TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz



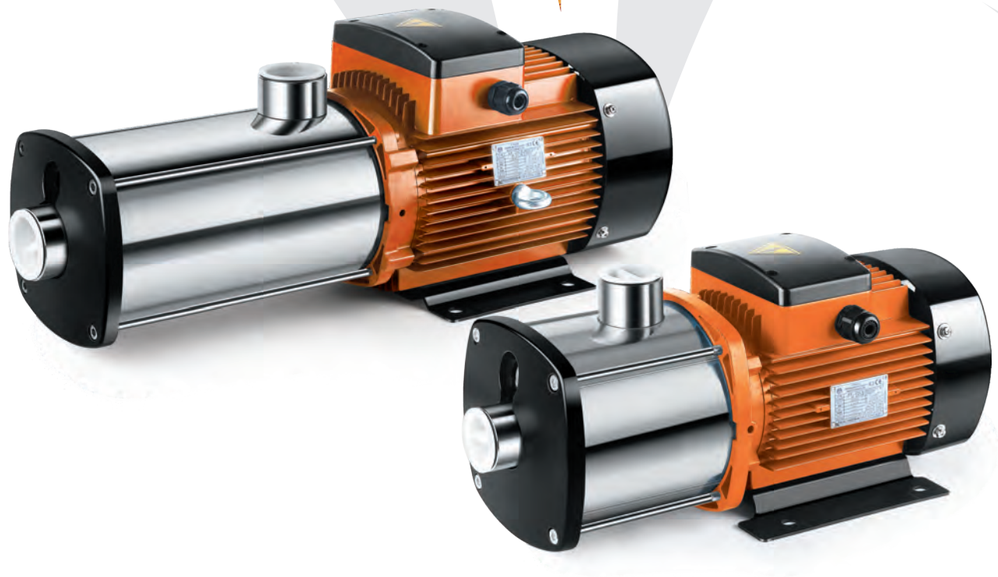
TIGERFLOW®

4034 Mint Way | Dallas, TX 75237 (214) 337-8780
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TIGERFLOW
TMHS SERIES

MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
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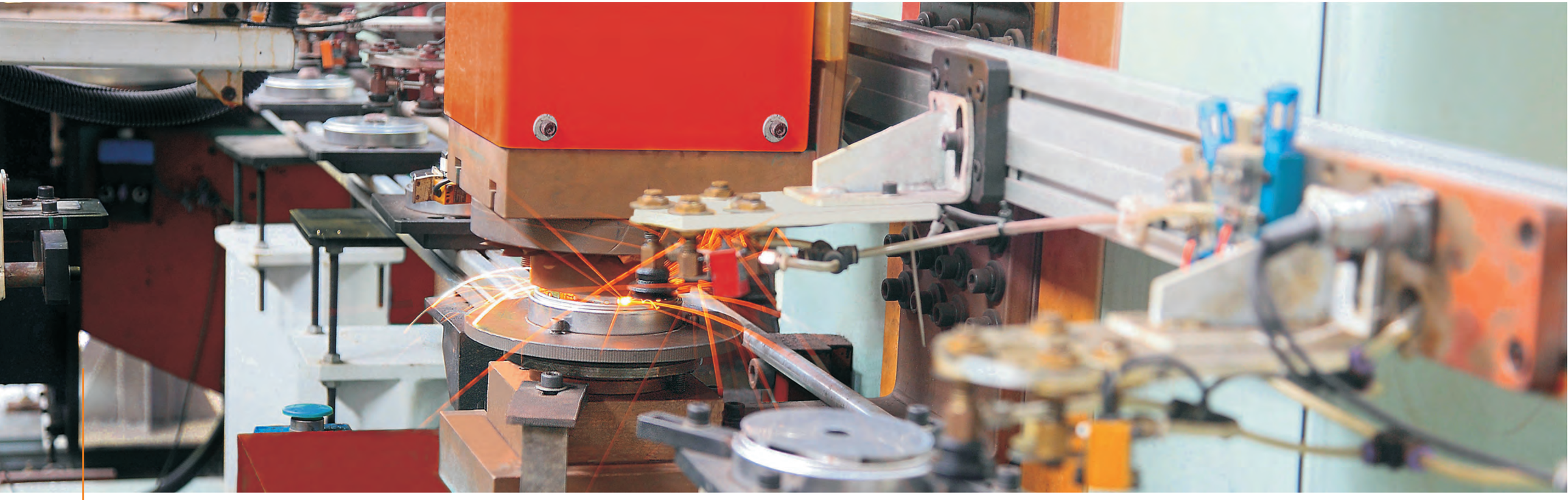
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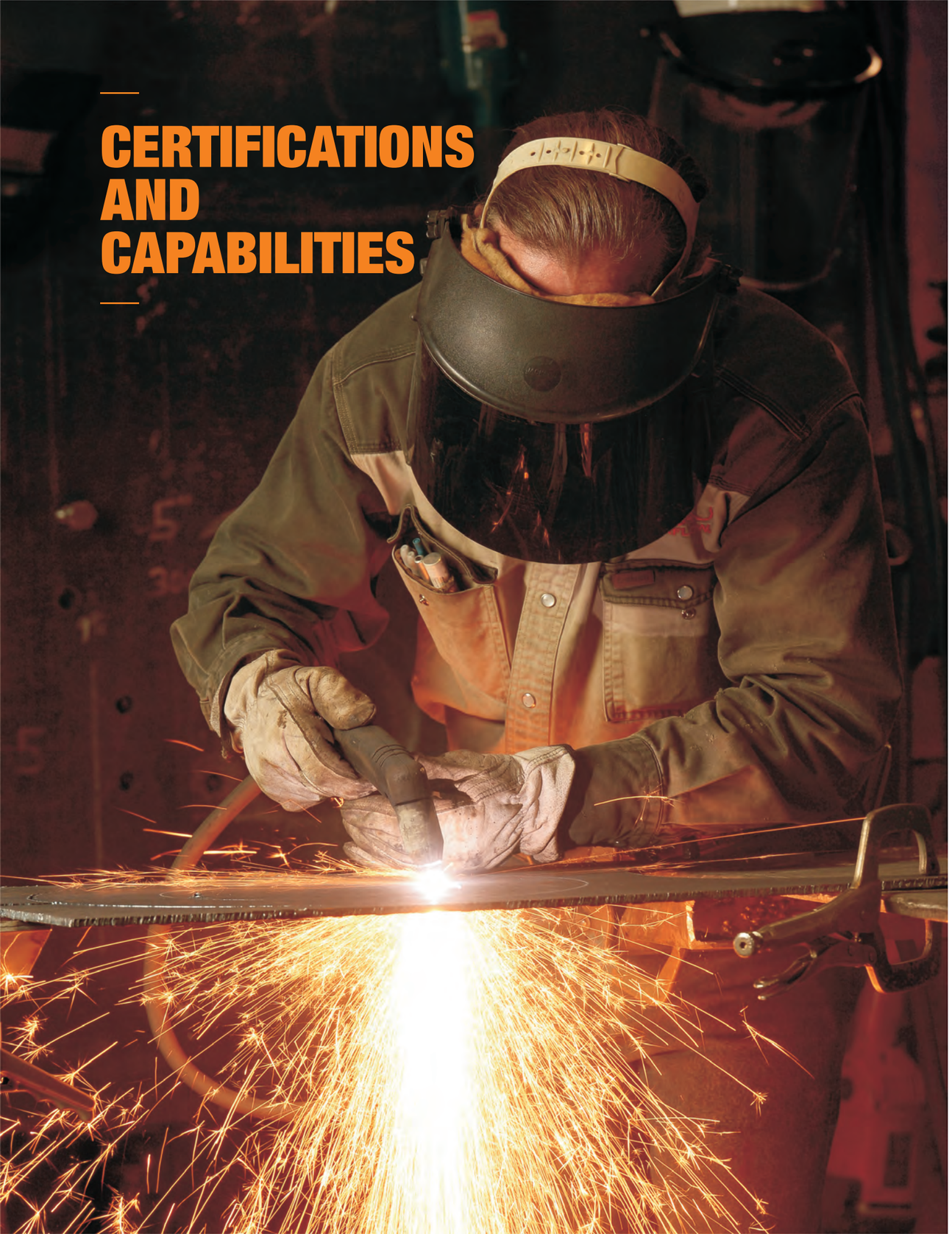
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TIGERFLOW PUMPS

