



PRECISION POSITIONING OF THE SHEET WITH SERVO-MOTOR BACKGAUGE

All of the motors used in the backgauge are servo motors. Thus, the sheet can be positioned with minimum precision.

QUIET OPERATION

With 63 dB of sound level, it is the quietest among the sheet metal bending machines.

LOW ENERGY CONSUMPTION (ENVIRONMENT FRIENDLY)

The special hydraulic system has low energy consumption. At the same time, it is environment friendly with an average oil consumption of 34.5 lt.

LOW OPERATION COST

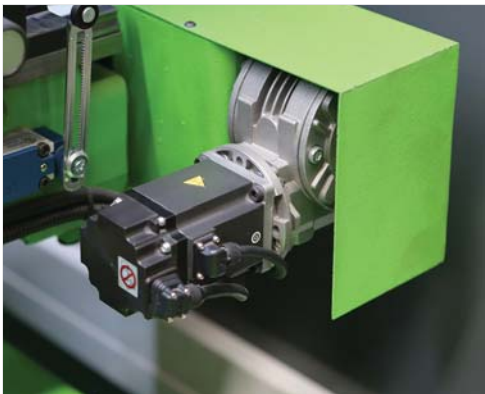
Operating cost is minimum due to low energy consumption. Thus, it gives advantages to the user with high efficiency and low operation cost.

EVO III

GENERAL SPECIFICATIONS



■ Provides ease of bending in reverse bending and in multiple stations with 4 axes backgauge. Time saving in difficult parts (S)



■ The backgauge axes with AC servo motor can move precisely and quickly by means of precision ballscrew, reducer and rails (S)



■ For reverse Z bends, it prevents the part from hitting the backgauge finger by means of the moving tip (S)



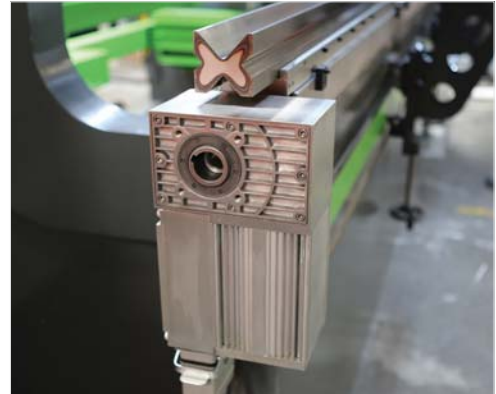
■ For full length bends, backgauge axis can be used to the maximum extent with a throat depth of 410 mm (S)

STANDARD EQUIPMENT

- Steel body with mono bloc welding of ST44 material which is rigid against bending and high tension
- 6 axes (Y1, Y2, X, R, Z1, Z2)
- CNC controlled backgauge system with 4 axes (X, R, Z1, Z2) AC servo motor
- HOERBIGER hydraulic system
- CNC controlled motorized crowning system
- Top and bottom tools hardened and grinded (835 mm length)
- Easy clamping top tool holder system
- Control units; ER TOUCH MASTER, DELEM 66T, ER99
- 3D colour graphics display and offline software
- Electric panel with cooling system designed and manufactured from SIEMENS electrical and automation products in compliance with the CE regulations
- Backlight protection
- Switch side protection covers
- Y1+Y2 axis synchronization with a tolerance of 0.01 provided by linear scales
- CE compliant foot pedal
- Sliding front support arms with T slot and mm/inch scale
- 410 mm throat depth (110 - 170 tons)
- Leuze front light protection system

OPTIONAL EQUIPMENT

- Control units; ER TOUCH PROFESSIONAL, Delem 69T
- 5, 6 axes backgauge options
- AKAS LASER finger protection system
- Laser angle measurement system
- Hydraulic and hydro-dynamic crowning systems
- Pneumatic top tool holder system
- Hydraulic top and bottom tool holder systems
- CNC controlled automatic bend sheet support arms (AP3+AP4 axes)
- Automatic sliders lubricating system
- Special throat depths
- Special top and bottom tools
- Cybelelec Offline etc. software options
- Tool storage cabinet
- Led bar



