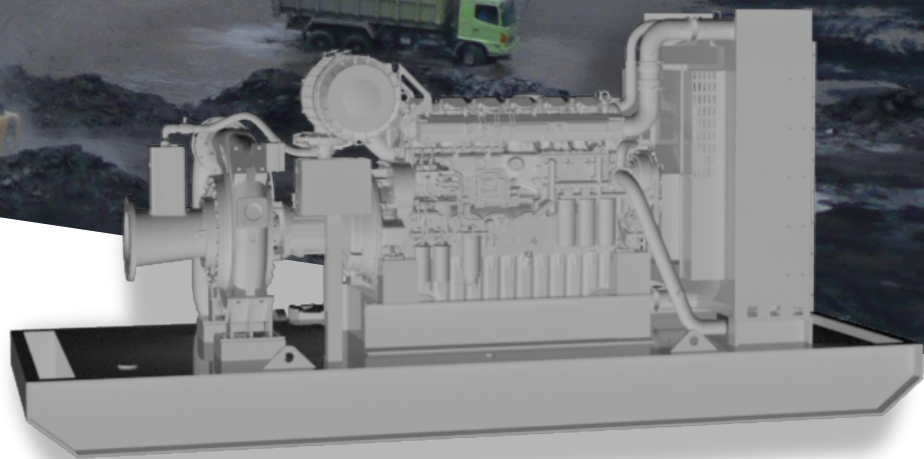


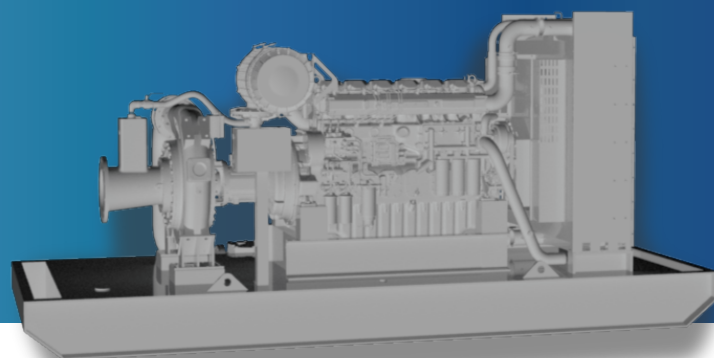
MP SERIES SLURRY DEWATERING PUMP

(VACUUM ASSISTED DRY PRIMING /SELF PRIMING)



WENZHOU DEFU MACHINERY CO., LTD





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Subsidiary Company:

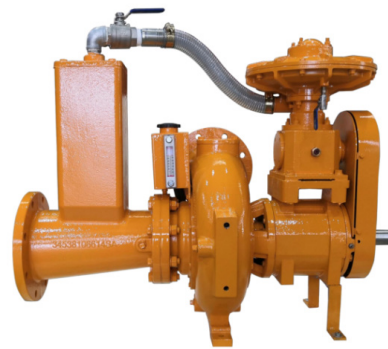
Shanghai Y&L Pump Co., Ltd

Zhejiang Cornell I-Water Sci Technol Company



PRODUCT DESCRIPTION

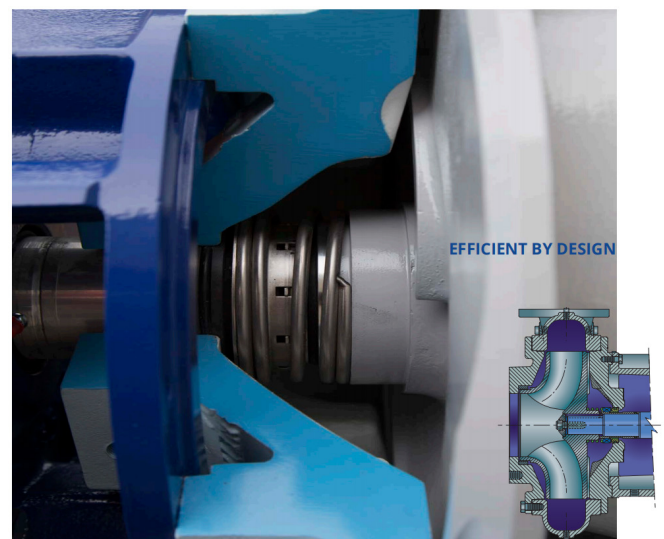
MP series Slurry Dewatering Pump is a vacuum assisted dry-priming pump type, can be widely used to transport solids and liquids across many industries, can handle the most difficult solids application. Heavy duty with base which features vacuum assisted dry-priming system an inbuilt skid, all within a compact design. It is suitable for mining, quarrying, industrial, water transfer and environmental water management etc, applications.



FEATURES & BENEFITS

MECHANICAL SEAL SYSTEM

One of the main reasons DEFU Pumps have a service advantage compared to competitors is our mechanical seal system design that removes solids and abrasive material from the seal area, while purging air and gas pockets. This innovative cyclonic action extends seal life and eliminates the need for venting or flush water. These benefits come from the mechanical seal system's unique deflector vanes, which work with the impeller back-vanes to create the cyclo-action.



TYPE I & II MECHANICAL SEAL FEATURES

DEFU mechanical seal relies on Type I & II Mechanical seals as part of the mechanical seal system. The seals provide these benefits:

No Set Screws: Nothing to mar the shaft or sleeve.

Temperature Limits: -40° F to +160° F (Buna); -40° F to +400° F (Viton)

Seal Faces: Tungsten carbide vs. silicon carbide or carbon vs. Ceramic (other material options available.)

Elastomeric Bellows Options: Buna-N, Viton and other materials available.

Hardware: Stainless or plated steel.



MECHANICAL SEAL BENEFITS

No Flush Water or Packing: Through the backplate and sweeping vanes, DEFU mechanical seal requires no flush water or packing, saving expense, service time, and messy drips.

Extended Seal Life: DEFU's mechanical seal design has proven itself in the toughest applications, from manure, slurry, starch recovery, municipal waste water, and clear water, to food processing and self-priming applications – in some cases more than tripling the normally-expected seal life.

Run-Dry™ Option: All pumps with DEFU's mechanical system can be equipped with an optional Run-Dry feature, which serves to lubricate the seal faces even when there is no liquid in the pump casing. In situations where the pump must run dry for several hours, or where the pump may suddenly lose prime without being shut off, the Run-Dry feature is a must.

System Savings: The DEFU mechanical seal system requires no external water flush, filters, grease cups, or piping normally associated with packing or mechanical seals in other pumps.

Better for Abrasive Applications: More resilient than packing and standard mechanical seals bathed in grit and other materials, mechanical seal keeps solids away from the seal area for reduced seal wear.

Greater Reliability: Through positive seating, end users can tell when the seal is perfectly fitted. With greater ability to withstand to grit, the mechanical seal system results in longer intervals between service.

Maintenance Savings: The end result of a longer lasting seal is less down-time and lower maintenance costs over the life of the pump.

17-4 PH STAINLESS STEEL SHAFT and double angular contact thrust bearings extends the operating range and reduces shaft breakage.

HIGH-EFFICIENCY DESIGN pumps more liquid using less energy for substantial savings over the life of the pump.

3 OR 4 VANE ENCLOSED IMPELLERS are dynamically balanced and designed to handle solids up to 4"

DUCTILE IRON CONSTRUCTION for increased durability and resistance to wear.

