AZIMUTH

PRESSES & AUTOMATION

MODEL S

SERVO PRESSES

6 TO 33 TONS · FULLY ELECTRIC

Compact, programmable servo presses designed and built by Azimuth, ready to run alone or as the heart of a complete line.



6S | 8S | 10S | 15S | 22S | 33S

AZIMUTHPRESS.COM

BUILT & ASSEMBLED IN NORTH AMERICA · SINCE 1975

WE DESIGN. WE BUILD. WE SUPPORT.

WHY A MODEL S

FULLY ELECTRIC SERVO
No flywheel, no clutch, no hydraulics and no compressed air. A belt-driven servo delivers the force on every stroke.

PROGRAMMABLE MOTION
Set stroke, speed and position from the HMI. Save each job and recall it at changeover.

TORQUE PROTECTION
Programmable torque limits protect the press and your tooling. Die protection is available as an option.

PROGRAMMABLE CAM OUTPUTS
Timed signals for the feed, blow-off, part ejection and more, set by crank angle.

AZIMUTH CONTROLS
Designed in-house by our UL certified automation shop, with OMRON servo drives and motors.

SPARES ON THE SHELF
Key wear parts such as bushings and the ball screw are typically in stock at our plant.

ONE PRESS, EVERY MOTION



01 · FULL STROKE
Runs like a conventional press, single stroke or continuous.



02 · PENDULUM
Rocks over a shorter stroke for faster cycles on thin parts.



03 · VELOCITY CAM
Fast approach and return, slowed down in the working zone.

TYPICAL APPLICATIONS

STAMPING · PIERCING & PUNCHING · PUNCHING PLASTIC & ALUMINUM EXTRUSIONS · FORMING · ASSEMBLY & INSERTION

WE DESIGN. WE BUILD.

SERVO PRESSES

MODEL S · 6 TO 33 TONS · FULLY ELECTRIC



MODEL	6S	8S	10S	15S	22S	33S
CAPACITY tons	6	8	10	15	22	33
RATED ABOVE BDC in	0.07	0.06	0.06	0.06	0.125	0.125
STROKE in	1.25	1.50	2.00	3.00	3.00	3.00
SPEED, FULL STROKE spm	167	111	142	75	50	48
SPEED, 1/8 STROKE spm	332	276	308	216	163	159
MAX DIE HEIGHT in	5.63	6.00	6.00	7.00	7.50	8.50
MIN DIE HEIGHT in	4.38	4.50	4.00	5.00	5.00	5.50
THROAT DEPTH in	4.50	5.00	5.50	6.00	7.25	8.50
BETWEEN UPRIGHTS in	6	7	8	10	10	12
SLIDE BOTTOM, L-R in	5.50	4.00	4.50	6.50	6.50	9.00
SLIDE BOTTOM, F-B in	3.50	6.00	6.50	9.50	9.50	14.00
SHANK HOLE, Ø × DEPTH in	1.5 × 3	1.5 × 3	1.5 × 3	1.5 × 3	1.5 × 3	1.5 × 3
BOLSTER, L-R × F-B in	11 × 7	12 × 8	14 × 9	20 × 12	20 × 12	24 × 14
BED HEIGHT FROM FLOOR in	BENCH	39.5	39.5	39.5	39.5	39.5
SERVO MOTOR kW	3.0	3.0	5.0	5.0	7.5	11.0
SERVO, OMRON R88M-	1L3K030T	1L3K030T	1L5K030C	1L5K030C	1M7K515T	1M11K015T
PULLEY RATIO teeth	36:20	36:20	72:34	90:45	90:45	112:36
GEARHEAD RATIO	10:1	15:1	10:1	20:1	15:1	10:1
WEIGHT lb	500	750	1,250	1,500	2,500	3,500

INCHES · TONNAGE RATED AT THE STATED DISTANCE ABOVE BDC · SPEEDS AT 480 VAC, TYPICAL · 6S IS BENCH-MOUNT · SPECS SUBJECT TO CHANGE

FULLY ELECTRIC SERVO
No flywheel, no clutch, no hydraulics. Belt-driven servo.

PROGRAMMABLE CAM OUTPUTS
Timed signals for the feed, blow-off and more.

