

Industrial Mixing Technology
Build with Heavy Duties Sumitomo Cyclo Drive



Hydrofoil Propeller A335



Static Mixer



Rubber Lined Paddle Propeller



ISO 9001/EN29001, BS5750 part 1 and JIS Z9901-1991 standard Gear Reducer

AGMA standard Gear

IEC Standard driver

L-10 Bearing life

Features of N-Spindle Mixers

1. Continuous operations is possible with N-Spindle high quality and durability of materials and design
2. Space saving, Light weight and Easy installations & maintenance
3. Low operations and maintenance cost
4. Lubrications either in grease type or oil lubrications, depends on model and size
5. Various impeller size, revolutions and impeller designs to suit wide ranges of applications.
6. Stable performance, low noise and low vibrations with cyclo drive
7. Long lift span of cyclo drive gear motor and durable bearing lantern.
8. Various installations mounting plates are available from Din flange, ANSI Flange, M plate and any custom mounting plate.
9. Bearing life span are rated 100,000 hours, L-10 life.
10. All motor are selected with IEC standard or NEMA standard.
11. All gear reducer are certified with AGMA compliance.
12. Agitator seal design with FKM rubber seal, Gland seal and Mechanical seal
13. N-Spindle agitators are design with simplifies and user friendly routine maintenances. Technicians able to change mixer bearings without required lifting up the shaft and propellers. We adopted “hangs on shaft” design for all our H series.
14. Various materials availabilities to meet specify environments and design. Common material are SS 304, SS316, Rubber liner and FPR Lining shaft and propellers
15. Each and individual mixer are shop tested before delivery to all customer to ensure reliable and trusted qualities control.



Rubber Lining Shaft



General Applications:

- *Rapid Mixing
- *PH adjustment
- *Solid suspensions
- *Dilutions
- *Blending
- *Coagulations
- *Avoid settlement process
- *Many other process and applications
- *Chemical mixing
- *Flocculation
- *Neutralizations
- *Slurry handling
- *Polymer

N-Spindle Propeller Designs:

N-Spindle has various type of propeller design to meet difference type of applications, viscosity and environments. Each of this N-Spindle propeller design would generated difference type of flow pattern, shear stress, solid suspension possibilities and gas dissolved applications.



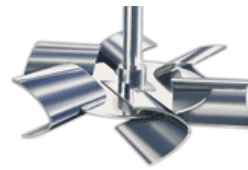
Rushton, 2 to 8 Blades, D types
* Good for immiscible liquids



Turbine, 4 Blades, A4 type
* General purpose – Rapid mixer, chemical blending and solid suspensions.



Turbine, 3 Blades, HA type
* Light weight light, high efficiency



Rushton, 6 Blades, G type
* Gas dissolved applications
Impeller for general purpose



Marine propeller
* Best for high speed mixer which demand
For high efficiency of turbulent flow



Turbine, 2 Blades, P2-type
* Common paddle impeller for
flocculation's



Turbine, 4 Blades, GA4H type, pump down/up
* A cost effective impeller for both turbulent,
Laminar and solid suspension application



High Efficiency Propeller, A335
Multipurpose mixing installations

Arrangements and type of design:

Type of Mixers: - Top mounted agitators, series, NS, NSD, NSH and NSB
 Portable C-Clamp agitators, NSC type
 Air motor agitators, NSA series

Materials: - SS 304, SS 316, SS 316L, Teflon coated, Rubber lining & FRP lining

Top Mounted Agitators:

N-Spindle top mounted mixer consist of Gear driven (NS & NSH), belt driven (NSB), direct motor driven (NSD) and air motor driven (NSA) type of agitators. Horse power ranging from 0.1kw to 7.5kw for common size of selection; please contact us for further details of selections.



Top mounted – Long Shaft



Belt Type



Top mounted – short shaft

C-Clamp Mounted Agitators:

N-Spindle C-Clamp mounted agitators, (NSC), power ranging from 0.1kw to 1.5kw, TEFC, class F, 3/50/415. Standard materials are SS 304, 316 & Rubber liner



PORTABLE MIXERS



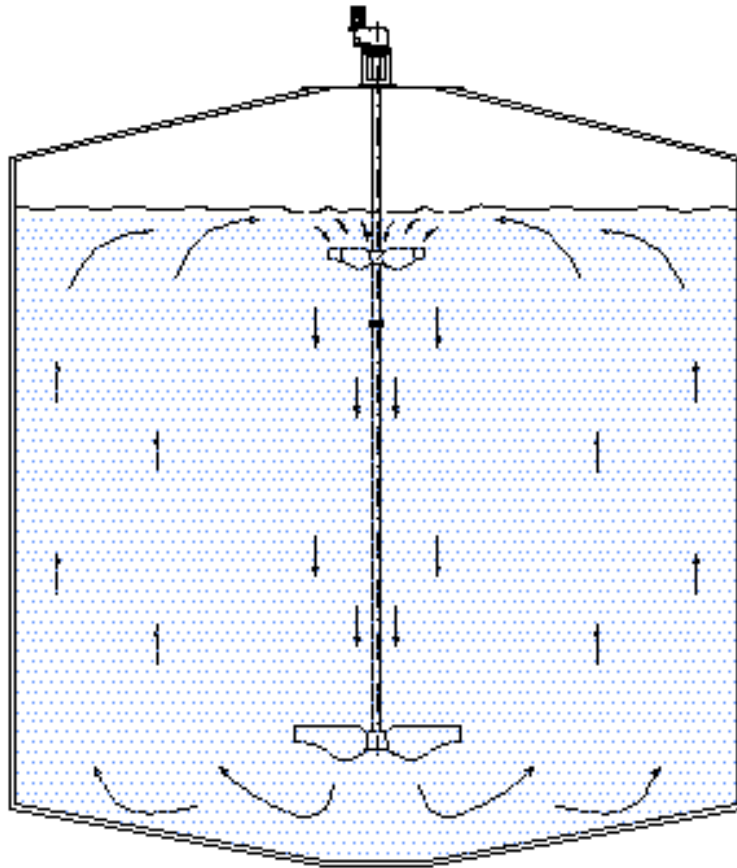
Static mixers:

N-Spindle static mixers with PVC, SS 304 & SS 316 size from ½" to 12" in common size. Please refer to local agent for more info and selections.

N-Spindle (NS) Photos



Flow Pattern of General Mixing installations



Performance Warranty:

All products are design with 18 months manufacturing limited warranty, excluded of wear & tie parts, transport and labors.

Please request details of warranty from local agent or distributors.

Your local distributor: