



**TEIKOKU** Canned Motor Pumps

World's Leading Manufacturer of Canned Motor Pumps

# Supersize Canned Motor Series

ISO 9001 CERTIFIED  
ISO 14001 CERTIFIED

The world's largest  
Canned Motor Pump

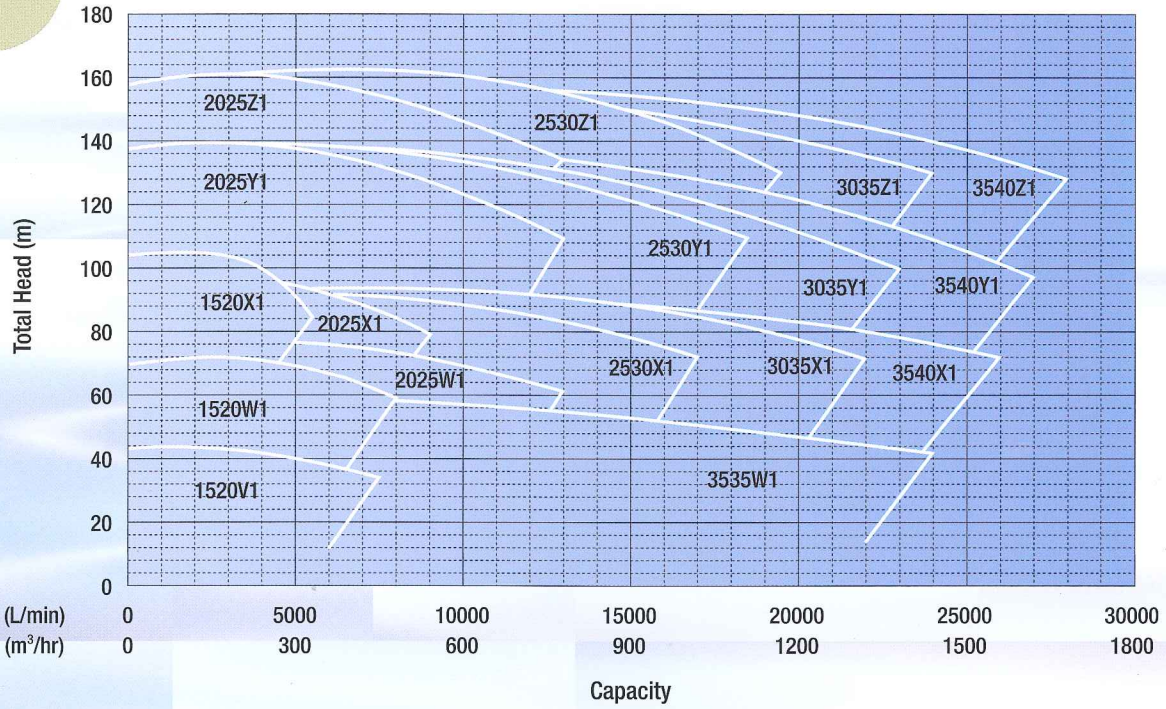


# Pump performance Curve

60Hz

## Pump Performance Curve

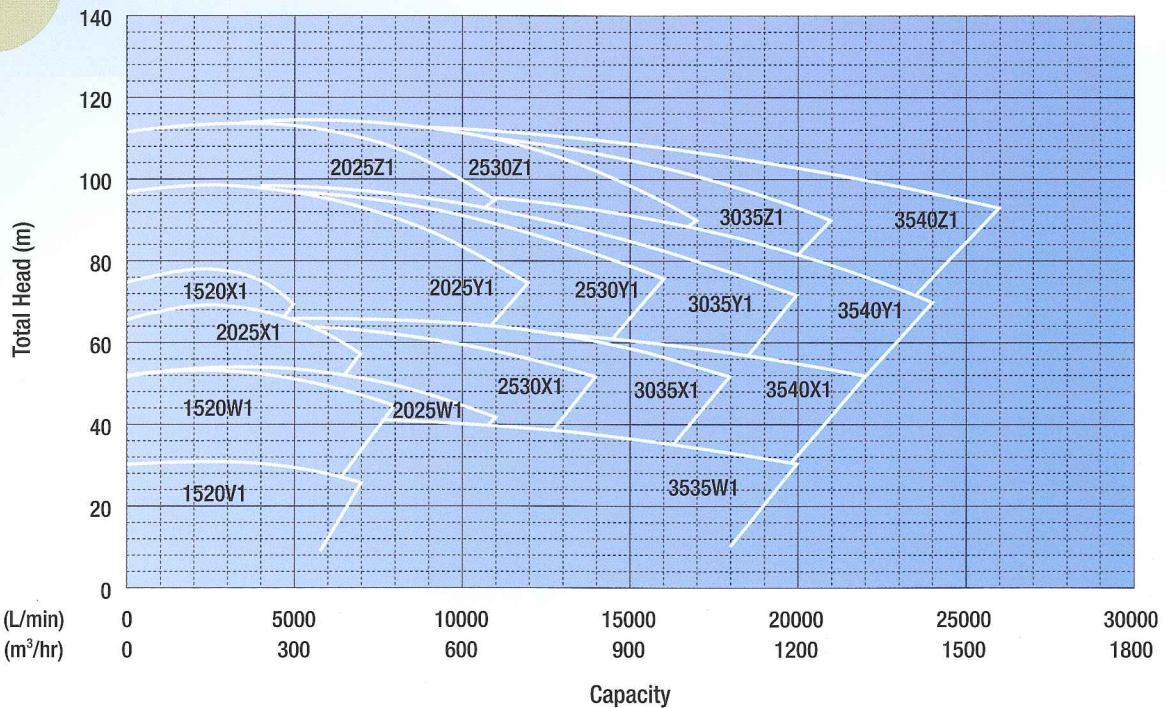
60Hz 1740rpm  
S.G.=1 Vis.=1cP



50Hz

## Pump Performance Curve

50Hz 1450rpm  
S.G.=1 Vis.=1cP



# Supersize Canned Motors' Specifications

## 2-Poles LV Motors (380~460V)

Motor Frame No.	Rated Power (kW)	Rated Current (A)				Permissible Liquid Temperature (°C)				Cert. Number
		50Hz		60Hz		Ex dIIC T3		Ex dIIC T4		
		380V	400V	440V	460V	H	C	H	C	
2811	105	224	213	187	179	118	—	118	—	PTB04 ATEX 1114
	110	—	224	216	207					
	120	—	—	227	218					
	105	240	227	219	210	107	—	107	—	
	110	—	240	227	218					
	120	—	—	245	234					
2814	120	273	259	246	235	—	—	—	—	—
	132	—	292	268	262					
	146	—	314	291	284					
	160	—	—	314	306					
2816	170	400	380	334	320	—	—	—	—	—
	180	—	405	371	363					
	200	—	—	405	395					

## 4-Poles LV Motors (380~460V)

Motor Frame No.	Rated Power (kW)	Rated Current (A)				Permissible Liquid Temperature (°C)				Cert. Number
		50Hz		60Hz		Ex dIIC T3		Ex dIIC T4		
		380V	400V	440V	460V	F	H	F	H	
3922	150	340	331	300	293	—	Heatproof Class C220	—	Heatproof Class C220	LCIE09 ATEX 3017X
	160	358	347	315	308					
	185	406	391	353	344					
	200	436	418	377	366					
	210	—	436	394	381					
	220	—	—	410	397					
	235	—	—	436	420					

## 4-Poles HV Motors (3000~4600V)

Motor Frame No.	Rated Power (kW)	Rated Current (A)					Permissible Liquid Temperature (°C)				Cert. Number
		50Hz		60Hz			Ex dIIC T3		Ex dIIC T4		
		3000V	3300V	3300V	4000V	4600V	F	H	F	H	
1125	200	74	67	68	56	49	—	—	—	—	—
	250	84	76	78	64	56					
	280	95	86	87	72	63					
1225	315	105	95	97	80	70	—	—	—	—	—
	355	116	105	106	88	76					
1227	400	126	115	116	96	83	(63)	(83)	(63)	(83)	—
	550	168	153	155	128	111					

※Please consult, except for the above-mentioned voltage range.

## Specifications - General

Applicable Pump Models	F (Basic Design)	
	B (High Temperature Isolation Type)	
	D (Slurry Seal Type)	
Flow-rate	Max 25 m <sup>3</sup> /min	
