

# SPEED-BEND PRO

SYNCHRONIZED HYDRAULIC PRESS BRAKES

## High Sensitivity Maximum Productivity

Production time is the most important profit factor for businesses. The Speed Bend series have been designed to reduce the unit time costs and to be your most important power in your business with its fast and quality production capability in a competitive environment.

Movement range of the upper beam and the daylight opening have been increased in the Speed Bend Pro series. Thus, the user is provided as a standard with the possibilities of obtaining deep bends by use of longer dies, taking the bent parts easily from the front side of the machine and easily bending the Z type parts with long boarder by use of high bottom tools.

Realistic 3D modelling

Low energy consumption

Easy service by remote access

Quick and easy tool replacement

Customer focused ergonomic solutions

Backgauge with servo motor



### ERGONOMIC DESIGN

Performance of the complex bends easily by means of the 4 axes backgauge that help bending and other accessories saves both time and money.

### PRECISE BENDING

The deflection balance can be done with the motor in the most ideal way with the standard motorized crowning system. Thus, precision bendings are obtained.



### **LOW OPERATION COST**

Energy consumption is at minimum level. Cylinders and hydraulic installations that require little maintenance and provide easy use. Therefore, it has low operating cost.

### **SHORT-TERM DEPRECIATION**

It is a profitable investment with its speed and versatility and it can recover its own cost in a short time.

### **PRECISE PROGRAMMING**

Thanks to the HEIDENHAIN linear scales produced in high quality standards in special production facilities, it provides fast, easy, error-free and precise programming.

### **SLIDING FRONT SUPPORT ARMS**

The sliding front support arms having a height adjustment that are dimensioned in the metric system are your greatest help for perfect bends.

# SPEED-BEND PRO

## GENERAL SPECIFICATIONS



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



- Wila hydraulic tool holder systems (O)



- The motorized crowning system which communicates with the CNC controller and performs automatic crowning, ensuring that the bended part is at every point and at equal bend angles (S).



- Easy-clamping top tool holder system, with bottom and top tools (O)



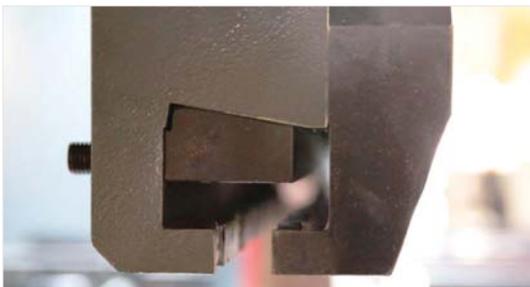
- Pneumatic tool clamping systems clamp the tools automatically with the aid of air and center the tools. They are perfect solutions for shortening the start-up time and for the automated press brakes (O)

### 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 with machined and hardened parts (835 mm length)
- Easy clamping top tool holder system
- Control units; Control units; ER TOUCH MASTER, DELEM 66T, ER99, CYBELEC MODEVA 19T, ESA S660W
- 3D graphics color display and offline software
- Electrical panel designed and manufactured from SIEMENS electrical and automation products in accordance with the CE regulations
- Ergonomic and user friendly suspension control panel
- Backlight protection
- 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 mm/inch scale
- 410 mm throat depth (60 - 320 tons)
- Led light enclosures

## OPTIONAL EQUIPMENT

- Graphical control units; ER TOUCH PROFESSIONAL, DELEM 69T, CYBELEC MODEVA RA PREMIUM
- 5, 6 axes backgauge options
- LEUZE light protection system
- AKAS LASER finger protection system
- DSP MCS AP photo electric laser front protection
- 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 bending sheet support arms (AP3+AP4 axes)
- Hydraulic oil cooling and heating systems
- Automatic sliders lubricating system
- Special throat depths (500, 600 and 750 mm and above)
- Special top and bottom tools
- Tool storage cabinet
- Led bar



- The hydraulic top tool clamping system with roller ball bearings inside allows quick and easy tool replacement. Heavy tools can be placed anywhere desired precisely (O)



- AP3, AP4 CNC controlled support arms reduce the bending time significantly and are your biggest help for perfect bends (O)



- Provides time and cost advantages with Multi V or U type adjustable dies (O)



- With colored LED bars, it indicates the location of the bent parts and the bending stations (O)

