

HADO-SATAKE MULTI SMIXERS

S3~S9 Series

200



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Hado has established its present reputation as a prominent manufacturer of high-quality mixers through more than 32 years of uncompromising research and development efforts. To continually meet customer demands, Hado continues to develop widely-ranging expertise based on its various measuring techniques which other mixer manufacturers cannot offer. Both domestically and abroad, Hado has consolidated its operation bases as the industry's pioneer and its exports are growing steadily. Furthermore, the company is strictly committed to ensuring the safety and quality of its products so that they can always be relied on with complete confidence by their users.



Technical Excellence and Reliability through Hado's Safety and Quality Control System

C+O+N+T+E+N+T+S

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Mixers of the New Century



By making the best use of advanced measuring techniques, flow visualizing methods, image analyzing systems, Laser Doppler Velocity meters (LDV) and Computational Fluid Dynamics (CFD). Hado has further upgraded the reliability, functionality and safety of its mixers. The company's mixer series has been newly joined by those which allow for safe and easy removal of mechanical seals in case of need. Hado is pleased to present the latest lineup of its superb new-generation mixers. Mixers are made more compact through • the rearrangement of gear arrays.

- Substantial cost reduction is made possible through the increased use of common parts.
- The combination of rotation speed and motor output can be set in 17 different steps, a range far greater than that of preceding models.
- The newly-developed 3-bladed axial
- flow, 1-stage impeller achieves a high discharge coefficient and a low drag coefficient. This simplified impeller provides even higher performance than 4bladed pitched paddle, 2-stage impellers.
- 5. These mixers can be used with any type of motor sold on the market.
- 6. With some of these new mixers, mechanical seals can be easily attached or detached without removing the mixers from their place of installation.



S5 top-mount mixer with removable mechanical seal system





Impeller Performance Comparison

Туре	4-blade pitched paddle $\theta = 45^{\circ}$	HR320	HR320S
Motor output Np [-]	1.10	0.42	0.52
Discharge flow coefficient Nqd [-]	0.63	0.62	0.60
Discharge flow per power unit Nqd/Np ^{1/3} [-]	0.61	0.83	0.74
Required power per unit discharge flow Np/Nqd ^a [-]	4.40	1.76	2.41
Ratio of maximum discharge flow velocity to blade tip speed Vmax/Vtip	0.43	0.33	0.39

(Note) Above performance comparison made with C/d of 1.0 (C: Impeller installation height, d: Impeller diameter)



Impellers that Embody Our Commitment to Detail

Multi S Mixer Impellers

Impellers play an integral part in the mixing mechanism. Our mixers come with 3-bladed axial flow-single stage impellers for use in the low Reynolds number range as well as for general use based on our high-tech measurement research using the Laser Doppler Velocity Meter (LDV). By optimally combining the motor output (Np value) and discharge coefficient (Nqd value), 1-stage HR320 impellers can provide better performance than 4-bladed pitched paddle, 2stage impellers.

HR320 Impeller



By mounting the mixer off center, the angular advance of the impeller causes the liquid to flow in the axial direction. Also, by slightly changing the bending angles from the root of the blade through the leading edge, flow separation from the rear surface of the blade is minimized and high discharging flow is obtained. The discharging capacity has been improved by more than 70% compared with our conventional 4-bladed pitched paddle, 2stage impellers, thus achieving energy saving.

 By directly welding the impeller to the mixing shaft instead of key cutting the steel plate welded impeller boss, the impeller and the mixing shaft can be inserted directly into the mixing tank in one unit through the mounting flange. Thus, the mounting process has been simplified. (HR320 HR320S)







blade by image processing

AF100 Impeller (Side-mount Type)

AF100 features an air-foil cross section obtained after a series of studies and experiments aimed at improvement of the blade discharge performance. It features a flat blade with a skewback, designed to minimized impact fluctuation due to inherent cavitation. This impeller reduces the impact fluctuation during rotation, to dramatically increase the discharge efficiency. This makes the AF100 an ideal choice for sidemount agitators.

- · Stainless steel casting.
- Integral casting (up to 680mm blade diameter) and assembled version (for blade diameters over 700mm).



HR320S Impeller



Patent pending in U.S.A. and Taiwan

The impeller's surface pressure control function and large attack angle, combined with its advance blade effect, prevent surface peeling. In addition, the double-blade structure similiar to that of the slotted flaps and leading-edge slats of an airplane increases the discharging velocity.