Located in Dallas, TIGERFLOW has been designing and manufacturing pumping equipment for more than 35 years. Known for the ability to provide the greatest quality products with passion for customer service and innovation, TIGERFLOW strives to provide engineered pumping solutions to the world.

TIGERFLOW pumps are designed and built with the highest quality standards, including high-efficiency designs for the continuously improving energy-efficient buildings and plants. They are suitable for use in a wide variety of industries like commercial, industrial, pharmaceutical, water and wastewater among many others.



CERTIFICATIONS AND CAPABILITIES

WHY TIGERFLOW?

• Manufacturing Plant

- 88,000 square feet manufacturing facility
- Seven manufacturing work centers, including welding, assembly, control panel shop, electrical installation, painting, and testing
- AWS and ASME Certified structural and pipe welders
- NIST Traceable testing facility
- UL 508A Certified control panel shop
- In-house degreed and professional engineers for mechanical, electrical and software design

• Certifications

- ISO 9001: 2015 certified facility
- Certificate of product liability insurance
- ETL/C-ETL Listed packaged fire pump systems
- NFPA 20 certified engineers and designers
- UL/ C-UL listed packaged pumping system label "QCZJ"
- UL FDNP.MH61218 Drinking Water System Components NSF-61
- UL FDNP7.MH61218 Drinking Water System Components Certified for Canada NSF-61
- UL QNVB.MH61218 Lead Content Verification of Products in Contact with Potable Water NSF-372
- UL QNVB7.MH61218 Lead Content Verification of Products in Contact with Potable Water Certified for Canada NSF-372
- IAMPO 6940 California low lead AB1953/116875
- UL/C-UL 508/918 industrial control panel facility
- Pipe welders certified to ASME Section IX
- Structural welders certified per AWS D1.1
- CMR 248 Massachusetts Plumbing Code Approval #P3-0204-58
- State of Ohio Industrialized Buildings Authorization #308.02
- State of Washington, Dept. of Labor & Industries Approval

TIGERFLOW
TMHS SERIES

MULTISTAGE HORIZONTAL STAINLESS CENTRIFUGAL PUMP 60Hz



General Information

The TMHS Pump is a multistage centrifugal pump with end suction connection and modular design. This pump is very versatile for different applications and configurable for multiple duty points. Stainless steel construction materials make it reliable and long-lasting.

