WIRE HANDLING EQUIPMENT

P/A INDUSTRIES – A BRIEF HISTORY

For well over half a century, P/A has been providing equipment and application solutions to the Metal Stamping, Wire Forming and Fabrication Industries. A proven leader in innovation and quality, our commitment is to our customers. P/A's Sales and Design Engineers have years of hands-on experience with Wire technology and work closely with our Service team to continuously improve our products.

P/A is unique within the Wire Industry. No other manufacturer offers a complete line of product for Wire Handling. We are able to provide Feeds – both Pneumatic, and Servo Driven, Payoff Reels, Straighteners, Cutters/Shears, Rewinders, as well as complete Cut-To-Length machines. Whether used individually in your process or combined into a custom production line, P/A has the components, capability and support to meet your wire needs.

Management & Sales Team

Executive

Jerome E. Finn
Chairman
Since 1975

Edward Morris
President
Since 1999

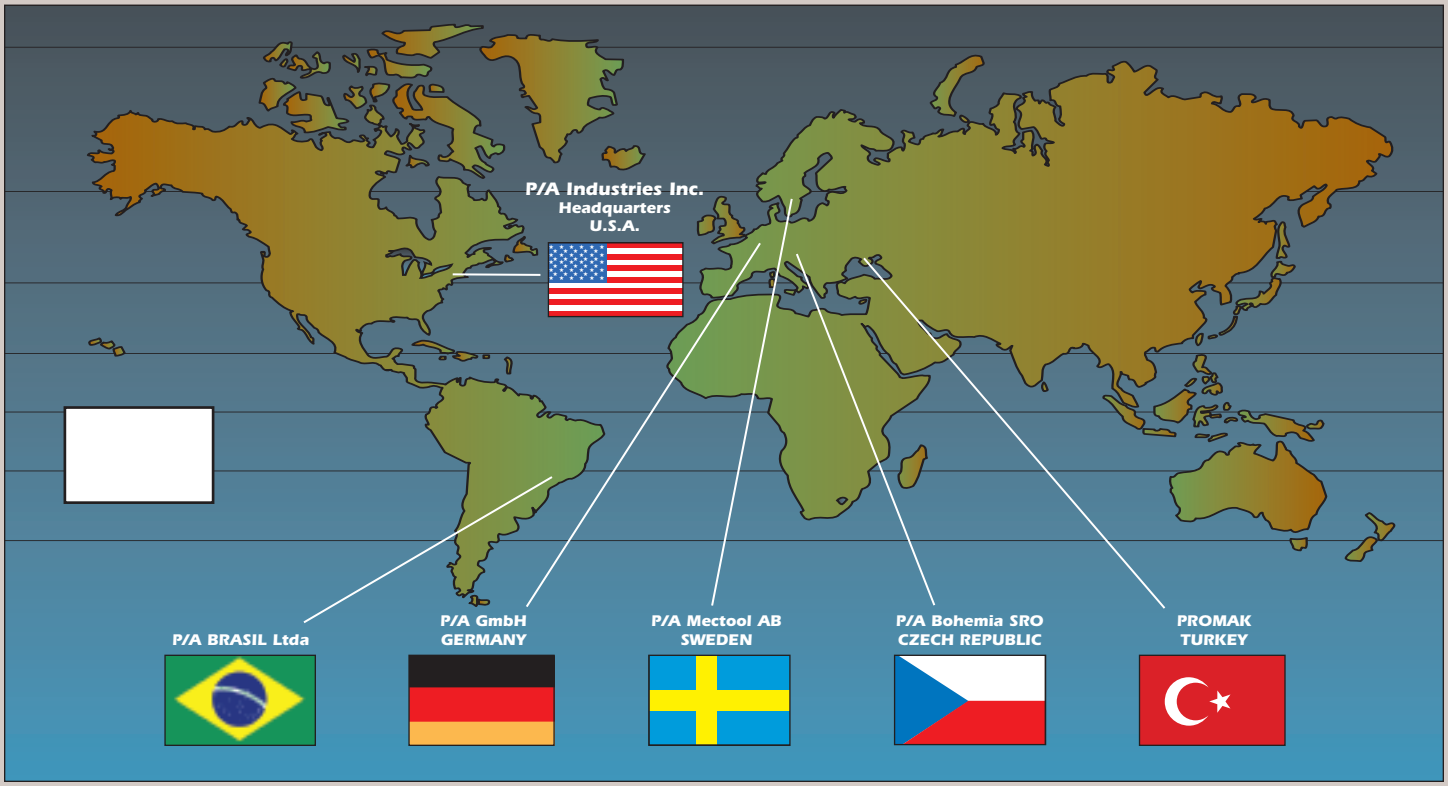
Regional Sales

Don Frank
Regional Sales Manager
Since 1996

Tim Qualls
Regional Sales Manager
Since 2002

Mark Beiner
Regional Sales Manager
Since 2006

P/A International

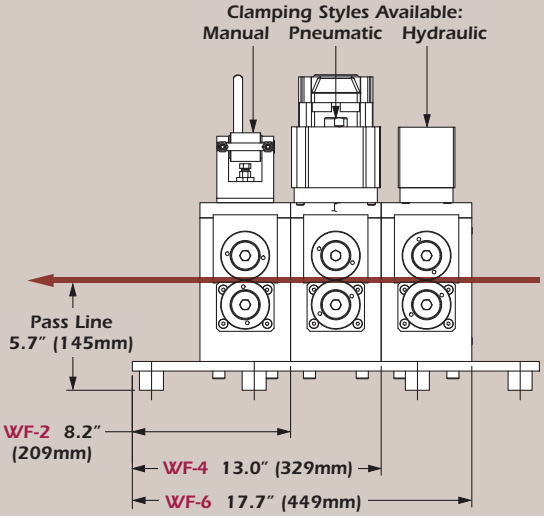


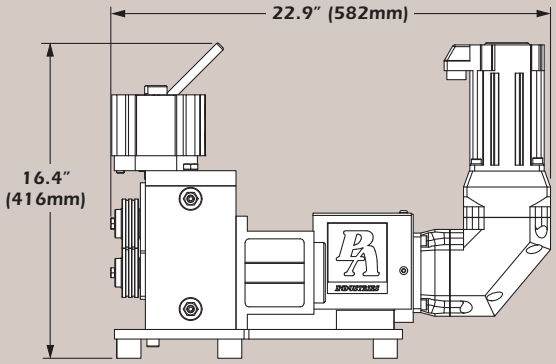
CONTENTS

TANGENT SERVO WIRE FEED


WF-4

- Precision and Speed of Servo Technology
- The Tangent comes with a choice of 1, 2, or 3 Roller Modules
- Add a 2nd and 3rd module when more gripping/driving force is required – more contact points allow more force to be exerted without damaging the wire
- Rollers are easily replaced or changed for different wire shapes and sizes
- Two different grooves can be provided on each roll
- Rolls can be flipped to the opposite orientation and maintain the same centerline
- Standard Eccentric Cam exerts roll clamp pressure – Optional Pneumatic or Hydraulic Cylinders available
- Digital Servo Drive Manages Roll Motion via Encoder Based Feedback System
- Closed Loop Feed Length Controller automatically generates the velocity for Accurate Feeding
- 200 Job Storage and Micro Adjust On-The-Fly Adjustment
- Inch/Metric Programmability
- Feed Advisor for Acceleration
- Options Include: Integral Programmable Limit Switch, Sequential Feeding, Servo Feed Interface (SFI)





SPECIFICATIONS – *USA*

Model	Wire Diameter (In.)	Pulling Power (Lb.)	Roll Diameter (In.)	Input Power V / Phase / Hz / A
WF-2	.040 — .196	330	2.56	230 / 1 / 60 / 18
WF-4	.040 — .275	660	2.56	230 / 1 / 60 / 18
WF-6	.040 — .275	990	2.56	230 / 1 / 60 / 28

