■Contact Sheet

Company name	Fax address & E-mail
Tel No.	Sumitomo Heavy Industries Process Equipment Co., Ltd Sales Department
Installation location and factory	☐Tokyo Office FAX : +81-3-6866-5123
Manufacturing base	Contact : Tto_Arika@shi.co.jp

Mixer							
Product Inquiry	□LvBLEND □RfBLEND □MAXBLEND □Others ()				
Use of equipment	□Pre-processing □Polymerization & reaction □Post-processing	☐Storage tank ☐OI	hers ()				
Purchase	□Compacting of mixer □Increased shear strength □Improved gas ab	sorption and dispersion perfo	ormance Olhers ()			
Tank size	Tank inner diameter IDmm × Shell length T.L	mm (jacket inner diamete	r I,D mm)				
Operating fluid volume	m³	Fluid density Fluid visc	osity	kg/m³ mPa • s			
Gas flow rate	m³/hr						
Solid particle	Slurry concentration wt% Particle size μm Tr	rue specific gravity	[-]				
Various speed operation	□Without □With ⇒ A) Inverter B)Beier variator C) Others ()					
RPM	□As specified (rpm - rpm) □As recommende	ed by us					
Motor rating	□As specified (kW) □As recommended by us						
Power source	V Hz	Explosion-proof class	□Exn □Exe □Exde	□Exd □Non-explosion proof			
Inverter option	□Not required □Required (AC reactor, DC reactor, noise filter)						
Shaft sealing method	□Double mechanical seal □Single mechanical seal □Gland seal □	Magnet seal					
Sliding material		Sealant fluid C	orrosiveness (□Yes or □No)			
Shaft sealing and pressurizing method	□N3 pressure tank □OPU (oil pressure unit) □Not required						
Shaft blade material	□SUS304 □SUS316 □SUS316L □Other materials ()				
Shaft blade surface finishing	□Acid wash □Buffing/# □Electrolytic polishing (Ry	μm)					
Lower bearing	□Installation not permitted □Installation permitted						

		Tank					
	Shell side Jacket side			Coil side			
Applicable regulations and standards	□ASME □PED □Others	□ASME	□PED □Others		□ASME	□PED	□Others
Contents							
Design pressure	MPa•G	i	MPa·G				MPa•G
Design temperature	0(С	°C				°C
Main materials							
Upper mirror plate form	□2:1 ellipse □10% dish □Roof pla	ate Others ()				
Lower mirror plate form	□2:1 ellipse □10% dish □Conica	l (vertical angle:) Dthers ()			
Coil specifications	Size: B Reel diameter:	mm Pitch: mm No-	of steps: steps				
Tank interior surface finishing	□Acid wash □Buffing/# □Electrolytic polishing (Ry μm)						
Main unit support legs	□Lug □Leg □Skirt Shell flange □Without □With						
		Spare	N 20				
Seal-related	Seal unit × % Consumable parts × % Gland packing × %						
Lower bearing	Bush % Sleeve x %						
Gasket	For shell flange x % For man-hole x % For sight glass x %						
Others	Shell () × %						
		Remarks					

■Contacts



Headquarters 1501, Imazaike, Saijo-city, Ehime 799-1393 TEL: +81-898-64-6936 FAX: +81-898-64-6977

Tokyo Office (Sales)

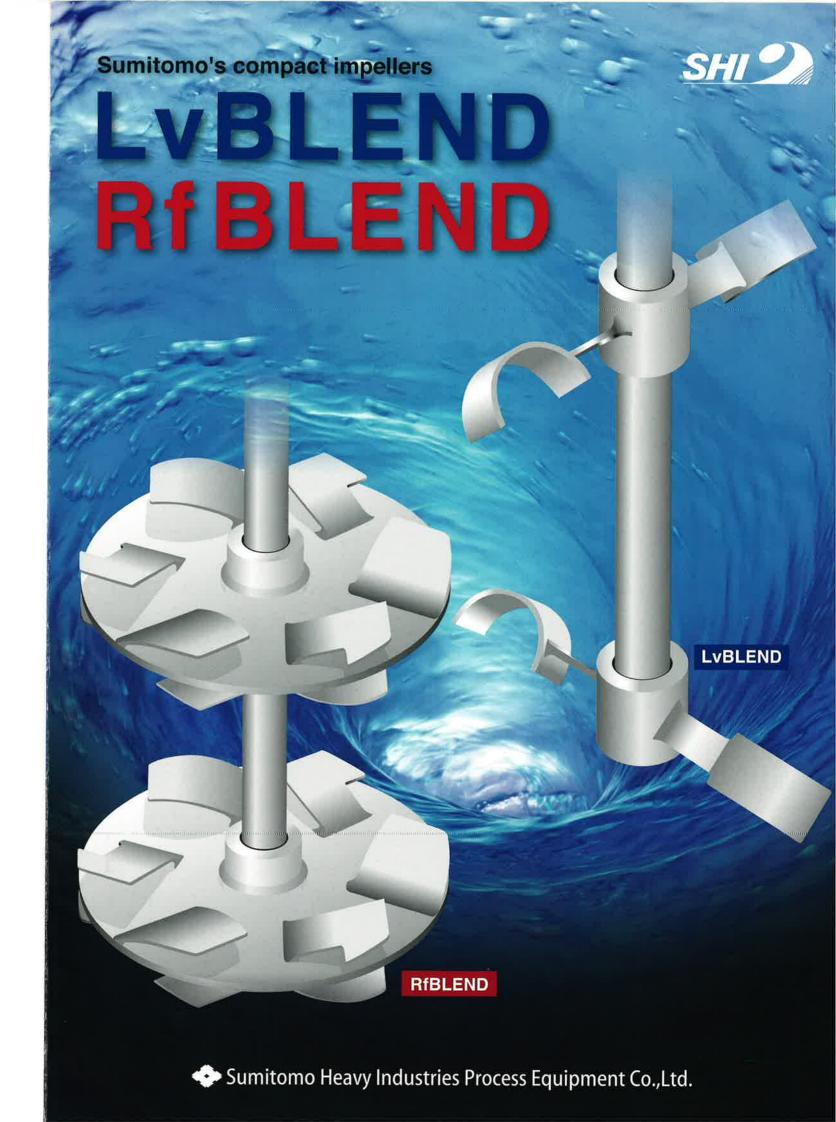
25F, ThinkPark Tower, 1-1 Osaki 2-chome, Shinagawa-ku, Tokyo 141-6025