Model Key, TMHS

- **TMHS 4/3**

TMHS 4 / 3

- 3 — Number of stages
- 4 — Base model
- TMHS — TIGERFLOW Multistage Horizontal Stainless

Specifications

- **Liquids**

- Light liquids, non-flammable and non-explosive without solids like grains or fibers
- Mineral water, softened water pure water
- For other liquids please consult the factory

Operating Conditions

- Fluid temperature: 5 °F to 160 °F (High temperature version up to 220°F)
- Ambient temperature: 32 °F to 100 °F
- Maximum working pressure: 145 psig

TEFC Nema Premium Efficiency Motor

Applications

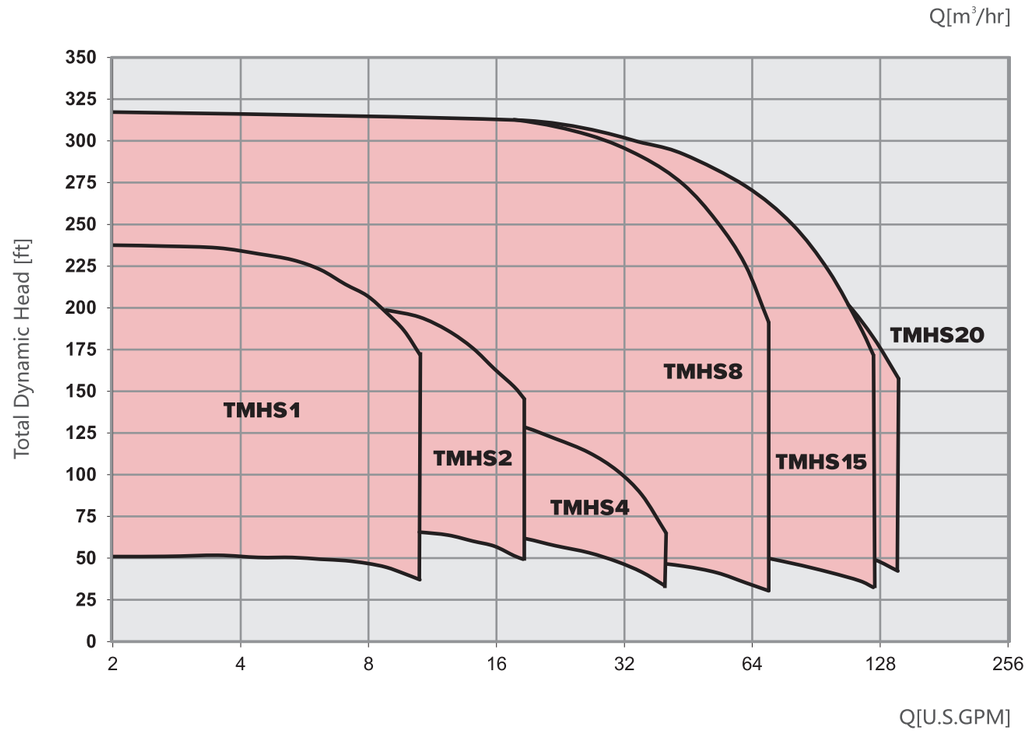
- Potable water applications
- HVAC
- Cooling and heating water systems
- Water treatment and purification
- Ultra-filtration and distilling systems
- Dosing/mixing
- Degreasing and equipment washing
- Irrigation and aquaculture
- Fertilization or fertigation
- Municipal water distribution



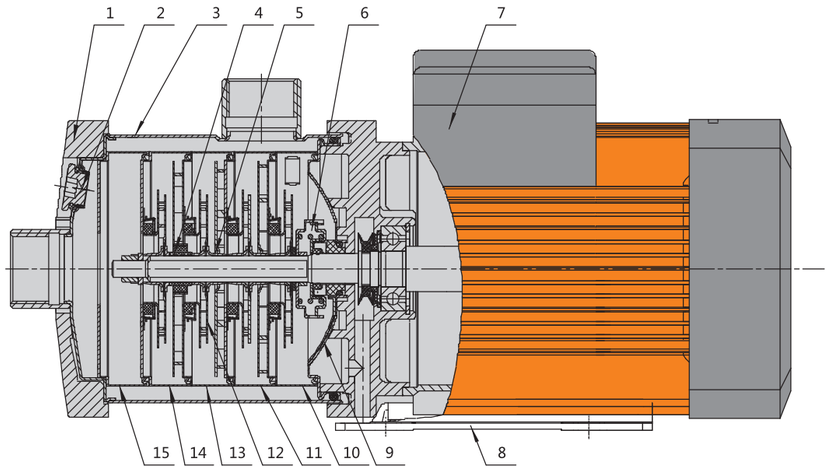
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TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

Performance Range



TMHS1/2/4 Sectional Drawing



Material List

No.	Name	Material	AISI/ASTM
1	Clamp plate	Die-casting aluminum	ASTM383.1
2	Plug	Stainless steel	AISI304
3	Inlet and outlet chamber	Stainless steel	AISI304
4	Bearing	Tungsten carbide	
5	Impeller sleeve	Stainless steel	AISI304
6	Mechanical seals	Graphite/Silicon carbide	
7	Motor		
8	Base plate	Steel plate	AISI1015
9	Back seat	Stainless steel	AISI304
10	Top diffuser	Stainless steel	AISI304
11	Diffuser	Stainless steel	AISI304
12	Impeller	Stainless steel	AISI304
13	Support diffuser	Stainless steel	AISI304
14	Inducer	Stainless steel	AISI304
15	Inducer cover	Stainless steel	AISI304

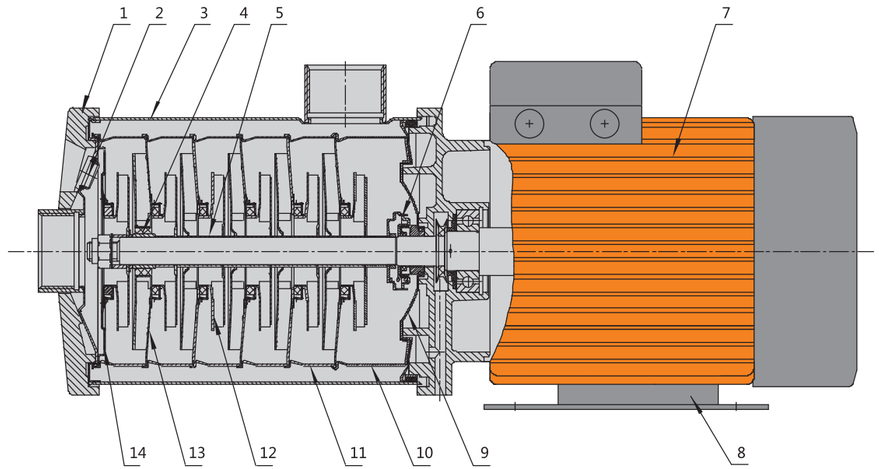
Note: Other materials can be customized according to customer requirements.