SPECIFICATIONS – METRIC

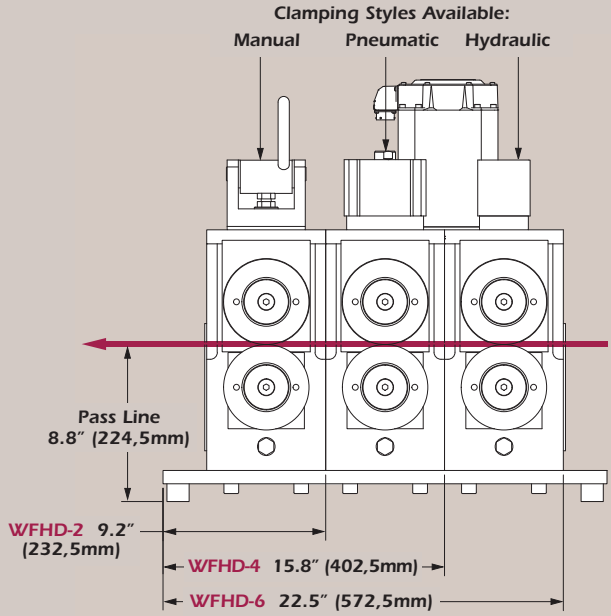
Model	Wire Diameter (mm)	Pulling Power (N)	Roll Diameter (mm)	Input Power V / Phase / Hz / A
WF-2	1,0 — 5,0	1470	65,0	230 / 1 / 50 / 18
WF-4	1,0 — 7,0	2940	65,0	230 / 1 / 50 / 18
WF-6	1,0 — 7,0	4405	65,0	230 / 1 / 50 / 28

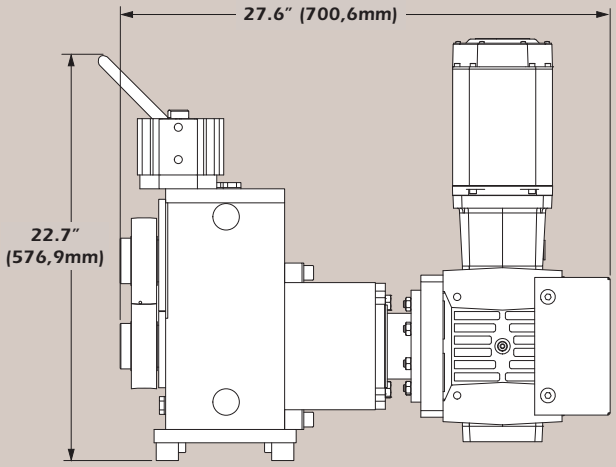
Consult with P/A Sales Personnel for exact sizing for the application.

HEAVY DUTY TANGENT SERVO WIRE FEED

WFHD-4

- Perfectly suited for larger applications
- The HD Tangent comes with a choice of 1, 2, or 3 Roller Modules
- Larger Roll Diameter handles up to .750" (19mm) wire
- Rollers are easily replaced or changed for different wire shapes and sizes
- Two different grooves can be provided on each roll
- Rolls can be flipped to the opposite orientation and maintain the same centerline
- Standard Eccentric Cam exerts roll clamp pressure – Optional Pneumatic or Hydraulic Cylinders available
- Digital Servo Drive Manages Roll Motion via Encoder Based Feedback System
- Closed Loop Feed Length Controller automatically generates the velocity for Accurate Feeding
- 200 Job Storage and Micro Adjust On-The-Fly Adjustment
- Inch/Metric Programmability Feed Advisor for Acceleration
- Options Include: Integral Programmable Limit Switch, Sequential Feeding, Servo Feed Interface (SFI)





SPECIFICATIONS – USA

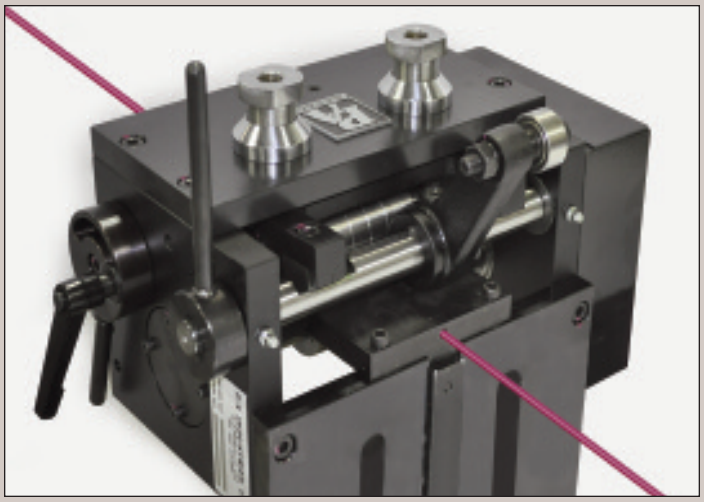
Model	Wire Diameter (In.)	Pulling Power (Lb.)	Roll Diameter (In.)	Input Power V / Phase / Hz / A
WFHD-2	.040 — .375	660	4.72	230 / 1 / 60 / 28
WFHD-4	.040 — .500	1320	4.72	230 / 1 / 60 / 28
WFHD-6	.040 — .750	1980	4.72	460 / 3 / 60 / 14

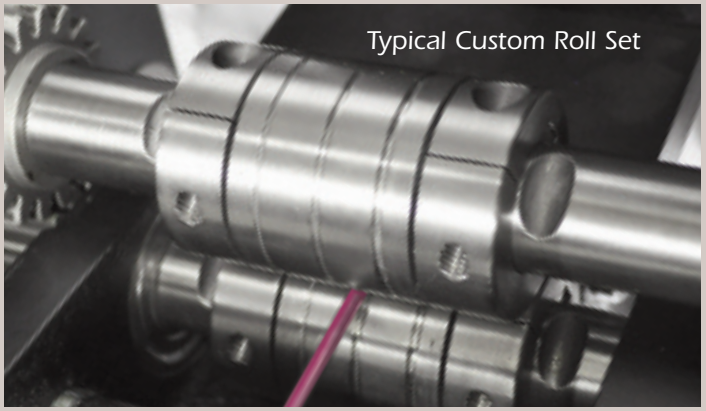
SPECIFICATIONS – METRIC

Model	Wire Diameter (mm)	Pulling Power (N)	Roll Diameter (mm)	Input Power V / Phase / Hz / A
WFHD-2	1,0 — 9,4	2940	120,0	230 / 1 / 60 / 28
WFHD-4	1,0 — 12,7	5875	120,0	230 / 1 / 60 / 28
WFHD-6	1,0 — 19,0	8810	120,0	400 / 3 / 50 / 14

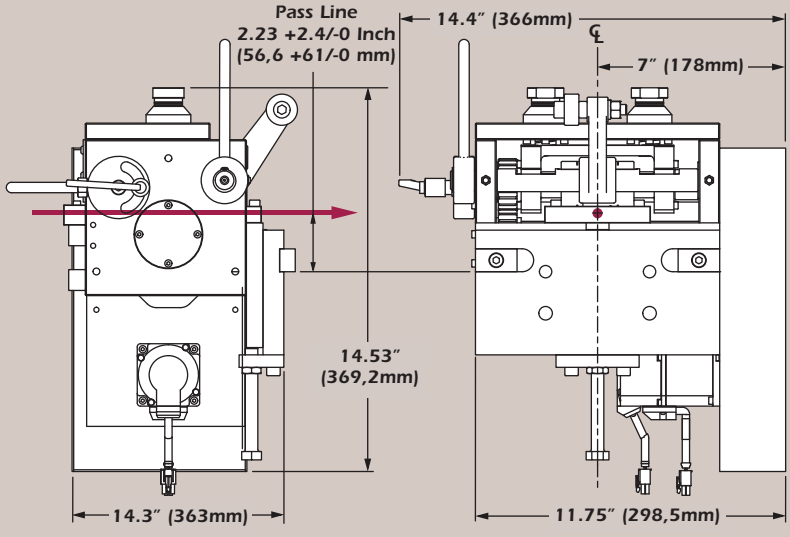
Consult with P/A Sales Personnel for exact sizing for the application.

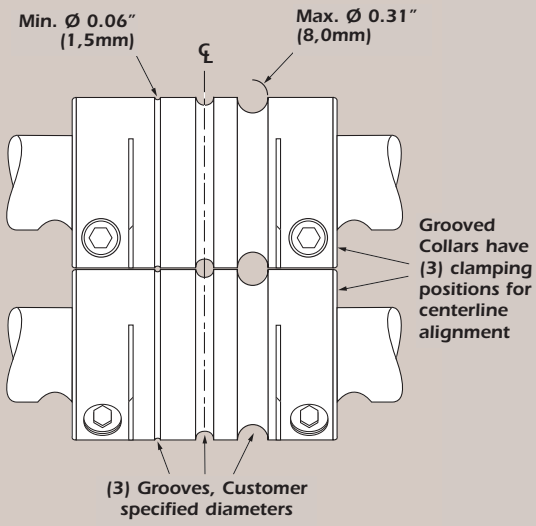
COLLARED SERVO WIRE FEED





- Unique Design can feed multiple diameters (up to 3) maintaining the same centerline because of Adjustable Sliding Collar
- Rugged Cast Iron Frame to Ensure Roll Parallelism
- Feed Mounting Bracket for up to 2.4" (61mm) of pass line height adjustment
- Roll Release Lever for Wire Insertion
- Hand Knobs w/ Vernier Scale adjust roll pressure on wire
- High performance digital Servo Drive PLC and Motor
- Inch/Metric Multi-Language Selectability
- Free Standing and Portable Control Stand
- Batch Counter
- Jog to length w/ hand held Remote Jog Pendant or on the backlit, LCD touchscreen display





SPECIFICATIONS – USA

Model	Feed Roll Dia. In.	Maximum Wire Diameter In.	Pulling Power Peak Lbs.	Pulling Power Cont. Lbs.	AC Power Input V/Ph/Hz	kW
WFC-2	1.77	0.125	113	39	115/1/60	0.4

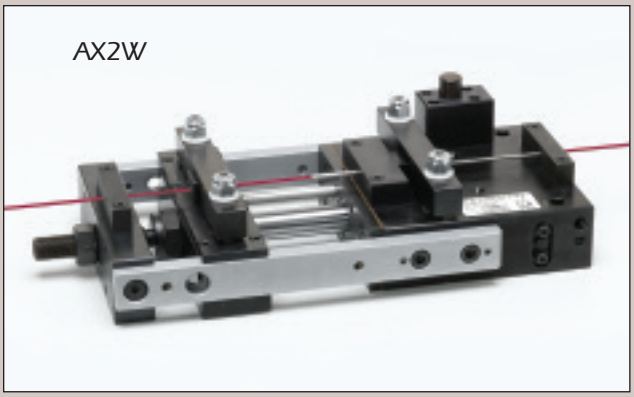
* Optional Max. Roll Opening .098 inch

SPECIFICATIONS – METRIC

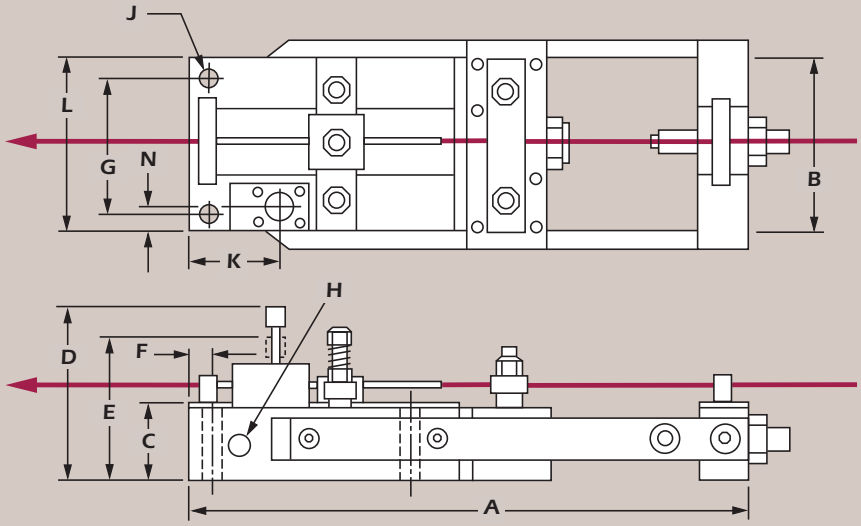
Model	Feed Roll Dia. mm	Maximum Wire Diameter mm	Pulling Power Peak N	Pulling Power Cont. N	AC Power Input V/Ph/Hz	kW
WFC-2	45	3,2	504	172	230/1/50	0,4

* Optional Max. Roll Opening 2,5 mm

PNEUMATIC WIRE FEED



- Stainless Steel Telescoping Tubes with specially sized Guide Bushings enable the Classic P/A Air Feed to Smoothly and Accurately move Wire to the next process
- Cup Wiper Seals instead of "O" Rings on the Main Cylinder reduce friction and heat which increases cycle life and performance
- Extremely Easy to Install – Two (or Four) mounting bolts and a single air line connection
- Compact, Clean Design enable the Wire Feed to be mounted on the Die Set
- Feed Body is Constructed of Hard-Coat Anodized, Aircraft Aluminum
- Standard Mechanical Actuation – Remote Pneumatic or Electric Actuation available
- Free Repair and Service Certificate
- Two Year Warranty



	Available Wire Sizes
All AX Models	.014 – .023
	.024 – .035
	.036 – .059
All CX Models	.036 – .059
	.060 – .090
	.085 – .132

	Available Wire Sizes
All AX Models	0,35 – 0,59
	0,60 – 0,89
	0,90 – 1,50
All CX Models	0,90 – 1,50
	1,50 – 2,09
	2,15 – 3,35

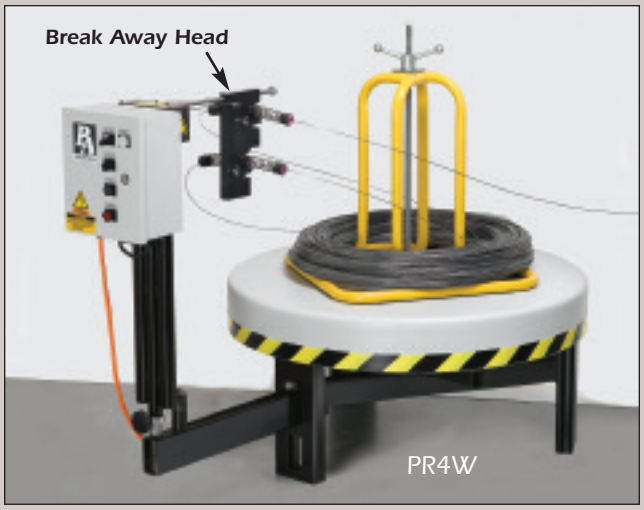
SPECIFICATIONS – USA

Model	A	B	C	D	E	F	G	H	J	K	L	N
AX2W	9.38	3.62	1.29	3.55	2.84	.83	2.62	1/8 NPT	.33	2.17	3.46	.50
AX4W	13.38	3.62	1.29	3.55	2.84	.83	2.62	1/8 NPT	.33	2.17	3.46	.50
AX6W	17.38	3.62	1.29	3.55	2.84	.83	2.62	1/8 NPT	.33	2.17	3.46	.50
CX3W	12.25	6.50	1.79	4.61	3.64	.83	4.5	1/4 NPT	.39	2.33	5.50	.56
CX6W	18.25	6.50	1.79	4.61	3.64	.83	4.5	1/4 NPT	.39	2.33	5.50	.56
CX9W	24.25	6.50	1.79	4.61	3.64	.83	4.5	1/4 NPT	.39	2.33	5.50	.56
CX12W	30.25	6.50	1.79	4.61	3.64	.83	4.5	1/4 NPT	.39	2.33	5.50	.56