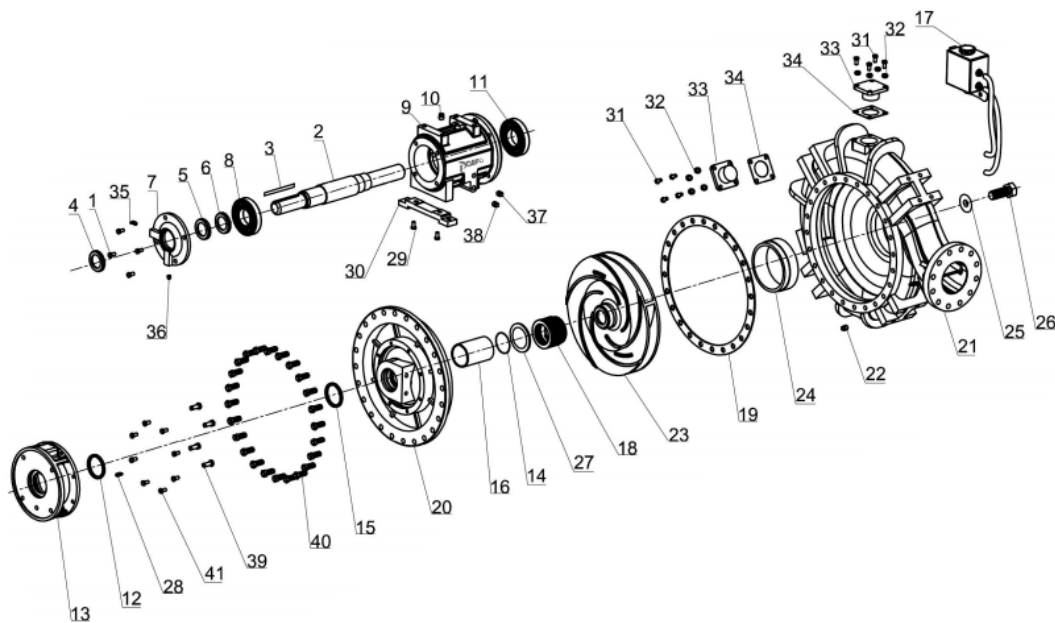
300LB RATED DISCHARGE FLANGES and all iron frame construction for durability in harsh conditions.

CA6NM IMPELLER is standard on MP Series pumps.

WITHSTANDS HIGH OPERATING PRESSURES to achieve max. flows up to 10,000 GPM, max. Head up to 250m (820ft)

OPTIONAL HARDENED WEAR RINGS on the impeller and volute provide added resistance to abrasive materials.

EXPLODE VIEW & LIST OF PARTS



NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	BOLT_304SS 5/8-11x1 3/4	4	15	LIP SEAL, BACKPLATE_BUNA-N $\phi 95.25 \times \phi 63.5 \times 12.7$	1	28	GREASE FITTING, 90° ELBOW_304SS 1/8" -27NPT	1
2	SHAFT_CD4 MP86550	1	16	SLEEVE, SHAFT_CD4 MP86550	1	29	BOLT_STL 5/8-11x1 3/4	2
3	FLAT KEY, COUPLING_STL 5/8" x3 1/2	1	17	SEAL LUBRICATING SYSTEM MP86550	1	30	SUPPORT_CI MP 6614S	1
4	DE LIP SEAL_STL&RUBBER $\phi 95.25 \times \phi 76.2 \times 9.53$	1	18	MECH. SEAL_S-W-VTT-304SS JC TYPE 2 3"	1	31	BOLT_304SS 1/2-13x1 1/4	8
5	LOCKWASHER_STL W-16	1	19	GASKET, BACKPLATE, ARAMID FIBER MP 2#-22"	1	32	FLAT WASHER_304SS 1/2	8
6	LOCKNUT_STL AN-16	1		($\phi 647.7 \times \phi 559 \times 1$)		33	CLEANOUT COVER_CD4 MP86550	2
7	COVER, BEARING_CI MP2#		20	BACKPLATE_CD4 MP 2#-22' (1)	1	34	GASKET, BACKPLATE, ARAMID FIBER MP86550	2
8	DE BEARING, SKF 7316 BECBP	2	21	CASING_CD4 MP 86550	1	35	PIPE PLUG_STL 1/8" -18NPT	1
9	BEARING FRAME_CI MP/P 2#	1	22	PIPE PLUG_STL 1/2" -14NPT	6	36	PLUG GREASE_304SS 1/8-27NPT	1
10	VENT PLUG_STL 1/2-14NPT	1	23	IMPELLER_CD4 MP86550	1	37	PIPE PLUG_STL 1/2" -14NPT	1
11	NDE BEARING 6316 C3	1	24	WEAR RING_304SS MP86550	1	38	VENT PLUG_STL 1/2" -14NPT	1
12	NDE LIP SEAL_STL&RUBBER $\phi 95.25 \times \phi 76.2 \times 9.53$	1	25	IMPELLER WASHER_CD4 MP86550&F83*23	1	39	BOLT_304SS 5/8-11x2	4
13	ADAPTER, BEARING FRAME_CI MP 2#	1	26	HEX SOCKET SCREW, IMPELLER_304SS 3/4-10x2 3/4	1	40	BOLT_304SS 3/4-10x2 1/4	12
14	O-RING_VIT $\phi 66.675 \times 2.65$		27	ADJUSTING SHIMS, IMPELLER_304SS $\phi 76.2 \times F 66.675 \times 0.4$	0-5	41	BOLT_304SS 1/2-13x1 1/4	8

APPLICATION

Mining

Slurry transportation
Mine dewatering system
Washing and scrubbing
Sand reclamation
Tunnelling
Quarrying
Transfer of decantation liquids



Dewatering

Flood control project
Well-point dewatering
Mine dewatering
Industrial drainage
Municipal sewage engineering
Building drainage
Storm water
Desalination plant
For ballasting & bilge
Loading and unloading
Marine washing
Sea water transportation
Air conditioning circulating water
Heating pipe network system
For mining /urban/village/construction
Condensed water recycling
Cooling tower water transportation
Boiler water transport use



Sewage

Domestic sewage
Industrial sewage
Rainwater
Agricultural wastewater
Wastewater treat plant
Sanitary sewage
Urban sewage processing
Home scrap processing