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TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

GENERAL DATA

TMHS8/15/20 Sectional Drawing



Material List

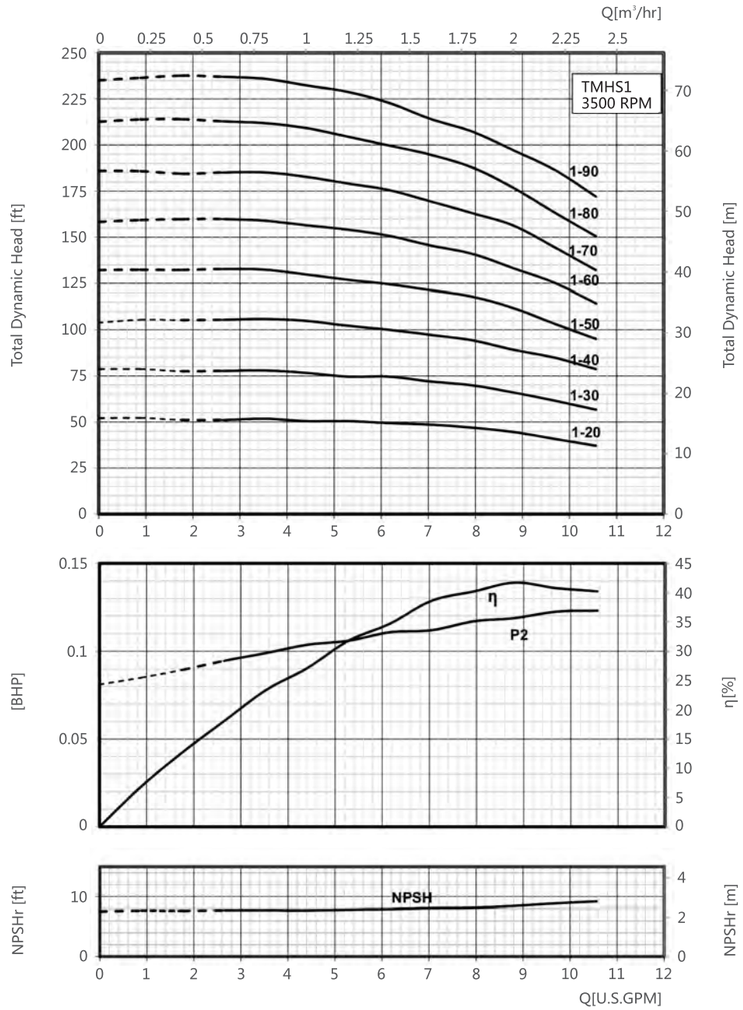
No.	Name	Material	AISI/ASTM
1	Clamp plate	Die-casting aluminum	ASTM383.1
2	Plug	Stainless steel	AISI304
3	Inlet and outlet chamber	Stainless steel	AISI304
4	Bearing	Tungsten carbide	
5	Impeller sleeve	Stainless steel	AISI304
6	Mechanical seals	Graphite/Silicon carbide	
7	Motor		
8	Base plate	Steel plate	AISI1015
9	Back seat	Stainless steel	AISI304
10	Discharge diffuser	Stainless steel	AISI304
11	Diffuser	Stainless steel	AISI304
12	Impeller	Stainless steel	AISI304
13	Support diffuser	Stainless steel	AISI304
14	Inducer	Stainless steel	AISI304

Note: Other materials can be customized according to customer requirements.

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS1 . 60Hz

• Performance Curve



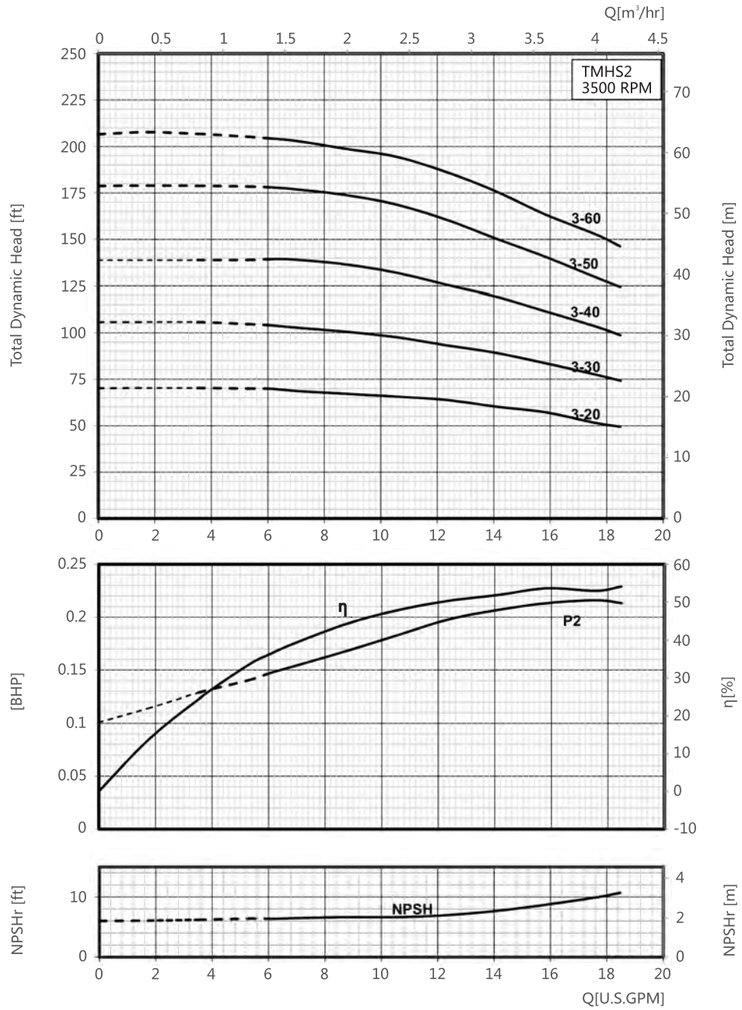
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	2.6	3.5	4.4	5.3	6.2	7.0	7.9	8.8	9.7	10.6
TMHS1-20	0.37	0.5	H(FT)	52.8	52.2	52.5	51.2	50.2	49.5	47.9	47.2	44.0	40.7	38.4
TMHS1-30	0.37	0.5		79.4	78.1	78.7	77.1	75.1	74.5	72.2	70.9	65.9	61.7	57.7
TMHS1-40	0.37	0.5		105.3	106.3	106.0	104.7	102.7	100.4	97.8	94.2	89.9	85.0	79.7
TMHS1-50	0.55	0.75		133.2	131.9	132.9	130.6	127.3	125.3	121.7	119.4	111.9	103.3	95.5
TMHS1-60	0.55	0.75		159.8	158.1	159.4	155.8	152.9	150.6	146.3	143.4	134.5	122.0	114.8
TMHS1-70	0.75	1		186.4	184.4	186.0	182.1	178.1	175.5	170.6	167.0	156.8	144.7	133.9
TMHS1-80	0.75	1		212.9	211.0	212.6	209.3	203.7	200.8	194.9	190.9	179.1	161.4	152.9
TMHS1-90	1.1	1.5		236.2	236.2	235.9	232.9	228.0	222.8	215.2	204.7	199.1	187.7	175.5

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS2 . 60Hz

• Performance Curve



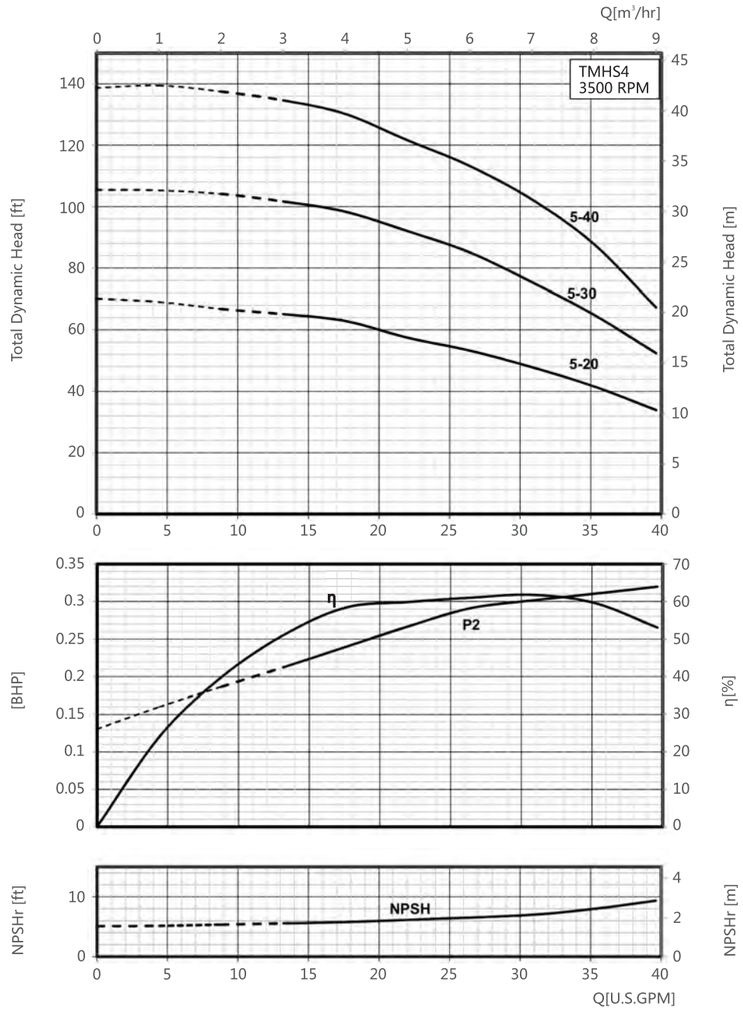
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	6.2	7.9	10.6	12.3	13.2	15.9	18.5
TMHS2-20	0.37	0.5	H(FT)	70.9	69.9	69.2	65.0	63.0	58.4	55.8	49.2
TMHS2-30	0.55	0.75		106.6	104.3	102.4	97.8	93.5	91.5	83.3	74.1
TMHS2-40	0.75	1		139.1	139.8	138.5	129.9	126.0	116.8	111.5	98.1
TMHS2-50	1.1	1.5		178.5	177.5	176.2	165.4	160.4	149.0	143.7	124.7
TMHS2-60	1.1	1.5		207.0	204.1	200.8	191.9	186.0	180.1	164.4	146.7