TEL: +81-3-6737-2680 FAX: +81-3-6866-5123

Osaka Office (Sales)

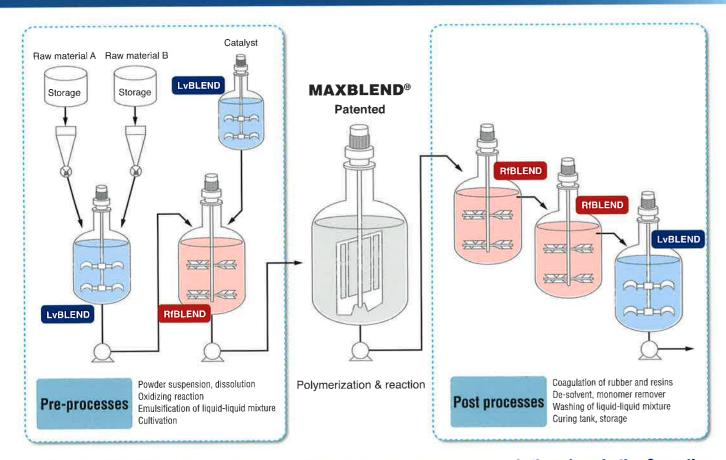
10F, Osaka Mitsui Bussan Building, 3-33 Nakanoshima 2-chome, Kita-ku, Osaka 530-0005

TEL: +81-6-7635-3685 FAX: +81-6-7711-5117



Sumitomo's comprehensive line-up of mixing equipments, from the main reactor to the peripheral devices!

1. With our unique, compact impellers, expanding the domains that we can support



Sumitomo's compact impellers are recommended for both pre and post processes in the polymerization & reaction

2. Characteristics of Sumitomo's compact impellers

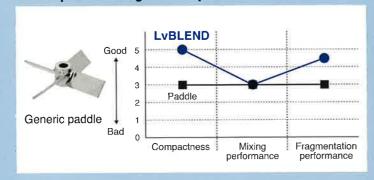
More compact mixing impellers with superior fragmentation and gas absorption performance while maintaining the same level of mixing performance as generic impellers.

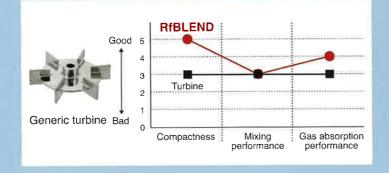
Sumitomo's new line-up





Comparison with generic impeller

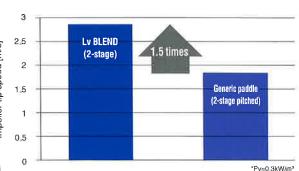




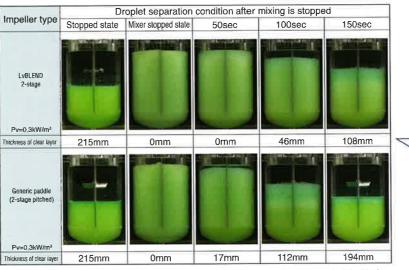
3. LvBLEND - Sumitomo's high shear impellers -

- High performance and more compact (low torque) ! (reduction in initial cost and running cost)
- Shortening in operating time thanks to the high shearing effect! (improved productivity and yield)
- Contributes to an improvement in product quality!
 (high quarity product finishing with no lumps)

Impeller tip speed



■ Comparison of droplet separation performance with a generic paddle



Due to the high shearing effect of LvBLEND, the droplets are fragmented and remains in a highly dispersed state even after the mixer is stopped

(Test conditions) Prepare a water and kerosene mixture with a ratio of 1:1, keep the Pv value constant and mix for 20 minutes

4. RfBLEND - Sumitomo's high gas absorption impellers -

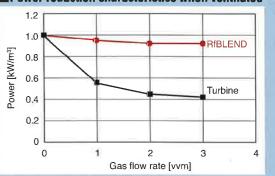
- High performance and more compact (low torque) ! (reduction in initial cost and running cost)
- High gas absorption performance! (productivity can be improved with increasing the gas flow rate)
- Stable performance against changes in the gas flow rare! (reduction in the vibration of the mixer and risk of the motor tripping)

Compacting example of drive unit

	Generic turbin	RfBLEND
Drive unit external view		
Motor capacity	75kW	37kW
Weight of drive unit	2800kg	1600kg
Height of drive unit	2.85m	2.15m

*Compared at a fluid volume of 30m and a PV value of 0.7kw/m (ventilated state)

■Power reduction characteristics when ventilated



■ Gas absorption performance characteristics

