

SPRING COILING

EQUIPMENT SPECIFICATIONS

- AIM 100P
- AIM 100
- AIM 1000
- AIM 1500
- AIM 2000
- AIM 2500
- AIM 3000
- AIM 3500
- AIM 3625
- AIM 4000



AIM AUTOMATED
INDUSTRIAL
MOTION

5627 Airline Rd, Fruitport, MI 49415 1.800.933.0404 | 231.865.1800 | www.aimcoil.com

AIM 100P

Equipment Features

Max. Wire Size (in)	0.039
Min. Wire Size (in)	0.006
Cycle Rate	Up to 45 PPM
Coil Diameter Range	3 index to 1.00"
Shop Air	80 psi
Power	110 VAC, 24 VDC



- Control interface: pneumatic
- Dimensions (in): L30xW24xH60
- Gross Weight (lbs): 275

AIM 100

Equipment Features

Feed Speed (in/sec)	135
Max. Wire Size (in)	0.032
Min. Wire Size (in)	0.006
Feed Length	Unlimited
Coil Diameter Range	3 Index to 1.00"
Power (3 phase)	240 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L30xW24xH60
- Gross Weight (lbs): 1,700

LIGHT-GAGE COILERS 0.006" TO 0.135" WIRE DIAMETER | 240 VOLT

AIM 1000

Equipment Features

Feed Speed (in/sec)	100
Max. Wire Size (in)	0.080
Min. Wire Size (in)	0.018
Feed Length	Unlimited
Coil Diameter Range	3 Index to 1.75"
Power (3 phase)	240 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L36xW28xH60
- Gross Weight (lbs): 3,400

AIM 1500

Equipment Features

Feed Speed (in/sec)	85
Max. Wire Size (in)	0.135
Min. Wire Size (in)	0.035
Feed Length	Unlimited
Coil Diameter Range	3 Index to 2.50"
Power (3 phase)	240 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L60xW36xH72
- Gross Weight (lbs): 5,200

AIM 2000

Equipment Features

Feed Speed (in/sec)	85
Max. Wire Size (in)	0.180
Min. Wire Size (in)	0.047
Feed Length	Unlimited
Coil Diameter Range	3 Index to 3.00"
Power (3 phase)	480 Volt

- Control interface: Windows-based CNC
- Dimensions (in): L68xW40xH72
- Gross Weight (lbs): 6,700



AIM 2500

Equipment Features

Feed Speed (in/sec)	75
Max. Wire Size (in)	0.250
Min. Wire Size (in)	0.080
Feed Length	Unlimited
Coil Diameter Range	3 Index to 4.00"
Power (3 phase)	480 Volt

- Control interface: Windows-based CNC
- Dimensions (in): L84xW60xH72
- Gross Weight (lbs): 12,800



AIM 3000

Equipment Features

Feed Speed (in/sec)	60
Max. Wire Size (in)	0.375
Min. Wire Size (in)	0.125
Feed Length	Unlimited
Coil Diameter Range	3 Index to 6.00"
Power (3 phase)	480 Volt

- Control interface: Windows-based CNC
- Dimensions (in): L84xW60xH72
- Gross Weight (lbs): 18,500



MEDIUM-GAGE COILERS

0.047" TO 0.375" WIRE DIAMETER
480 VOLT

AIM 3500

Equipment Features

Feed Speed (in/sec)	60
Max. Wire Size (in)	0.500
Min. Wire Size (in)	0.156
Feed Length	Unlimited
Coil Diameter Range	3 Index to 8.00"
Power (3 phase)	480 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L109xW78xH94
- Gross Weight (lbs): 40,700

AIM 3625

Equipment Features

Feed Speed (in/sec)	60
Max. Wire Size (in)	0.625
Min. Wire Size (in)	0.188
Feed Length	Unlimited
Coil Diameter Range	3 Index to 8.00"
Power (3 phase)	480 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L109xW78xH94
- Gross Weight (lbs): 41,000

HEAVY-GAGE COILERS

0.156" TO 0.787" WIRE DIAMETER
480 VOLT

AIM 4000

Equipment Features

Feed Speed (in/sec)	60
Max. Wire Size (in)	0.787
Min. Wire Size (in)	0.250
Feed Length	Unlimited
Coil Diameter Range	3-5 Index to 10.00"
Power (3 phase)	480 Volt



- Control interface: Windows-based CNC
- Dimensions (in): L108xW96xH96
- Gross Weight (lbs): 78,000