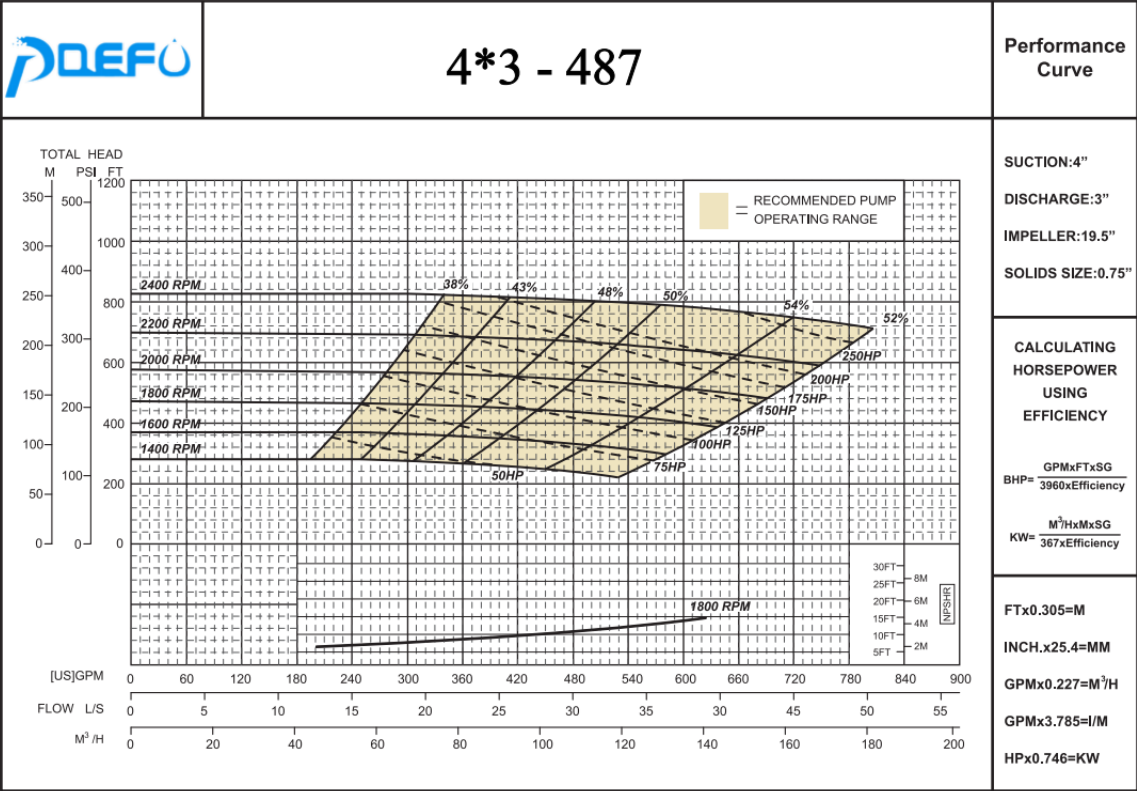


PARAMETERS TABLE

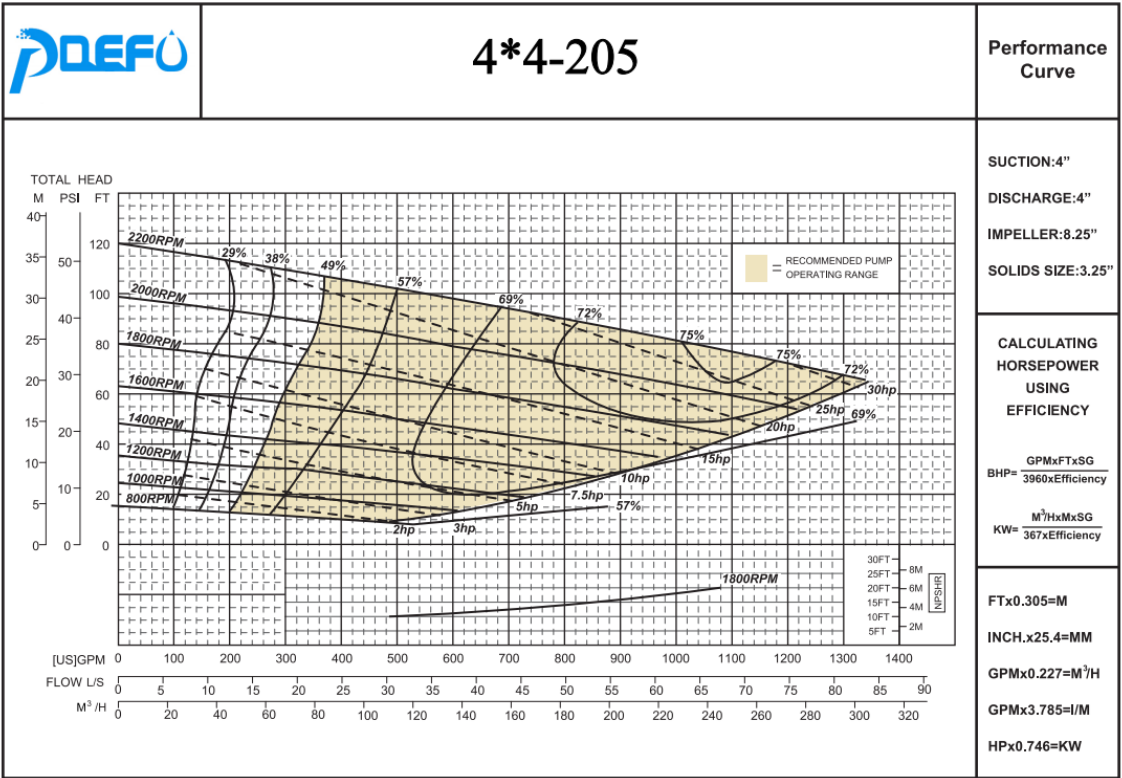
Model	Inlet dia.	Outlet dia.	Impeller dia.	Max. passing solids size	Max.flow rate	Max. head	Range of speed	Range of shaft power (base on SG=1.0)
	(inch)	(inch)	(inch)	(inch)	(m3/h)	(m)	(r/min)	(hp)
MP43487	4	3	19.5	0.75	182.7	250	1400-2400	50-250
MP44205	4	4	8.25	3.25	304.18	36.6	800-2200	2-30
MP44350	4	4	14	3	370	130	1200-2300	20-165
MP64550	6	4	22	2	367.74	204	1200-1900	100-350
MP66250	6	6	10	3	601.55	50	1400-2200	15-75
MP66275	6	6	11	3	635	49	1200-2000	15-75
MP66300	6	6	12	3	703.7	73	800-2200	10-150
MP66350	6	6	14	3	669	88.45	1400-2000	50-125
MP86340	8	6	13.5	1.67	624.25	85.4	800-2100	15-175
MP86430	8	6	17.2	1.14	720	112	800-1900	10-250
MP86550	8	6	22	2	942	200	1200-1900	150-800
MP88305	8	8	12.25	3	1021.5	61	600-2000	5-100
MP108437	10	8	17.5	3.5	1577	135	1400-2000	100-400
MP108550	10	8	22	4	1929.5	180	800-1800	100-1000
MP1010305	10	10	12	4	1225.8	35	1000-1800	20-100
MP1210550	10	10	22	3	2360	240	1200-2100	400-1750
MP1212437	12	12	17.25	3.75	2060	91.5	580-1780	15-300

