



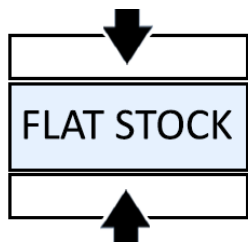
## Precision Wire and Strip Straighteners

Novo Precision has been making the TAK Precision Wire Straighteners (TAK-PWS) since 1981. Our roll straighteners are used to straighten wire, tube, thin/narrow strips and other linear materials. Designed for wire diameters of .006" to a maximum of .375", TAK-PWS are available in 1, 2, 3 or 4 plane configurations. The straightener rolls come standard with 120° V grooves and can be ground to custom shapes for shaped materials. The TAK-PWS is designed to enable precise, accurate and repeatable bearing positioning during startup and material change-overs which can be recorded for process quality records.

Download product specifications, assembly drawings and manuals through our website:  
<https://www.novoprecision.com/products/precision-wire-straighteners-lubricators/>



### 1 Plane



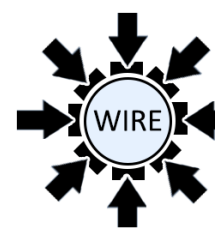
Primarily used for flat wire and thin strip material to maintain flatness.

### 3 Plane



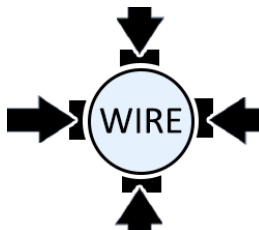
For hex material. Banks are mounted 60° to each other, providing 6 sides of bearing contact to allow for adjustments to remove memory and straighten in 3 directions.

### 4 Plane

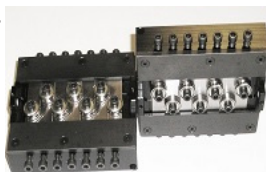


For round wire material. Banks are mounted 45° to each other, providing 8 sides of bearing contact to allow for adjustments to remove memory and straighten in 4 directions. Particularly effective with helix conditions evident in wire.

### 2 Plane



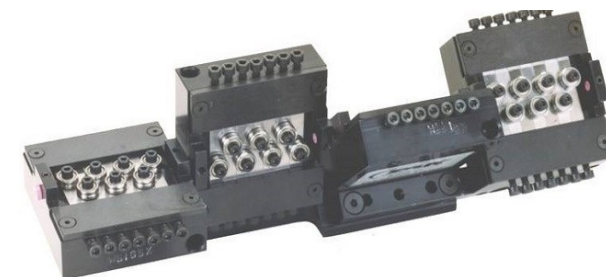
For round or rectangular wire; banks are mounted 90° to each other for 4 sides of bearing contact.



### Precision Bearings

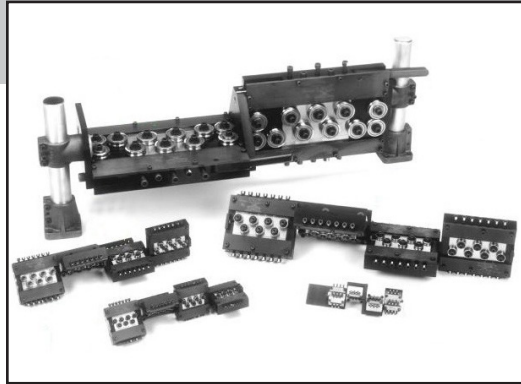


Our precision-ground bearings are designed to accommodate a wide range of material shapes.





## Precision Wire and Strip Straighteners



The TAK Precision Wire Straightener (TAK-PWS) bearings are placed close to each other in order to allow for fine adjustments. The Quick Set Reference Chart provided by Novo Precision allows for accurately recording initial and repeat setups for addressing ISO procedure requirements. The chart includes center line dimensions for each material size and bearing deflection dimensions for straightening. The precise manufacturing of TAK-PWS allows for any standard gauge block to be used to measure distance documentation settings.

The Novo Precision TAK-PWS is used for sensitive and critical manufacturing applications such as medical, fiber optic and electronic where quality and setup traceability is required.



Series	Wire Range	# of Rolls per Plane	# of Planes	Quick Release?	Inc. Torque Wrench?	Bearing Speed Rating	Bearing Material	Bearing ID/OD	4 Plane Length/Weight
#00	.006" - .012" (0.15 - 0.30mm)	7	1,2,3,4	No	Yes	3,478 ft/min	52100 Stl	.0937" ID .188" OD	7.25" 2 Lbs
#0	.010" - .025" (0.25 - 0.625mm)	7	1,2,3,4	No	Yes	4,688 ft/min	52100 Stl	.120" ID .280" OD	7.50" 1.5 Lbs
#01	.020" - .035" (0.50 - 0.90mm)	7	1,2,3,4	No	Yes	3,893 ft/min	52100 Stl	.125" ID .375" OD	10.375" 4.75 Lbs
#02	.030" - .065" (0.76 - 1.65mm)	7	1,2,3,4	No	Yes	3,744 ft/min	52100 Stl	.1875" ID .500" OD	13.875" 7.5 Lbs
#03	.060" - .110" (1.50 - 2.80mm)	7	1,2,3,4	No	Yes	3,956 ft/min	52100 Stl	.250" ID .750" OD	22.875" 28 Lbs
#04QR	.100" - .187" (2.54 - 4.75mm)	11	1,2,3,4	Yes	No	1,179 ft/min	52100 Stl	.625" ID 1.375" OD	43.50" 75 Lbs
#04 Unibody	.100" - .187" (2.54 - 4.75mm)	7	1,2,3,4	No	Yes	3,702 ft/min	52100 Stl	.472" ID 1.260" OD	36.19" 71 Lbs
#05 QR	.150" - .250" (3.81 - 6.35mm)	11	1,2,3,4	Yes	No	1,489 ft/min	52100 Stl	.625" ID 1.750" OD	54.25" 124 Lbs
#05 Unibody	.150" - .250" (3.81 - 6.35mm)	7	1,2,3,4	No	Yes	3,632 ft/min	52100 Stl	.787" ID .1850" OD	53.47" 119 Lbs
#06	.200" - .350" (5.08 - 8.89mm)	8	1,2,3,4	Yes	No	3,976 ft/min	52100 Stl	.7874" ID 2.265" OD	70.56" N/A Lbs