This impeller is especially suited for the agitation of solid and liquid mixtures.

MR205 Impeller



Utility model patent pending in Taiwan

The major pressure gap generated between the positive pressure portion of the main blade and negative pressure portion of the auxiliary blade produces strong discharging flow in the radial direction even with a highlyviscous liquid. Also, by installing the impeller with its larger diameter end at the bottom, a strong upward stream can be generated from the tank bottom toward the liquid surface.

It is ideally suited for mixing liquids which differ in their specific gravity and viscosity, as well as for suspension and polymerization of high-density slurries.



Ensuring Safety and Quality Control

Hado's mixers all carry A labels to indicate that we are actively involved in the comprehensive safety control and quality assurance system with due consideration given to the PL (Product Liability) Law. Our quality assurance system covers the entire process from product development all the way through to the sale and after-sale services. Each independent process of this system is adeptly handled by the sections and departments in charge which have their established quality assurance programs.

Hado's R&D and other sections are staffed by highly-skilled and experienced personnel. The company's techniques and expertise based on such human resources are effectively implemented at its plants which are complete with various high-tech equipment and inspection facilities including FMS.

This is why Hado's Multi S Mixers, produced under strict safety and quality control, can always be relied on by their users.



Consult Us to Select Optimal Models that Meet Your Desired Applications

Top-mount Model Variations (50 Hz)

									Motor ou	ıtput (kW)							
	Speed (rpm)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
	350					S3	S3	S4	S4	S5	S5	S5					
One-step	280					S3	S3	S4	S4	S5	S5	S5					
gear	230(*)				S3	S3	S4	S4	S5	S5	S5						
reduction	190(*)				S3	S3	S4	S4	S5	S5	S5						
	155			S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
Two-step	125		S3	S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
	100		S3	S3	S4	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
reduction	84		S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S7	S8L	S8L	S8H
10000000	68		S3	S3	S4	S5	S5	S5	S6	S6	S6	S7(*)	S7(*)	S8L(*)	S8L(*)	S8H(*)	
reduction	56									S6	S7(*)	S7(*)		S8L(*)	S8H(*)		
	56	S3	S3	S4	S4	S5	S5	S6	S6				S7				
	45	S3	S3	S4	S5	S5	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H
. .	37	S3	S4	S4	S5	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H	S9H
Inree-step	30	S3	S4	S4	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H	S9H	
reduction	25	S3	S4	S5	S5	S6	S6	S7	S7	S8L	S8L	S8H	S9L	S9H	S9H		
	20	S4	S4	S5	S5	S6	S6	S7	S7	S8L	S8H	S9L	S9H	S9H			
	16.5(*)	S4	S5	S5	S6	S6	S7	S7	S8L	S8H	S9L	S9H	S9H				
	13.5(*)	S4	S5	S5	S6	S7	S7		S8H	S9L	S9H	S9H					

(*) in the above table indicates 6P motor

Top-mount Model Variations (60 Hz)

									Motor ou	itput (kW)							
	Speed (rpm)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
One-step	350					S3	S3	S4	S4	S5	S5	S5					
gear	280(*)				S3	S3	S4	S4	S5	S5	S5						
reduction	230(*)				S3	S3	S4	S4	S5	S5	S5						
	190			S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
- .	155			S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
Two-step	125		S3	S3	S3	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
reduction	100		S3	S3	S4	S4	S4	S5	S5	S6	S6	S6	S7	S7	S8L	S8L	S8L
	84		S3	S3	S4	S4	S5	S5	S6	S6	S6	S7(*)	S7(*)	S8L(*)	S8L(*)	S8L(*)	
	68									S6	S6	S7(*)	S7(*)	S8L(*)	S8L(*)	S8H(*)	
	68		S3	S3	S4	S5	S5	S5	S6								
	56	S3	S3	S4	S4	S5	S5	S6	S6	S7	S7	S7	S7	S8L	S8H	S9L	S9L
- .	45	S3	S3	S4	S5	S5	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H
Inree-step	37	S3	S4	S4	S5	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H	S9H
reduction	30	S3	S4	S4	S5	S6	S6	S7	S7	S7	S8L	S8H	S8H	S9L	S9H	S9H	
	25	S3	S4	S5	S5	S6	S6	S7	S7	S8L	S8L	S8H	S9L	S9H	S9H		
	20(*)	S4	S4	S5	S6	S6	S7	S7	S8L	S8L	S8H	S9L	S9H	S9H			
	16.5(*)	S4	S5	S5	S6	S6	S7	S7	S8L	S8H	S9L	S9H	S9H				