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS4 . 60Hz

• Performance Curve



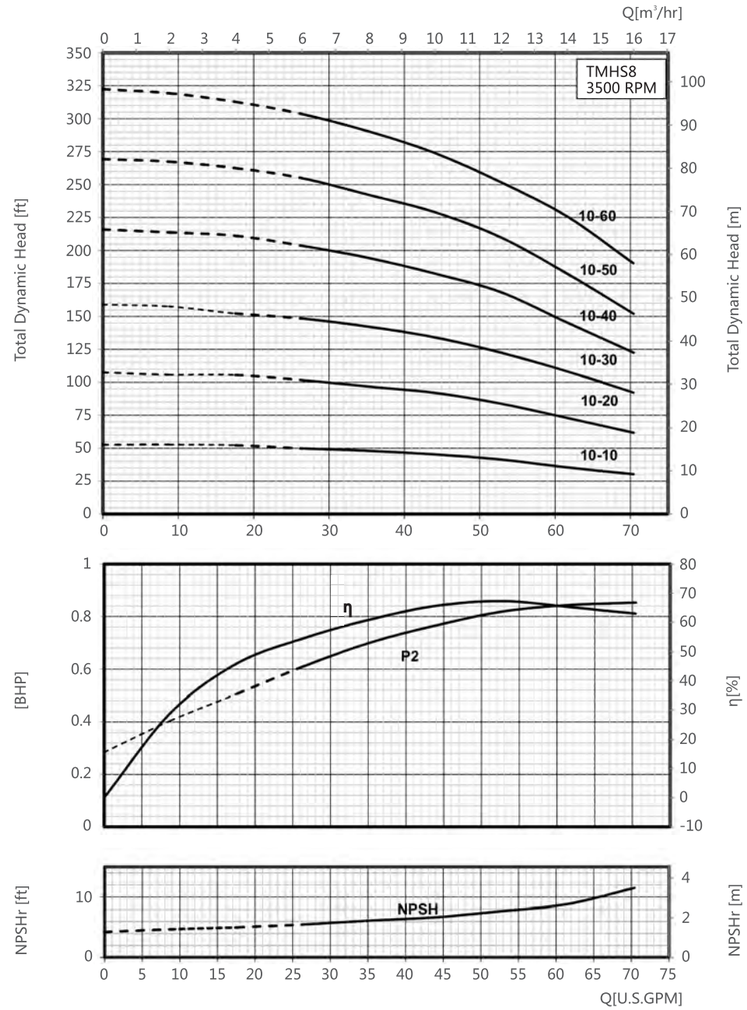
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	13.2	17.6	22.0	26.4	30.8	35.2	39.6
TMHS4-20	0.55	0.75	H(FT)	69.9	65.0	62.3	57.7	52.8	47.6	41.3	34.4
TMHS4-30	0.75	1		105.0	101.4	96.1	91.5	84.6	76.1	61.7	49.9
TMHS4-40	1.1	1.5		139.1	134.5	129.6	122.0	113.2	102.4	88.3	66.6

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS8 . 60Hz

• Performance Curve



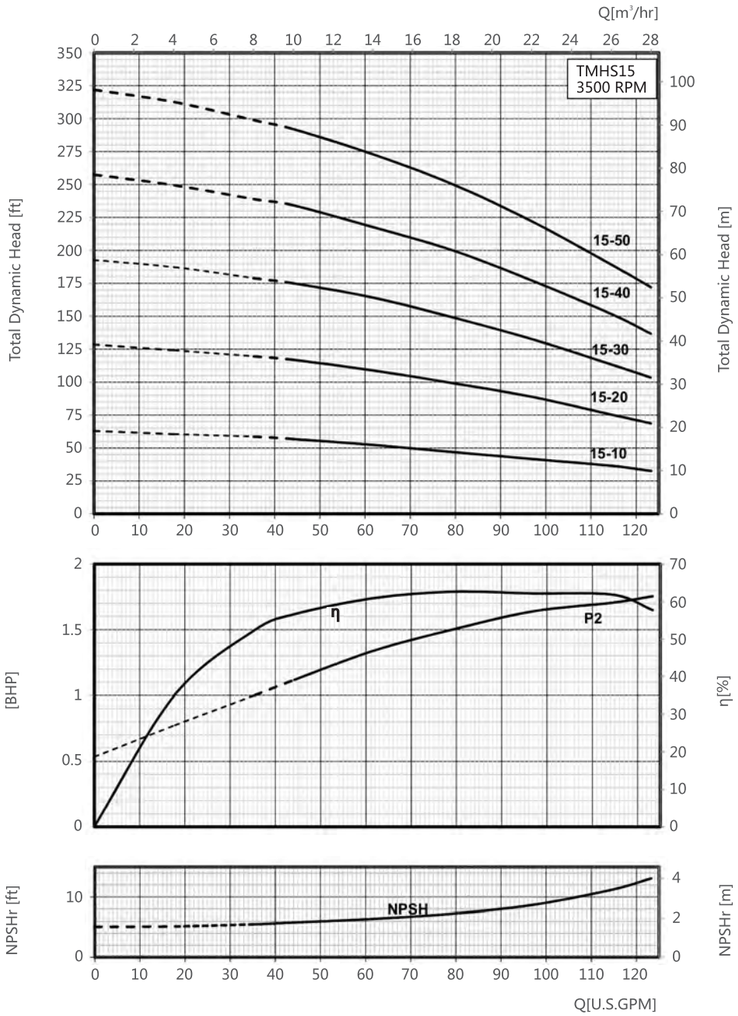
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	26.4	35.2	44.0	52.8	61.6	70.4
TMHS8-10	0.75	1	H(FT)	54.1	50.9	48.6	45.9	42.0	36.7	30.8
TMHS8-20	1.5	2		107.9	102.0	97.1	92.2	84.0	73.2	61.4
TMHS8-30	2.2	3		160.1	149.3	143.0	133.9	123.7	109.3	91.9
TMHS8-40	3	4		216.2	203.7	170.3	184.1	168.3	146.7	122.7
TMHS8-50	4	5.5		270.3	254.9	243.1	230.0	210.6	181.4	151.9
TMHS8-60	4	5.5		322.8	303.5	290.4	274.3	253.0	226.4	188.6

