

## KINGSUN Demetalizing Machine Technical Specifications

This machine is widely used for demetalizing the metalized film such as BOPP, PET, PVC aluminum foil, laser hologram film, thermal transfer film and food packaging film. Using chemical cleaning out part of metalized aluminum, laser graphics, transparent window, location, shape, size can be arbitrarily selected.

### 1. Main specifications

Model	Working Width (mm)	Working Speed (m/min)	Web Dia (mm)	Main Motor (kw)	Water Pressure(Mpa)	Total Power (kw)	Mounting Size (cm)	Weight (t)
1200	1000	50~90	600	3	0.2	26	720x200x190	4.3
1100	900	50~90	600	2.2	0.2	24	720x190x190	3.8
1000	800	50~90	600	2.0	0.2	22	720x180x190	3.3
900	750	50~90	600	2.0	0.2	20	720x170x190	3.0
800	650	50~90	600	2.0	0.2	20	720x160x190	2.7

### 2. Material

BOPP 20-70um metalized film or printed film

PET 12-70um metalized holographic transferred metalized film, metalized film or printed film

### 3. Function of de-metalizing

- a. de-metalizing function: de-metalizing tank + dry oven
- b. water washing function: water tank + dry oven

### 4. Multi-functional de-metalizing machine

- a. total length 7500mm, working width 650-1000mm or bigger sizes.
  - b. speed of de-metalizing (alkaline wash) 40-80m/min; speed of water washing 30-90m/min
  - c. total power 20-36KW, weight 2.7T-4.3T, max. temperature of oven 120 °C
  - d. consists of 5 units: unwinding unit, de-metalizing unit, washing unit, drying unit, rewinding unit
5. Diameter of unwinding & rewinding 600mm, 5kg brake with unwinding unit, PLC controlled constant unwinding tension, all guide rollers on the unwinding & rewinding are hard anodized, diameter at 80mm-100mm, the quality observation lamp is equipped in the unwinding unit to check the back film.
6. In the de-metalizing tank with stainless steel guide rollers 3pcs, diameter 74mm, drawing roller 1pc, diameter 124mm, the surface is anodized and chromed & mirror treated; anti-corrosion squeeze roller 1pc, diameter 126mm, chain driven; in the cleaning tank with stainless steel guide roller 8pcs diameter 74mm + drawing roller 2pcs, the surface is anodized and chromed

& mirror treated; anti-corrosion squeeze roller 2pcs, diameter 126mm; cotton cleaning roller 5pcs, diameter 80mm, chain driven; in the oven with aluminum guide roller 15pcs, diameter 80-100mm, the surface is anodized, chain driven.

7. Kingsun De-metalizing tank with heating system, with booster pump for water source cleaning.
8. Stainless electric heating within de-metalizing tank 2 groups 6KW.
9. Pressing cylinder in squeeze system SDA63 x 40
10. Rewinding unit with Taiwan made vector frequency conversion motor, the whole machine is synchronized driven by 2.2KW frequency motor..
11. The whole machine PLC controlled (Siemens), Taiwan made touch screen 7inch .
12. Rewinding servo motor controlled and with electric eye, and realized via the cylinder controlled the pressing roller, pressing roller diameter 80 made of aluminum alloyed material, and the surface is anodized and hard treated, with 1 hot air blower on its top, 1 loop hot air blower on the bottom, the quality observation screen equipped in the exit of the oven, the height above 400mm
13. Distance between water tank and the oven above 450mm.
14. Heating tube within oven with stainless electric type, with 0.6mm stainless steel plate on the top and the bottom of the oven, in the side of the oven (non-gear side) is easy for operator's in and out to do some cleaning.
15. With automatic stop function when the film breaks.



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