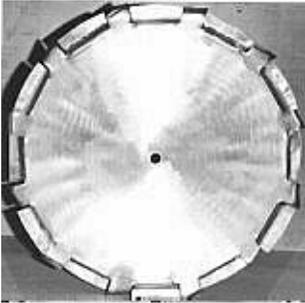


## HIGH SPEED BLADES FOR DISPERSING

The HSF style is the standard used for most dispersing applications, since it produces high shear dispersion, pumping action, and size reduction especially for heavy agglomerates. It is used in processing paints, inks slurries and coatings.



The HSE style is a combination of F and G style blades and offers intense turbulent flow with some shear, especially when used on high vehicle viscosity and high solid solutions, resulting in good dispersion with high pump rate. This style is favored in dissolving resins.



The HSG style, high vane blade, generates a high pumping action which tends to mix the entire batch efficiently, resulting in high speed blending with low shear, but with excellent flow and circulation. It is used in heavy bodied mixes that require higher shear as obtained from paddle agitation.



The HSO style blade offers high pumping action and high shear. The hole pattern allows for maximum shear generation with less horsepower. Other process characteristics are similar to the HSF style blades.



The HSD style blade is characterized as the Ring/Disk blade and offers all the advantage of a rotor/stator assembly while retaining the versatility of a single blade design. The inside sharp teeth shear pigments agglomerates and discharge materials at great speed and pressure through the slots and against the surfaces of the deflected rings. Mixing materials are quickly reduced in size with little heat accumulation.

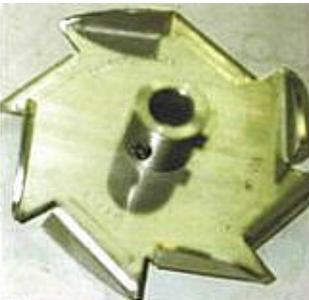


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The HSCC style blade produces high shear, pumping action, and size reduction similarly to HSF style blade. The curved teeth of the HSCC blade provide additional shear caused by centrifugal forces pushing the materials through the venturi formed by the roundness of the tooth.

The Poly Blades are best suited for the toughest dispersion applications where abrasive aqueous system such as ceramic, titanium dioxide, sand will immediately wear out standard high shear stainless blade. The Poly Blades, formulated from non-sparking and medium temperature materials (150 degrees F), should last other blades by a factor of 10 in most applications.

The HSF-H style is same as HSF style blade with the inclusion of a center hub with 2 set screws for mixing shaft attachment. This configuration may be used with blades up to 8" in diameter.

The HSE-H style is same as HSE style blade with the inclusion of a center hub with 2 set screws for mixing shaft attachment. This configuration may be used with blades up to 8" in diameter

The HSG-H style is same as HSG style blade with the inclusion of a center hub with 2 set screws for mixing shaft attachment. This configuration may be used with blades up to 8" in diameter

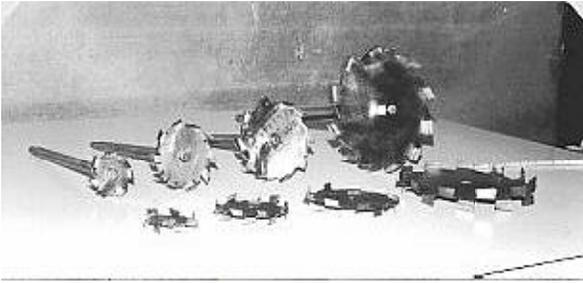


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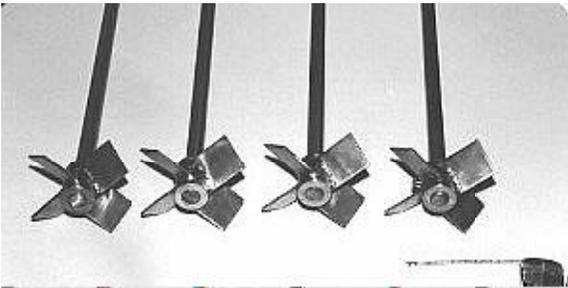
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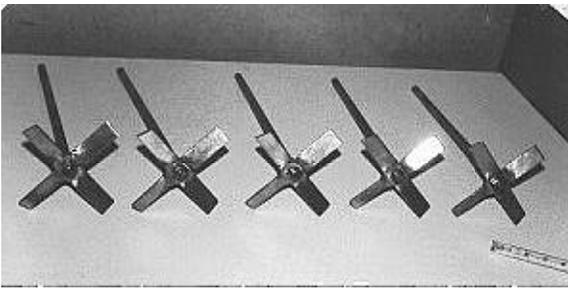


## MINI IMPELLERS & MIXING SHAFTS

High Shear Blades, Type HSF, HSE, HSG, & HSD. Available from 2" & up for most types.



Axial Flow Turbine (AFF). 4 pitched blades, 45 degrees. Available from 4" and up in stainless and carbon steel.



Axial Flow Turbine. 4 Pitched blades, 30 degrees. Available from 4" and up in stainless and carbon steel.



Shafts for Mini Impellers in SS304.  
Diameters from 3/8" to 7/8". Lengths from 9" to 20".

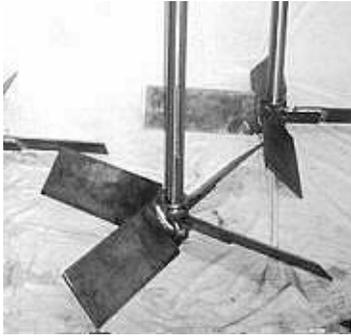


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## **TURBINES, MIXING & BLENDING**

Available in Carbon Steel, Stainless, and Hastelloy  
in diameters from 4" & up.

Type AFF for Axial Flow



Type SBT, Sweep Bow Tie with Risers



Type DEF, Butterfly, Sweeping



Type VHE, High Efficiency, Draws Less Power



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## **TURBINE, MIXING & BLENDING**

Available in Carbon Steel, Stainless Steel, Hastelloy in diameter from 4" and up. Carbon steel units may be coated with vulcanized rubber for maximum wear resistance against acids.

Helical, Type RB-1FB



Gate, Type GB-2F&D



Gate, type GB-3FB

Vulcanized Rubber Coated, Type AFF-4  
Hydrochloric Acid Resistant



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Blades Double Planetary  
Model DDP-RI-24/40-SS (Radial Flow)  
Model DDP-A1-24/40-SS (Axial Flow)

Stainless construction, polished.

Other sizes available on request.



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