USER-FRIENDLY MACHINE CONTROLS

- Windows-based software
- Industrial touchscreen
- Hand jog wheel
- Programmable I/O for interfacing with PLCs and auxiliary equipment



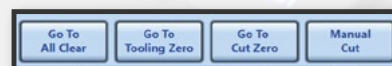
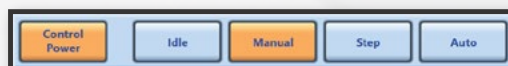
BUILT-IN PROGRAMMING TOOLS

- Machine and part home sequences
- On-the-fly tool adjustments
- Total parts, part countdown and lbs of material required
- English and Metric Options



General										
Offsets										
Program										
Gauge Adjust										
Run Data										
I/O										
Alarms (0)										
Total Feed Length 15 in in										
Feed	Pitch	Diameter	Torsion	Point	Cut	Wait(ms)	Accel(ms)	Speed	Option	Output
1 1.0000							50	100.0		front end closed coil
2 0.5000	0.0000	0.0200		0.0050			50	100.0		transition to open coil
3 12.0000	0.0000	0.0200		0.0050			50	100.0		open coil body
4 0.5000							50	100.0		transition to closed coil
5 1.0000							50	100.0		back end closed coil
6					40.0000		50	100.0		cutter in
							50	100.0		cutter out

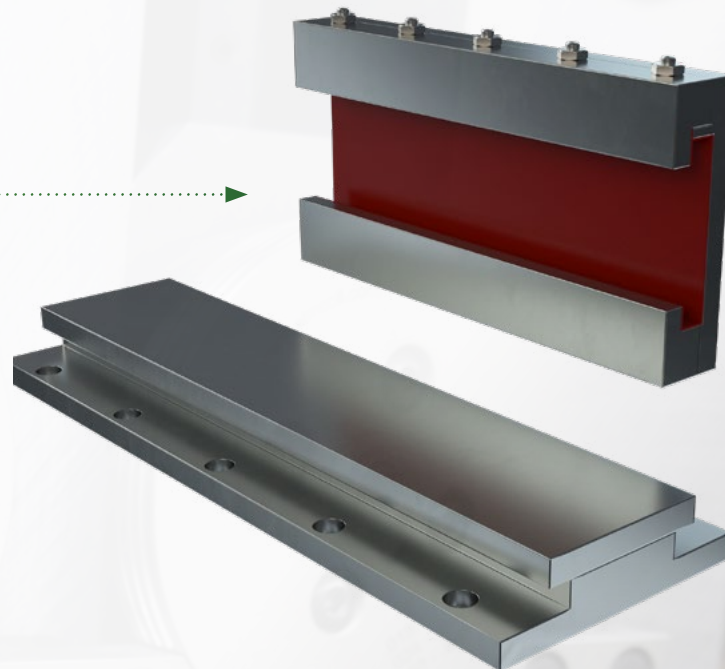
Positions			Velocity			Torque			Reset Zero All		
Feed	0.0 in	-	+	Reset Zero							
Pitch	0.0000 in	-	+	Reset Zero							
Diameter	0.0000 in	-	+	Reset Zero							
Torsion	0.0000 in	-	+	Reset Zero							
Point	0.0000 in	-	+	Reset Zero							
Cut	0.0000 deg	-	+	Reset Zero							





MECHANICAL COMPONENTS

- High precision **DuraBond Slides** on all axes
- Low inertia, high torque AC brushless servo motors on all axes
- In-line planetary gear reducers on feed and cutter axes
- Unique servo cut design provides maximum cutting force
- Precision linear actuators on all tooling axes
- Square tooling chucks for precise location
- Separate clamp on chuck and arbor
- True X-Y-Z linear motion
- Accepts industry standard tooling – prints available



PRODUCTION ADVANTAGES

- Speeds up to 60,000 parts/hour
 - Changeover times in less than 5 minutes
 - Robust and reliable
-
- **Turn-key systems and solutions are our specialty**
 - **Custom machine designs available**
 - **Privately owned and operated since 1985**



**ALL AIM COILING MACHINES
ARE DESIGNED, BUILT
AND SERVICED
IN THE USA**



CUSTOM COILING SOLUTIONS

Automated Industrial Motion specializes in custom coiling systems built around our state-of-the-art CNC coiling machines