(*) in the above table indicates 6P motor

Side-mount Model Variations (50/60 Hz)

			Motor output (kW)											
		Speed (rpm)	3.7	5.5	7.5	11	15	18.5	22	30				
	50	350		S3	S3	S4	S4	S5	S5	S5				
• •	Hz	280(*)		S3	S3	S4	S4	S5	S5	S5				
One-step		230(*)	S3	S3	S4	S4	S5	S5	S5					
reduction	60	350		S3	S3	S4	S4	S5	S5	S5				
100001011	Hz	280(*)	S3	S3	S4	S4	S5	S5	S5					
		230(*)	S3	S3	S4	S4	S5	S5	S5					

*S3 series: Up to 132MJ base size for motor installation (flange outside diameter: 300). *S4 series: Up to 160LJ base size for motor installation (flange outside diameter: 350). *S5 series: Up to 200LJ base size for motor installation (flange outside diameter: 450). *(*) in the above table indicates 6P motor



Shaft Sealing System Variations

The following shaft sealing systems are available.

P1 P2

Gland Packing Seal

P1 type

- Tank temperature: 100°C or less
- Tank pressure: Atmosphere
 This system is not pressure tight. It is suitable for simple sealing.
- P2 type

 Tank temperature: 100°C or
- less • Tank pressure: 0.3 kgf/cm²G(2.94 x 10⁻²MpaG) or less
- Suited for use under low tank pressures.



P4 type

less

or less

• Tank temperature: 100°C or

kgf/cm²G(9.81 \times 10⁻²MpaG)

seals off the flow leakage

while the packing at the front end seals off the lubricant.

Tank pressure: 1.0

Inject the lubricant

Gland Packing Seal

P3 type

- Tank temperature: between 100°C and 170°C
 Tank pressure: 0.3
- kgf/cm²G(2.94 \times 10²MpaG) or less • Suited for use under the
- Suited for use under the tank temperature of 80°C or more periodically through the middle portion of the gland packing. The packing at the rear end of the lantern ring



Single mechanical seal Dry mechanical seal

(For use in vacuum type mixing M2 type tanks)

- M1 type
- Tank temperature: 100°C or less
- Tank pressure: F.V~0.3 kgf/cm²G(2.94 \times 10⁻²MpaG) or less
- Generally used in vacuum type mixing tanks where leakage must be avoided. Provides excellent sealing.

 Tank temperature: 150°C or less
 Tank pressure: F.V~1.0 kgf/cm²G(9.81 × 10⁻²MpaG) or less

Does not require the use of any sealant and thereby is ideal when the mixture or reaction between the sealant and the tank gas or liquid must be avoided.



Gland packing seal

(The surfaces exposed to gas or liquid are either lined or coated) P5 type

- Tank temperature: 100°C or less
- Tank pressure: 0.3 kgf/cm²G(2.94 x 10-2MpaG) or less
- Various metal linings and coatings (hastelloy, stellite, colmonoy, hard chrome plating, ceramic) are applied on the sliding surface of the gland packing.



Double mechanical seal (Unbalanced type)

M3 type

- Tank temperature: 300°C or less
- Tank pressure: F.V~9.9 kgf/cm²G(0.97 MpaG) or less(Balanced type)
- Tank temperature: 300°C or less
- Tank pressure: F.V~10 kgf/cm²G(0.98 MpaG) or less
- Generally used in an environment where leakage must be avoided. Provides excellent sealing under high/low temperature, high pressure and vacuum conditions.

or less • Suited for use un tank temperature more

The Following Shaft Sealing Systems Are Available (Side-mount Type).



Gland packing seal (provisional seal)

P7 type

- Tank temperature: 100°C or less
 Tank pressure: 1.0 kgf/cm²G(9.81 x 10²paG) or less
- · Gland packing can be replaced while tank is full.