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS15 . 60Hz

• Performance Curve



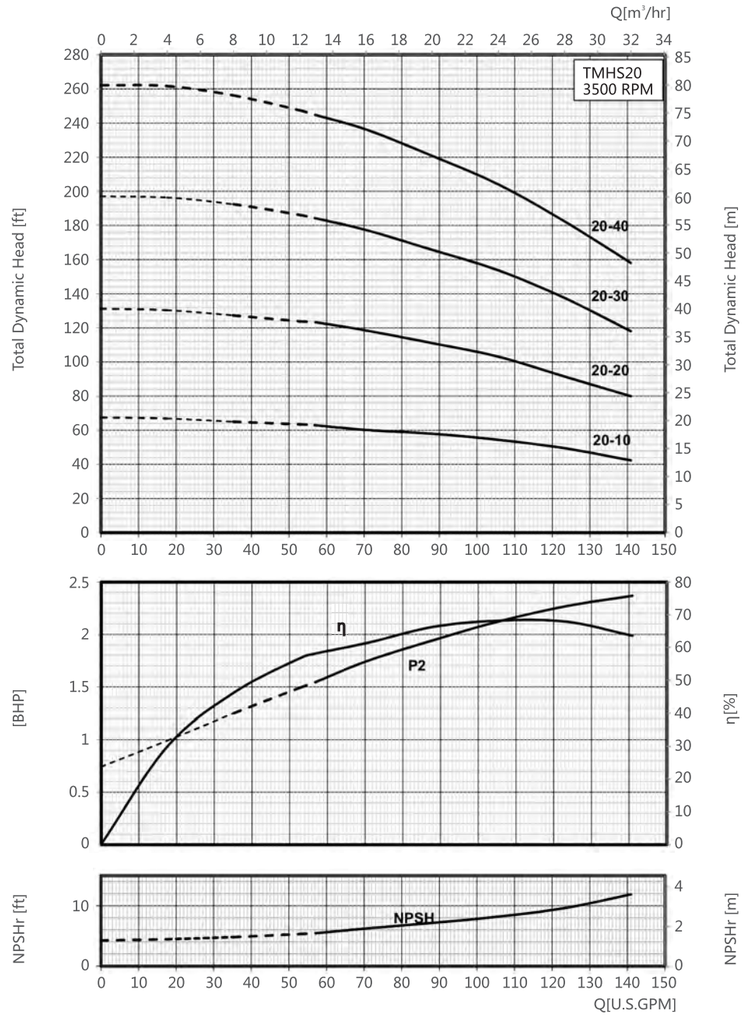
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	44.0	52.8	61.6	66.0	70.4	79.3	88.1	96.9	105.7	114.5	123.3
TMHS15-10	1.5	2	H(FT)	65.3	57.7	56.4	54.5	53.8	52.5	50.5	47.9	44.6	40.7	37.7	32.8
TMHS15-20	3	4		129.3	116.8	113.5	109.3	107.3	107.3	100.4	94.8	89.2	82.7	76.1	68.9
TMHS15-30	4	5.5		196.5	177.2	173.6	170.3	165.4	165.4	159.1	153.2	144.0	133.5	118.4	99.4
TMHS15-40	5.5	7.5		258.5	233.6	226.7	218.2	214.2	209.6	200.8	189.6	178.1	165.7	152.2	137.8
TMHS15-50	7.5	10		323.5	292.0	283.5	273.0	268.0	262.1	251.0	236.9	222.8	207.0	190.3	171.9

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS20 . 60Hz

• Performance Curve



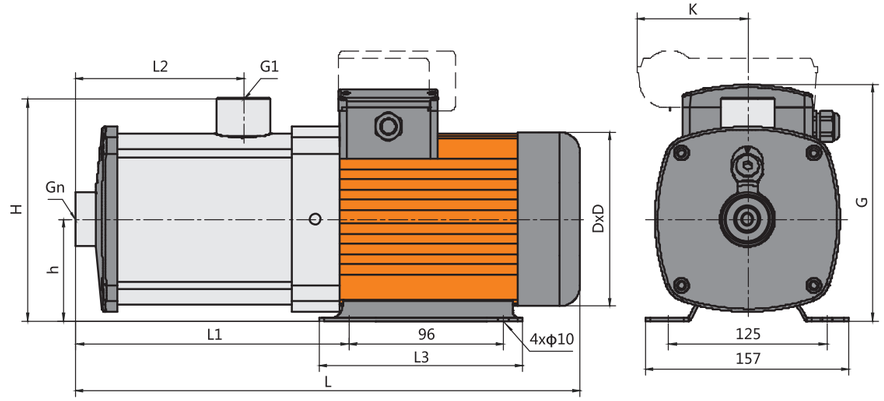
• Performance Table

Model	Driving Motor (Kw)	Driving Motor (Hp)	Q (GPM)	0.0	57.2	66.0	74.9	88.1	101.3	114.5	127.7	140.9
TMHS20-10	2.2	3	H(FT)	68.2	62.0	60.7	59.4	57.4	55.1	52.2	47.6	42.3
TMHS20-20	4	5.5		131.2	122.4	119.4	115.8	110.2	103.7	96.5	88.3	78.7
TMHS20-30	5.5	7.5		196.5	183.4	179.1	173.9	165.4	155.8	144.7	132.5	118.1
TMHS20-40	7.5	10		262.1	244.8	238.8	232.0	220.5	207.7	192.9	176.8	157.5