- The motorized crowning system communicates with the CNC controller and performs automatic crowning, thus the motorized crowning system ensures that the part is at every point and have equal bending angle (S)



- ER TOUCH, touch screen controller equipped with 3D features (S)



- Easy clamping top tool holder system with the bottom and top tools (S)



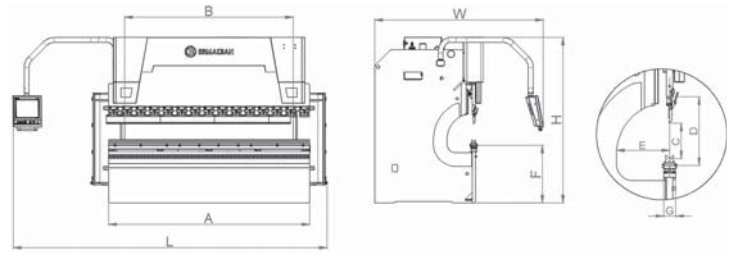
- Height adjustable sliding front support arms with T slot and mm/inch scale (S)

EVO III

TECHNICAL SPECIFICATIONS

TYPE	BENDING LENGTH	BENDING POWER	STANDARD V CHANNEL WIDTH	SHEET THICKNESS (Rm=42kgf/mm2)	DISTANCE BETWEEN COLUMNS	Y RAPID SPEED	Y WORKING SPEED	Y RETURN SPEED	CROWNING	TRAVEL IN X AXIS	SPEED OF X AXIS	TRAVEL OF R AXIS
	A		V	T	B							
	mm (feet)	Ton (Us Tons)	mm (inc)	mm (inc)	mm (inc)	mm/s (inc/s)	mm/s (inc/s)	mm/s (inc/s)		mm (inc)	mm/s (inc/s)	mm (inc)
2600-100 (8,53' - 110)	2600 (8,53)	100 (110)	50 (1,97)	5 (0,20)	2200 (86,61)	200 (7,87)	10 (0,39)	200 (7,87)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3100-100 (10,17' - 110)	3100 (10,17)	100 (110)	50 (1,97)	5 (0,20)	2600 (102,36)	200 (7,87)	10 (0,39)	200 (7,87)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
2600-135 (8,53' - 149)	2600 (8,53)	135 (149)	50 (1,97)	6 (0,24)	2200 (86,61)	160 (6,30)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3100-135 (10,17' - 149)	3100 (10,17)	135 (149)	50 (1,97)	6 (0,24)	2600 (102,36)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3600-135 (11,81' - 149)	3600 (11,81)	135 (149)	50 (1,97)	5 (0,20)	3100 (122,05)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3760-135 (12,34' - 149)	3760 (12,34)	135 (149)	50 (1,97)	5 (0,20)	3250 (127,95)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4100-135 (13,45' - 149)	4100 (13,45)	135 (149)	50 (1,97)	5 (0,20)	3600 (141,73)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4270-135 (14' - 149)	4270 (14)	135 (149)	50 (1,97)	5 (0,20)	3780 (148,82)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3100-175 (10,17' - 193)	3100 (10,17)	175 (193)	50 (1,97)	6 (0,24)	2600 (102,36)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3600-175 (11,81' - 193)	3600 (11,81)	175 (193)	50 (1,97)	6 (0,24)	3100 (122,05)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3760-175 (12,34' - 193)	3760 (12,34)	175 (193)	50 (1,97)	6 (0,24)	3250 (127,95)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4100-175 (13,45' - 193)	4100 (13,45)	175 (193)	50 (1,97)	5 (0,20)	3600 (141,73)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4270-175 (14' - 193)	4270 (14)	175 (193)	50 (1,97)	5 (0,20)	3780 (148,82)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3100-220 (10,17' - 242)	3100 (10,17)	220 (242)	110 (4,33)	11 (0,43)	2600 (102,36)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3600-220 (11,81' - 242)	3600 (11,81)	220 (242)	80 (3,15)	9 (0,35)	3100 (122,05)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3760-220 (12,34' - 242)	3760 (12,34)	220 (242)	80 (3,15)	8 (0,31)	3250 (127,95)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4100-220 (13,45' - 242)	4100 (13,45)	220 (242)	80 (3,15)	8 (0,31)	3600 (141,73)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4270-220 (14' - 242)	4270 (14)	220 (242)	80 (3,15)	8 (0,31)	3780 (148,82)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3100-260 (10,17' - 286)	3100 (10,17)	260 (286)	120 (4,72)	13 (0,51)	2600 (102,36)	140 (5,51)	11 (0,43)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3600-260 (11,81' - 286)	3600 (11,81)	260 (286)	80 (3,15)	9 (0,35)	3100 (122,05)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
3760-260 (12,34' - 286)	3760 (12,34)	260 (286)	80 (3,15)	8 (0,31)	3250 (127,95)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4100-260 (13,45' - 286)	4100 (13,45)	260 (286)	110 (4,33)	10 (0,39)	3600 (141,73)	140 (5,51)	11 (0,43)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)
4270-260 (14' - 286)	4270 (14)	260 (286)	110 (4,33)	10 (0,39)	3780 (148,92)	140 (5,51)	11 (0,43)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)