PUMP RANGE OVERVIEW

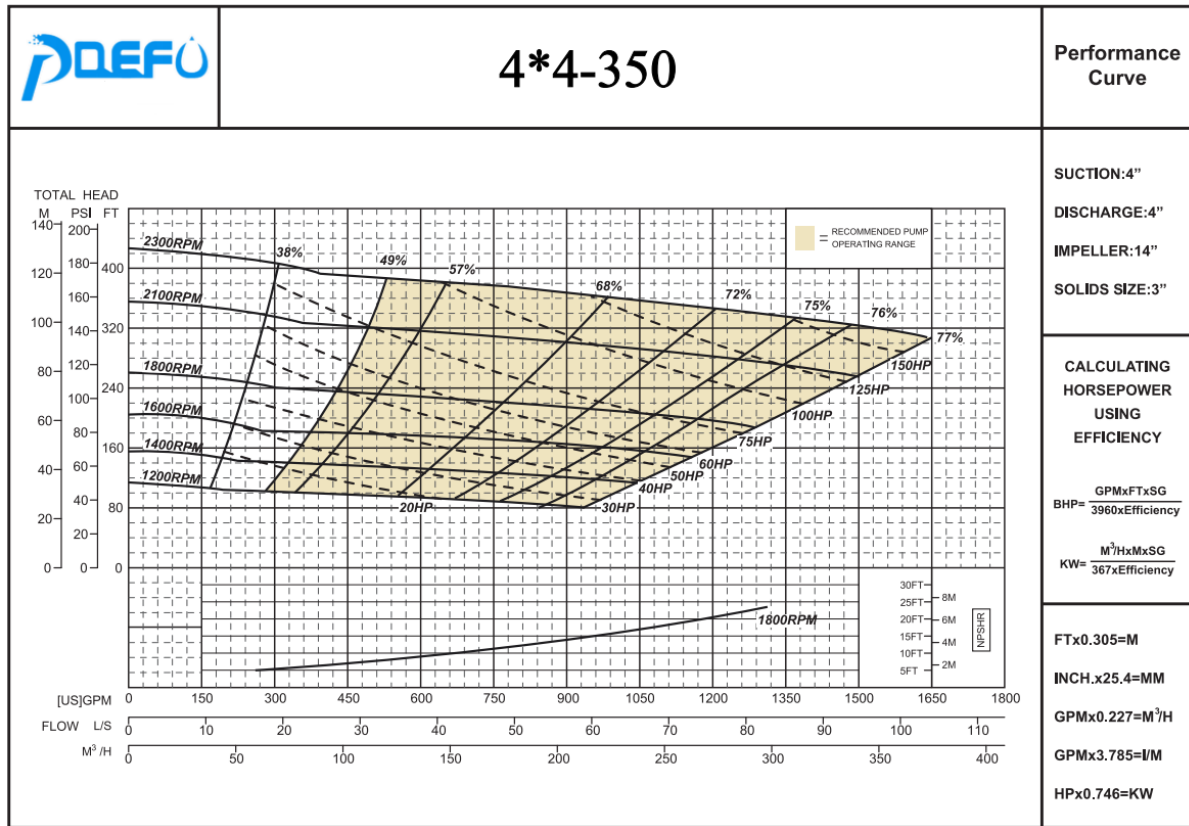
Model : MP43487



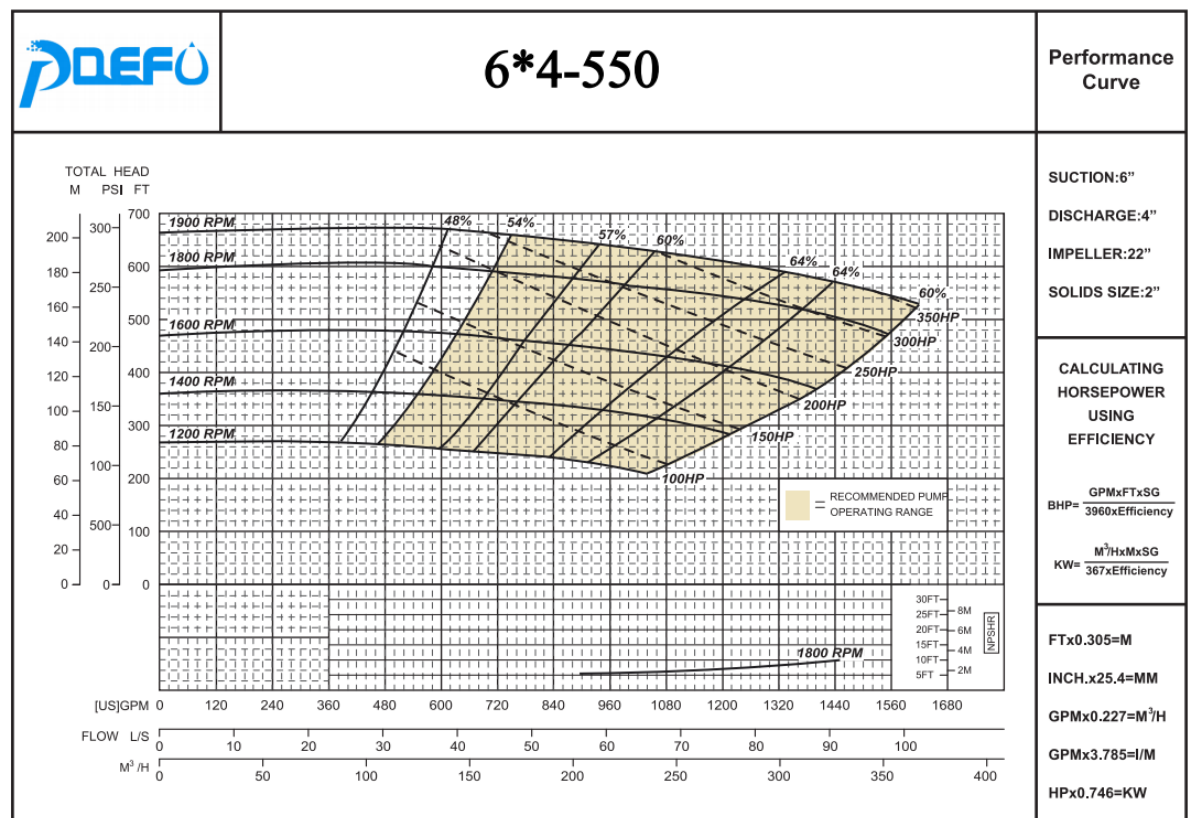
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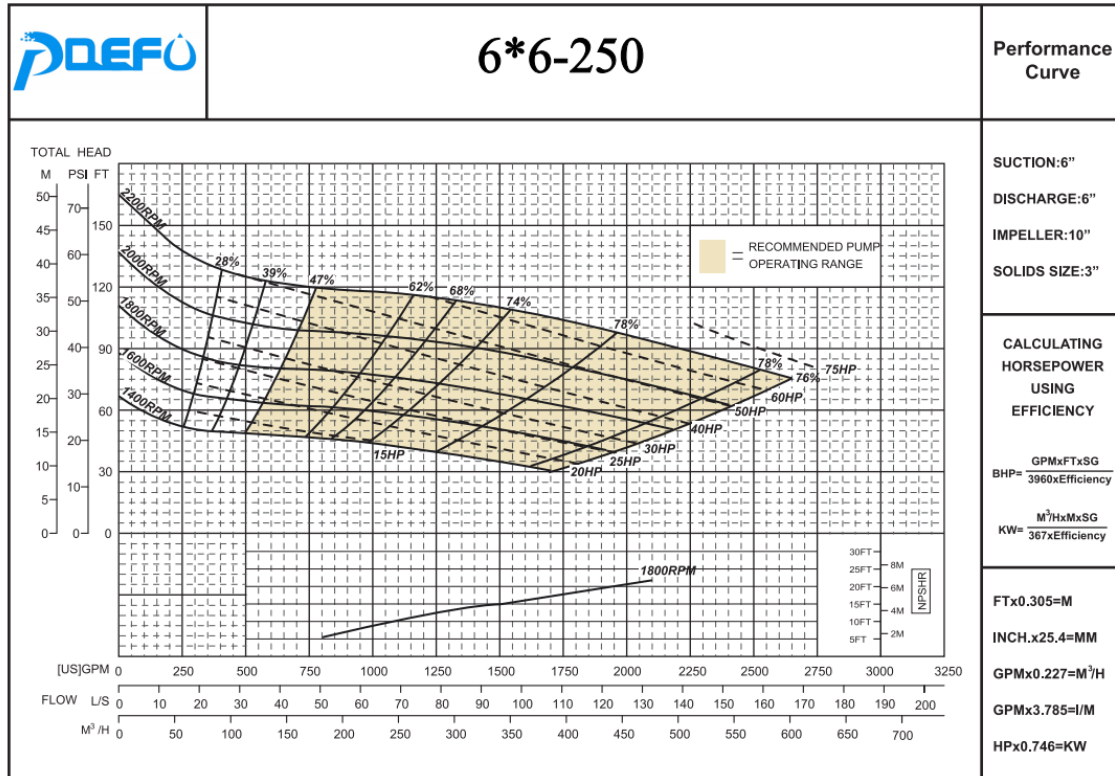
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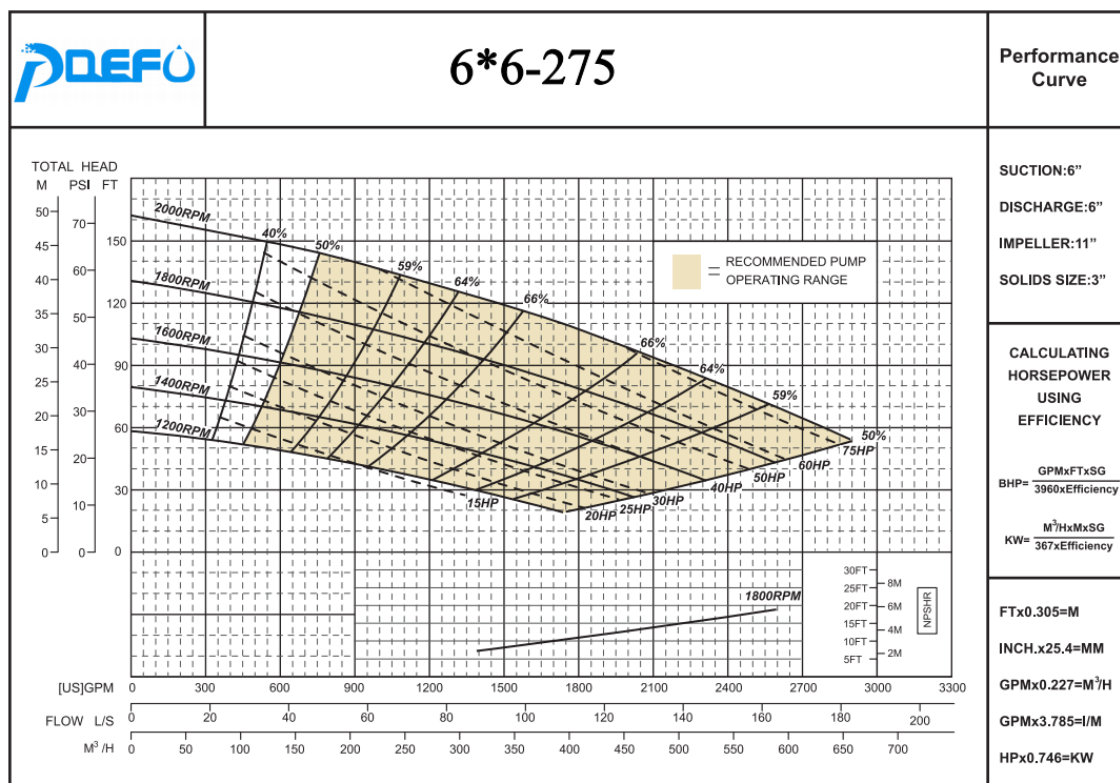
Model :MP64550



