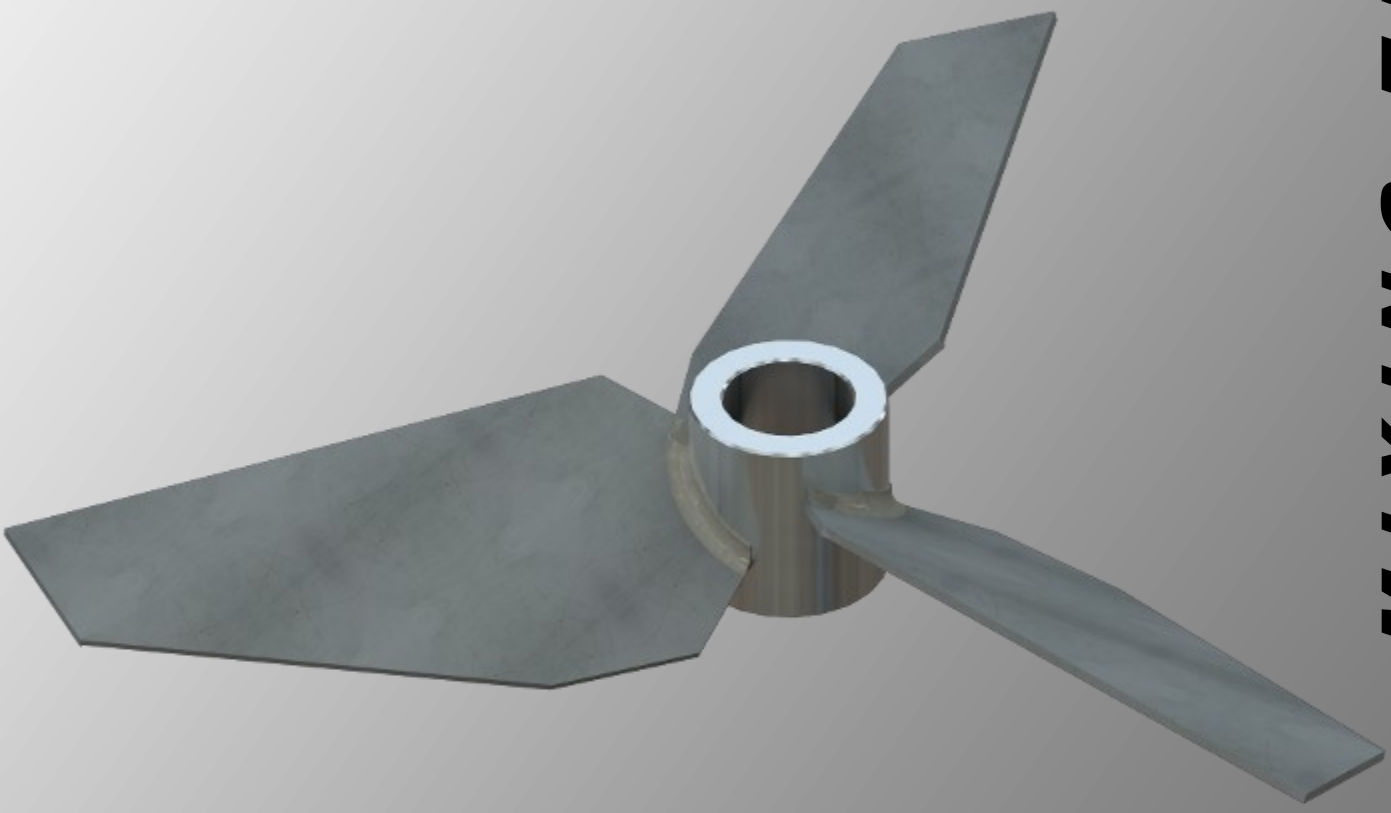
JM Engineering

Impeller Range

MIXING TECHNOLOGIES



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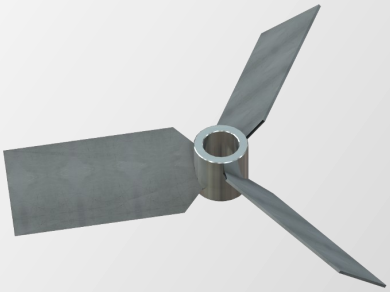
Axial Flow Impellers

MIXING TECHNOLOGIES

A-Series

Hydrofoil impellers produce low shear rates while maintaining high axial flow rates.
These impellers are suited to agitation, heat transfer and flocculation in low viscosity fluids.
These highly versatile impellers are available in a range of sizes from 200mm to over 6m and available in 2, 3 or 4 blade configuration.

