

Feed systems

Effective handling

komax WIRE



THE WAY TO MAKE IT | OPTIMIZED

The latest generation of automatic wire processing machines operates at high rates of acceleration and speed. This places maximum demands on the feed for the wire being processed. The Komax range of feed systems offers the optimum solution for each specific application.

ads 123

Capable of handling reels weighing up to 600kg, this wire delivery system from the ads series (advanced delivery system) is the ultimate in heavy-duty feed systems.

The reel clamping system and the lifting device are both motor-driven. The most varied storage systems up to 5.2 meters in size, as shown above, are available with this flexible system.

The drive is rated for top output and operates with absolutely minimal vibration and noise.

Various setup functions make wire clamping as easy as can be.

Thin, flexible stranded wires and cable as well as conductors up to 35mm in diameter can run at high rates of speed and acceleration. A roller rotating with the unit immediately detects any problems occurring in the de-reeling of the wire.

ads 119

The Komax ads 119 wire delivery system is ideal for de-reeling medium-heavy reels weighing up to 100kg. The reel-clamping system is combined with a simple lifting mechanism that allows heavy wire reels to be changed effortlessly. Convenient setup functions like slow advance and reverse travel further simplify rapid reel changes. The powerful motor operates extremely quietly and smoothly.



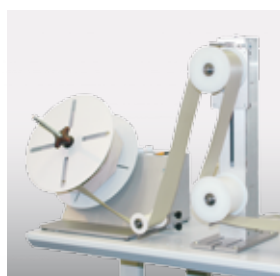
▲ ads 119 With piggyback option



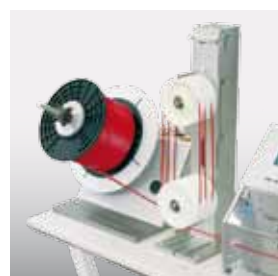
▲ ads 119 active wire delivery system

ads 115

The ads 115 wire delivery system is a compact table model ideal for flexible use in tandem with Komax automatic cut-and-strip machines. The de-reeling speed is controlled continuously and adapts to wire requirements. You can switch the direction of rotation by flipping a toggle switch, allowing you to roll up wire or transfer it to a different reel. This model accommodates reels up to 400mm in diameter, loose coils and flat cable rolls.



▲ ads 115 With flat cable



▲ ads 115 active de-reeler with wire reel

ads 112

The ads 112 wire pull machine is the perfect choice for the optimum feeding of wires from reels, Coni-packs or drums. Wire is transported by two synchronous toothed belts. Wires ranging from fine to coarse are fed powerfully yet gently to the processing stations, as are non-round wires. Changeovers are quick and easy. For twisted or rigid wires, an ideal supplement to the wire pull machine is a DHS1000D optical wire-sag control unit. The DHS sensors continuously record the wire sage and adjust the advance speeds accordingly.

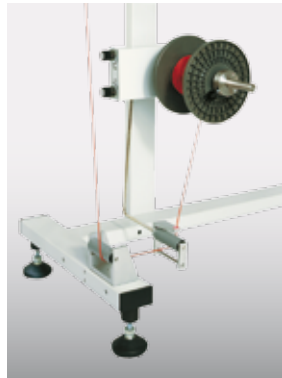


▲ ads 112 Wire pull machine with regulating arm

Komax 106

The Komax 106 is an active feeding system. It can feed from loose coils, wire drums, Conipacks or central wire storage systems. A control algorithm with an automatic learning mode allows the wire processing machine to run at high capacity while the wire bundle is de-reeled at a reduced rate of acceleration and a constant speed. This feature guarantees smooth feeding.

Besides wire-end and knot detection, the feed system also has a function for setting a pull-force limit. The Komax 106 is compatible with all automatic processing machines.



Komax 104 ▶
Passive de-reeler

Komax 104

The Komax 104 is designed for use as a passive roller support for small wire reels. The de-reeler is equipped with a finely adjustable rope brake and can accommodate wire reels with an outside diameter of up to 270mm.