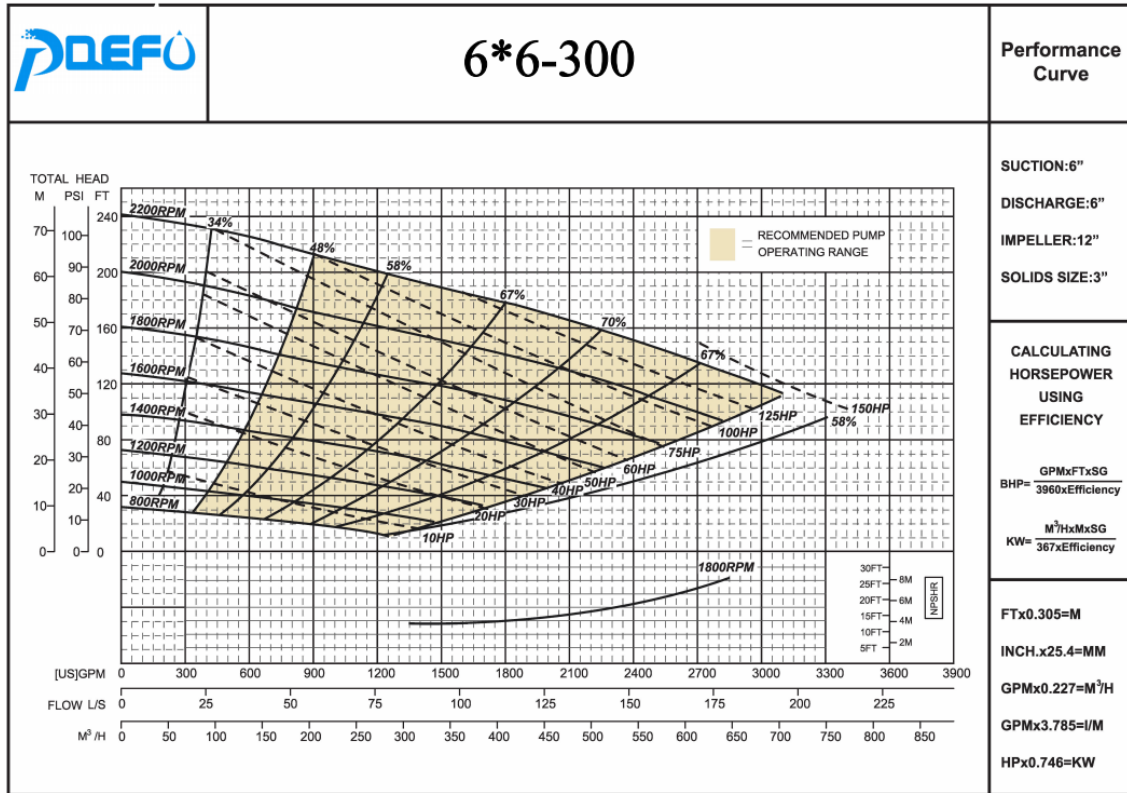
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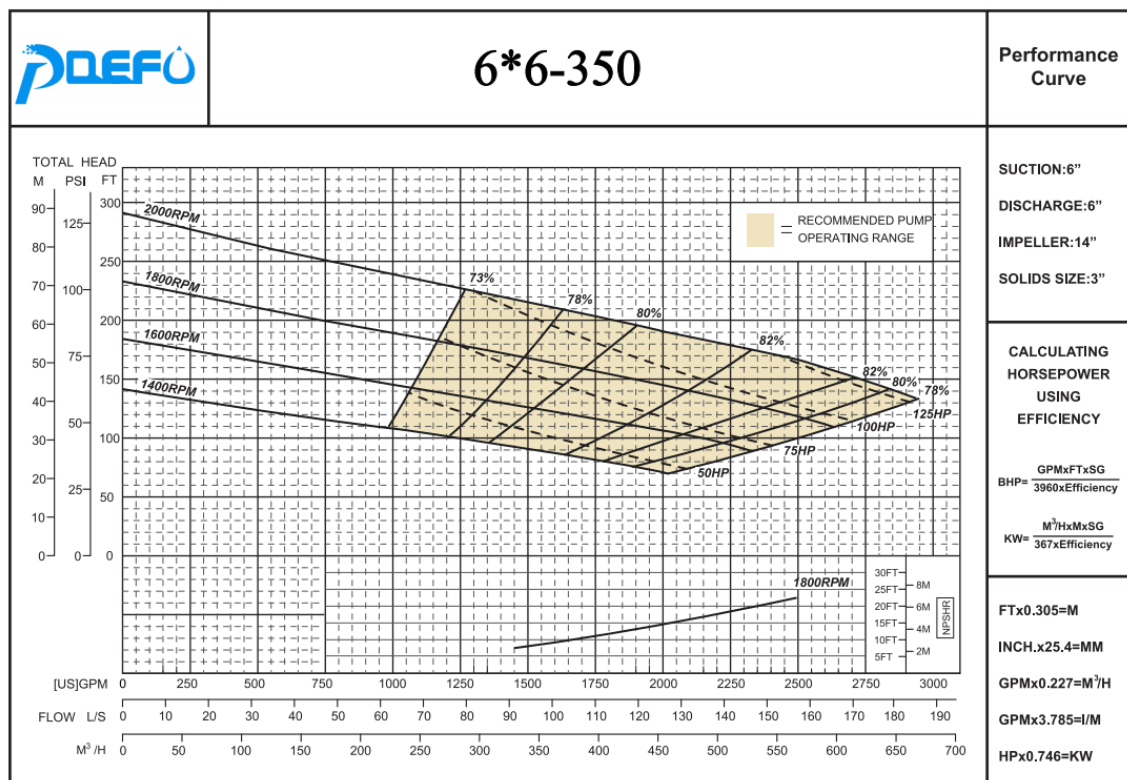
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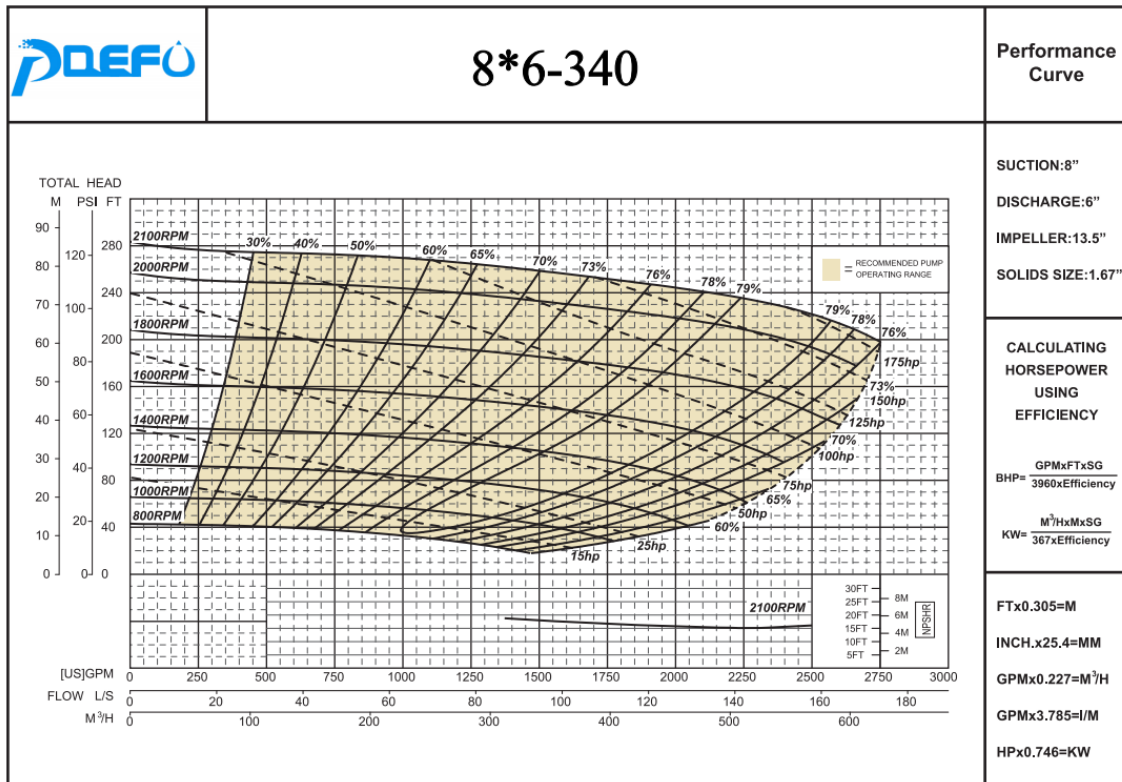
