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Before use this product and technology, the contents should be confirmed, complied and revised in accordance with the laws and regulations of the country. (i.e. export control laws and regulations etc.)

*1 "Model VY, Model VZ" in this catalog is our model code *2 All specifications subject to change without notice.



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The product(s) described herein fall under "the goods listed in row 16 of the appended table 1 of the Export Trade



Contact to



Control Order of Japan", so in cases of export of such Products, you need to confirm "use" and "purchaser and/or end-user" and, as case may be, obtain the approval of the Minister of Economy, Trade and Industry. (Please confirm these conditions on your own.) For more information, please contact our sales office located near you.

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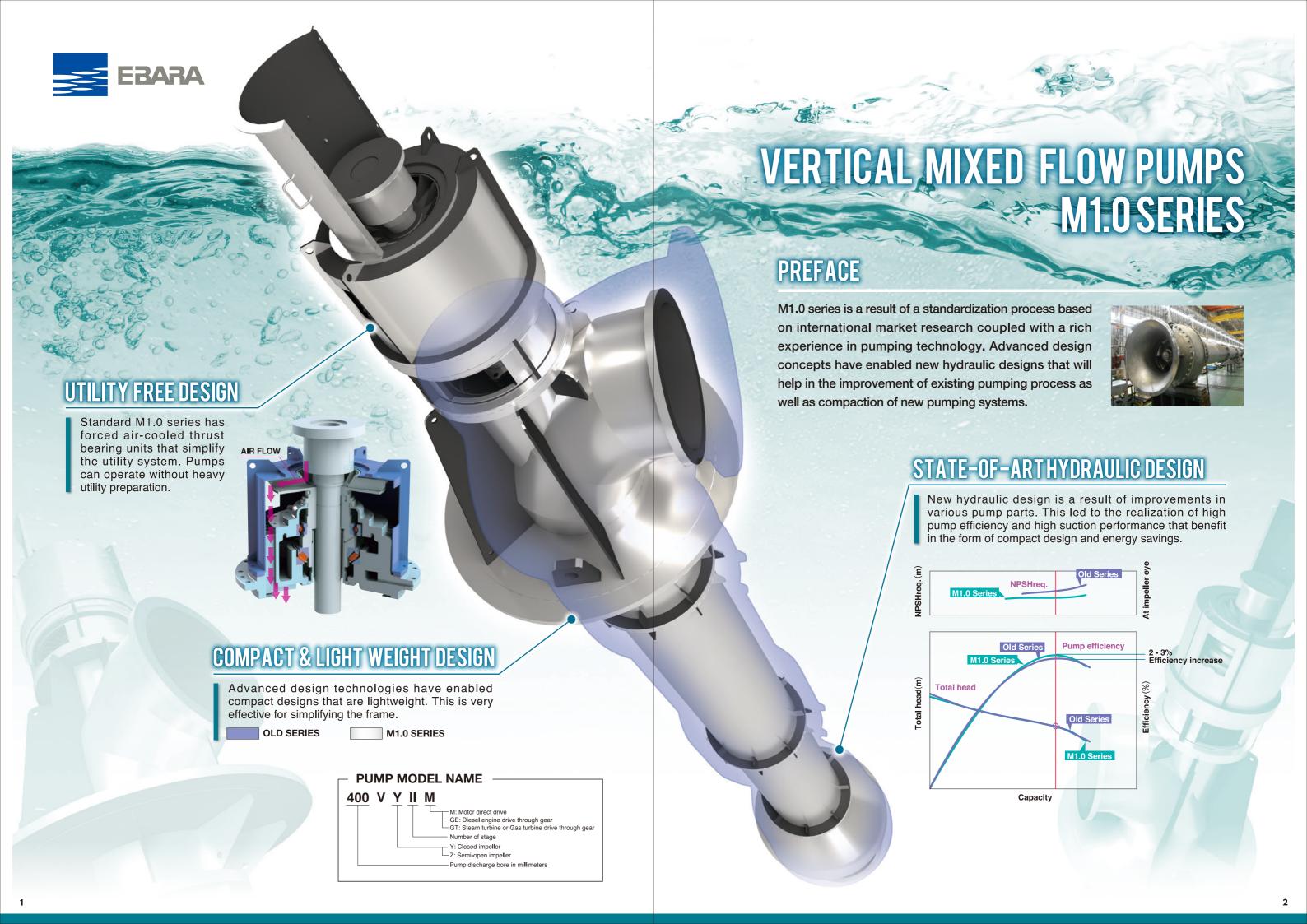


VERTICAL MIXED FLOW PUMPS

M1.0 Series / Model VY, Model VZ

*"Model VY, Model VZ" in this catalogue is our model code.

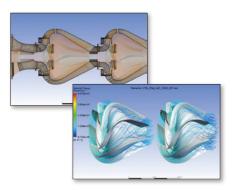






TOTAL SERVICE FOR PUMPING PROCESS BY EBARA

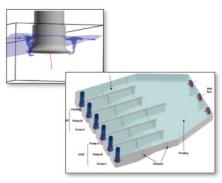
EBARA's technology 1



CFD analysis to achieve design optimization of new and existing pumps.

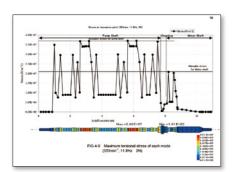


Model testing to propose the best sump pit design.