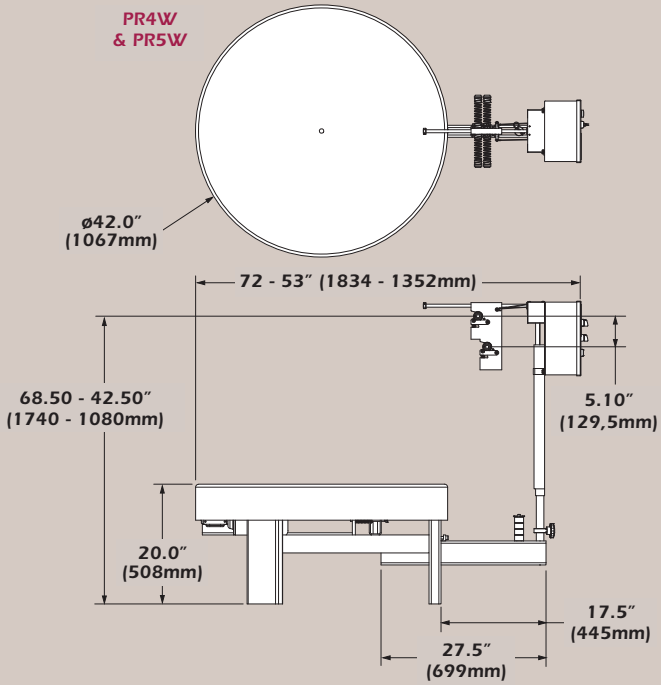
SPECIFICATIONS – METRIC

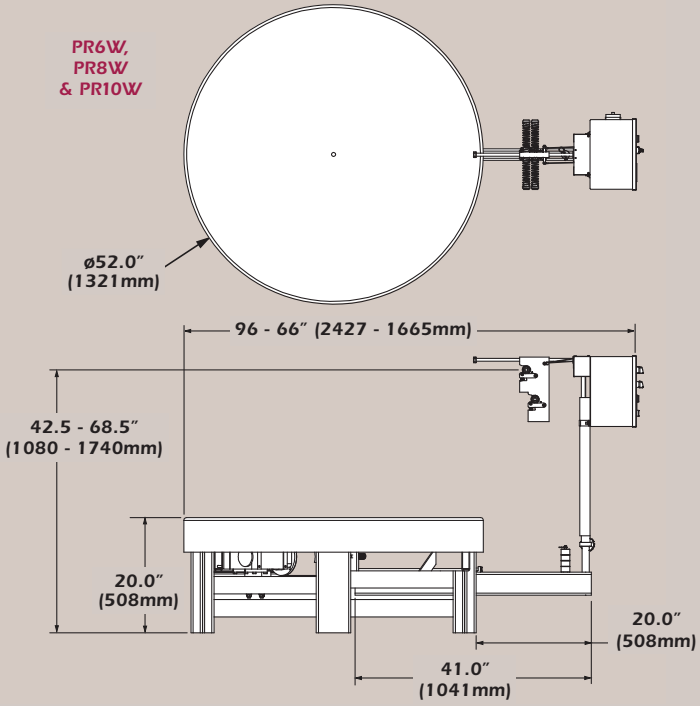
Model	A	B	C	D	E	F	G	H	J	K	L	N
AX2W	238	92	33	90	72	21	66,5	1/8 NPT	8,4	55	88	13
AX4W	339	92	33	90	72	21	66,5	1/8 NPT	8,4	55	88	13
AX6W	441	92	33	90	72	21	66,5	1/8 NPT	8,4	55	88	13
CX3W	311	165	45,5	117	92	21	114	1/4 NPT	10	59	140	14
CX6W	464	165	45,5	117	92	21	114	1/4 NPT	10	59	140	14
CX9W	616	165	45,5	117	92	21	114	1/4 NPT	10	59	140	14
CX12W	769	165	45,5	117	92	21	114	1/4 NPT	10	59	140	14

WIRE DECOILER



- Pays Off Wire up to .156" (4,0mm)
- Simple, Easy Set-Up – Load the wire spool onto the pan and secure with the Hold Down Rod
- Thread your material through the (2) ceramic bushings on the Loop Control to create extra material storage - additional Bushings available to increase material storage
- Smooth, consistent operation through the Variable Speed AC Inverter allows for Precise Control of Acceleration/Deceleration
- Tight Loop Emergency Stop is Standard
- Optional "Break Away" Head provides additional protection in a tight loop scenario





SPECIFICATIONS – *USA*

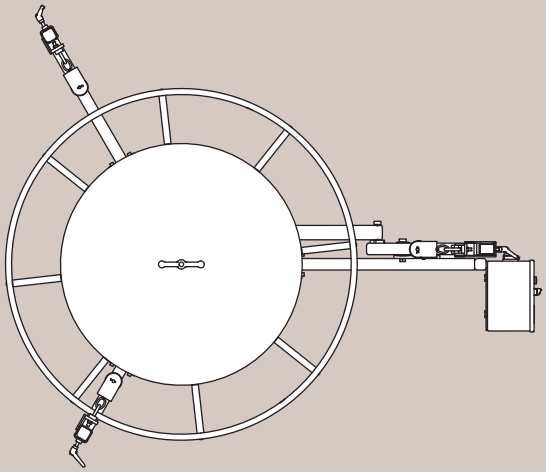
Model	Max. Pallet Weight (Lb.)	Wire Diameter (In.)	Table Speed Range (RPM)	AC Motor (HP)	Input Power VAC / Phase / Hz
PR4W	4000	.020 – .156	0 – 27	.75	120 / 1 / 60
PR5W	5500	.020 – .156	0 – 27	1.0	230 / 1 / 60
PR6W	6000	.020 – .156	0 – 22	1.5	230 / 1 / 60
PR8W	8000	.020 – .156	0 – 18	2.0	230 / 1 / 60
PR10W	10000	.020 – .156	0 – 18	3.0	230 / 1 / 60

SPECIFICATIONS – *METRIC*

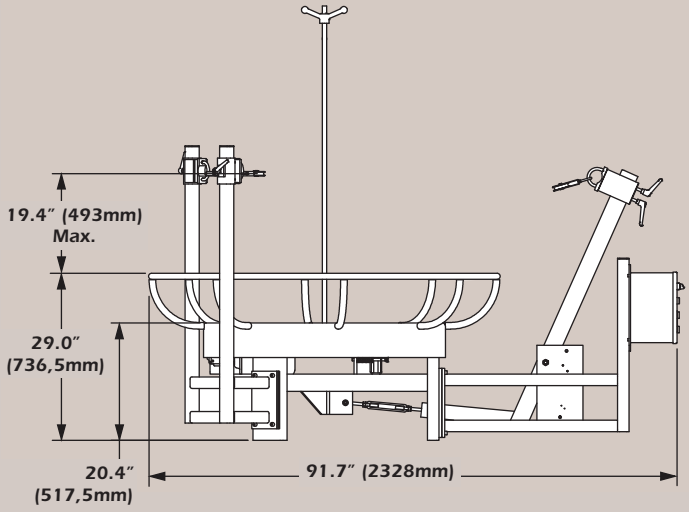
Model	Max. Pallet Weight (kg)	Wire Diameter (mm)	Table Speed Range (RPM)	AC Motor (kW)	Input Power VAC / Phase / Hz
PR4W	1820	0,5 – 4,0	0 – 27	0,56	230 / 1 / 50
PR5W	2500	0,5 – 4,0	0 – 27	0,75	230 / 1 / 50
PR6W	2730	0,5 – 4,0	0 – 22	1,12	230 / 1 / 50
PR8W	3640	0,5 – 4,0	0 – 18	1,49	230 / 1 / 50
PR10W	4545	0,5 – 4,0	0 – 18	2,24	230 / 1 / 50

* Higher RPM available - consult factory.

HEAVY DUTY WIRE DECOILER



- Pays Off Wire up to .375" (9,5mm)
- Same Easy Set-up as the Standard Wire Palletizer
- 3 Arm Design controls coilset for larger diameter wire
- Spring Loaded Dancer Arm regulates speed through the variable speed AC Inverter for Precise Control of Acceleration/Deceleration
- Tight Loop Emergency Stop is Standard