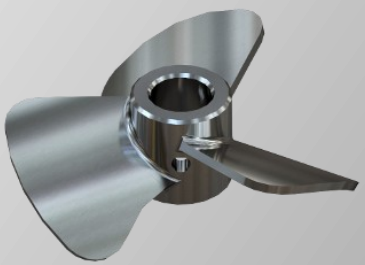


P-Series

Pitch blade turbine impellers produce a higher shear rate than hydrofoils while maintaining reasonable axial flow rates.
These impellers are ideal for applications requiring aggressive agitation in low viscosity fluids. P-Series impellers are available in a range of sizes from 200mm to over 6m and available in 2, 3 or 4 blade configuration.

F-Series

Folding impellers present an effective solution for mixing in vessels with narrow openings, such as storage drums and IBC's. F-Series impellers automatically open on rotation.
These impellers are best suited to agitation, heat transfer and flocculation. Smaller folding impellers are based on a marine style impeller while larger versions are based on a hydrofoil design.



M-Series

Marine style impellers are best suited to smaller mixing tasks such agitation, heat transfer and flocculation in small batch applications.
The curved blades profile increases efficiency while maintaining outstanding results.

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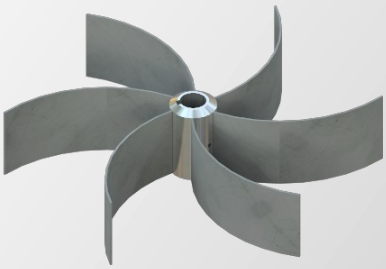
Radial Flow Impellers

MIXING TECHNOLOGIES

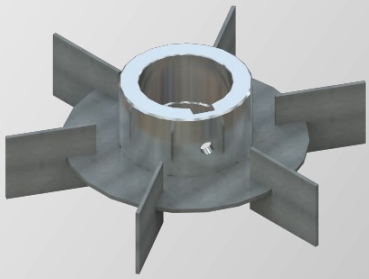
R-Series

R-Series impellers are suited to applications requiring a higher shear rate than axial flow impellers, such as gas dispersion and liquid-liquid emulsification.
These impellers may also be employed for low level mixing or mixing in particularly shallow vessels where radial flow is preferable to axial flow.



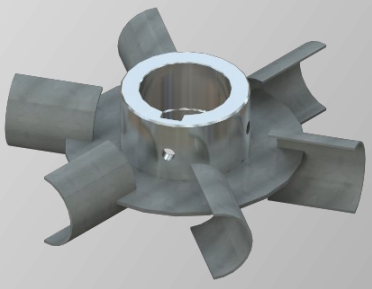
RS-Series

Similar to the R-Series, RS-Series impellers feature a swept-back blade design. This produces a highly efficient radial flow pattern reducing the required power.
These impellers are also employed where solid snagging is a concern.
RS-Series impellers are available in 4 or 6 blade configurations.



RT-Series

Commonly known as the *Rushton Design*, RT-Series impellers are best suited to gas dispersion applications. This style of impeller is available in 4 or 6 blade configuration to cater for a variety of mixing tasks.



RC-Series

Similar to the RS-Series of impellers, RC-Series impellers are also designed for gas dispersion tasks.
The curved blades allows this impeller to handle larger gas volumes than the RT-Series.
RC-Series impellers are available in 4 or 6 blade configurations.

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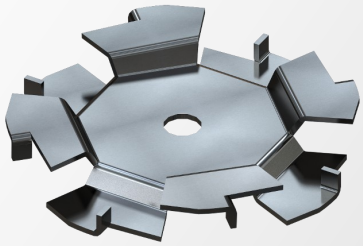
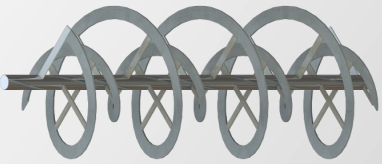
Special Application Impellers

MIXING TECHNOLOGIES



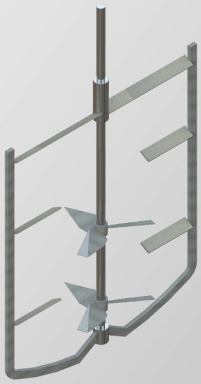
HS-Series

HS-Series impellers produce ultra high shear rates for dispersion and homogenisation. These impellers are often paired with an axial flow impeller to blend a variety of fluids.
The HS-T impeller features tungsten-carbide tipped blades for the toughest mixing tasks. Matched with a high powered mixer, these impellers are unstoppable.