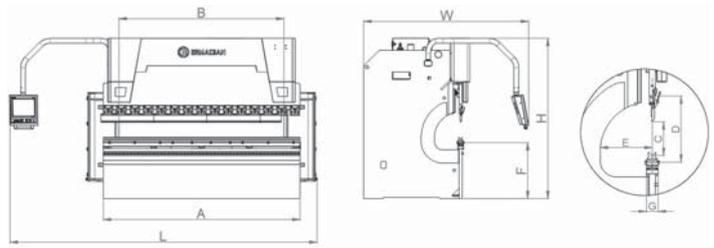


- Fast and precise backgauge systems with 6 axes (X1+X2+R1+R2+Z1+Z2) with servo motor. Allows you to increase production efficiency and quality (O)

# TECHNICAL SPECIFICATIONS

TYPE	BENDING LENGTH	BENDING POWER	DISTANCE BETWEEN COLUMNS	Y RAPID SPEED	Y WORKING SPEED	Y RETURN SPEED	CROWNING	TRAVEL IN X AXIS	SPEED OF X AXIS	TRAVEL IN R AXIS	SPEED OF R AXIS	BACKGAUGE FINGER BLOCKS
	A	B										
	mm (feet)	Ton (Us Tons)	mm (inc)	mm/s (inc/s)	mm/s (inc/s)	mm/s (inc/s)		mm (inc)	mm/s (inc/s)	mm (inc)	mm/s (inc/s)	
SB 1270 - 40 (4,17' - 44)	1270 (4,17)	40 (44)	1050 (41,34)	140 (5,51)	10 (0,39)	170 (6,69)	Motorized	500 (19,69)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 1270 - 60 (4,17' - 66)	1270 (4,17)	60 (66)	1000 (39,37)	160 (6,30)	10 (0,39)	165 (6,50)	Motorized	500 (19,69)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 2100 - 40 (6,89' - 44)	2100 (6,89)	40 (44)	1700 (66,93)	140 (5,51)	10 (0,39)	170 (6,69)	Motorized	500 (19,69)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 2100 - 60 (6,89' - 66)	2100 (6,89)	60 (66)	1700 (66,93)	160 (6,30)	10 (0,39)	165 (6,50)	Motorized	500 (19,69)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 2600 - 60 (8,53' - 66)	2600 (8,53)	60 (66)	2200 (86,61)	200 (7,87)	10 (0,39)	165 (6,50)	Motorized	500 (19,69)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 2600 - 100 (8,53' - 110)	2600 (8,53)	100 (110)	2200 (86,61)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 2600 - 135 (8,53' - 149)	2600 (10,17)	135 (149)	2200 (86,61)	160 (6,30)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 100 (10,17' - 110)	3100 (10,17)	100 (110)	2600 (102,36)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 135 (10,17' - 149)	3100 (10,17)	135 (149)	2600 (102,36)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 175 (10,17' - 193)	3100 (10,17)	175 (193)	2600 (102,36)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 220 (10,17' - 242)	3100 (10,17)	220 (242)	2600 (102,36)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 260 (10,17' - 286)	3100 (10,17)	260 (286)	2600 (102,36)	140 (5,51)	11 (0,41)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 320 (10,17' - 352)	3100 (10,17)	320 (352)	2600 (102,36)	140 (5,51)	11 (0,41)	150 (5,91)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 400 (10,17' - 440)	3100 (10,17)	400 (440)	2550 (100,39)	110 (4,33)	8 (0,33)	130 (5,12)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3100 - 500 (10,17' - 550)	3100 (10,17)	500 (550)	2450 (96,46)	80 (3,15)	7 (0,29)	65 (2,56)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3760 - 175 (12,34' - 193)	3760 (12,34)	175 (193)	3250 (127,95)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3760 - 220 (12,34' - 242)	3760 (12,34)	220 (242)	3250 (127,95)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3760 - 260 (12,34' - 286)	3760 (12,34)	260 (286)	3250 (127,95)	140 (5,51)	11 (0,43)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 3760 - 320 (12,34' - 352)	3760 (12,34)	320 (352)	3250 (127,95)	140 (5,51)	11 (0,43)	150 (5,91)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 135 (12,45' - 149)	4100 (12,45)	135 (149)	3600 (141,73)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 175 (13,45' - 193)	4100 (13,45)	175 (193)	3600 (141,73)	180 (7,09)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 220 (13,45' - 242)	4100 (13,45)	220 (242)	3600 (141,93)	180 (7,09)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 260 (13,45' - 286)	4100 (13,45)	260 (286)	3600 (141,93)	140 (5,51)	11 (0,41)	135 (5,31)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 320 (13,45' - 352)	4100 (13,45)	320 (352)	3600 (141,93)	140 (5,51)	11 (0,41)	150 (5,91)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 400 (13,45' - 440)	4100 (13,45)	400 (440)	3550 (139,76)	110 (4,33)	8 (0,33)	130 (5,12)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 500 (13,45' - 550)	4100 (13,45)	500 (550)	3400 (133,86)	80 (3,15)	7 (0,29)	65 (2,56)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 600 (13,45' - 660)	4100 (13,45)	600 (660)	3400 (133,86)	80 (3,15)	8 (0,33)	75 (2,95)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 1250 (13,45' - 1375)	4100 (13,45)	1250 (1375)	3000 (118,11)	70 (2,76)	6 (0,24)	80 (3,15)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4100 - 1500 (13,45' - 1650)	4100 (13,45)	1500 (1650)	2900 (114,17)	70 (2,76)	6 (0,24)	80 (3,15)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4270 - 135 (14' - 149)	4270 (14)	135 (149)	3780 (148,82)	200 (7,87)	12 (0,47)	190 (7,48)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4270 - 220 (14' - 242)	4270 (14)	220 (242)	3780 (148,82)	180 (7,19)	10 (0,39)	185 (7,28)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4270 - 320 (14' - 352)	4270 (14)	320 (352)	3780 (148,82)	140 (5,51)	11 (0,41)	150 (5,91)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4270 - 400 (14' - 440)	4270 (14)	400 (440)	3780 (148,82)	110 (4,33)	8 (0,33)	130 (5,12)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 4270 - 600 (14' - 660)	4270 (14)	600 (660)	3600 (141,73)	80 (3,15)	8 (0,33)	75 (2,95)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	2
SB 6100 - 220 (20,01' - 242)	6100 (20,01)	220 (242)	5100 (200,79)	130 (5,12)	11 (0,43)	125 (4,92)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 320 (20,01' - 352)	6100 (20,01)	320 (352)	5100 (200,79)	80 (3,15)	11 (0,41)	75 (2,95)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 400 (20,01' - 440)	6100 (20,01)	400 (440)	5100 (200,79)	80 (3,15)	8 (0,33)	65 (2,56)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 500 (20,01' - 550)	6100 (20,01)	500 (550)	5100 (200,79)	80 (3,15)	7 (0,29)	65 (2,55)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 600 (20,01' - 660)	6100 (20,01)	600 (660)	5100 (200,79)	80 (3,15)	8 (0,33)	75 (2,95)	Motorized	800 (31,50)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 800 (20,01' - 880)	6100 (20,01)	800 (880)	5100 (200,79)	80 (3,15)	6 (0,24)	65 (2,56)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 1000 (20,01' - 1100)	6100 (20,01)	1000 (1100)	5100 (200,79)	70 (2,76)	6 (0,24)	50 (1,97)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 1250 (20,01' - 1375)	6100 (20,01)	1250 (1375)	5000 (196,85)	70 (2,76)	6 (0,24)	55 (2,17)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	4
SB 6100 - 1500 (20,01' - 1650)	6100 (20,01)	1500 (1650)	4900 (192,91)	70 (2,76)	6 (0,22)	55 (2,17)	Motorized	1000 (39,37)	500 (19,69)	250 (9,84)	350 (13,78)	4

