

TUFFDiSC™
Future of Pumping



Simple Pumps for Delicate and Tough Products

TUFFDiSC pumps offer maximum performance, efficiency and durability, thanks to an innovative and efficient and open design that reduces clogging and prevents excessive pump wear due to abrasion, high viscosity, corrosion & cavitation.

TUFFDiSC pumps are uniquely designed and manufactured, it has series of parallel discs called disc plates that rotate and create a highly viscous resistant boundary layer. This generates a unique non-pulsating laminar-flow, non-impingement pumping system.

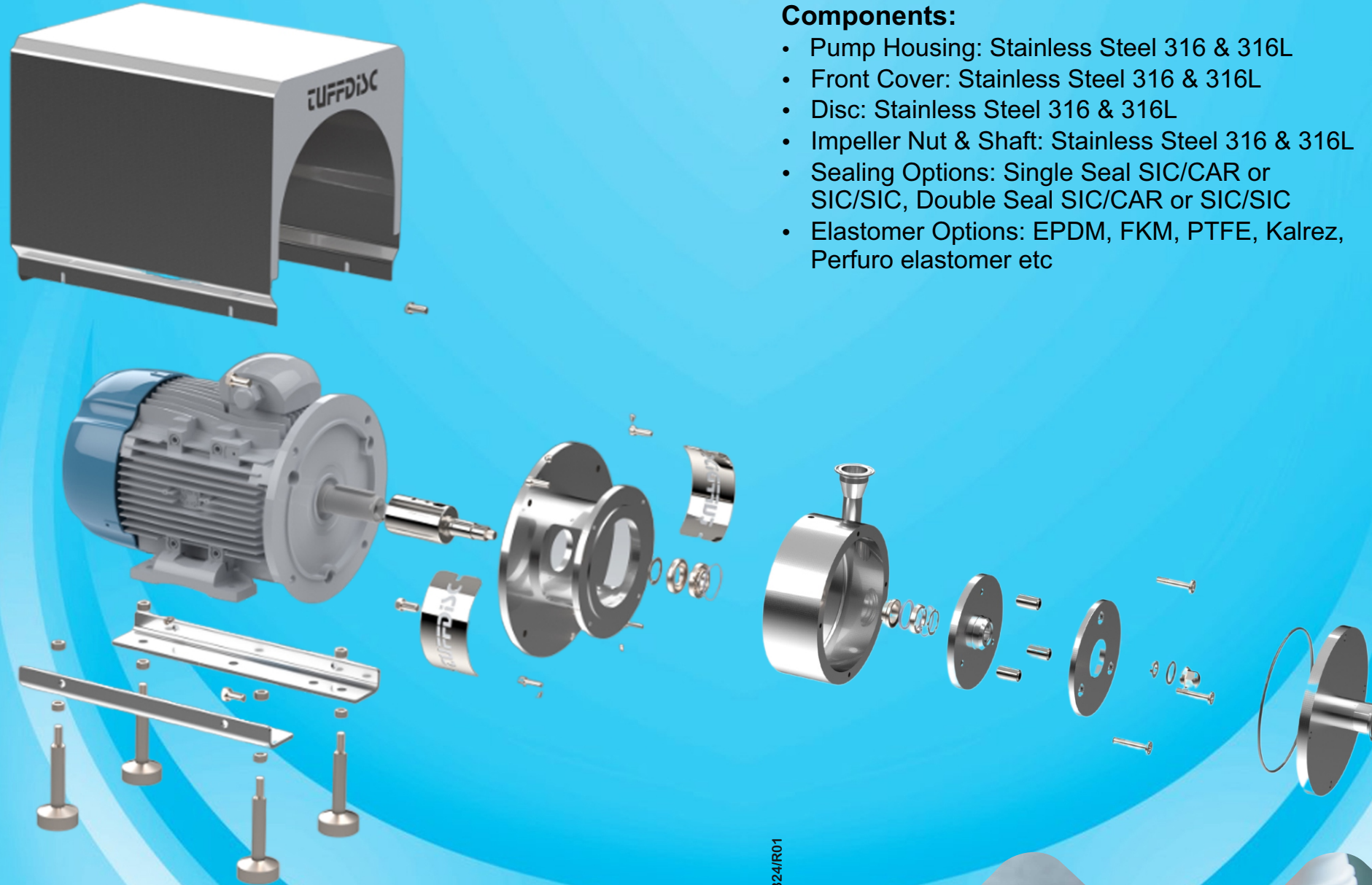
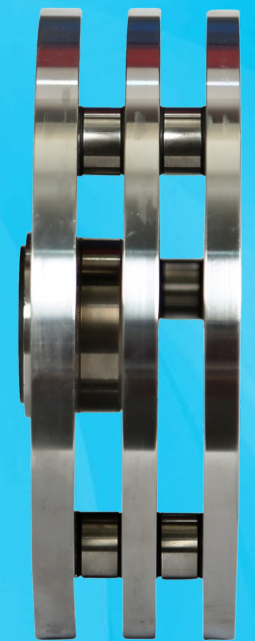
TUFFDiSC pumps are suitable for pumping shear sensitive products, solids and gaseous foams, as well as more severe applications with high viscosities and high solid contents with a harsh abrasion.

