

Video professional <https://youtu.be/Tch3Bm-b5u0>

Large PROTECTION TAPE APPLICATION MACHINE TYPE **ALCOLOR PTA 500x6 M S**

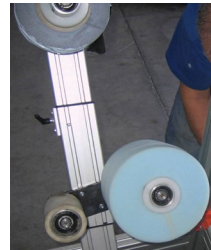
The Machine is satisfying the need of the aluminium finishing factory to protect the surface finish of the architectural aluminium profiles by applying a special adhesive tape of low density polyethylene. The machine applies evenly the protection tape (called also foil or film) on the Aluminium Profiles in their full length, on the 4 sides around plus on inclined sides of the aluminium bars at various regulated acute and blunt angles. When a certain aluminium bar is covered in its full length, its feeding stops automatically and is continuing only after the next Aluminium bar is presented by the operator to the driving rolls. There is a foot switch which enables the operator to stop the profiles' movement for a moment in order to cut the protection tape between the 2 profiles and separate them by pushing the finished one at the side. At this push at side operation he is helped by a worker placed at the other end of the free roller table receiving the usually 6 meter aluminium profile bar.

Machine composed by a screw-bolt mounted Body on base made out of ITEM anodized structural aluminium system for mechanical constructions, supporting 2 main driving rolls, vulcanized high endurance special rubber cast and rectified, plus the 2 tape application mechanisms for vertical side application and the 2 extra inclined sides tape application units for applying the protection tape at various acute and blunt angles. There are always soft position adjustable rolls for ironing the tape but also for achieving the tape application on curved surfaces. The driving roll station is in bridge form construction. The upper free rubber roller is held by carriers vertically sliding on double linear ITEM bearings.

Technical Characteristics:

2 Motors: 380 V, 3 phases, 50 HZ, 1 HP each driven by individual 3 phases Inverter.
Diameter of Driving and Pressing Rolls: 110 mm. Upper free pressure rubber roller on ITEM double linear bearings.
Feed speed of Profiles: up to 30 meters/min
Maximum Width of Profile's Section: 500 mm.
Maximum height: 150 mm.
Six (6) horizontal and three (3) vertical fixed free rolls for the support and guiding of the moving profiles.
Two moving vertical free rolls for the guidance of the moving profiles adjustable.

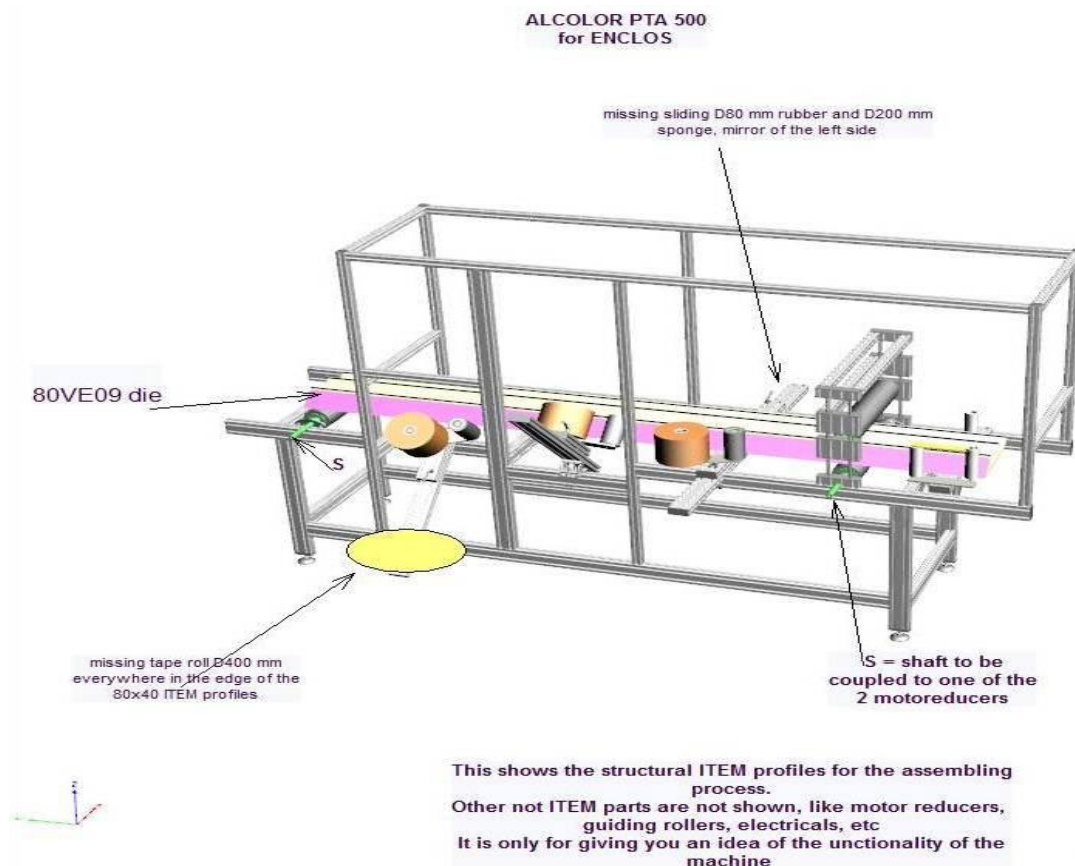
A tape application unit is shown at right here:



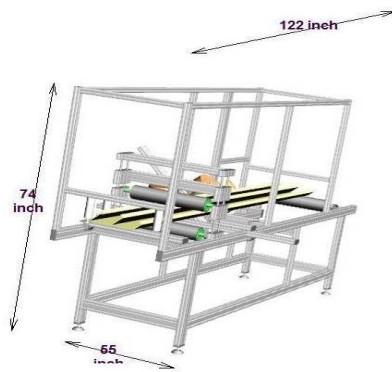
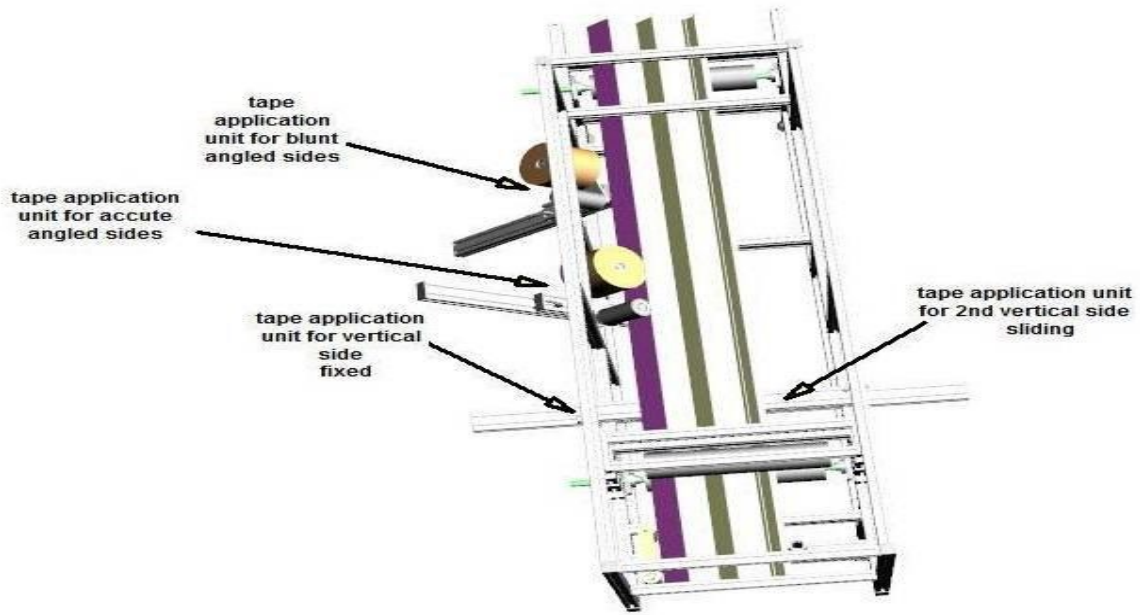
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The machine is suitable for applying adhesive tape on up to 6 faces and inclined sides simultaneously and also curved surfaces of aluminium Profiles.

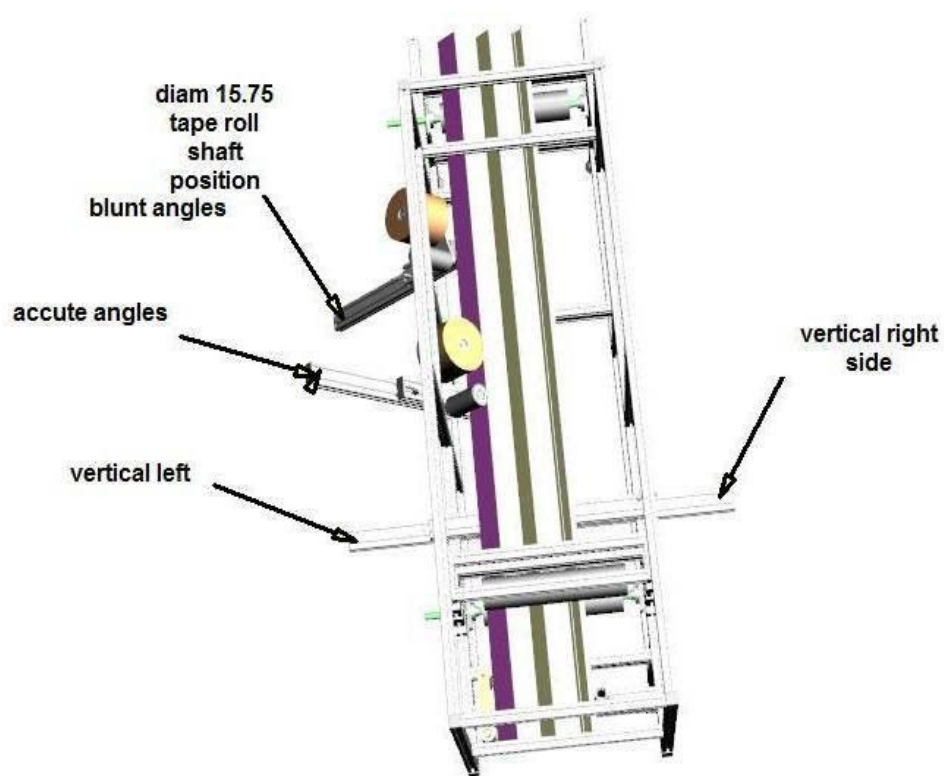
Protection adhesive film is applied simultaneously on the upper, lower and if so needed the side faces and inclined sides too of the Aluminium sections. Part of these faces could be curved in section.



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diam 15.75 tape roll shaft position is fixed, not sliding
diam 15.75 tape horizontal roll shaft positions are not shown here