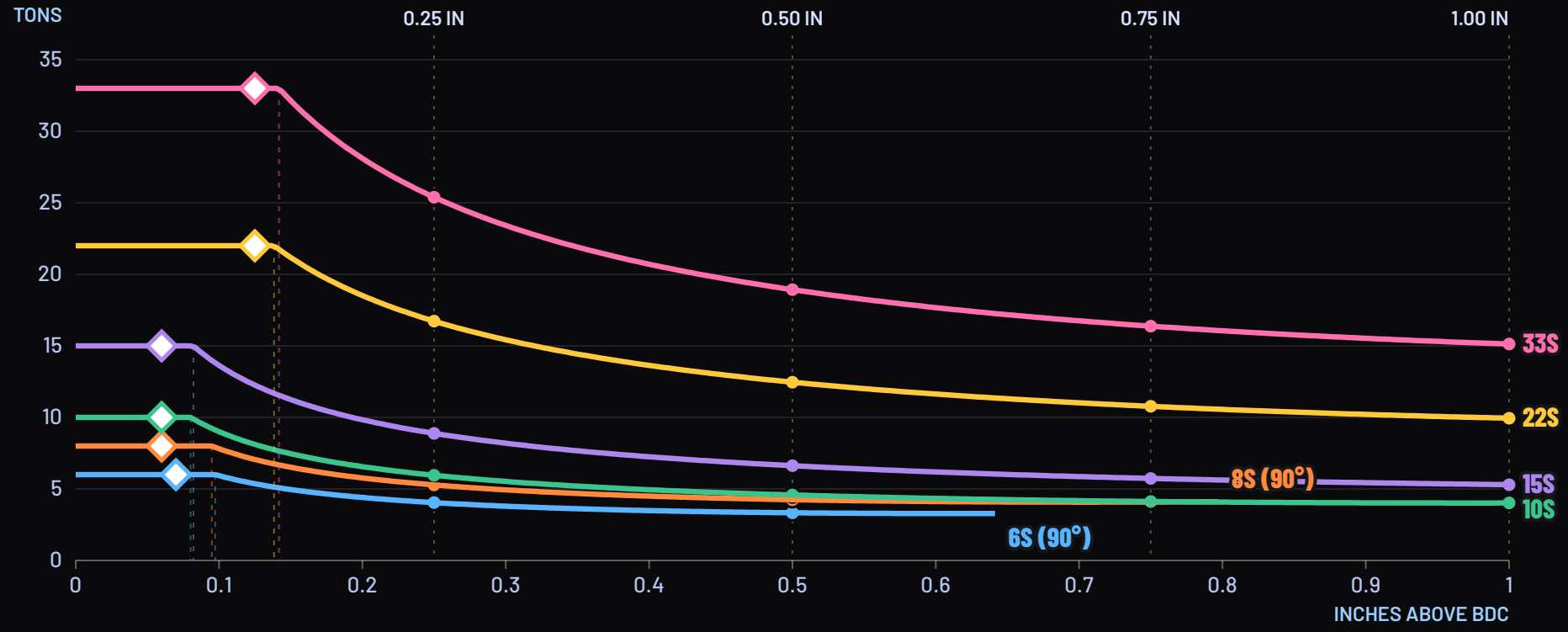
TORQUE PROTECTION
Programmable torque protects the machine. Die protection optional.

✓ SERVO FEED INTERFACE ✓ OPTIONAL GUARDING ✓ CUSTOM FRAME & STROKE ✓ LIFETIME SUPPORT

KNOW YOUR PRESS

TONNAGE CURVES

Tonnage available at each slide height above BDC for every Model S press. White diamonds mark the rated tonnage point; dots give the tonnage at 0.25, 0.50, 0.75 and 1.00 in, listed below.