* Bending speed can not exceed 10mm/sec (0,39inc/sec) according to the CE regulations.



SPEED OF R AXIS	BACKGAUGE FINGER BLOCKS	NUMBER OF SHEET SUPPORT	OIL CAPACITY	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	HEIGHT	WIDTH	WEIGHT
				C	D	E	F	G	L	H	W	
mm/s (inc/s)	Amount	Amount	lt. (Us Gallons)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	kg. (lbr.)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	4600 (181,10)	2700 (106,30)	2200 (86,61)	6100 (13451)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	5100 (200,79)	2700 (106,30)	2200 (86,61)	6600 (14553)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	4600 (181,10)	2700 (106,30)	2200 (86,61)	7500 (16538)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5100 (200,79)	2700 (106,30)	2200 (86,61)	8000 (17940)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5600 (220,47)	2700 (106,30)	2200 (86,61)	9200 (20286)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5760 (226,77)	2700 (106,30)	2200 (86,61)	9350 (20617)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	6100 (240,16)	2700 (106,30)	2200 (86,61)	10800 (23814)
350 (13,78)	2	2	34,5 (9,1)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	6270 (246,85)	2700 (106,30)	2200 (86,61)	11000 (24255)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5100 (200,79)	2700 (106,30)	2200 (86,61)	8800 (19404)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5600 (220,47)	2700 (106,30)	2200 (86,61)	10000 (22050)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5760 (226,77)	2700 (106,30)	2200 (86,61)	10150 (22381)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	6100 (240,16)	2700 (106,30)	2200 (86,61)	11500 (25358)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	6270 (246,85)	2700 (106,30)	2200 (86,61)	11700 (25799)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	5100 (200,79)	2700 (106,30)	2250 (88,58)	11100 (24476)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5600 (220,47)	2720 (107,09)	2250 (88,58)	12350 (27232)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5760 (226,77)	2720 (107,09)	2250 (88,58)	12700 (28004)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	6100 (240,16)	2780 (109,45)	2250 (88,58)	13250 (29216)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	6270 (246,85)	2780 (109,45)	2250 (88,58)	13500 (29768)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	220 (8,66)	5100 (200,79)	3070 (120,87)	2280 (89,76)	13500 (29768)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5600 (220,47)	3080 (121,26)	2280 (89,76)	15700 (34619)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5670 (226,77)	3080 (121,26)	2280 (89,76)	16000 (35280)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	6100 (240,16)	3100 (122,05)	2280 (89,76)	16800 (37044)
350 (13,78)	2	2	55 (14,5)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	6270 (246,85)	3100 (122,05)	2280 (89,76)	17100 (37706)