Gland packing seal (standard)

P6 type

Tank temperature: 100°C or less
 Tank pressure:1.0 kgf/cm²G(9.81 x 10²paG) or less



Gland packing seal (for slurry applications)

P10 type

- Tank temperature: 100°C or less
- Tank pressure: 1.0 kgf/cm²G(9.81 x 10 $^{\circ}$ paG) or less
- The shaft surface at the seal is hardened and flushing water is introduced (2 to 3 liters/min) to prevent slurry from entering the seal.

Gland packing seal

P9 type

- Tank temperature: 100°C or less
- Tank pressure: 1.0 kgf/cm²G(9.81 x 10⁻² MpaG) or less
- Inject the lubricant periodically through the middle portion of the gland packing. The packing at the rear end of the lantern ring seals off the flow leakage while the packing at the front end seals off the lubricant.



Gland packing seal (forced cooling)

P8 type

- Tank temperature: 100°C and 170°C
 Tank pressure: 1.0 kgf/cm²G(9.81 x10²paG) or less
- Cooling water introduced in jacket for tank temperatures over 80°C.



Single mechanical seal

M6 type

- Tank temperature: 100°C or less
- Tank pressure: 3.0 kgf/cm²G(2.94x 10 $^{\circ}$ paG) or less
- Generally use where leakage must be avoided. Provides excellent sealing.

Single mechanical seal + Gland packing

M5 type

- Tank temperature: 100C or less
- Tank pressure: 3.0 kgf/cm²G(2.94x 10²paG) or less
- If the mechanical seal fails, the gland packing is retightened to seal the tank contents.

Compact, Lightweight and Economical, Hado's Multi S-Mixers Embody the Needs of Today

One-step gear reduction







Because Hado makes every effort to improve the quality of its products, the product delivered to you may differ somewhat from the shape or specifications of the product described in this catalog.

Standard Dimensions (Top-mount Type)

	0	Mo	otor	Dimensions (mm)												Approximat	e weight of								
	Series	4P	6P	0.D	P.D	O.S	P.S	G	N-fZ	N.S	fZS	F	E	н	J	L	A	В	С	D	M	mixer main un weight in	it (kg) (Motor bracket)		
	S3	5.5 7.5	3.7 5.5	350	310	350	305	24	12-23	4	24	55	137	510	-	200	162	119	214	402	400 400	224 224	(80) (80)		
One-step	S4	11 15	7.5	400	355	400	350	26	12-25	4	24	65	157	579	-	200	175	138	216	444	485	313 333	(110)		
reduction		18.5	15																		575	528	(195)		
	S5	22 30	18.5 22	445	400	445	395	28	16-25	4	26	85	207	683	-	250	208	176	251	522	575 615	528 558	(195)		
		0.75	-												-				109		260	149	(17)		
	S3	1.5 2.2	-	400	355	400	350	26	12-25	4	24	55	137	364		200	162	224	105	402	312 328	156 163	(24)		
		3.7	-												12				125		355	181	(48)		
		0.75	- 0.75												-				115		260 312	194 201	(17)		
	S4	2.2	1.5	400	355	400	350	26	12-25	4	24	65	157	391	12	200	175	239	125	444	328	208	(30)		
		3.7 5.5	-												10	-			150		305 400	259	(40)		
		7.5	-												10				150		400	259	(80)		
		3.7	2.2												12				141		355	331	(30)		
	S5	5.5 75	-	445	400	445	395	28	16-25	4	26	85	207	453		250	208	287	150	522	400	362 362	(80)		
		11	-												18				175		485	385	(110)		
		15 5.5	- 3.7																		525 400	405 537	(130)		
		7.5	5.5												18				175		400	537	(80)		
	S6	11 15	-	490	445	490	435	28	16-25	4	28	105	237	553		300	251	346		623	485	560 580	(110)		
		18.5	-																		575	696	(195)		
		30	-												205				200		615	726	(225)		
		-	5.5																		400	807	(80)		
	S7	15	11												18				180		525	850	(110)		
Two-step		18.5 22	-	560	510	560	490	30	16-27	4	35	35 120	275	656	205	350	265	381	200	680	575	966	(195)		
gear		30	22																200		615	996	(225)		
•		37 45	30 37												260				225		660	1,110	(325)		
Three- step gear		18.5	-												205				201		575	1,309	(130)		
reduction		30	18.5								-				205	5			201		615	1,339	(225)		
	S8L	37 45	-	620	565	-	-	32	20-27	-		130	295	727		350	290	429	225	762	660	1,453	(325)		
		55	45												260						685	1,470	(365)		
		75 90	55 75																275		975 1.075	1,740	(630)		
		22	15																		575	1,399	(195)		
		30	18.5 22												205				201		615	1,429	(225)		
	S8H	37 45	-	620	565	-	-	32	20-27	-	-	150	335	727		350	290	429	225	762	660	1,543	(325)		
		55	-												260						685	1,560	(365)		
		- 90	55 75																275		975 1.075	1,830	(630)		
		30	18.5												217				208		615	2,067	(225)		
		37	30												241	-			225		660	2.167	(325)		
	S9L	45 55	-	745	680	-	-	34	20-33	-	-	160	347	833		400	353	530		921	685	2.212	(365)		
		75	-												276				275		975	2,482	(630)		
		90	- 22												217				208		1,075 615	2,572	(720)		
		37	30	22 30 37 45 - -											241				225		660	2,297	(325)		
	S9H	45 55	45		- 745	745 680	680 -	-	-	34	20-33	-	-	- 180	30 395	395 833 -		400 353	353	530	30	921	685	2,342	(365)
		75	55 45 75 - 90 -													276			275	275		975	2,612	(630)	
		30																				1,075	2,702	(120)	