Specifications:

- Capacity up to – 300 m3/hr
- Head up to – 240 meter
- Connections – 1.5" to 4"
- Solid Size up to – 3"
- Viscosity up to 200,000CPS
- Temperature up to 150° C

Components:

- Pump Housing: Stainless Steel 316 & 316L
- Front Cover: Stainless Steel 316 & 316L
- Disc: Stainless Steel 316 & 316L
- Impeller Nut & Shaft: Stainless Steel 316 & 316L
- Sealing Options: Single Seal SIC/CAR or SIC/SIC, Double Seal SIC/CAR or SIC/SIC
- Elastomer Options: EPDM, FKM, PTFE, Kalrez, Perfuro elastomer etc



Features:

- No Close Tolerances
- Lesser Radial & Axial Loads
- Non-Impinging Design
- No Pulsations & Laminar Flow
- High Viscosity capability
- Open design for greater ease in assembly & prevent clogging

Benefits:

- Greater efficiency
- Lower parts wear, low maintenance
- No damage to delicate and shear sensitive products
- Can easily pump large & stringy solids
- No vibrations or excessive noise
- Low NPSH required

DOC. NO.: CAT/TUFFDiSC/2324/R01

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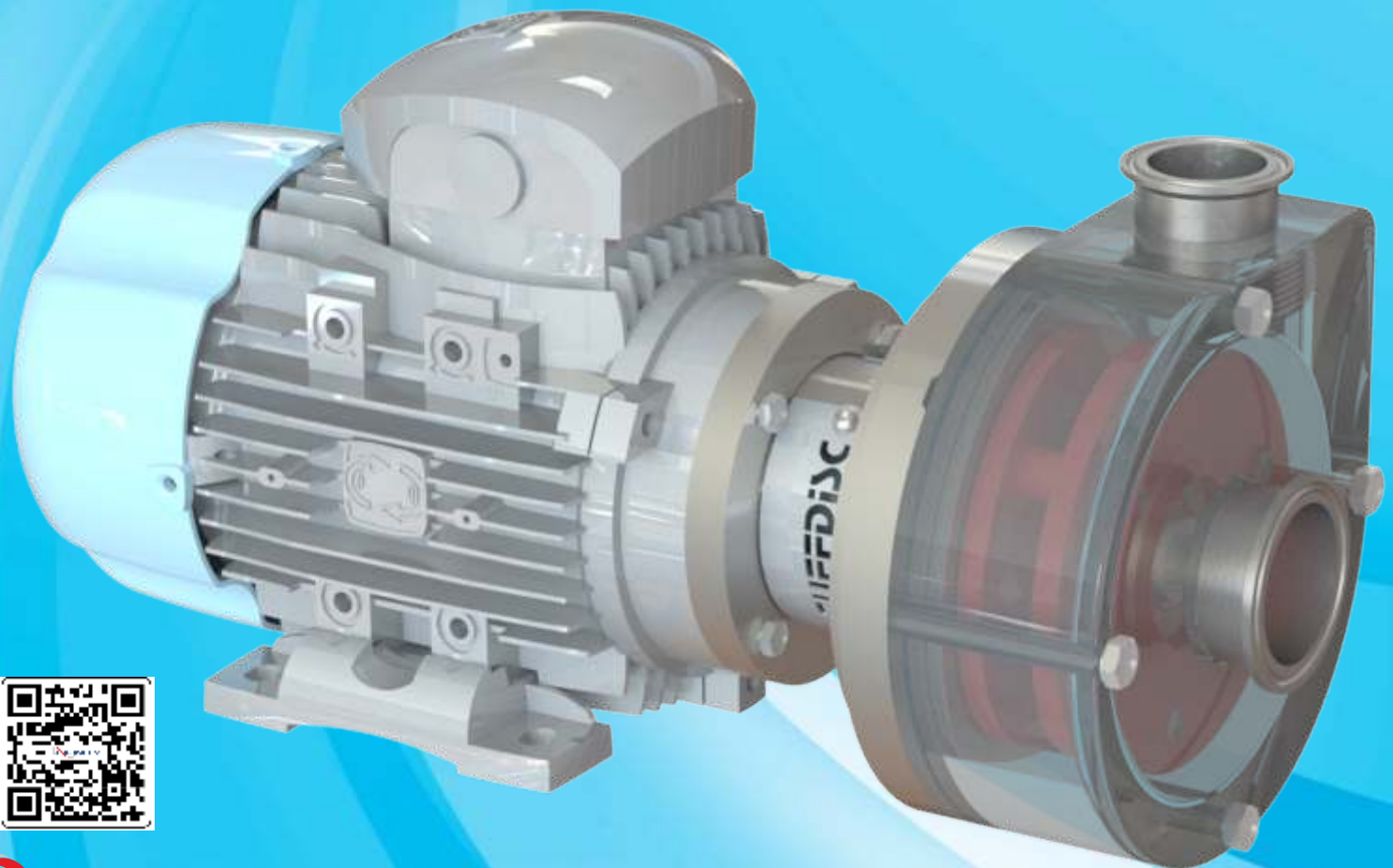