MODEL	6S	8S	10S	15S	22S	33S
RATED, IN ABOVE BDC	6 T at 0.07	8 T at 0.06	10 T at 0.06	15 T at 0.06	22 T at 0.125	33 T at 0.125
FULL TONNAGE UP TO, IN	0.097	0.095	0.080	0.082	0.138	0.142
TONS AT 0.25 IN	4.0	5.3	6.0	8.9	16.7	25.4
TONS AT 0.50 IN	3.3	4.2	4.6	6.6	12.5	18.9
TONS AT 0.75 IN	—	4.1	4.1	5.7	10.8	16.4
TONS AT 1.00 IN	—	—	4.0	5.3	9.9	15.1

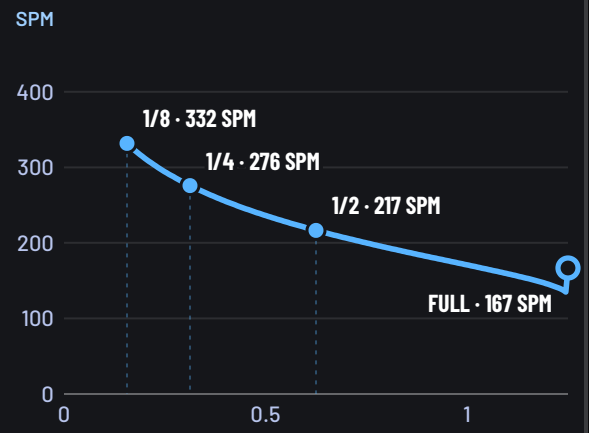
TONNAGE AT PEAK SERVO TORQUE, CAPPED AT THE PRESS RATING · CURVES END AT 90° OF CRANK · SPECS SUBJECT TO CHANGE

FASTER ON SHORT STROKES

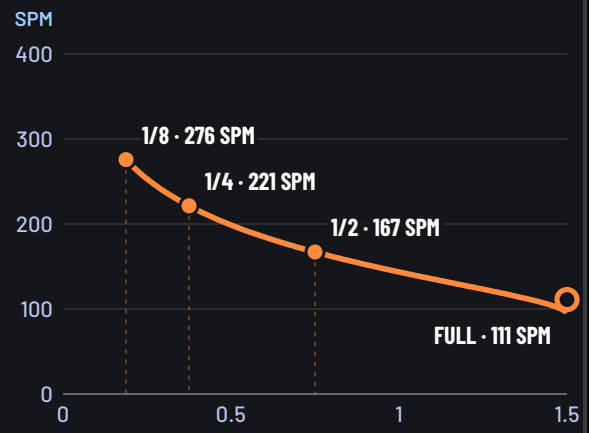
SPEED CURVES

Strokes per minute for the stroke length the job uses. Full stroke is one crank turn per stroke; shorter strokes run in pendulum mode, swinging through BDC and back.