*Dimensions J and C marked with asterisks in the table are based on the fully-closed, external fan, indoor-type motor made of HYOSUNG. Those dimensions may vary in the case of a safety-added explosionproof motor and explosionproof motor type of 22 kW or more. Also those dimensions may vary depending on the motor manufacturer. *Dimension M marked with an asterisk and machine weight are based on the fully-closed, external fan, indoor-type motor made of HYOSUNG.





Nozzle Dimensions for Mounting (Side-mount Type)

Refer to the table below when mounting a side-mount agitator onto a steel agitation tank. If the tank thickness does not provide sufficient strength, use hanger bars, supports, or other appropriate reinforcements.

											unii	• 11011
Series	Nozzle size	А	В	С	D	Е	F	G	Н	J	t	Ζ
S3	225 ^A	350	310	241.8	50	9.0	750	9	120	22	12	23
S4	250 ⁴	400	355	267.4	55	9.3	850	9	130	24	12	25
S5	300 ^A	445	400	318.5	55	10.3	950	12	150	24	16	25



Standard Dimensions (Side-mount Type)

			Motor	No. of					Dimension	s mm					Weight
	Series S3 S4	Speed (rpm) output(kW)	polarities	O.D	P.D	N-ØZ	G	F	L	Н	С	М	D	(kg)
			5.5	4									400	500	241
		350	7.5	4									400	530	242
			5.5	4									400	530	242
	63	280	7.5	4	Ø 350	Ø310	12-23	47	55	550	533	745	400	600	246
	00	200	3.7	6	~ 000	- 010	12 20	-11		000	000	1-10	400	500	241
			5.5	6									400	530	242
		230	3.7	6									400	590	247
		200	5.5	6									400	650	250
		350	11	4									485	590	337
		000	15	4		ø310					604	885	525	630	360
	S4	280	11	4									485	650	342
			15	4	ø 350		12-23	51	65	650			525	680	367
			7.5	6									485	600	338
One-step gear reduction			11	6									525	650	362
one stop godi roddollori		230	7.5	6									485	680	338
			11	6									525	740	377
			18.5	4									575	650	573
		350	22	4									575	680	578
			30	4									615	710	617
			18.5	4									575	710	587
			22	4									575	740	588
	S5	280	30	4	ø445	ø400	16-25	53	85	850	708	994	615	790	611
			15	6									575	680	578
			18.5	6									615	710	617
			22	6									615	740	618
		230	15	6									5/5	/90	591
			18.5	6									615	830	627
			22	6									615	860	631

Estimated mixer unit weight and Dimension M are based on a fully-closed, external fan, outdoor motor manufactured by HYOSUNG.