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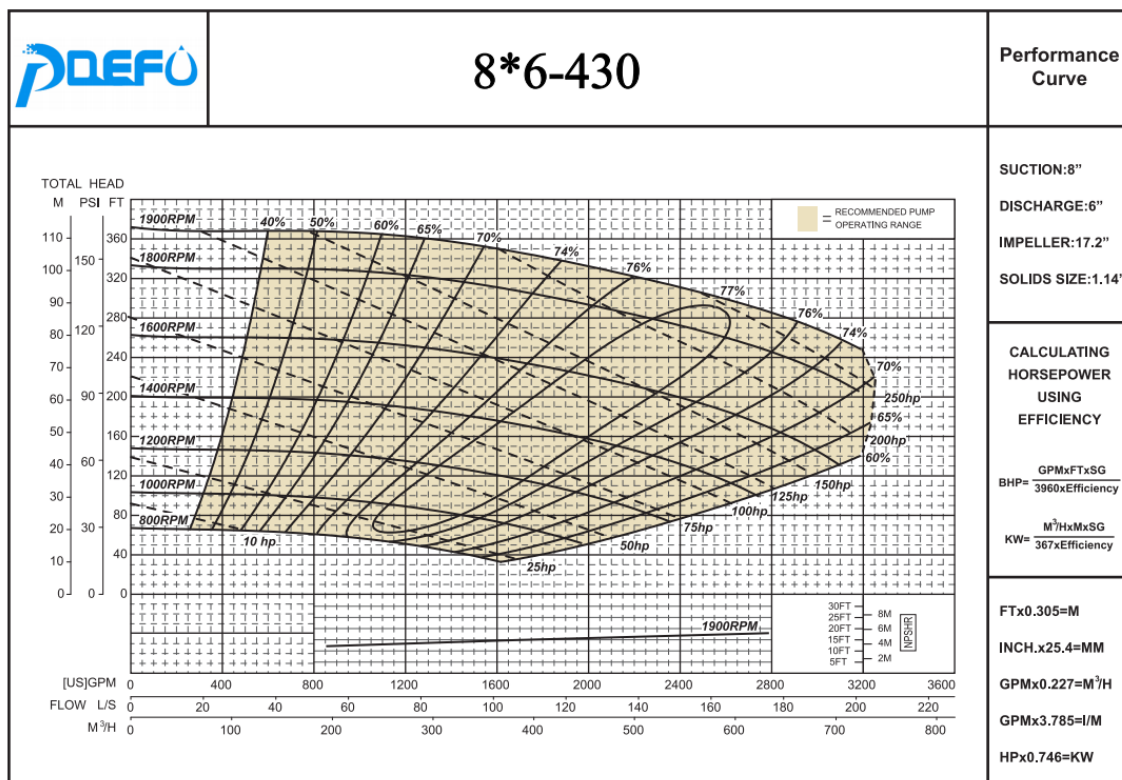
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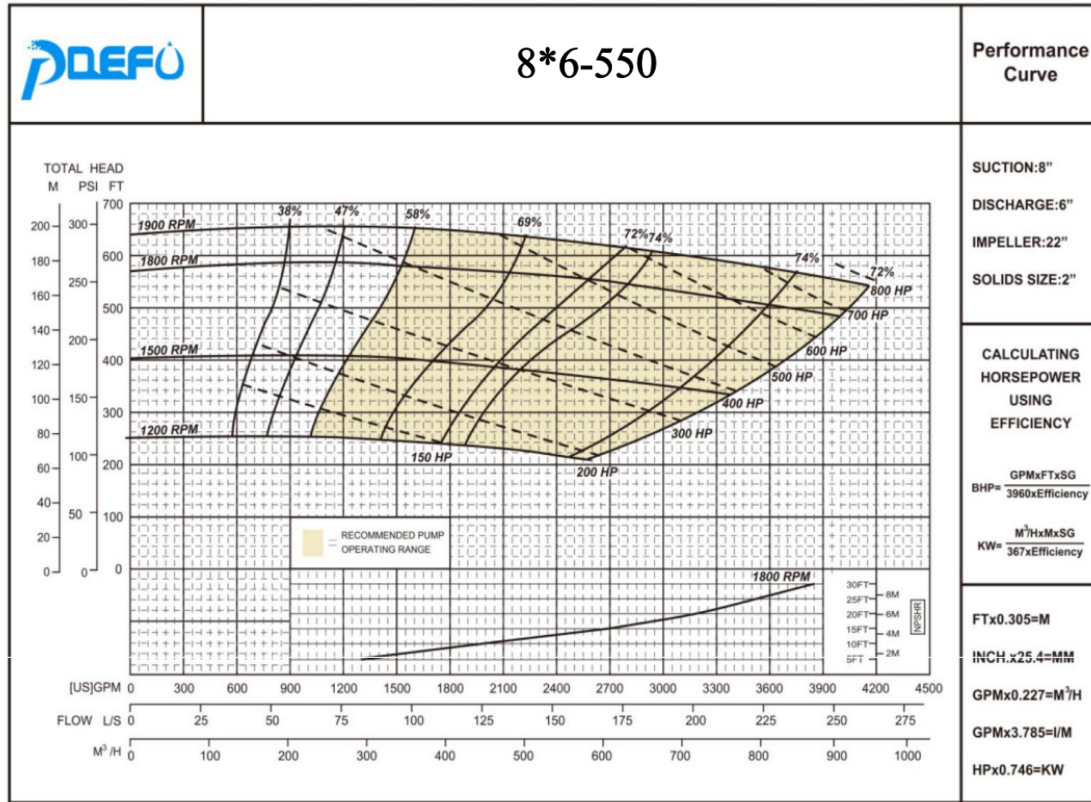
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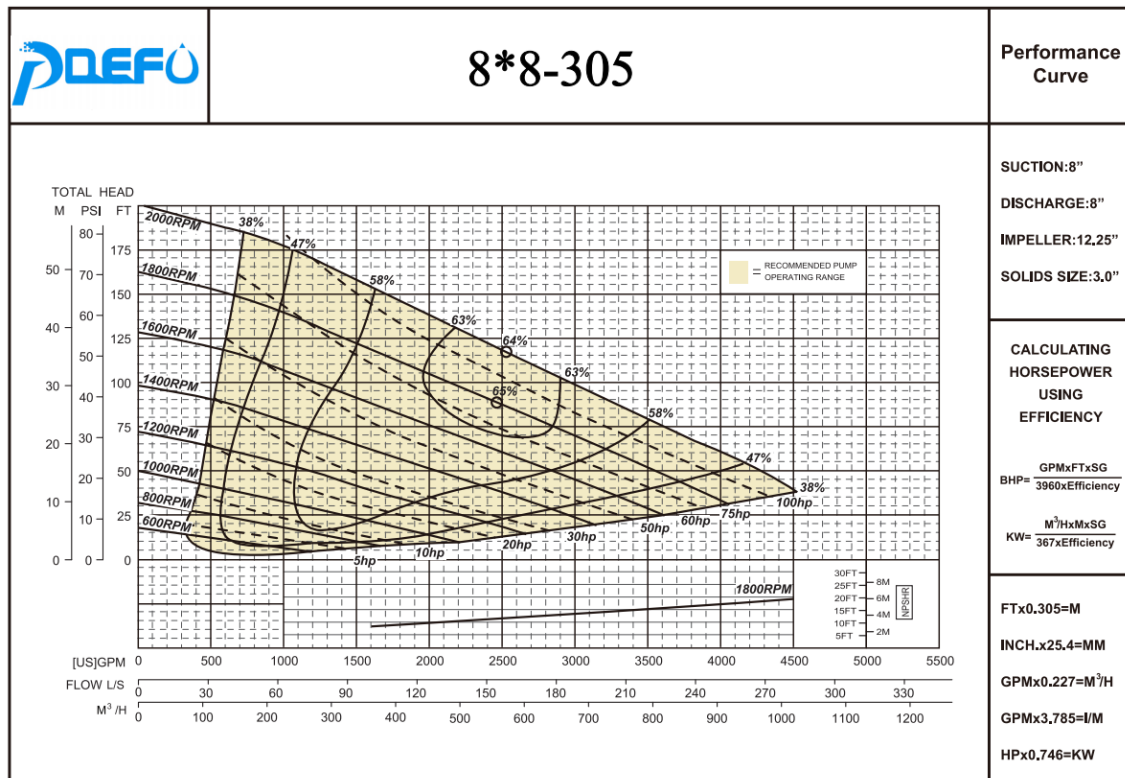
