

PRECISION + SPEED = EFFICIENCY

PrecisionCut UD

- Very robust machine concept
- Good straightening result even with longer cutoffs



STRAIGHTENING AND CUTTING

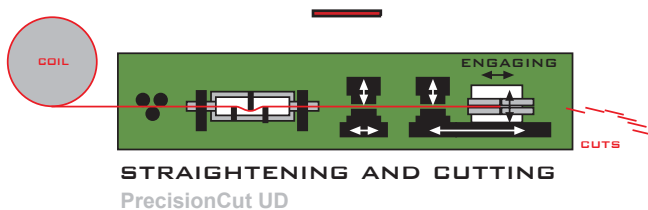


Extensive engineering series with a trusted and robust machine concept.

For a good straightening result on long cutoffs. The series is based on a very stable cast body. The wire is fed by a clamping slide which is accurately driven by a camshaft, therefore guaranteeing the ability to meet very tight length tolerances. A good straightening result is achieved due to the cutting system being positioned on an infeed slide. The series works for wire diameters of 0.05 mm to 16 mm with part lengths from 2 mm to 4 m. Fixed or positive stop options or special dual-feed versions providing outputs of up to 2,000 parts per minute are also available for diameter ranges between 0.05 mm to 16 mm with part lengths up to 4 meters.

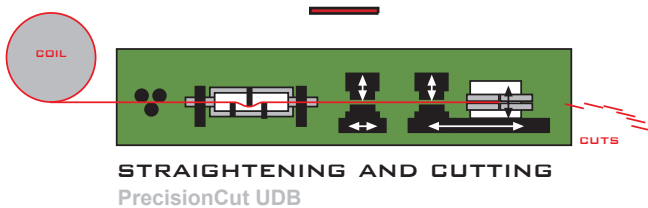
Technical Features

- All movements are cam driven.
- Continuous wire infeed with a flying or fixed cutting system.
- Machine output, cutting ratio, and number of pieces are programmable via the on-board PLC.
- Roller straighteners or rotating straighteners / arbors can be utilized.
- The series contains on board monitoring functions, such as detecting the end of the wire, detecting a bend in the wire, wire lubrication control, central lubrication control.
- Machines for working the smaller diameter wires are fully enclosed in a machine housing, thus reducing noise output, and allowing operator access from all sides of the machine. Drive, electronics and central lubrication are all integrated into the machine.
- Machines for working larger diameters are available with an optional noise suppressing cover.
- Unattended production is possible.



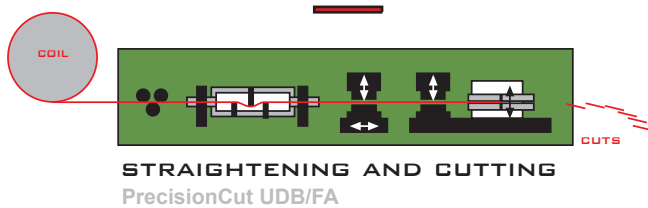
PrecisionCut UD

- For short and long precision cutoffs up to 4 m.
- Electro-pneumatic length adjustment, allowing for an infinite number of infeed strokes prior to the cutoff operation engaging.



PrecisionCut UDB

- For medium cutoffs with lengths up to 60 mm.



PrecisionCut UDB/FA

- For short cutoff lengths up to 35 mm, and very high speeds of up to 2,000 parts per minute.

Rolling pre-straightener for wire diameters above 2 mm

- With the help of feeding rolls (on request), the wire is threaded quickly and safely.
- Three or more rolls eliminate stronger kinks before the wire runs into the rotating straightener. Thus, different tensions from the coil are balanced.

High Speed rotating straightener / arbor

- Provides outstanding straightening results.
- Number and spacing of the straightening pegs depend on the wire diameter.
- Straightening pegs are available in various materials depending on the alloy being cut. Some examples of materials are: steel, bronze, carbide, plastic, wood and ceramic.
- Variable speed arbor available.

Slide Infeed

- High performance for short cutoffs.
- No surface damage due to long infeed jaws and flying cutoff system.
- Highest accuracy of infeed length.



PrecisionCut UD

Cutting System

- Bushing cutoff, depending on the model. Flying UD and UDB or fixed UDB/FA.
- With a special tooling profile wire can be machined.
- Designed for straight, burr-free and square cutoffs, reducing process costs for secondary operations.