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



NUMBER OF SHEET SUPPORT	OIL CAPACITY	MOTOR POWER	STROKE	DAY LIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	HEIGHT	WIDTH	WEIGHT	OPTIONAL		
												SPEED OF TRAVEL X1,X2 AXIS	SPEED OF TRAVEL R1,R2 AXIS	SPEED OF TRAVEL Z1,Z2 AXIS
Amount	lt. (Us Gallons)	kW (Hp)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	mm (inc)	kg. (lbr.)	mm/s (inc/s)	mm/s (inc/s)	mm/s (inc/s)
2	80 (21,14)	6 (7,38)	170 (6,69)	387 (15,22)	350 (13,78)	850 (33,46)	90 (3,54)	2150 (84,65)	2300 (90,55)	1650 (64,96)	3200 (7100)	500 (19,69)	350 (13,78)	1000 (39,37)
2	150 (39,63)	8 (10,06)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	2250 (88,58)	2750 (108,27)	1960 (77,17)	4300 (9526)	500 (19,69)	350 (13,78)	1000 (39,37)
2	80 (21,14)	6 (7,38)	170 (6,69)	387 (15,22)	350 (13,78)	850 (33,46)	90 (3,54)	2900 (114,17)	2300 (90,55)	1650 (64,96)	4100 (8566)	500 (19,69)	350 (13,78)	1000 (39,37)
2	150 (39,63)	8 (10,06)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	3250 (127,95)	2750 (108,27)	1960 (77,17)	5800 (12212)	500 (19,69)	350 (13,78)	1000 (39,37)
2	150 (39,63)	8 (10,06)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	3750 (147,64)	2750 (108,27)	1960 (77,17)	6200 (12569)	500 (19,69)	350 (13,78)	1000 (39,37)
2	200 (52,84)	11 (14,75)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	3750 (147,64)	2800 (110,24)	1950 (76,77)	7000 (13832)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	3750 (147,64)	2800 (110,24)	2050 (80,71)	8400 (16919)	500 (19,69)	350 (13,78)	1000 (39,37)
2	200 (52,84)	11 (14,75)	275 (10,83)	530 (20,87)	410 (16,14)	900 (35,43)	90 (3,54)	4250 (167,32)	2800 (110,24)	1950 (76,77)	7600 (14963)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	4250 (167,32)	2800 (110,24)	2050 (80,71)	8800 (18050)	500 (19,69)	(13,78)350	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	4250 (167,21)	2800 (110,24)	2150 (84,65)	9600 (20035)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	19 (24,81)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	4550 (179,13)	2850 (112,20)	2250 (88,58)	11700 (24886)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	22 (29,50)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	220 (8,66)	4550 (179,13)	2900 (114,17)	2350 (92,52)	15200 (30619)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	410 (16,14)	900 (35,43)	240 (9,45)	4550 (179,13)	3200 (125,98)	2450 (96,46)	16925 (37666)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	510 (20,08)	1000 (39,37)	240 (9,45)	4550 (179,13)	3470 (136,61)	2650 (104,33)	21040 (46107)	500 (19,69)	350 (13,78)	1000 (39,37)
2	500 (132,10)	30 (40,23)	375 (14,76)	675 (26,57)	510 (20,08)	1020 (40,16)	240 (9,45)	4900 (192,91)	3750 (147,34)	2650 (104,33)	27700 (60710)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	4900 (192,91)	2800 (110,24)	2150 (84,65)	11100 (22284)	500 (19,69)	(13,78)350	1000 (39,37)
2	300 (79,26)	19 (24,81)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5100 (200,79)	2900 (114,17)	2250 (88,58)	12800 (28458)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	22 (29,50)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	5100 (200,79)	3000 (118,11)	2350 (92,52)	16100 (35501)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	410 (16,14)	900 (35,43)	220 (8,66)	5100 (200,79)	3150 (124,02)	2450 (96,46)	20180 (44766)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5100 (200,79)	2800 (110,24)	2100 (82,68)	10800 (24176)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5100 (200,79)	2850 (112,20)	2150 (84,65)	12100 (25168)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	19 (24,81)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5150 (202,76)	3000 (118,11)	2250 (88,58)	14000 (29578)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	22 (29,50)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	200 (7,87)	5150 (202,76)	3000 (118,11)	2350 (92,52)	16900 (37516)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	410 (16,14)	900 (35,43)	220 (8,66)	5350 (210,63)	3150 (124,02)	2450 (96,46)	21950 (48651)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	510 (20,08)	1000 (39,37)	240 (9,45)	5450 (214,57)	3470 (136,61)	2650 (104,33)	26530 (58232)	500 (19,69)	350 (13,78)	1000 (39,37)