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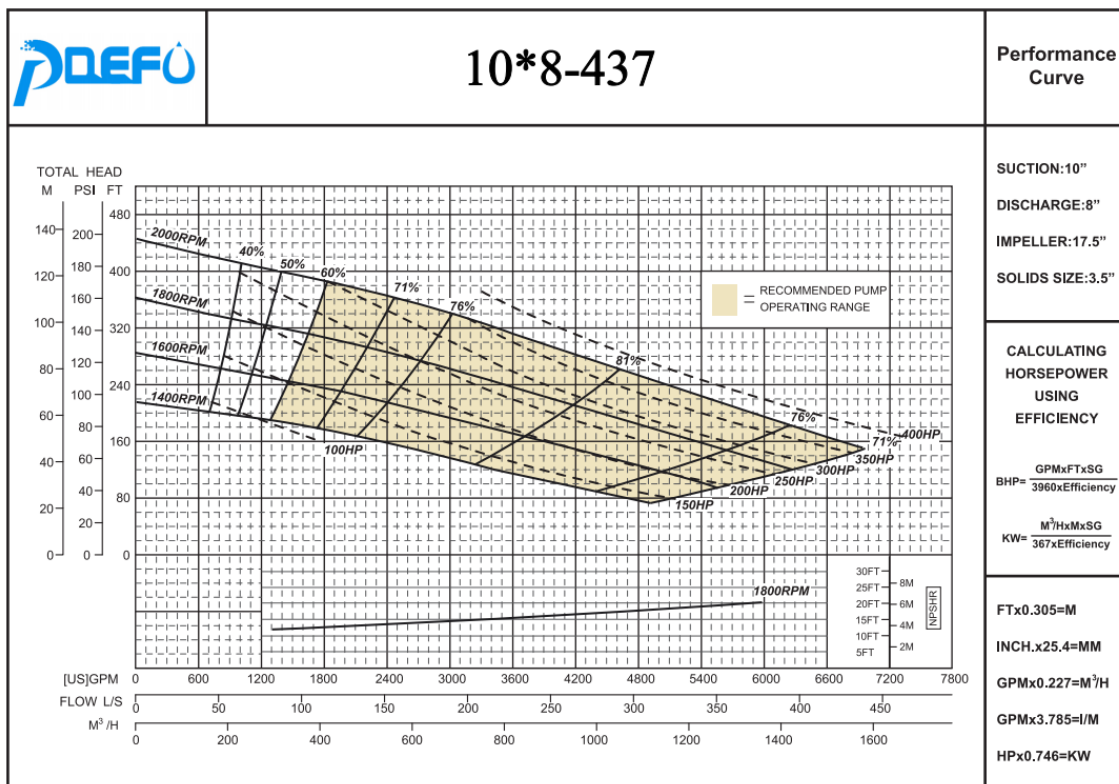
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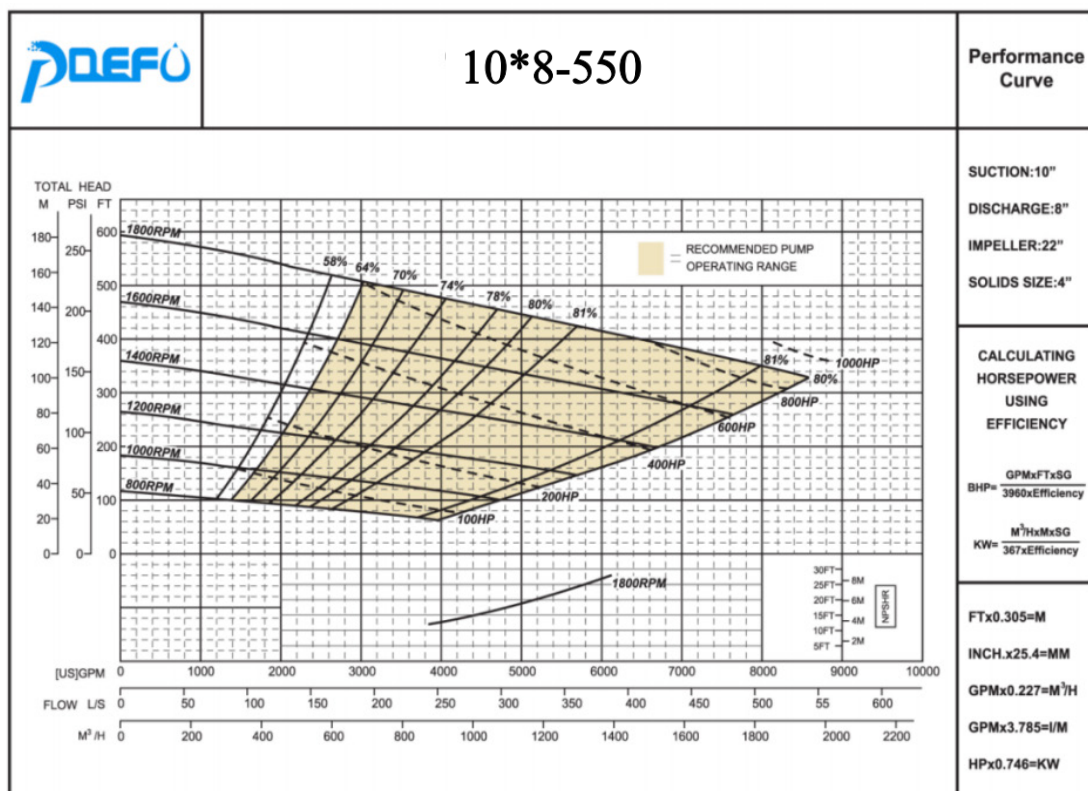