T.D.H.	Max 150 m	
Design Pressure	Max 17 MPa	
Handling Fluid	Temperature	Max 400 °C
	Viscosity	Not more than 100 cst (1 × 10 <sup>-4</sup> m <sup>2</sup> /s)
Motor Output	Max 550 kW	
Power Source Voltage	L.V.	3Φ -50/60 Hz -380 ~ 460 V
	H.V.	3Φ -50/60 Hz -2300 ~ 4600 V
Insulation Class	L.V.	H, 220
	H.V.	F, H
Explosion Proof Structure	Ex-Proof	Exd IIC T 3 & T 4 (ATEX)
	Structural Standard	d 2 G 3 & G 4
Applicable Protection	T H G (Bearings' Wear Monitoring Device)	
	R T D (Pt100)	

## Standard Material

Parts Names	Main Material	
	SUS304	SUS316
Casing Adaptor	SCS 13	SCS 14
FB Housing	SCS 13	SCS 14
Impeller	SCS 13	SCS 14
RB Housing	SCS 13	SCS 14
Motor Flange	SUS 304 L	SUS 316 L
Stator Can	Alloy - C276	
Rotor Can	Alloy - C276	
Bearing	Carbon Graphite	
Shaft Sleeve Thrust Collar	SUS 316 + Stellite	
Other Wetted Parts	SUS 304 · SUS 316	SUS 316
Non-Wetted Parts	SS, FC, etc.	

Besides the above-listed, other corrosion-resistant alloy such as SUS304L, SUS316L, or other

# The New World Largest Canned Motor Pump is Born.....

## Ultra Large Flow-rate & High-Pressure-Resistant

Now our canned motor pump can cover up to 25m<sup>3</sup>/min.(1,500m<sup>3</sup>/h) in capacity and 17MPa in design pressure.

\*If MWP exceeds 17MPa, please consult with us.

## Compliant to International Ex-Proof Standard (ATEX)

As well as smaller size relatives, it can comply to the global QA & safety standards.

## Teikoku's Excellent THG is standardized

As electric bearing-wear monitor, Teikoku Hybrid Guardian (THG), which detects built-in bearings' radial & axial running wear level at real-time basis and enables remote monitoring & control by its



## Max-Motor Output 550kW

Our newly-built large machine tool shop and large size test facility has made the production of canned motor pump of this size, which exceeds the past record by twice, possible.



## No leakage, No VOC emission

Only hermetically-sealed canned motor pumps make it possible. Safety for the people & respect to the Mother Nature.





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ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification



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