



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



TEIKOKU ELECTRIC MFG. CO., LTD.

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 25m³/min.(1,500m³/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 output control signal, is equipped as standard.



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.

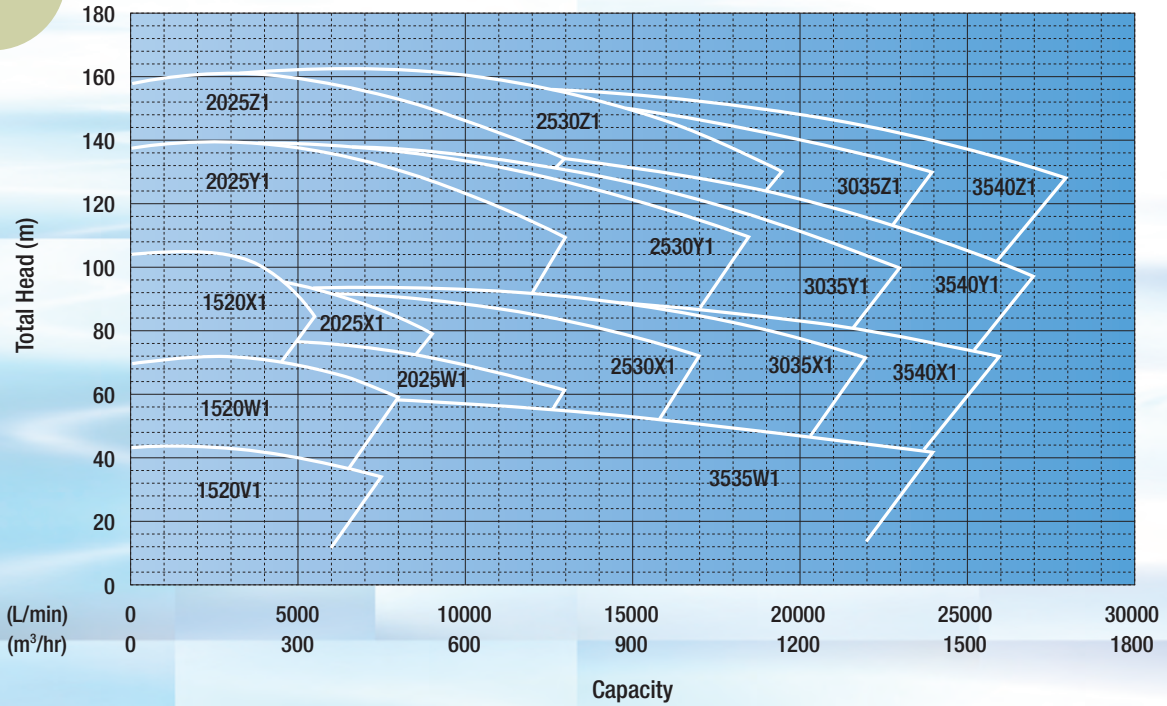


Pump performance Curve

60Hz

Pump Performance Curve

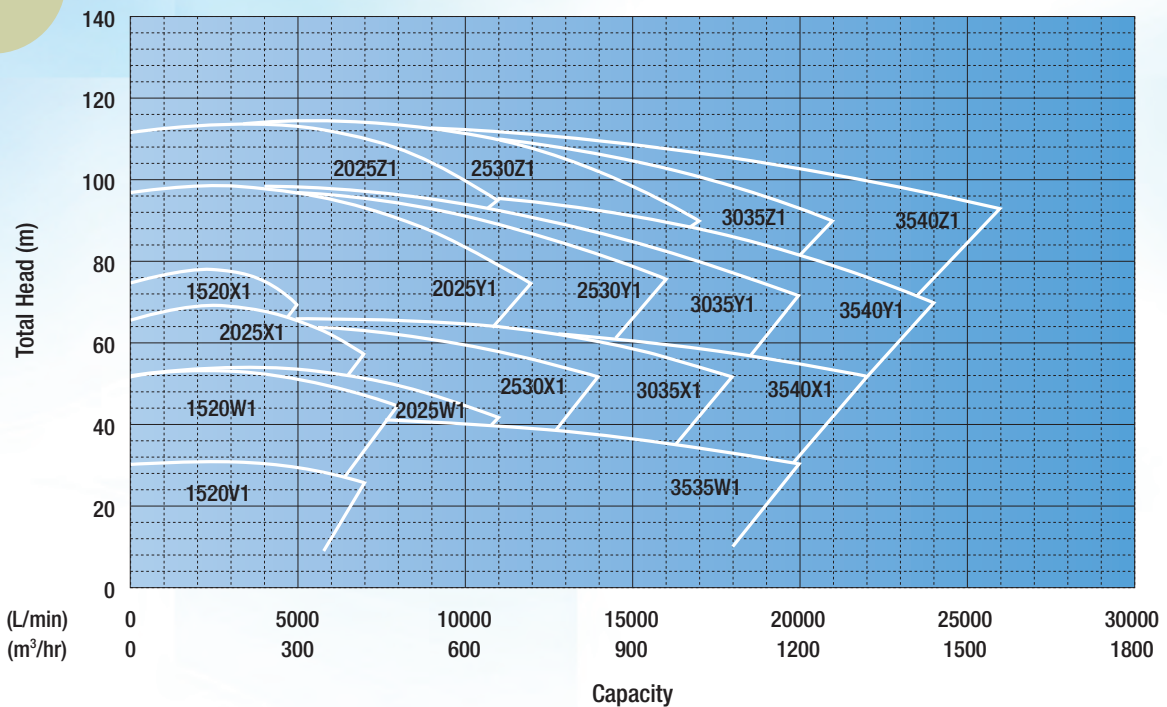
60Hz 1740rpm
S.G.=1 Vis.=1cP



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 109 | — | Heatproof Class C220 93 | 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 | | | | | |
| 1125 | 250 | 590 | 610 | 560 | 560 | — | — | — | — | — |
| | 280 | 660 | 680 | 630 | 630 | | | | | |

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 | |
| 1123 | 132 | 48 | 44 | 45 | 37 | 33 | — | — | — | — | — |
| | 160 | 58 | 53 | 55 | 45 | 39 | | | | | |
| | 185 | 63 | 57 | 58 | 48 | 42 | | | | | |
| 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) | |
| Flow-rate | Max 25 m ³ /min | |
| T.D.H. | Max 150 m | |
| Design Pressure | Max 17 MPa | |
| Handling Fluid | Temperature | Max 350 °C |
| | Viscosity | Not more than 100 cst ($1 \times 10^{-4} \text{m}^2/\text{s}$) |
| Motor Output | Max 550 kW | |
| Power Source Voltage | L.V. | 3 Φ -50/60 Hz -380 ~ 460 V |
| | H.V. | 3 Φ -50/60 Hz -2300 ~ 4600 V |
| Insulation Class | L.V. | H, 220 |
| | H.V. | F, H |
| Explosion Proof Structure | Ex-Proof | d IIC T 3 & T 4 |
| | 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 | SUS 304L | SUS 316L |
| 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 high-nickel-content one is also available.



TEIKOKU Group Global Network