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Applications:

- Apple Butter, Butter & Peanut Butter
- Banana Puree, Puree-Fruit
- Beer
- Potato Slurry
- Candy Premix
- Caramel
- Corn-Whole, Corn-Slurry, Rice-Whole
- Dairy product
- Edible Oils, Palm Oil
- Fruit Pulp & Chunks
- Honey
- Malt Syrup
- Margarine
- Mayonnaise
- Milk Concentrate
- Olives
- Shrimp
- Sliced Potatoes
- Soft Drink Syrup
- Orange Pulp
- Syrup-Corn
- Syrup-Sugar
- Tomato Paste
- Sauces
- Vegetable Whole
- Whey Concentrate
- Yeast Slurry
- Yogurt
- Soybean
- Ice-Cream
- Mustard
- Salad Dressing
- Cheese Spread
- Cake Premix
- Cream
- Chocolate
- Protein
- Jams & Jellies
- Muffin Mix
- Bakery Sludge
- Sorbitol
- ALS
- Scrubs
- Hair Oils
- Hair Colour
- Hair Gel
- Wax
- Essential Oils
- Shampoo
- SLES
- Body Wash
- Face Wash
- Moisturiser & Lotion
- Hand Wash
- Liquid Soap
- Liquid Oral – Cough Syrups
- Eye Drops
- Nasal Sprays
- Suspensions
- Glycerin
- Polypropylene Glycol



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