



Reifenhäuser

REILOY

The Extrusioners

Eagle Mixer of Reiloy quality.

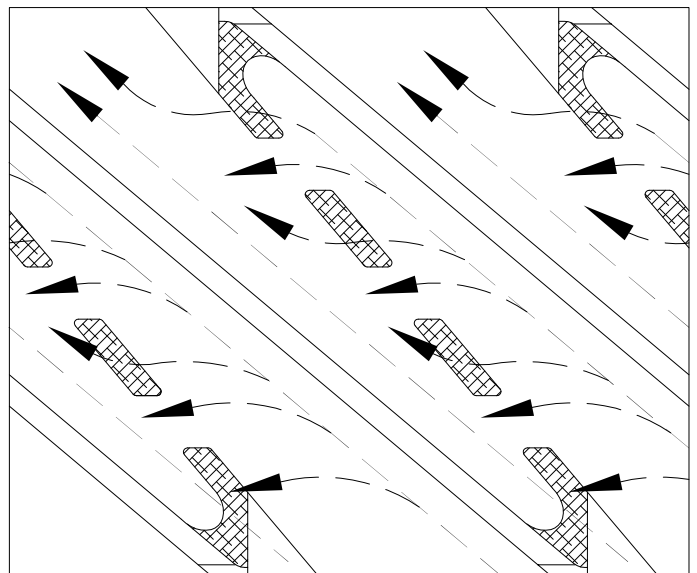
Reiloy manufactures screws from a wide variety of steels: 4000 series high tensile strength alloy steel, PM9V, PM420V and Nitalloy 135, to name but a few. Reiloy offers flight armored screws with Stellite #12, Colmonoy #56, #57 and #83. The entire screw surface is gas nitrided, ion nitrided or hard chrome plated to protect the screw root and flights. Ceramic chrome and carbide coatings can also be offered.

The Eagle®

The Eagle® is a low shear, distributive and dispersive mixing screw that provides the processor with outstanding color mixing and melt quality – all without increasing melt temperature, burning or degradation while running at very high RPM.

The Eagle® can be designed to process most resins manufactured for your application. This remarkable design has:

- Improved production rates by more than 25%
- Reduced part rejection from more than 5% to less than 1/2%
- Reduced the amount of color concentrate required to achieve optimal color mix from 5% to 2%



The Eagle® is used with custom-designed single-flighted screws and also with barrier designs for special applications.

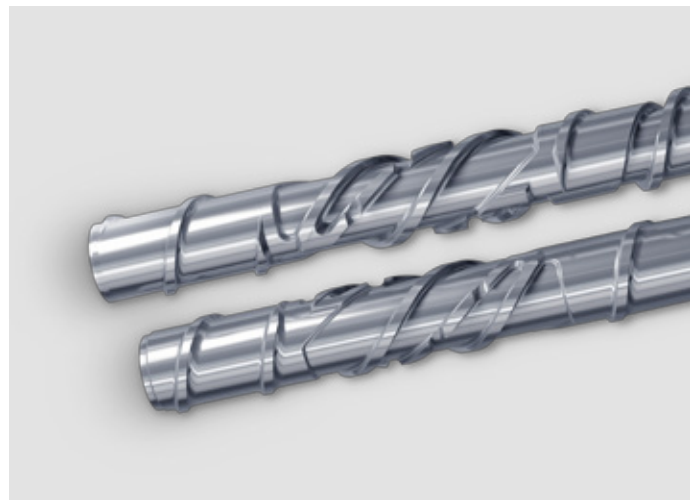
The Eagle® Barrier

The Eagle® Barrier combines the advantages of the Eagle® mixing design with the melting efficiency of the barrier screw design.

The barrier section “solid” and “melt” channels provide the effective melting of all resins, especially the “hard-to-melt” crystalline resins. The resin is then conveyed through the mixer to produce a high quality, isothermal melt.

The design of the barrier portion of the screw and the mixer itself is dependent upon the type of resin being processed and whether the application is injection molding, blow molding or extrusion. The Eagle® Barrier has been Reiloy’s most effective design for injection molding and works effectively in extrusion applications as well.

The Eagle® Barrier screw has been used successfully with all melt index resins.



Eagle® & Eagle® Barrier



Screw milling