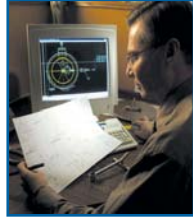


## QUADRO PROCESS PRODUCTIVITY SOLUTIONS

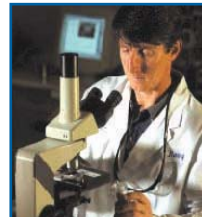
For over 30 years, Quadro has made an unparalleled commitment to delivering the highest production efficiencies, product quality and consistency to market leaders in the Pharmaceutical, Food, Fine Chemical, Personal Care and Cosmetics industries worldwide.



With the engineering experience gained from developing reliable application-specific solutions for major processors in more than 80 countries, our knowledge of size reduction and dispersion is unmatched.

In fact, meeting the evolving needs of our customers drives the development of some of the industry's most advanced processing technologies and systems – such as the *Quadro Comil*, *Quadro FlexSift*, *Quadro Fine Grind*, *Quadro Ytron* in-line mixers, dispersers and emulsifiers, *Quadro ShearFX*, *Quadro HV-Emulsifier* and *Quadro Vac* vacuum transfer systems.

Since 1976, Quadro has led the industry in research & development. Through the Quadro R&D Test Center we work



directly with our customers to run real-world tests of their processes on the latest Quadro equipment. The result has been technical breakthroughs that have changed the way many of our customers manufacture, and led to new global processing industry standards.

As the world's leading supplier of size reduction technology – with a vast global network of agents, distributors, OEMs and partners – Quadro provides a level of service and technical support that is unequalled in the industry. Our passion for technology is exceeded only by our dedication to meeting the needs of our customers.



## SIZE REDUCTION • FLUID MIXING • PNEUMATIC TRANSFER



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# Quadro® ShearFX

DEAGGLOMERATION • PRODUCT SMOOTHING • DELUMPING • EMULSIFICATION



# QUADRO® SHEARFX SERIES

## Control the balance between shear energy and pumping efficiency for a unique all-in-one process solution

Introducing a new line in shear pump technology, the Quadro® ShearFX extends the strengths of our existing deagglomeration and homogenizing product family into self-pumping applications. To the Food & Beverage, Personal Care and Pharmaceutical industries, Quadro® ShearFX is the brand of shear pump that offers more flexibility with a controllable balance between shear energy and pumping efficiency. With a simple tooling change you can tailor your process from high pumping capacity to higher shear energy.

### ENHANCED DEAGGLOMERATION AND PRODUCT SMOOTHING

In a head-to-head comparison on a lumpy guar gum slurry, a conventional shear pump failed to delump agglomerates below 3mm, whereas the ShearFX was able to remove all visible traces of lumps/fish-eyes.

### EXTENDING INTO EMULSIONS

The enhancement in ShearFX technology extends the use of shear pumps into new applications involving emulsions. (Refer to Figure 1)

### HYGIENIC DESIGN

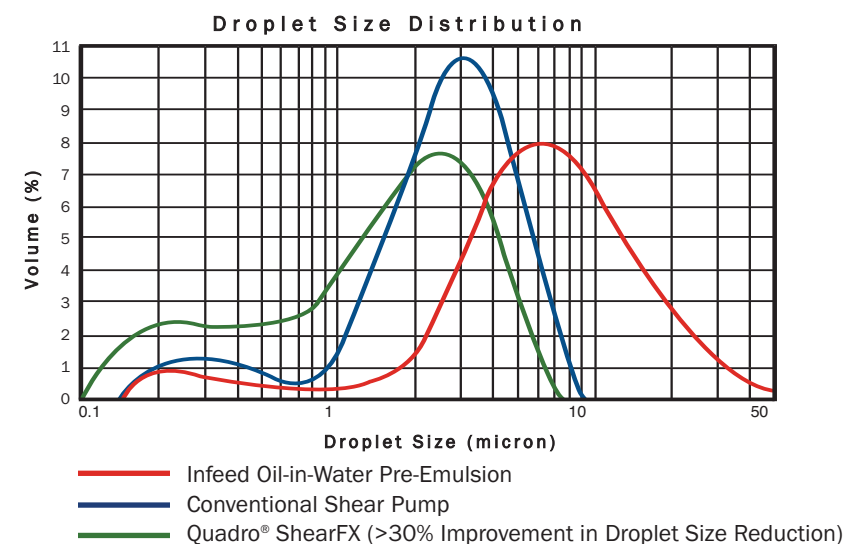
The design of the ShearFX pump and tooling offers ease of installation and maintenance while meeting stringent CIP and SIP hygienic standards.



### FEATURES AND CONSTRUCTION

- 316L stainless steel
- exclusive machined-in-place clamp style connections
- inlet/outlet ports integrated into the housing for ease of maintenance
- stainless steel flange adapter
- fully adjustable head orientation for installation flexibility
- exterior surfaces are polished for improved cleanability
- design can be changed from single to double mechanical seals without changing shafts or flange adapter
- all models comply with 3-A Sanitary Standards

**FIGURE 1 - MODEL EMULSION CHARACTERIZING ENHANCED SHEARFX PERFORMANCE**



### SPECIFICATIONS

		MODEL			
		FX2	FX3	FX4	FX5
Motor Size	(HP)	10	20	40	75
[Maximum]	(kW)	7.5	15	30	55
Flow Rate*	(gpm)	150	200	300	375
[Maximum]	(l/min)	570	760	1135	1420
Motor Speed	(rpm)	3600	3600	3600	3600
Inlet/Discharge	(in)	2.5/2	2.5/2	3/2.5	3/2.5
Fittings	(mm)	65/50	65/50	80/65	80/65

\*Maximum flow rates are based on water pumping. Actual capacity may vary depending on tooling selection and product characteristics.