Easy Replacement of Mechanical Seal Is the Feature We Are Proud of

Easily Replaceable Mechanical Seals

- You can easily replace mechanical seals without removing the reduction parts of the mixers even when they are installed under a low ceiling.
- 2. Reduction parts can be swung to the side so that the mechanical seal unit can be pulled off upward without any interference.
- Due to the substantial reduction in maintenance time, prolonged stoppage of the operation can be avoided, thus contributing to a higher operation rate.
- 4. A winch complete with a simple support is optionally available for pulling up and removing the mechanical seal unit.
- The mechanical seal unit can be removed for safe disassembly, repair, reassembly and leak test at a location away from the operation site.
- 6. We also offer simplified mixers with a removable mechanical seal system that are not equipped with a gear reduction rotation mechanism (Fig 3). For these models, a winch or other device installed at the mixer installation site can be used to remove the gear reduction unit.(Other mechanisms are identical to those of standard models.)

Advantages of the Mechanical Seal

The mechanical seal system is generally used in an environment where leakage must be avoided. It provides excellent sealing performance even under high temperature and high pressure conditions.

- 1. Virtually no leakage (3ml/h or less).
- 2. The end face contact reduces the sliding area, thereby minimizing friction loss and power consumption.
- 3. No damage to the drive shaft.
- Can be used under high PV value conditions.(Unbalanced type: 9.9 kgf/cm²G, Balanced type: 10 kgf/cm²G)
- 5. Can withstand continual operation over 1 to 2 years.
- By employing the cooling device, it can be used in high temperature liquids (up to +300°C). It can also withstand use in low temperature liquids(-50°C).
- 7. Retightening and torque adjustment is not necessary.











2. Pulling up

- Fasten the tap for push-up bolt 5) into the adapter frame.
- Fasten the bolt at the swivel bottom 6) and the tap for pushup bolt 5) alternately.
- The frame portion and the reduction gear unit are separated.

1. Preparation

- Set the tank pressure to normal.(Dangerous gases must be displaced inside container.)
- Mount the set plate 1) to the mechanical seal sleeve.
- Loosen the sleeve set collar 2).
- Loosen the rigid coupling connecting bolt 3)
- Loosen the adapter frame connecting bolt 4)





MULTI SMIXERS 🕒

Featuring Operational Ease, Convenience and Prolonged Life









Approximate weight of ixer main unit (kg) (Motor weight in bracket) Motor output(kW) Dimensions mm Serie 4P 6P O.D P.D G N-Ø7 C* D Ρ S* M* F F H₂ B κ H₁ Т Α 3.7 (80) 5.5 S3 12-23 7.5 5.5 (80) 7.5 (110) One-step S4 12-25 (130)dear 18.5 (195) reduction (195) S5 16-25 (225) (17) 0.75 -(24)-S3 12-25 -(30) 3.7 (48) 0.75 (17)-0.75 (24)2.2 1.5 (30) S4 12-25 3.7 (48) -5.5 (80)(80)1.5 2.2 (30)(48)5.5 (80)S5 16-25 (80) 7.5 -(110) -(130)3.7 (80) 5.5 7.5 (80) 5.5 (110)S6 16-27 1,076 (130) -18.5 -1,073 (195) 1,103 (225) (80) 5.5 1,283 7.5 1.256 (110) 1,276 (130) 18.5 -S7 20-27 1,183 1,392 (195) Two-step gear 1,422 (225) reduction 1,536 (325) Three-step gea 1,982 (195) reduction 2,012 (225) 18.5 -S8L 20-33 1,319 2,126 (325) 2,143 (365) 2,413 (630) 1.075 2,503 (720) 2,117 (195) 18.5 2,147 (225) S8H -20-33 1,379 2,261 (325) 2,278 (365) 2,548 (630) 2,638 (720) 1,075 18.5 3,112 (225) 3,212 (325) S9L 1,532 24-33 1,143 3,262 (365) -3,527 (630) 1,075 3.617 (720) 3,327 (225) 3.447 (325) S9H 24-33 1,612 1,143 3,492 (365) 3,762 (630) 1,075 3,852 (720)

Standard Dimensions (Top-mount Type)

*Dimensions J, C and S marked with asterisks in the table are based on the fully-closed, external fan, indoor-type motor made of HYOSUNG. Those dimensions may vary in the case of a safety-added explosionproof motor and explosionproof motor type of 22 kW or more. Also those dimensions may vary depending on the motor manufacturer. *Dimension M marked with an asterisk and machine weight are based on the fully-closed, external fan, indoor-type motor made of HYOSUNG.





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