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS1/2/4 . 60Hz

• Installation Sketch



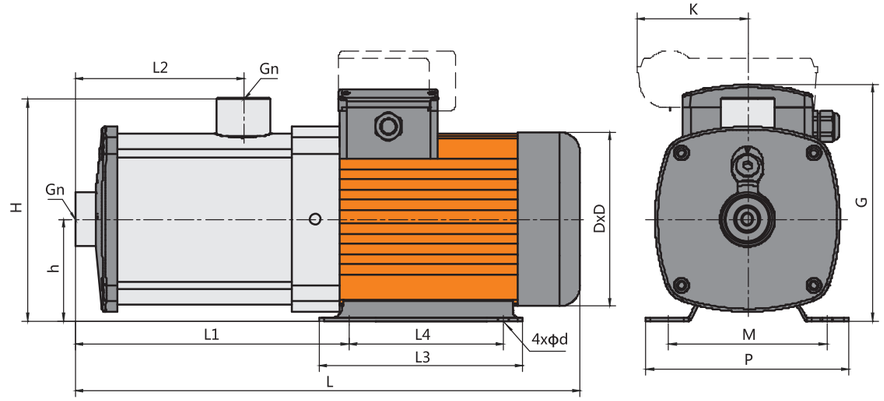
• Dimensions and Weight

Model	Size(in)													Weight (lbs)
	L	L1		L2	L3	h	H	G		D		n	K	
		1φ	3φ					1φ	3φ	1φ	3φ			
TMHS1-20	12.91	5.39	5.39	3.07	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	20.94
TMHS1-30	12.91	5.39	5.39	3.07	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	20.94
TMHS1-40	13.70	6.18	6.18	3.86	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	20.94
TMHS1-50	14.49	6.97	6.97	4.65	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	25.35
TMHS1-60	15.28	7.76	7.76	5.43	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	25.35
TMHS1-70	16.89	8.54	8.46	6.22	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	30.86
TMHS1-80	17.68	9.33	9.25	7.01	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	33.07
TMHS1-90	18.46	10.12	10.04	7.80	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	34.17
TMHS2-20	12.91	5.39	5.39	3.07	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	23.15
TMHS2-30	12.91	5.39	5.39	3.07	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1	2.44	28.66
TMHS2-40	14.53	6.18	6.10	3.86	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	31.97
TMHS2-50	15.31	6.97	6.10	4.65	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	31.97
TMHS2-60	16.10	7.76	6.89	5.43	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1	3.58	33.07
TMHS4-20	12.68	5.16	5.16	2.83	5.91	2.95	6.48	7.01	8.35	5.55	5.55	1¼	2.44	23.15
TMHS4-30	15.63	7.28	7.20	4.96	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1¼	3.58	28.66
TMHS4-40	15.63	7.28	7.20	4.96	6.30	3.35	6.88	7.68	9.06	5.94	6.34	1¼	3.58	31.97

TIGERFLOW TMHS SERIES
MULTISTAGE HORIZONTAL
STAINLESS CENTRIFUGAL PUMP
60Hz

TMHS8/15/20 . 60Hz

• Installation Sketch



• Dimensions and Weight

Model	Size(in)																		Weight (lbs)
	L		L1		L2	L3	L4	h	H	n	d	D		G		M	P	K	
	1φ	3φ	1φ	3φ								1φ	3φ	1φ	3φ				
TMHS8-10	14.41	14.49	6.85	7.17	3.07	5.51	3.78	3.94	8.58	1½	0.39	5.94	6.34	8.24	9.69	4.92	6.22	3.58	31.97
TMHS8-20	16.02	16.50	7.50	6.73	3.07	7.87	5.51	3.94	8.58	1½	0.39	6.73	6.89	8.66	10.08	6.30	7.87	3.58	44.09
TMHS8-30	17.20	17.68	8.68	7.91	4.25	7.87	5.51	3.94	8.58	1½	0.39	6.73	6.89	8.66	10.08	6.30	7.87	3.58	55.12
TMHS8-40	20.39		9.80		5.43	7.09	5.51	3.96	8.60	1½	0.39	7.72		9.15		6.30	7.87		717.60
TMHS8-50	22.01		11.73		6.61	7.09	5.51	4.41	9.06	1½	0.47	8.41		10.31		7.48	9.06		83.78
TMHS8-60	23.19		12.91		7.80	7.09	5.51	4.41	9.06	1½	0.47	8.41		10.31		7.48	9.06		83.78
TMHS15-10	16.54	17.01	8.01	7.24	3.66	7.87	5.51	3.94	8.58	2	0.39	6.73	6.89	8.66	10.08	6.30	7.87	3.58	40.79
TMHS15-20	18.54		7.95		3.66	7.09	5.51	3.96	8.60	2	0.39	7.72		9.27		6.30	7.87		63.93
TMHS15-30	20.75		10.47		5.43	7.09	5.51	4.41	9.06	2	0.47	8.41		10.31		7.48	9.06		82.67
TMHS15-40	24.33		12.78		7.20	7.24	5.51	5.20	9.84	2	0.47	10.12		11.81		8.50	9.76		106.92
TMHS15-50	26.10		14.55		8.98	7.24	5.51	5.20	9.84	2	0.47	10.12		11.81		8.50	9.76		117.95
TMHS20-10	16.54	17.01	8.01	7.24	3.66	7.87	5.51	3.94	8.58	2	0.39	6.73	6.89	8.66	10.08	6.30	7.87	3.58	46.30
TMHS20-30	18.98		8.70		3.66	7.09	5.51	4.41	9.06	2	0.47	8.41		10.31		7.48	9.06		79.37
TMHS20-30	22.56		11.00		5.43	7.24	5.51	5.20	9.84	2	0.47	10.12		11.81		8.50	9.76		104.72
TMHS20-40	23.19		11.63		7.20	7.24	5.51	5.20	9.84	2	0.47	10.12		11.81		8.50	9.76		120.15

Personal Responsibility In Delivering Excellence

WE HAVE PRIDE IN EVERYTHING WE DO!