▲ **Komax 104** passive de-reeler on Gamma 255

Your benefits

- Fast, gentle, and continuous wire feed for high processing speeds on basic machines
- The basic machine is fed strain-relieved wire.
- Highly reliable
- The de-reelers are fitted with lift mechanisms for larger wire reels so only one person is needed to operate them.
- All de-reelers have powerful yet quiet motors
- Optimum solutions are available for each application.
- Requires no operator during production
- Full integration in Komax basic machines
- One system – one partner

Technical data

		ads 123	ads 119	ads 115	ads 112	Komax 106	Komax 104
Wire reel	Maximum diameter [mm(in.)]	1000 (39.4)	600 (23.6)	400 (15.8) ⁽¹⁾	-	-	500 (19.7)
	Maximum width [mm(in.)]	750 (29.5)	500 (19.7)	250 (9.8)	-	-	270 (10.6)
	Maximum weight [kg(lb.)]	600 (1323)	100 (221)	20 (44)	100 (221)	-	25 (55)
	Minimum core diameter [mm(in.)]	20 (0.8)	20 (0.8)	14 (0.55)	-	-	20 (0.8)
Wire data strand / round cable	Diameter up to [mm(in.)]	35 (1.4)	15 (0.6)	6 (0.24)	28 (1.1)	4 (0.16)	15 (0.6)
	Wire cross section [mm ²] (AWG)	95 (000)	35 (2)	4 (12)	120 (0000)	4 (12)	6 (10)
Wire data for loose coils	Minimum inside diameter [mm(in.)]	-	-	130 (5.1) ⁽³⁾	-	-	-
	Minimum outside diameter [mm(in.)]	-	-	300 (11.8)	-	<650 (<25.6)	-
Wire data for flat cable	Maximum of width [mm(in.)]	-	-	82 (3.2)	28 (1.1)	-	82 (3.2)
	Maximum rotational speed [RPM]	160	400	500	-	-	-
De-reeling data	Maximum wire speed [m/s(ft./s)]	2.8 (0.11) ⁽²⁾	4.2 (0.17) ⁽²⁾	3 (0.12) ⁽¹⁾	2.7 (0.1) ⁽²⁾	6 (0.24) ⁽²⁾	passiv
	Maximum pull force [kg(lb.)]	-	-	-	20-25 (44-55)	-	-
Power	Storage capacity [m(ft.)]	5.2 (15.1)	4 (13.1)	3.2 (10.5)	0.8 (2.6)	6.5 (21.3)	0.5 (1.6)
	Voltage [V]	3×400	115/230	115/230	115/230	115/230	-
	Frequency [Hz]	50/60	50/60	50/60	50/60	50/60	-
	Power [kW]	3	1.5	0.25	0.75	0.3	-
Dimensions	Pneumatic pressure [bar(psi)]	4-6 (58-87)	4-6 (58-87)	-	1.5 (21.8)	-	-
	Height of wire outlet [mm(in.)]	950-1200 (37.4-47.2)	1050-1170 (41.3-46)	41-89 (1.6-3.5)	1090 (42.9)	1170 (46)	-
	Width×height×depth [mm(in.)]	2900×2490×1410 (114.2×98×55.5)	1050×1970×750 (41.3×77.6×29.5)	400×350×330 (15.8×13.8×13)	600×490×400 (23.6×19.3×15.8)	1060×1285×465 (41.7×50.6×18.3)	260×470×460 (10.2×18.5×18.1)
	Weight [kg(lb.)]	780 (1720)	225 (496)	25 (55)	55 (121)	46 (101)	5.1 (11.2)
Special features	Changeable direction of rotation	-	-	•	-	-	-
	Output for feedback	•	•	•	•	•	•

* The Kappa generations can process many conductors outside the indicated cross section range. Certain extremely hard, tough wires may not be able to be processed even if they are within the indicated cross section range. In case of doubt, we are happy to produce samples of your wires.



WP: Feed system
 0046326 Version 6
 Subject to change /gu
 Made in Switzerland

▲ **ads 112** Wire pull machine with DHS 1000D wire sage control unit on a Kappa 350



▲ **ads 123** With optional Storage-Arm-Down and Down-Plus

More information about our products:



www.komaxwire.com

Komax Wire is a division of Komax Holding AG, Switzerland.

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