2	500 (132,10)	30 (40,23)	375 (14,76)	675 (26,57)	510 (20,08)	1100 (43,31)	240 (9,45)	5450 (214,57)	3850 (151,57)	2650 (104,33)	32500 (71290)	500 (19,69)	350 (13,78)	1000 (39,37)
2	500 (132,10)	37 (49,62)	375 (14,76)	675 (26,57)	510 (20,08)	900 (35,43)	240 (9,45)	5900 (232,28)	3650 (143,70)	2650 (104,33)	36500 (79889)	500 (19,69)	350 (13,78)	1000 (39,37)
2	1200 (317,04)	55 (73,76)	510 (20,08)	1000 (39,37)	610 (24,02)	800 (31,50)	440 (17,32)	5900 (232,28)	4600 (181,10)	3300 (129,92)	77670 (170537)	500 (19,69)	350 (13,78)	1000 (39,37)
2	1500 (396,30)	75 (100,58)	610 (24,02)	1100 (43,31)	610 (24,02)	800 (31,50)	480 (18,90)	5900 (232,28)	5000 (196,85)	3700 (145,67)	92070 (203014)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	15 (20,12)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	90 (3,54)	5280 (207,87)	2800 (110,24)	2150 (84,65)	11100 (24848)	500 (19,69)	350 (13,78)	1000 (39,37)
2	300 (79,26)	19 (24,81)	275 (10,83)	550 (21,65)	410 (16,14)	900 (35,43)	160 (6,30)	5320 (209,45)	3000 (118,11)	2250 (88,58)	14800 (32896)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	410 (16,14)	900 (35,43)	220 (8,66)	5600 (220,47)	3200 (128,98)	2450 (96,46)	22600 (49833)	500 (19,69)	350 (13,78)	1000 (39,37)
2	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	510 (20,08)	1000 (39,37)	240 (9,45)	5600 (220,47)	3470 (136,61)	2650 (104,33)	26750 (58721)	500 (19,69)	350 (13,78)	1000 (39,37)
2	500 (132,10)	37 (49,62)	375 (14,76)	675 (26,57)	510 (20,08)	900 (35,43)	240 (9,45)	6100 (240,16)	3700 (145,67)	2650 (104,33)	37250 (81545)	500 (19,69)	350 (13,78)	1000 (39,37)
4	300 (79,26)	19 (24,81)	275 (10,83)	550 (21,65)	410 (16,14)	1100 (43,31)	180 (7,09)	7500 (295,28)	3200 (128,98)	2350 (92,52)	26000 (54746)	500 (19,69)	350 (13,78)	1000 (39,37)
4	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	410 (16,14)	1100 (43,31)	180 (7,09)	7500 (295,28)	3350 (131,89)	2450 (96,46)	31100 (68196)	500 (19,69)	350 (13,78)	1000 (39,37)
4	400 (105,68)	30 (40,23)	375 (14,76)	650 (25,59)	510 (20,08)	1100 (43,31)	200 (7,87)	7650 (301,18)	3750 (147,64)	2650 (104,33)	39900 (87539)	500 (19,69)	350 (13,78)	1000 (39,37)
4	500 (132,10)	30 (40,23)	375 (14,76)	675 (26,57)	510 (20,08)	900 (35,43)	240 (9,45)	7900 (311,02)	3700 (145,67)	2650 (104,33)	42800 (93982)	500 (19,69)	350 (13,78)	1000 (39,37)
4	500 (132,10)	37 (49,62)	375 (14,76)	675 (26,57)	510 (20,08)	900 (35,43)	240 (9,45)	7900 (311,02)	3900 (153,54)	2650 (104,33)	48100 (105668)	500 (19,69)	350 (13,78)	1000 (39,37)
4	800 (211,36)	37 (49,62)	410 (16,14)	710 (27,95)	610 (24,02)	900 (35,73)	240 (9,45)	7900 (311,02)	4100 (161,42)	3050 (120,08)	63000 (137936)	500 (19,69)	350 (13,78)	1000 (39,37)
4	1000 (264,20)	45 (60,35)	510 (20,08)	900 (35,43)	610 (24,02)	800 (31,50)	340 (13,39)	7900 (311,02)	4350 (171,26)	3250 (127,95)	72320 (158711)	500 (19,69)	350 (13,78)	1000 (39,37)
4	1200 (317,04)	55 (73,76)	510 (20,08)	1000 (39,37)	610 (24,02)	800 (31,50)	380 (14,96)	7900 (311,02)	4800 (188,98)	3400 (133,86)	93720 (205898)	500 (19,69)	350 (13,78)	1000 (39,37)
4	1500 (396,30)	75 (100,58)	610 (24,02)	1100 (43,31)	610 (24,02)	800 (31,50)	400 (15,75)	7900 (311,02)	5000 (196,85)	3700 (145,67)	106630 (235119)	500 (19,69)	350 (13,78)	1000 (39,37)