PR4WHD

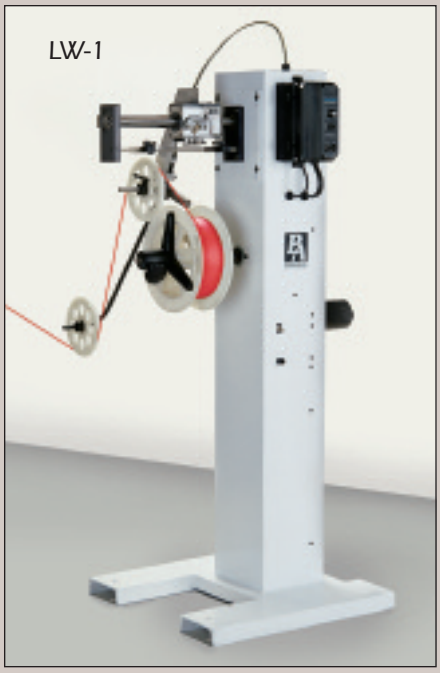
SPECIFICATIONS – USA

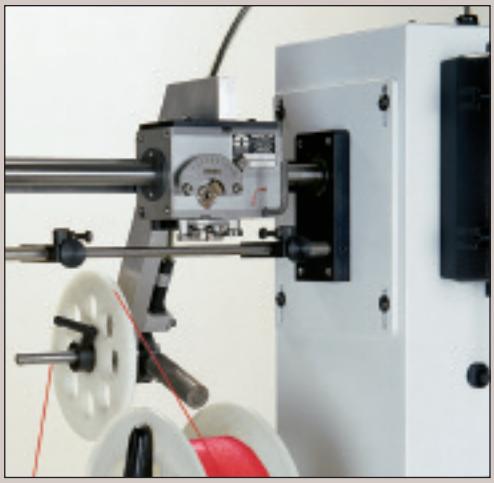
Model	Max. Pallet Weight (Lb.)	Wire Diameter (In.)	Table Speed Range (RPM)	AC Motor (HP)	Input Power VAC / Phase / Hz
PR4WHD	4000	.125 – .375	0 – 27	.75	120 / 1 / 60
PR5WHD	5500	.125 – .375	0 – 27	1.0	230 / 1 / 60
PR6WHD	6000	.125 – .375	0 – 22	1.5	230 / 1 / 60
PR8WHD	8000	.125 – .375	0 – 18	2.0	230 / 1 / 60
PR10WHD	10000	.125 – .375	0 – 18	3.0	230 / 1 / 60

SPECIFICATIONS – METRIC

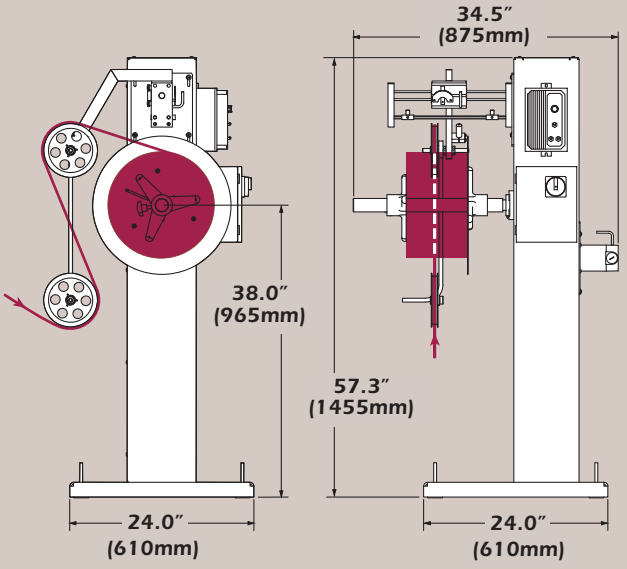
Model	Max. Pallet Weight (kg)	Wire Diameter (mm)	Table Speed Range (RPM)	AC Motor (kW)	Input Power VAC / Phase / Hz
PR4WHD	1820	3,2 – 9,5	0 – 27	0,56	230 / 1 / 50
PR5WHD	2500	3,2 – 9,5	0 – 27	0,75	230 / 1 / 50
PR6WHD	2730	3,2 – 9,5	0 – 22	1,12	230 / 1 / 50
PR8WHD	3640	3,2 – 9,5	0 – 18	1,49	230 / 1 / 50
PR10WHD	4545	3,2 – 9,5	0 – 18	2,24	230 / 1 / 50

TRAVERSE LAYER WINDER

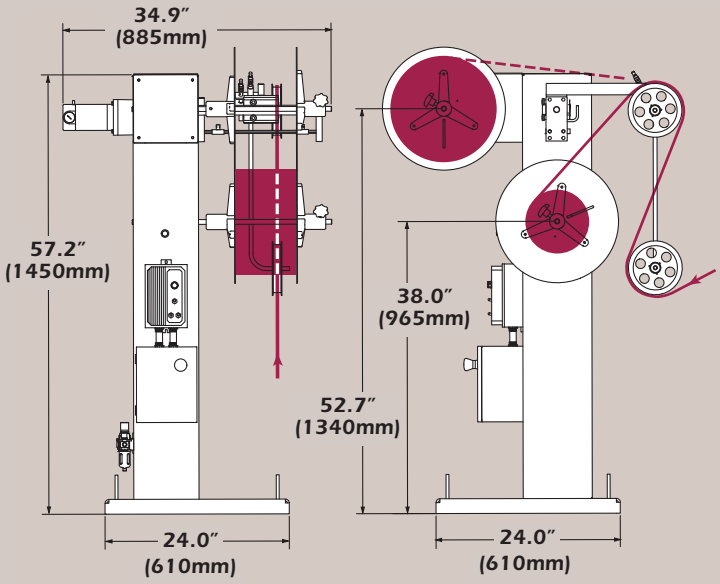




- The LW Semi-Manual Layer Winder winds wire or strips in a Traversing, Side-to-Side motion
- Preset for a Winding Range and the machine will fill each new reel until it is stopped by the operator, or a tight loop condition
- The Dancer Arm/Proximity sensor reacts to the material tension to change or stop the winding process
- Ergonomic Design places the spool and controls at a comfortable height, reducing operator fatigue
- Simple and easy to operate



LW-1



LW-2

SPECIFICATIONS – *USA*

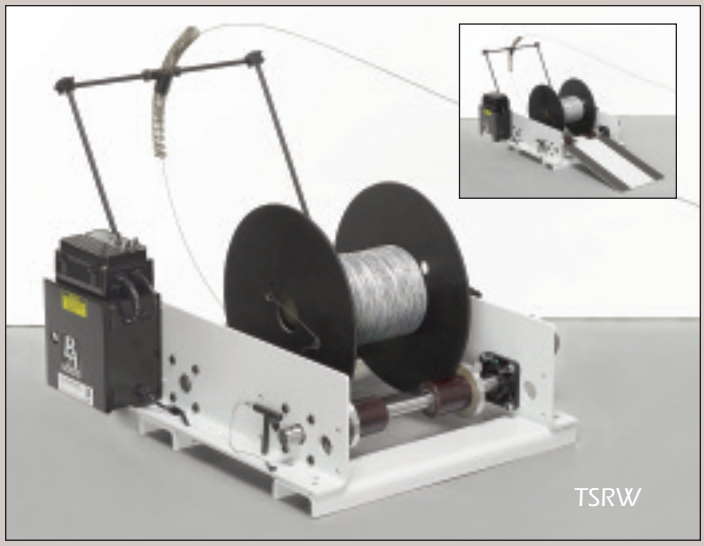
Model	Spool Dia. (In.)	Max. Spool Width (In.)	Max. Spool Weight (Lb.)	Reel Shaft Dia. (In.)	Speed Range (RPM)	Pitch Adjust. (In.)	Input Power VAC / Phase / Hz
LW-1 LW-2	15, 18, 24	8	75	.75	0 – 50	0 – .98	120 / 1 / 60

SPECIFICATIONS – METRIC

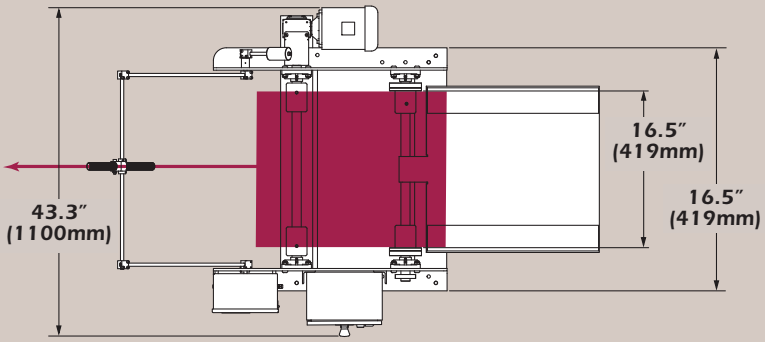
Model	Spool Dia. (mm)	Max. Spool Width (mm)	Max. Spool Weight (kg)	Reel Shaft Dia. (mm)	Speed Range (RPM)	Pitch Adjust. (mm)	Input Power VAC / Phase / Hz
LW-1 LW-2	380, 450, 610	200	34	19	0 – 50	0 – 25	230 / 1 / 50

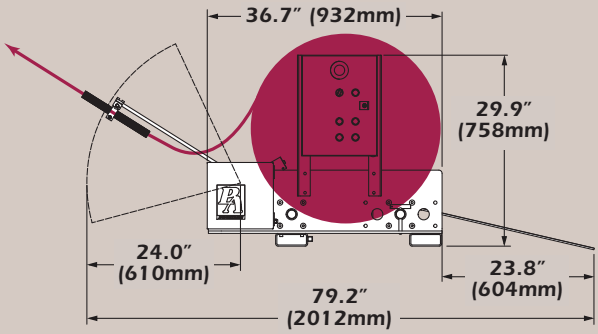
Custom sizes available.