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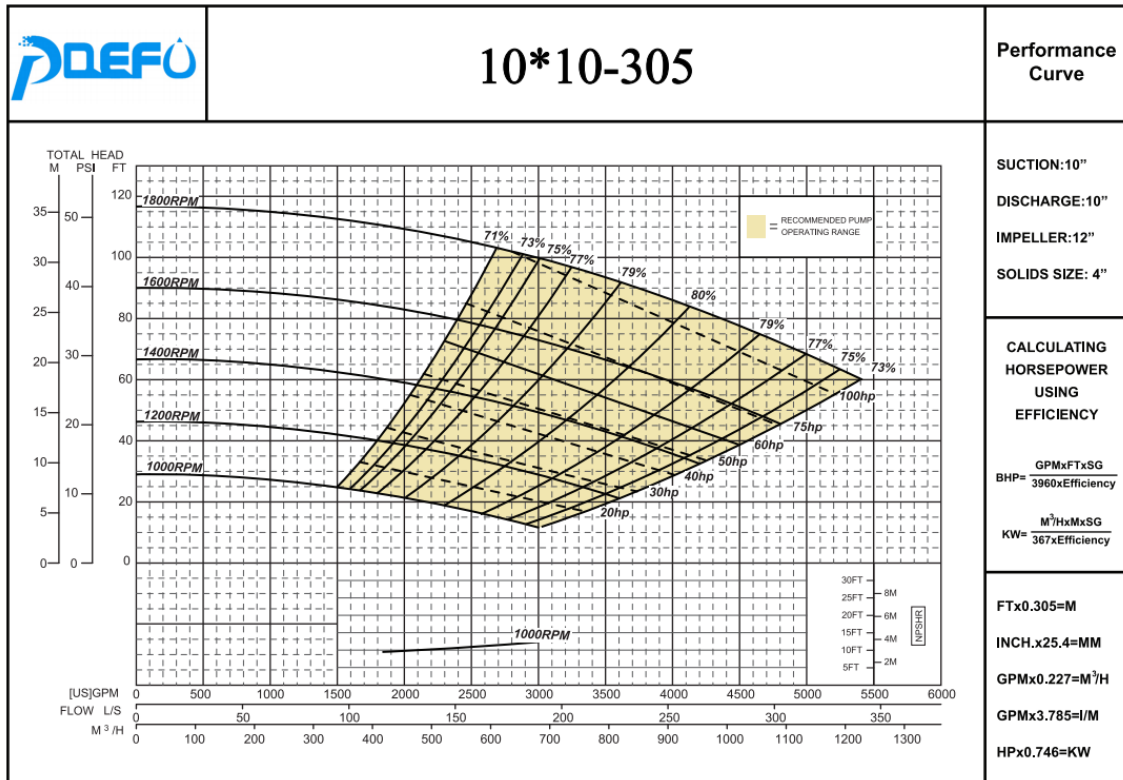
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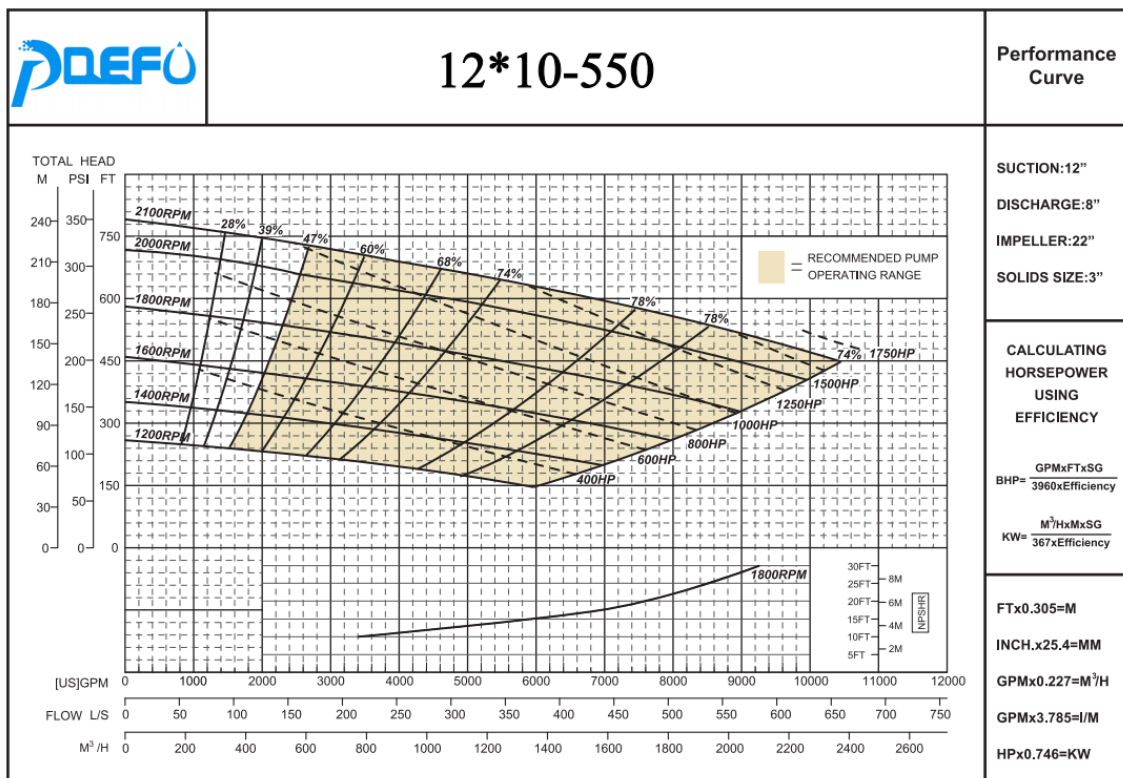
Model :MP108550



Model :MP1010305



Model :MP1210550



Model :MP1212437