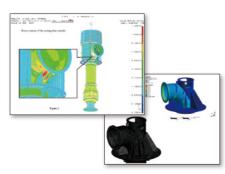


CFD analysis to predict the hydraulic flow in sump.

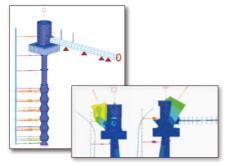
EBARA's technology 2



Torsional & Lateral vibration analysis for pump rotor.

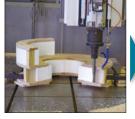


Structural stress analysis for best pump design.



Structural vibration analysis for detecting vibration problem.

EBARA's technology 3













Ebara's factory is equipped with the necessary equipment, personnel and technology to perform all the main production processes in-house. This allows efficient control of production schedule and quality system to satisfy a wide range of Customer requirements and international standards.



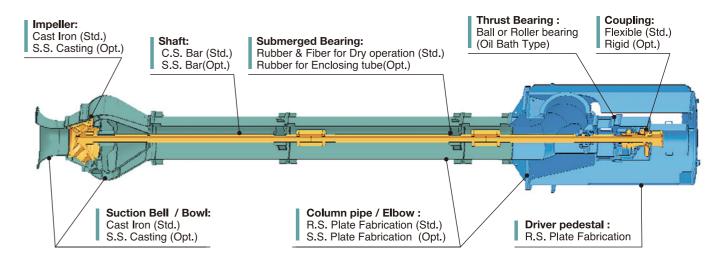
Standard service

Items	Target	01.77		
	Standard	Option	Capability	
Service	South east Asia infrastructure (Waterworks , irrigation and drainage)	industry, power plant, Desalination (intake), Sewage	Oil and gas, Desalination(MSF) Geothermal Plant	
Liquid	Fresh water, river water	Brackish water, seawater, sewage water	Brine water	
Liquid Temperature				
Application range	Capacity: 15 m³/min ~ 190 m³/min Total head: 10m ~ 70m	Note: if total head is not within 10m – 70m, please consult our factory		
Applied std. for vibration	ISO 10816-7			

Standard structure

Items	Standard	Option	Capability						
Pump(installation) type	One floor, Surface discharge type	Two-floor	Underground discharge type, pull-out type, pit-barrel type						
Direction of rotation	CW (viewed from driver)								
Discharge flange	ANSI / ASME	JIS, ISO, AWWA, others	_						
Thrust bearing	Oil -bath anti-friction bearing	_	Oil –bath Tilting Pad bearing						
	Located in pump	Located in motor for large horse power	_						
Submerged bearing	Rubber bearing + Thordon	Rubber bearing with enclosing tube	Ceramic Bearing, AR1 etc.						
Shaft seal	Gland packing	Mechanical seal	Labyrinth seal						
Scope of supply	Bare pump, base plate, coupling, auxiliary piping, foundation bolts, special tool	Driver, suction strainer, automatic air release vent valve, general tools	Instrumentation is accordance with customer's requirement						

Standard material for main parts

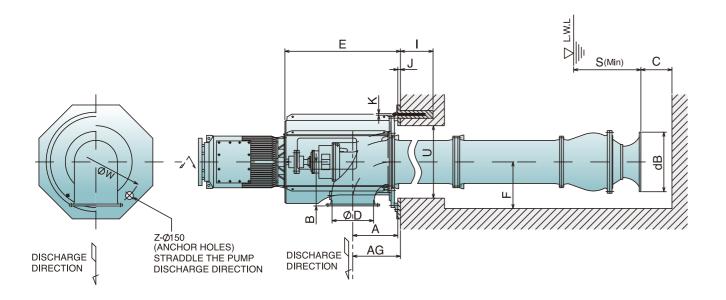


Std.: Standard Opt.: Option C.S.: Carbon Steel R.S.: Rolled Steel

S.S.: Stainless Steel



Pump Outline Dimensions



UNIT: mm

	OI							OINIT. IIIII					
Discharge Bore D (in)	A	В	С	dB	F	J	Smin	AG	U(1)	w	z	ı	к
350 (14)	450	470	300	550	400	50	825	500	820 650	1220	6	500	24
400 (16)	500	500	350	650	450	50	975	550	1050 750	1450	6	500	24
450 (18)	560	550	400	720	550	50	1080	610	1200 820	1600	8	630	30
500 (20)	610	600	450	820	600	50	1230	660	1250 950	1650	8	630	30
600 (24)	670	700	500	920	700	50	1380	720	1400 1050	1850	8	630	30
700 (28)	770	750	550	1020	800	50	1530	820	1550 1150	2000	8	630	30
800 (32)	870	850	600	1150	900	50	1725	920	1700 1250	2150	8	630	30
900 (36)	960	950	700	1300	1000	50	1950	1010	1900 1400	2350	12	630	30
1000 (40)	1150	1050	750	1450	1100	50	2175	1200	2150 1550	2600	12	630	30

U (1): For high head closed impeller service / U (2): For open impeller service & Low head closed impeller service Dimensions may differ depending on service conditions.

For over 70m (230ft) rated head, please consult our factory



Selection Chart (50Hz)



Selection Chart (60Hz)