TEIKOKU Electric Mfg.Co., Ltd. (Japan)

Plant & Business Headquarters

Postcode 679-4395
60 Hirano, Shingu-Cho, Tatsuno-Shi,
Hyogo-Ken, Japan
Phone : +81-791-75-0411
Fax : +81-791-75-4190

International Business Headquarters

Postcode 110-0015
6F Shitaya Bldg. 2-5, 5-chome, Higashi-Ueno,
Taito-Ku, Tokyo, Japan
Phone : +81-3-3841-9311
Fax : +81-3-3841-7334
E-mail: ibd-tokyo@teikokudenki.co.jp

TEIKOKU USA INC. & CHEMPUMP Div. (North & South America)

TEIKOKU USA INC.

7010 Empire Central Dr. Houston, TX 77040-3214
Phone +1-713-983-9901
Fax +1-713-983-9919
E-mail info@teikoku-usa.com
Web www.teikoku-usa.com

CHEMPUMP Div.

959 Mearns Road, Warminster, PA 18974
Phone +1-215-343-6000
Fax +1-267-486-1037
E-mail chempump@chempump.com
Web www.teikoku-usa.com

TEIKOKU Electric GmbH (Europe)

Nuernberger Strasse 24, D-40599 Duesseldorf
Germany
Phone +49-211-700-6778
Fax +49-211-749-0011
E-mail info@teikoku-electric.de
Web www.teikokupump.de

DALIAN TEIKOKU CANNED MOTOR PUMP CO., LTD. (China)

中国大连三涧堡工业科技园区
Sanjianpu Science & Technology Industry
Area, Dalian, China
Phone +86-411-8626-9657
Fax +86-411-8626-9292
Web www.teikoku-china.com

TEIKOKU SOUTH ASIA PTE LTD.

No.15, Joo Koon Crescent, Singapore 629015
Phone +65-6861-4121
Fax +65-6861-4521
E-mail info@teikoku-sa.com.sg
Web (see US website)

TEIKOKU KOREA CO., LTD.

3F Hannam Tower Annex Bldg. II, #730
Hannam-dong, Yongsan-gu, Seoul, Korea
Phone +82-2-790-7012
Fax +82-2-790-7014
E-mail webmaster@teikokukorea.co.kr
Web www.teikokukorea.co.kr

TAIWAN TEIKOKU PUMP CO., LTD.

9F-1, No.5, Jinzhou st., Zhongshan District,
Taipei City 104, Taiwan, R.O.C.
Phone +886-2-2567-9800
Fax +886-2-2568-2670
E-mail ttpco@ms32.hinet.net
Web (see US website)

