

Videx Straighten & Cut machines with mechanical cut mode

The Quick-Change VC-M and the patented VC-MS models work from wire coil and are the ideal solution for small production batches and frequent change-over of wire diameter and length.

Length change is done in seconds.
Complete wire diameter change takes 15-20 minutes.

The cut speed is up to 600 PPM.

Length accuracy is ± 0.1 mm/meter.

The VC-M goes up to 1,000mm and VC-MS is used for longer parts.



The VC-MS models are driven by the patented mechanical “servo” with no clutches nor hydraulics. The machines are therefore quieter and more reliable, requiring less maintenance.

The straightener reciprocates during cut-off (same principle as Flying Shear), and never twists on the wire in one place. This feature is critical when running hi-tensile wire.

For short parts, the cut-off cam is cutting the wire continuously, at steady intervals, according to the wire feed rate. For longer parts, the cut is performed by the servo drive through a flag. The wire feed rate is determined by a speed controller.

The stainless steel Run-Off guide requires no adjustment when changing wire diameters!

The gate of the run-off guide is pneumatically operated. It is quiet and smooth, and is well supporting the wire during cut-off, to assure a square cut face.

The positive stop is mounted on a carriage that rides along the run-off guide, so there is no need to dismantle any parts during set-up. A fine adjustment length mechanism assures an accurate cut length.

The machine is offered with an optional integral chamfer cutting station that accepts the cut-to-length parts and chamfers them from a magazine with no operator intervention.

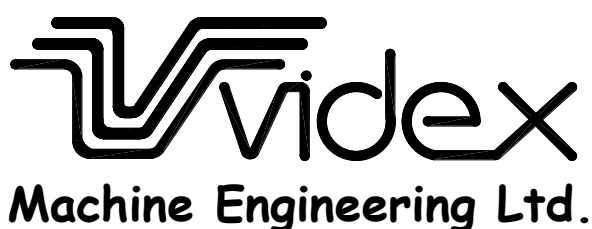


VC-M and VC-MS features:

1. Stainless steel Run-Off Guide, requiring No Adjustment through the whole machine's wire diameter range.
The gate (bottom guide) is specially designed to perform a short and quiet stroke, making the whole operation smooth and reliable.
2. Quick-Change Cut-off Knife, with 2 cutting faces.
3. Extended Cut Length range from slugs up to 24 meters in the same machine.
4. Square Cut-Off face, supporting the wire during the cutting operation, resulting in a Square Cut face.
5. Practical Cut-Off speeds up to 500 cuts/minute.

6. Length accuracy $\pm 0.1\text{mm}$, achieved by a specially designed Positive Stop.
The Positive Stop is located on a guided carriage that rides along a heavy-duty graduated rail. By loosening two screws, the stop can be manually positioned anywhere along the run-off guide in seconds.
The Positive Stop is optionally equipped with a Digital Length Display.
7. Reciprocating Straightener with Quick-Change Plugs, combining hardened parabolic feed rollers and cast iron straightening shoes. The straightener rollers cover the complete range of wire diameters.
The straightener oscillates during cut-off, safeguarding against surface damage on the wire. The Quick-Change features are ideal for small batches and quick repetition to formerly produced parts.
8. Vibration Free operation; The whole straightener is mounted on an isolated rigid plate, to eliminate vibrations.
9. AC speed controller on the straightener, enabling to run at the highest rate for every combination of wire length and diameter.
10. Servo (Patent Pending) drive on the cutting motor, enabling cutting both very short parts (slugs) or long parts, up to an unlimited length.
11. Powerful air brake on the straightener motor, stopping the straightener when the Stop button is pushed, or when a door is opened. The air brake eliminates any possible short cuts, and is operator safe.
12. Optional, closed circuit Wire Wetting system for removal of soap residuals from drawn wire. This system results in a better surface quality and higher life of the cast iron shoes and straightener rollers.
13. Optional CE package and Safety Covers along the run-off guide.
14. Optional Integral Chamfer station.

Specifications	VC-20	VC-25	VC-30	VC-35	VC-40
Wire diameter range, up to 700N/mm ² (100 kpsi)	5.2-13mm .20"-.50"	6.5-16mm .26"-.62"	8.0-20mm .31"-.75"	10-25mm .38"-1"	13-32mm .50"-1.25"
Minimum length	10mm	12mm	16mm	20mm	25mm
Maximum length	VC-M: Up to 1,000mm VC-MS: Unlimited				
Maximum production PPM	600	600	400	250	200
Length repeatability /meter	$\pm 0.1\text{mm}$	$\pm 0.1\text{mm}$	$\pm 0.1\text{mm}$	$\pm 0.1\text{mm}$	$\pm 0.1\text{mm}$
Maximum wire speed	92 m/minute	92 m/minute	80 m/minute	60 m/minute	40 m/minute
Straightener motor	18.5 KW	30 KW	40 KW	60 KW	75 KW
Cut-off motor	7.5 KW	15 KW	18.5 KW	22 KW	30 KW
Floor space with 1 meter track	3.7m X 0.9m	4.2m X 1.2m	4.6m X 1.4m	5.0m X 1.7m	5.6m X 2.0m



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