PrecisionCut UD

For short and long cuts:

Model	Wire- ϕ		No. of wires	Max. infeed stroke per machine rotation		Cutting off length**		Total output		
	mm	(inch)		mm	(inch)	mm	(inch)	pcs/min	m/min	(ft./min)
UD2	0.05 - 4.0	(0.002 - 0.157)	1	100	(4.00)	5 - 4,000	(0.196 - 160)	500	50	(160)
UDWO*	0.2 - 1.3	(0.0078 - 0.051)	1	100	(4.00)	5 - 300	(0.196 - 11.811)	500	15	(47)
UDD2	0.05 - 2.0	(0.002 - 0.078)	2	100	(4.00)	5 - 4,000	(0.196 - 160)	1,000	100	(320)
UD4	2.0 - 6.0	(0.078 - 0.236)	1	100	(4.00)	5 - 4,000	(0.196 - 160)	400	40	(130)
UDD4	1.0 - 4.0	(0.039 - 0.157)	2	100	(4.00)	5 - 4,000	(0.196 - 160)	800	80	(260)
UD5#	2.0 - 8.35	(0.078 - 0.328)	1	100	(4.00)	5 - 4,000	(0.196 - 160)	400	40	(130)
UD6/1#	6.0 - 12.5	(0.236 - 0.492)	1	60	(2.360)	9 - 4,000	(0.354 - 160)	400	24	(75)
UD6/2#	6.0 - 16.0	(0.236 - 0.629)	1	60	(2.360)	9 - 4,000	(0.354 - 160)	400	24	(75)

without noise protecting cover
 Length tolerance <500:±0.1 <1,500:±0.2
 <1,000:±0.15 <2,000:±0.25

* Version for cutting of tungsten wire with inductive heating.
 ** Minimum cutting off length 1.5 x d

Only for short cuts:

Model	Wire- ϕ **		No. of wires	Cutting off length****		Theoretical length tolerance		Total output		
	mm	(inch)		mm	(inch)	± mm	(± inch)	pcs/min	m/min	(ft./min)
UDB2	0.05 - 4.0	(0.002 - 0.157)	1	5 - 60	(0.196 - 2.362)	0.050	(0.002)	300 - 500 ***	30.0	(95)
UDB2 / 750 FA*	0.05 - 4.0	(0.002 - 0.157)	1	5 - 25	(0.196 - 0.984)	0.025	(0.001)	500 - 750 ***	18.7	(60)
Uddb2	0.05 - 2.0	(0.002 - 0.078)	2	5 - 60	(0.196 - 2.362)	0.060	(0.002)	600 - 1,000 ***	60.0	(195)
Uddb2 / 1500 FA*	0.05 - 2.0	(0.002 - 0.078)	2	5 - 25	(0.196 - 0.984)	0.030	(0.001)	1,000 - 1,500 ***	37.4	(120)
UDB4	2.0 - 6.0	(0.078 - 0.236)	1	5 - 60	(0.196 - 2.362)	0.050	(0.002)	500	30.0	(95)
UDB4 / 750 FA*	2.0 - 6.0	(0.078 - 0.236)	1	5 - 35	(0.196 - 1.377)	0.025	(0.001)	750	26.2	(85)
UDB4 / 1000 FA#	2.0 - 6.0	(0.078 - 0.236)	1	5 - 30	(0.196 - 1.181)	0.025	(0.001)	1,000	30.0	(95)
Uddb4	1.0 - 4.0	(0.039 - 0.157)	2	5 - 60	(0.196 - 2.362)	0.060	(0.002)	1,000	60.0	(195)
Uddb4 / 2000 FA#	1.0 - 4.0	(0.039 - 0.157)	2	5 - 30	(0.196 - 1.181)	0.030	(0.001)	2,000	60.0	(195)
UDB5#	2.0 - 8.35	(0.078 - 0.328)	1	5 - 60	(0.196 - 2.362)	0.050	(0.002)	500	30.0	(95)
Uddb5	2.0 - 6.0	(0.078 - 0.236)	2	5 - 60	(0.196 - 2.362)	0.060	(0.002)	1,000	60.0	(195)
UDB5 / 600 FA#	2.0 - 8.35	(0.078 - 0.328)	1	5 - 35	(0.196 - 1.377)	0.025	(0.001)	600	26.2	(85)
Uddb5 / 1200 FA#	2.0 - 6.0	(0.078 - 0.236)	2	5 - 35	(0.196 - 1.377)	0.030	(0.001)	1,200	52.4	(170)
UDB6 / 1#	6.0 - 12.5	(0.236 - 0.492)	1	9 - 60	(0.354 - 2.362)	0.050	(0.002)	500	30.0	(95)
UDB6 / 2#	6.0 - 16.0	(0.236 - 0.629)	1	9 - 60	(0.354 - 2.362)	0.050	(0.002)	500	30.0	(95)

* FA - Cutting off system fixed with stop
 ** For tensile strength $R_m < 900 \text{ Mpa}$
 *** Infinitely adjustable drive
 **** Minimum cutting off length 1.5 x d
 # without noise protection cover
 o= with frequency converter

Subject to technical change without notice. Date of issue 04.08