

PAN-PIONEER Co., Ltd.



M/C: AUTOCOILING MACHINE (WC)

Automatic Coiling Machine (auto-coiling machine)

0.] Model:

MODEL	Sizes (mm)	Wire Size	Maximum	Line Speed
		(mm²)	Length / Coil	(mpm)
WC-40 (400-499mm)	400x150	2.0- 8	1000	100-500
WC-50 (500-599mm)	500x150	2.5-10	1000	100-500
WC-60 (600-799mm)	600x200	4.0-16	500	50-500
WC-80 (800mm)	800x300	5.0-25	400	50-500

0.] Features:

- 0.0.) Type: Vertical coiling of wire rolls 100-1000M unit length, with automatic wire sending, holding, cutting and roll winding, full computerize control
- 0.0.) Tandem with extrusion lines, finished wire continuous winding into a rigid rolls with a desired length. Suitable for electric building wire, flexible cables, house appliance wire & control cables.
- 0.0.) Machine also available for indenpendent operation, line equiped with motorize pay off stand and accumulator.
- 0.0.) Driven motors: AC motor with inverter for coiling head, servo- motor for traverser
- 0.0.) Operation system: "CCCS" Centeral Computer Control System.





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- 3.] Detail specifications:
 - 3.1.) Winding head:
 - 3.1.A.) Vertical coiling, automatic closing and open of coiling head by pneumatic pusher
 - 3.1.B.) 3 sets of adapt rings to be fitted for different roll height
 - 3.1.C.) Take-off of wire roll by an auto-pushing arm both side
 - 3.1.D.) Operation sequence:

Starting > Counting > Length counter reach > Speed down > Stop > Wire end press > Wire end cutting > Coiling head draw up > Coil push out > wire end send in > Coiling head push down > Restarting.

3.1.E.) Brake: Pneumatic disc brake

- 3.2.) Length counter:
 - 3.2.A.) Dual pulley type with one way clutch, pulley made of Aluminum alloy with PU-rubber coating
 - 3.2.B.) Counter: Digital type auto-counter with a pre-alarming and full length auto-stop device.
 - 3.2.C.) Counting unit:10cm /1 count
 - 3.2.D.) One way rotating with magnetic brake
- 3.3.) Wire sending:
 - 3.3.A.) Double stroke type for coiling and wire sending work
 - 3.3.B.) Operated by a two strokes air cylinder
 - 3.3.C.) A air press type wire stopper to be attached
- 3.4.) Traversing:
 - 3.4.A.) Up and down traversing done by a 400W liner head traverser with servo motor driving system and the traversing speed synchronizes with coiling speed
 - 3.4.B.) Traversing pitch and stroke are adjustable by program of PLC which calculate the corresponding speed automatically for different finishing cable sizes.

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3.5.) Wire cutter:

- 3.5.A.) To cut out the wire automatic when the pre-set counter length has been reached after machine complete stop.
- 3.5.B.) Two bladdes on each side of the cutting base which move forward and back force by two air cylinders and one cylinder for each one of the blades.
- 0.0. .) Cutting knife material: SKD-2 tool steel with grinding
- 0.0. .) Wire guide tube: sending the wire into winding head by air cylinder automatically.

0.0.) Coil pushing:

- 0.0. .) Two coil-holding arms on both sides of the coiling head to hold the coiled-wire.
- 0.0. .) These coil-holding arms are fixed on air cylinders and these arms open(release)/close(clamp) depend on the cylinders move forward / back force.
- 0.0. .) After the coiled-wire being held, these arms moving from the coiler to the operation for packaging.
- 0.0. .) Once the current coiled wire has been moved out, the next wire will immediately be sent in to the coiling head and re-start the machine.
- 0.0.) Driven motors: AC motor with Vector type Inverter
- 0.0.) Internal air storage tank
- 0.0.) "CCCS" operation system:
 - 0.0. .) Type: "MMI" + "PLC"
 - 0.0. .) Application: Touch screen monitor(MMI) operation and display type
 - 0.0. .) Data setting: Key-in the desire pitch on "MMI" screen.
 - 0.0. .) Data appear: Wire diameter/roll size/speed/length measuring
 - 0.0. .) Single step checkup
 - 0.0. .) Production statistics information.

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