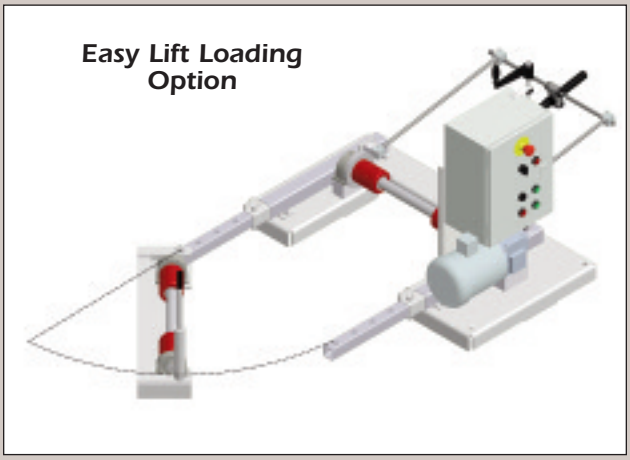
WIRE TRAVERSE SPOOL REEL



- Designed to Payoff Traverse Wound Wire or Strip delivered on spools
- Adjustable for a variety of spools sizes
- Proportional Drive for smooth efficient payoff
- Lightweight Dancer Arm with Wire Guide automatically adjusts the spool rim speed
- Low Profile Design allows for Easy Loading and Portability
- Loop Over or Under Dancer Arm Configuration
- Loading Ramp Included
- Easy Lift Option available







SPECIFICATIONS – USA

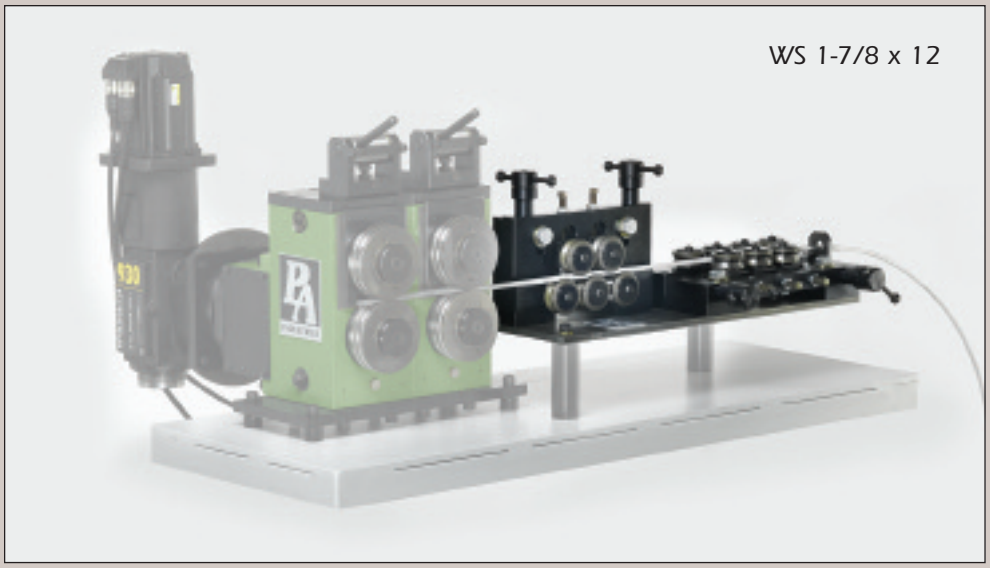
Model	Max. Spool Weight (Lb.)	Spool Width Range (In.)	Spool Rim OD Range (In.)	Max. Spool RPM @ (Spool Ø)	AC Drive Motor (HP)	Input Power VAC / Phase / Hz
TSRW	3000	6 — 17	12 - 40	46 (12 Inch) 14 (40 Inch)	3/4	110 / 1 / 60

SPECIFICATIONS – METRIC

Model	Max. Spool Weight (kg)	Spool Width Range (mm)	Spool Rim OD Range (mm)	Max. Spool RPM @ (Spool Ø)	AC Drive Motor (kW)	Input Power VAC / Phase / Hz
TSRW	1360	150 — 430	300 - 1000	46 (300mm) 14 (1000mm)	0,56	230 / 1 / 50

* Consult Factory for Sensor Options / Loop Control / Custom Widths available.

STANDARD WIRE STRAIGHTENER



- Rugged Construction – Originally Designed for use in Wire Mills
- This Dual Plane Wire Straightener reduces the amount of pulling power required
- Shielded Roller Bearings have "V" Grooves ground into the Hardened Outer Races
- Each plane of the "V" Grooves removes the natural curve of the material as the wire is drawn through
- All Rolls are Permanently Lubricated
- Spring-loaded Feature Compensates for Wire Irregularities
- Rolls are Easily Adjusted by a Set Screws and Locknuts
- Adjustable roller on Precision Dove Tail Slides
- "T" Handle Clamp Screws open and close the Straightening Rolls for Quick Set-Up and Changeover from one coil to the next
- Available in either Left-To-Right, or Right-To-Left Direction
- Special Shaped Rolls are Available as an Option

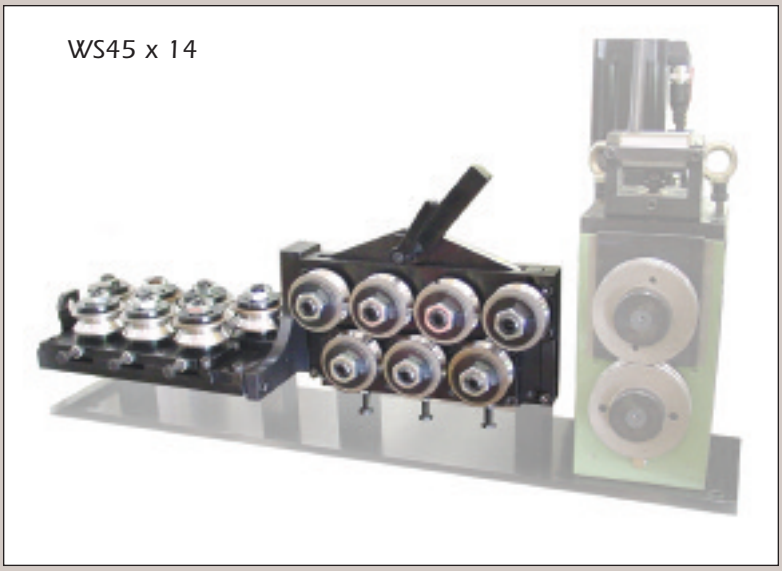
SPECIFICATIONS – *USA*

Model	Wire Capacity (In.)	Number of Horizontal Rolls	Number of Vertical Rolls	Roll Diameter (In.)	Width (In.)	Length (In.)	Height (In.)	Feed Line (In.)
WS 3/8 x 24	.003 — .015	14	10	.375	3	11.25	5.00	1.50
WS 1/2 x 24	.015 — .032	14	10	.500	3	12.62	5.12	1.50
WS 1/2 x 16	.015 — .032	8	8	.500	3	10.12	5.12	1.50
WS 3/4 x 14	.030 — .062	9	5	.750	4	10.75	5.88	1.53
WS 1-1/4 x 14	.062 — .125	9	5	1.250	8	21.25	10.38	2.56
WS 1-7/8 x 12	.125 — .250	7	5	1.850	8	23.00	9.75	3.19
WS 2-1/2 x 12	.250 — .375	7	5	2.500	10	28.00	8.25	3.62
WS 3-1/4 x 10	.375 — .500	5	5	3.250	10.5	31.00	12.00	4.25