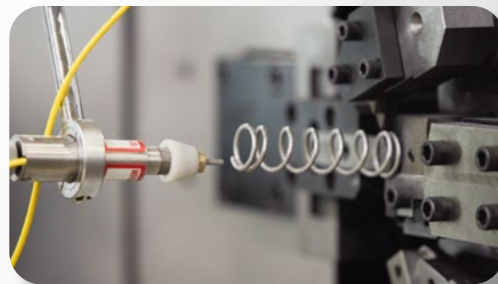
COIL PARAMETERS

- **Coil type:** circular, porcupine, ring, constant force
- **Wire diameter:** 0.006" to 0.787"
- **Wire shape:** round, rectangular, flat (ribbon)

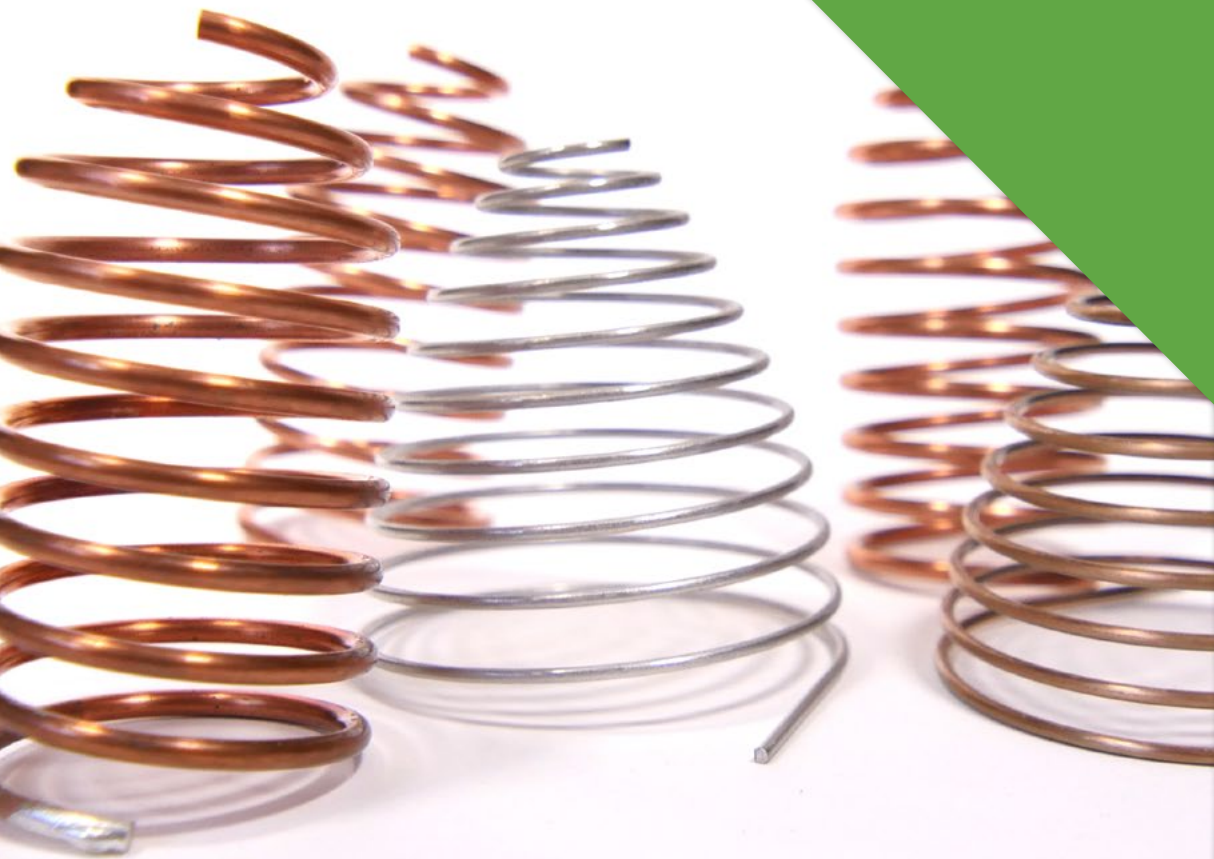


AUTOMATION ADD-ONS

- **AIM 2100 powered wire payoff**, compatible with any wire packaging
- Laser marking stations
- End processing, including looping and stamping
- Stress relief, including in-line ovens and resistive heat treatment
- Cooling conveyors
- Quality testing, including length and spring force
- Sorting on custom parameters
- Coil insertion, including rotary dials and pick-and-place robotics



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