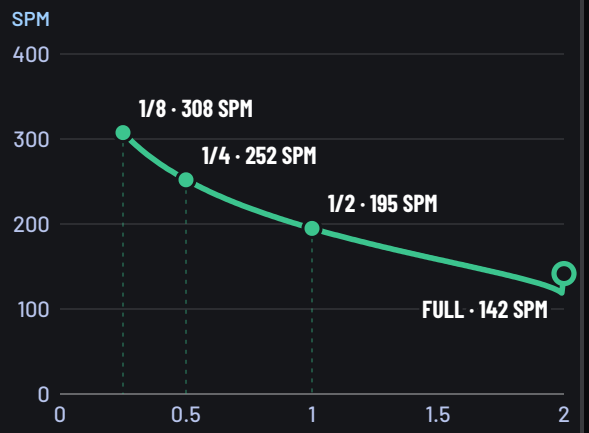
6S — 1.25 IN FULL STROKE



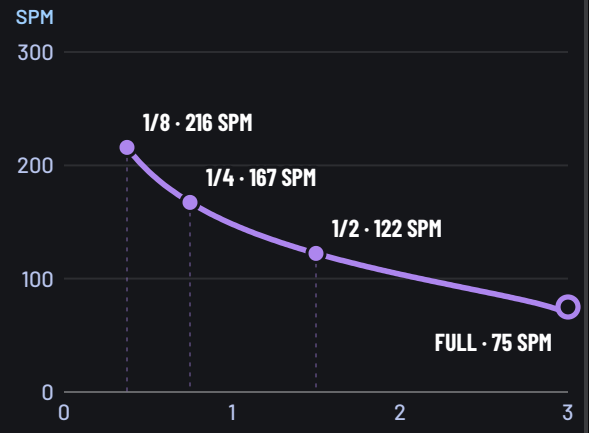
8S — 1.50 IN FULL STROKE



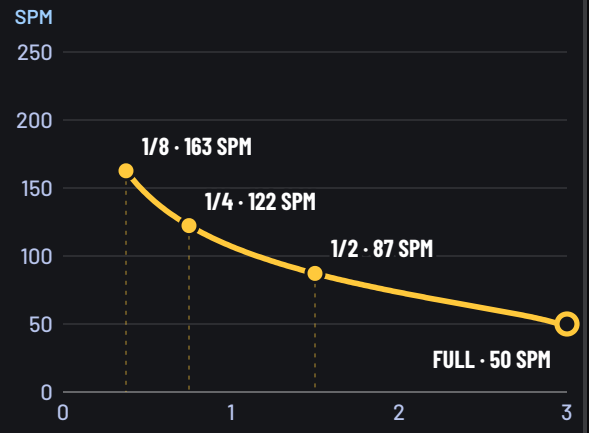
10S — 2.00 IN FULL STROKE



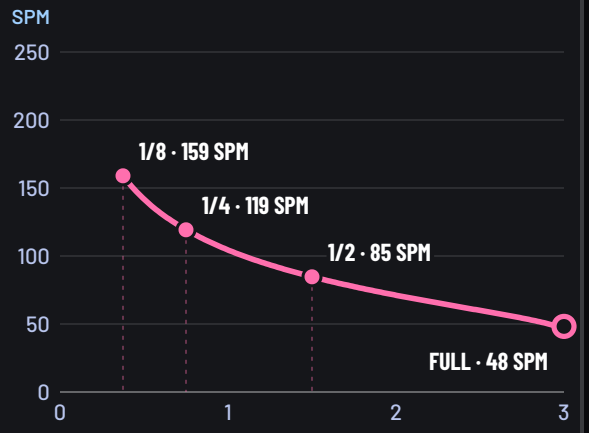
15S — 3.00 IN FULL STROKE



22S — 3.00 IN FULL STROKE



33S — 3.00 IN FULL STROKE



TYPICAL SPEEDS AT RATED MOTOR SPEED; ACTUAL SPEED DEPENDS ON THE DIE, FEED LENGTH AND DRIVE TUNING · EACH CHART HAS ITS OWN SCALE

PICK YOUR STROKE

SPEED BY STROKE

Strokes per minute for each Model S at the stroke length the job really uses. A dot marks the full stroke, one crank turn per stroke; every shorter stroke runs in pendulum mode.

BY FRACTION OF THE FULL STROKE

FRACTION	6S	8S	10S	15S	22S	33S
FULL STROKE	167 SPM 1.250 IN	111 SPM 1.500 IN	142 SPM 2.000 IN	75 SPM 3.000 IN	50 SPM 3.000 IN	48 SPM 3.000 IN
1/2 STROKE	217 SPM 0.625 IN	167 SPM 0.750 IN	195 SPM 1.000 IN	122 SPM 1.500 IN	87 SPM 1.500 IN	85 SPM 1.500 IN
1/4 STROKE	276 SPM 0.313 IN	221 SPM 0.375 IN	252 SPM 0.500 IN	167 SPM 0.750 IN	122 SPM 0.750 IN	119 SPM 0.750 IN
1/8 STROKE	332 SPM 0.156 IN	276 SPM 0.188 IN	308 SPM 0.250 IN	216 SPM 0.375 IN	163 SPM 0.375 IN	159 SPM 0.375 IN

BY STROKE LENGTH, SPM

STROKE USED	6S	8S	10S	15S	22S	33S
0.125 IN	349	307	361	298	237	233
0.25 IN	294	253	308	246	189	185
0.375 IN	261	221	275	216	163	159
0.5 IN	236	199	252	195	145	142
0.75 IN	200	167	219	167	122	119
1 IN	171	144	195	148	107	104
1.5 IN	–	111 ●	158	122	87	85
2 IN	–	–	142 ●	104	73	71
2.5 IN	–	–	–	88	62	60
3 IN	–	–	–	75 ●	50 ●	48 ●

TYPICAL SPEEDS AT RATED MOTOR SPEED, 100 MS TO REVERSE IN PENDULUM; ACTUAL SPEED DEPENDS ON THE DIE, FEED LENGTH AND DRIVE TUNING

AZIMUTH

PRESSES & AUTOMATION

WE DESIGN. WE BUILD. WE SUPPORT.

Need more than a press? We integrate the Model S with servo feeders, decoilers, guarding and tooling into one turnkey line, from one partner.

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