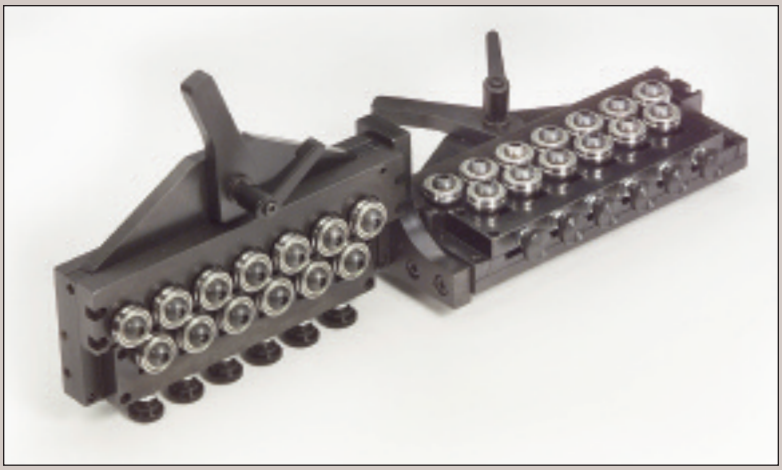
SPECIFICATIONS – *METRIC*

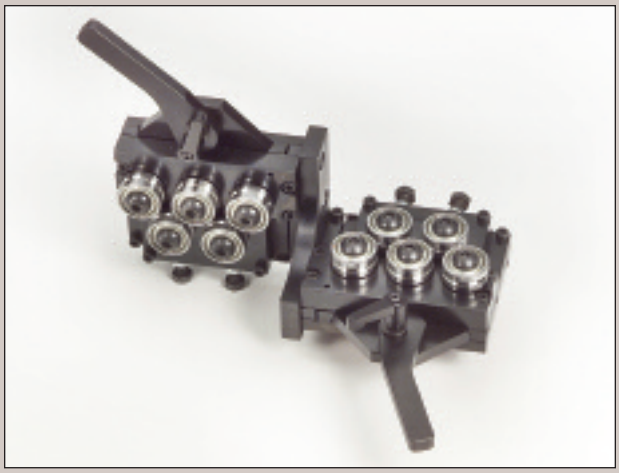
Model	Wire Capacity (mm)	Number of Horizontal Rolls	Number of Vertical Rolls	Roll Diameter (mm)	Width (mm)	Length (mm)	Height (mm)	Feed Line (mm)
WS 3/8 x 24	0,08 — 0,38	14	10	9,5	75	286	127	38
WS 1/2 x 24	0,38 — 0,81	14	10	12,7	75	321	130	38
WS 1/2 x 16	0,38 — 0,81	8	8	12,7	75	257	130	38
WS 3/4 x 14	0,76 — 1,57	9	5	19,0	100	273	149	39
WS 1-1/4 x 14	1,57 — 3,18	9	5	32,0	200	540	264	65
WS 1-7/8 x 12	3,18 — 6,35	7	5	47,0	200	584	248	81
WS 2-1/2 x 12	6,35 — 9,52	7	5	62,0	250	711	223	92
WS 3-1/4 x 10	9,52 — 12,70	5	5	82,5	265	793	304	109

MODULAR WIRE STRAIGHTENER



- Identical Planes that are Completely Universal for Different Straightening Configurations
- Shielded Roller Bearings have "V" Grooves ground into the Hardened Outer Races
- Each plane of the "V" Grooves removes the natural curve of the material as the wire is drawn through
- All Rolls are Permanently Lubricated
- Spring-loaded Feature Compensates for Wire Irregularities
- Cam Release feature allows for Quick Set-Up and Changeover from one coil to the next
- Special Shaped Rolls are Available as an Option
- Adjustable roller on Precision Dove Tail Slides





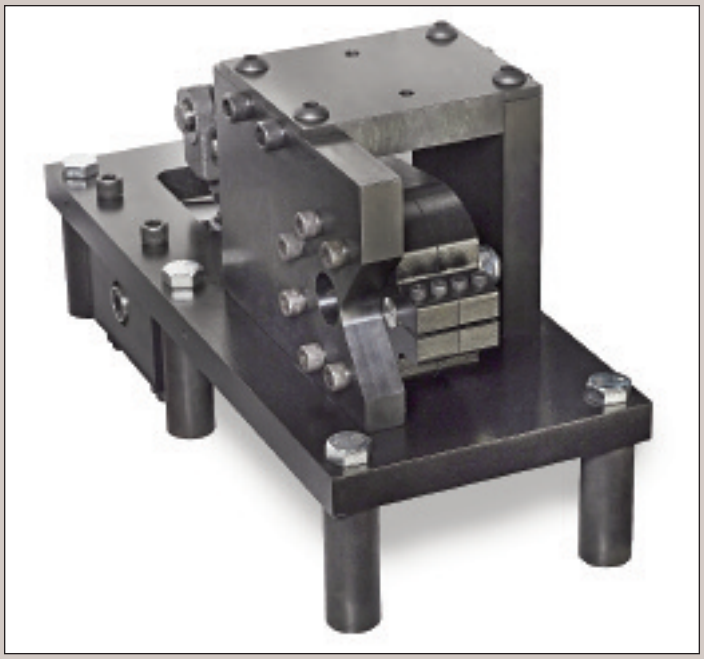
SPECIFICATIONS – USA

Model	Wire Capacity (In.)	Number of Horizontal Rolls	Number of Vertical Rolls	Roll Diameter (In.)	Length (In.)	Feed Line (In.)
WS13 x 22	0 — .020	11	11	.512	8.74	1.26
WS16 x 18	.020 — .031	9	9	.630	10.08	1.26
WS22 x 14	.031 — .059	7	7	.866	10.32	1.46
WS30 x 14	.059 — .118	7	7	1.181	12.91	1.69
WS40 x 14	.118 — .197	7	7	1.575	16.22	1.93
WS45 x 14	.197 — .276	7	7	1.772	22.48	2.05
WS52 x 14	.276 — .354	7	7	2.047	22.48	2.05
WS80 x 10	.315 — .591	5	5	3.150	22.17	2.91

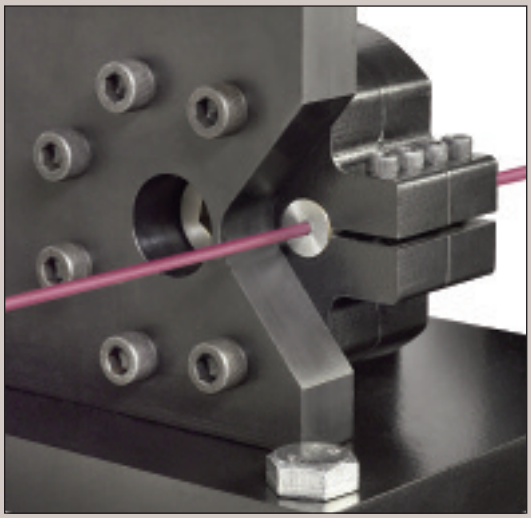
SPECIFICATIONS – METRIC

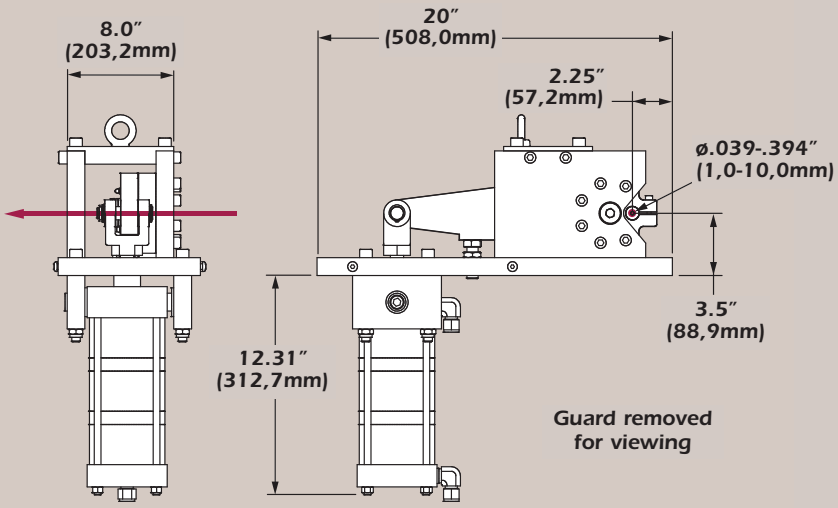
Model	Wire Capacity (mm)	Number of Horizontal Rolls	Number of Vertical Rolls	Roll Diameter (mm)	Length (mm)	Feed Line (mm)
WS13 x 22	0 — 0,5	11	11	13	222	32
WS16 x 18	0,5 — 0,8	9	9	16	256	32
WS22 x 14	0,8 — 1,5	7	7	22	262	37
WS30 x 14	1,5 — 3,0	7	7	30	328	43
WS40 x 14	3,0 — 5,0	7	7	40	412	49
WS45 x 14	5,0 — 7,0	7	7	45	571	52
WS52 x 14	7,0 — 9,0	7	7	52	571	52
WS80 x 10	8,0 — 15,0	5	5	80	563	74

