimal maintenance and gives superior accuracy with ball screw system.



You don't need long length machine -use the length you bend. Efficiency of small footprint.

**WHEN ACCURACY MATTERS
- BULL SERIES IS THE THING!**



MADE IN
FINLAND

Bull technical data

Technical Data	DIM.	Bull 12	Bull 15
Press tonnage	kN(US tons)	1000(110)	1500(160)
Motor power	kW	2 x 5	3 x 5
Max. bending length (D)	mm	1320	1620
Distance between side frames	mm	1390	1690
Frame width (A)	mm	2200	2500
Frame height (B)	mm	2650	2950
Frame depth (C)	mm	1760	1760
Throat depth	mm	O-frame	O-frame
Table height	mm	900	900
Weight	kg	4500	5500
Daylight	mm	600	600
Y-axis stroke	mm	250	250
Y-axis repeating accuracy	mm	+/-0.002	+/-0.002
Y-axis max. working speed	mm/s	10(20*)	10(20*)
Y-axis approach speed	mm/s	40	40
Y-axis return speed	mm/s	40	40
X-axis speed	mm/s	500	500
X-axis accuracy	mm	+/-0.025	+/-0.025
X-axis stroke	mm	600	600
X-axis max. position dimension	mm	750	750
Delta X-axis speed	mm/s	100	100
Delta X-axis accuracy	mm	+/-0.025	+/-0.025
Delta X-axis stroke	mm	+/-50	+/-50
R-axis speed	mm/s	100	100
R-axis accuracy	mm	+/-0.05	+/-0.05
R-axis stroke	mm	200	200
Z-axis speed	mm/s	1000	1000
Z-axis accuracy	mm	+/-0.5	+/-0.5
Z-axis stroke	mm	120 to 1100	120 to 1400



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MADE IN
FINLAND