Ribbon

Ribbon impellers are an effective solution to heat transfer and blending of dry bulk materials, such as grains, powders and soils.
This style of impeller may be incorporated into a stand-alone ribbon blender or integrated into a vessel such as a grain silo.
Ribbon impellers feature a reverse double-helical flat blade for multi-direction fluid flow.



Anchor

For ultra high viscosity fluids, anchor impellers present a mixing and heat transfer solution. This style of impeller is usually integrated into a round vessel and may feature scraper-blades to reduce build-up on the side of the vessel.
This style of impeller is best suited to mixing of fluids such as pastes and slurries.

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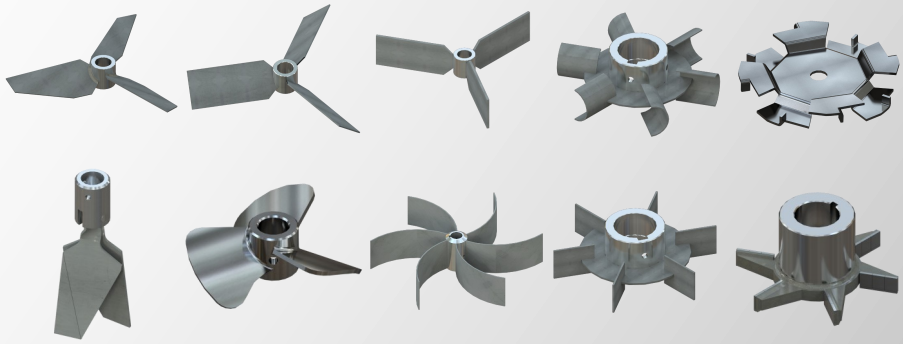
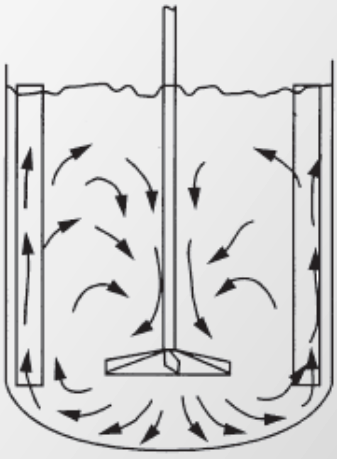
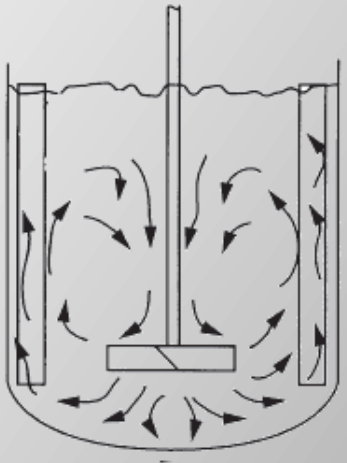
Impeller Selection



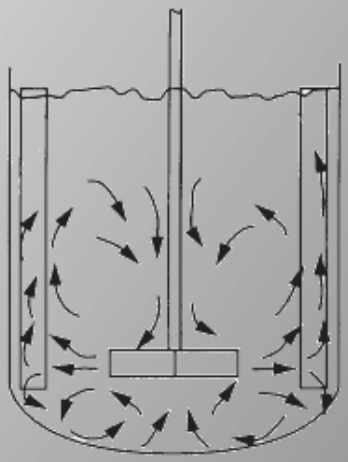
Higher Flow **Higher Shear**



Axial Flow Impellers



Turbine Impellers



Radial Flow Impellers

Above: Impeller selection can greatly influence the effectiveness and efficiency of the mixing process. Each impeller promotes a unique flow pattern within the tank. Contact JM Engineering to discuss your mixing needs.

JM Engineering Mixers

JM Engineering also designs, manufactures and supplies a complete range of industrial mixers. See our *'Mixing Technologies - Mixers'* brochure for further details of this range or visit us online at jmengineering.com.au

MIXING TECHNOLOGIES

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Enquiry

Please complete as much of the form below as possible and return the completed form via email (sales@jmengineering.com.au) or fax (+612 9757 4138). A JM Engineering representative will contact you to discuss your process requirements.

Contact Details

Name _____ Company _____

Email _____ Phone: _____

City _____ Country: _____

Fluid(s)

Viscosity _____ Specific Gravity _____

Temperature _____ Flow Rate _____

Process

Agitation Heat Transfer Flocculation Solid Suspension Homogenisation Blending

Other _____

Existing Vessel

Shape _____ Dimensions: _____

Fluid Depth Min: _____ Max: _____

Existing Mixer

Shaft Diameter _____ Shaft Length: _____

Power _____

Other Information

_____

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MIXING TECHNOLOGIES

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