WIRE SHEAR



- Changeable Insert for different Wire diameters or Profiles
  provides Wire Guidance and Shearing
- Actuated Pneumatically or Hydraulically for your application
- Rugged Steel Plate Construction
- Can be integrated into a complete Cut-To-Length line (see next page)
- Powerful Pneumatic Cylinder or Hydraulic Cylinder provides Force for Shearing
- Integral Stroke Dampeners
- Standard 4 way Solenoid Valve for signaling
- Lever Arm Construction/Design magnifies force at the shearing point by a ratio of 9.6:1
- Electric Solenoid Valve for Actuation
  (24 VDC, 10 VAC, 220 VAC)





Pneumatic Shear

SPECIFICATIONS – USA

Model	Max. Wire Diameter (In.)	Max Shear Force at 80 PSI (Lbs.)	Cycles per Minute
PWS-10	.393	27,600	150

SPECIFICATIONS – METRIC

Model	Max. Wire Diameter (mm)	Max Shear Force at 6.8bar PSI (kN)	Cycles per Minute
PWS-10	10,0	122	150

Hydraulic Shear

SPECIFICATIONS – USA

Model	Max. Wire Diameter (In.)	Max Shear Force at 1500 PSI (Lbs.)	Cycles per Minute	Required Power
HWS-16	.630	45,200	60	220/3Ph/50Hz

SPECIFICATIONS – METRIC

Model	Max. Wire Diameter (mm)	Max Shear Force at 102bar PSI (kN)	Cycles per Minute	Required Power
HWS-16	16,0	200	60	440/3Ph/60Hz

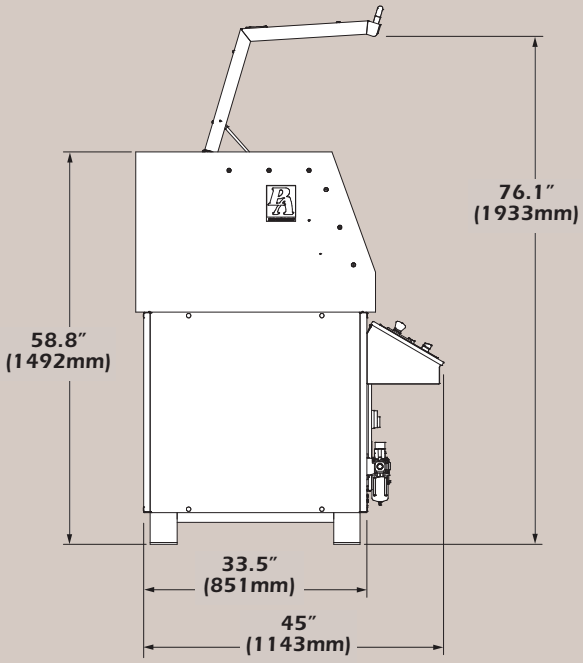
WIRE CUT-TO-LENGTH

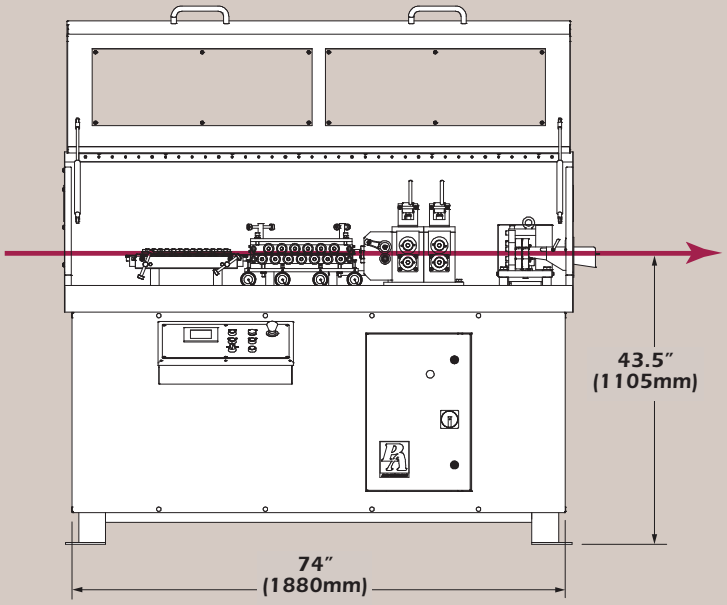
STANDARD FEATURES

- Straightens, Feeds and Shears to Programmable Length
- Rugged, Steel Plate Construction for Component Support and Rigidity
- Fully Enclosed for Operator Safety
- Easy Lift Hood for Threading of wire and maintenance
- High Performance Digital Servo Drive, PLC and Motor (Allen-Bradley control) provides accurate part lengths Inch/Metric, multi-language selectability
- Job Storage
- Micro-adjust, On-The-Fly Feed Length adjustment
- Jog Pendant

OPTIONS

- Auxiliary Strip Encoder





SPECIFICATIONS – USA

Model	Wire Dia. (In.)	Feed Rolls	Feed Roll Dia. (In.)	Input Power V / Ph / Hz
CTL2210	0.040 – 0.156	2	2.56	220 / 1 / 50-60
CTL2410	0.040 – 0.250	4	2.56	220 / 1 / 50-60
CTL2610	0.040 – 0.250	6	2.56	220 / 1 / 50-60
CTL5210	0.040 – 0.375	2	4.72	220 / 1 / 50-60
CTL5410	0.040 – 0.500	4	4.72	220 / 1 / 50-60
CTL5610	0.040 – 0.750	6	4.72	460 / 3 / 50-60

SPECIFICATIONS – METRIC

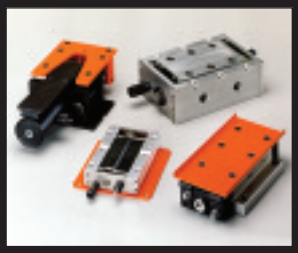
Model	Wire Dia. (mm)	Feed Rolls	Feed Roll Dia. (mm)	Input Power V / Ph / Hz
CTL2210	1,0 – 4,0	2	65,0	220 / 1 / 50-60
CTL2410	1,0 – 6,4	4	65,0	220 / 1 / 50-60
CTL2610	1,0 – 6,4	6	65,0	220 / 1 / 50-60
CTL5210	1,0 – 9,4	2	120,0	220 / 1 / 50-60
CTL5410	1,0 – 12,7	4	120,0	220 / 1 / 50-60
CTL5610	1,0 – 19,1	6	120,0	460 / 3 / 50-60

Air Feeds

Straighteners

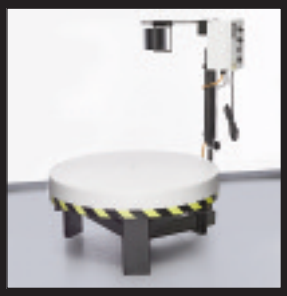
Shears

Transporters



Servo Feeds

Coil Handling Equipment



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The EMPLOYER must meet all OSHA regulations including, but not limited to, 1910.211, 1910.147, 1910.212, 1910.217 and all applicable state laws. All equipment manufactured by P/A Industries is designed to meet the construction standards of OSHA in effect at the time of sale, but the EMPLOYER installs the equipment, and therefore the EMPLOYER is responsible for installation, use, application, training, and maintenance, as well as adequate signs on the press or other machine onto which this equipment will be installed.

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