

Stamo Agitation Solutions

Features

- Agitators are customized to each application and location
- Top, bottom, 45 degree and side entry agitators available
- Rigid shaft stand for larger agitators to house support bearing and minimize forces on gear box



Benefits

- Low energy consumption
- Minimal maintenance
- Over 60 years of experience in the agitation business

Engineered for Superior Strength and Energy Efficiency

Since 1949, Stamo has designed and constructed robust and energy efficient mixers for process solutions. One of Stamo's enduring innovations is the use of a square, hollow shaft for deeper applications. Stamo's hollow shaft is constructed of structural carbon steel which has several advantages over solid, round stainless steel shafts:

- Superior tensile strength
- 2x the fatigue life
- Lighter per foot of length
 - 85 foot shaft lengths without the need for lower bearings
 - Smaller and lighter bearings and improved harmonics
 - Less structural support required to install
 - Lower HP required to operate
 - Reduced installed cost

Stamo provides agitator shaft stands which:

- Minimize forces on the gear box
- Can be used as a bearing housing
- Undergo strength analysis using the Finite Element Method (FEM)



More Than 60 Years of Knowledge Backed by Modern Design Tools

Stamo uses Computational Fluid Dynamics (CFD) along with *Flow Calculate* which is a proprietary sizing program developed by Stamo to ensure each agitator meets the following guidelines:

- Is highly reliable
- Provides uniform mixing intensity in the entire liquid volume
- No plug flow
- Requires limited maintenance or spare parts

Square Shaft Stainless Steel Cladding for Superior Protection

Many water and wastewater applications – whether due to pH or other site-specific requirements – require all wetted parts to be stainless steel. Stamo meets this expectation by cladding each of its carbon steel hollow shafts with 304 or 316 stainless steel.

STEP 1: The square shaft is inserted into square cutouts in the mating flanges and welded into place (Fig. A).

STEP 2: The shaft is positioned on the horizontal plane to allow for easy welding access (Fig. B).

STEP 3: Factory bent stainless steel sections are placed on the square shaft and tack welded in place (Fig. B).

STEP 4: The cladding is then seam welded by hand to make a continuous, water-tight skin (Fig. C).

STEP 5: The welded cladding is meticulously checked for pinholes to ensure no moisture can penetrate the weld.

Stamo's innovation, precision, and knowledge produce a finished mixer product that is stronger, lighter and yet still protected from the harshest of environments (Fig. D).



Fig. A



Fig. B

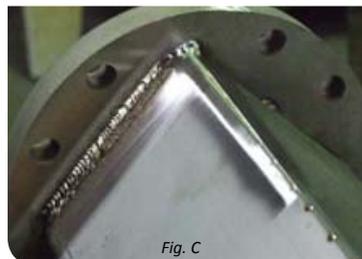


Fig. C



Fig. D

Rugged & Energy-Efficient Stamo Mixers Combined with Kruger Process Solutions

Kruger supports Stamo installations with an expert, US-based staff and warehouse facility, providing the assurance of local support for a world class mixer.

Contact your local Veolia representative for more information:

Kruger Inc.

4001 Weston Pkwy - Cary, NC 27513

Phone: 919-677-8310 - Fax: 919-677-0082

usmunicipal@veolia.com