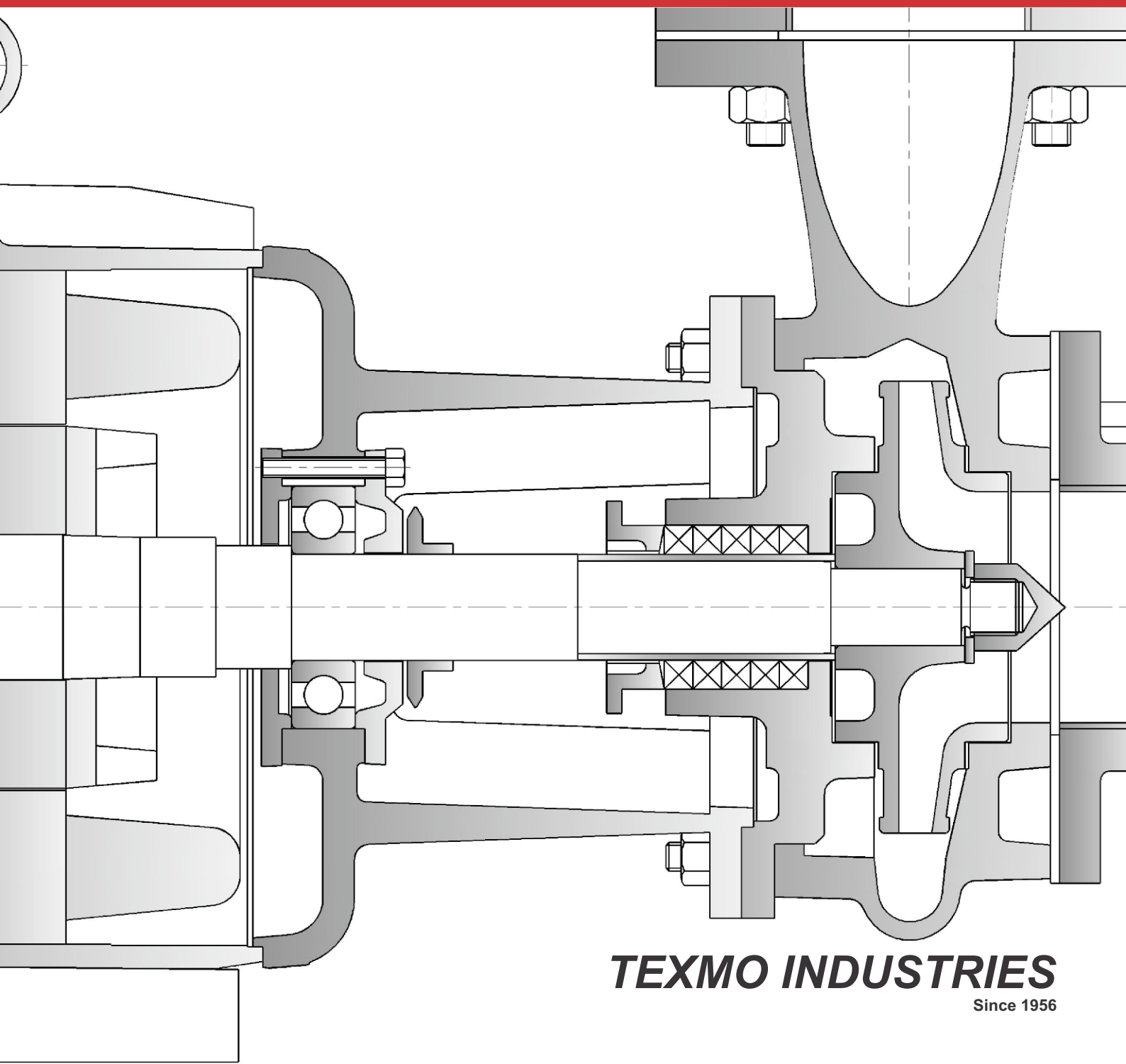




## THREE PHASE MONOBLOCS PERFORMANCE CHART



**TEXMO INDUSTRIES**

Since 1956

## GENERAL INFORMATION

### PERFORMANCE RELATED SPECIFICATIONS

- Recommended voltage range :  
(At motor terminal)
 

Single Phase	Three Phase
180 - 240 V	350 - 440 V
150 - 200 V (L-Series)	250 - 380 V (L-Series)
- Electric power supply : 415 / 220 V, 50 Hz, AC power supply
- Connection :
 

Group	DOL	SD
MB / BMT	Up to 2 HP	3 HP & above
- Suitable overload relay for three phase and MCB for single phase products are to be provided as an electrical safety measure for the machine.
- Advisable to operate in the pump set in the recommended range for trouble free operation and to ensure a long life.
- Time interval between subsequent starts : 5 minutes (minimum)
- Pump sets are suitable for pumping clear, cold, non-aggressive water without any abrasive solid particles with the following characteristics
 

Temperature	: 33°C Maximum
Allowable sand content	: 50 mg / lit Maximum
Total Dissolved Solids	: 3000 mg / lit Maximum
Hardness	: 300 Maximum
pH value	: 6.5 - 8.5
Direction of rotation	: Anti clockwise when viewed from the delivery side of the pump

### Others

- Performance values given are subject to change in accordance with prevailing voltage and frequency conditions.
- Head values given in the performance charts are exclusive of pipe friction and fitting losses. These losses need to be taken into account while calculating the actual total head before selecting a suitable pump set.
- All performance values given are based on a suction head of 6 metres.
- In view of continuous improvements on existing products, information and performance values given in the catalogue are subject to change without notice.

Note : Shaded figures in the chart indicate the recommended operating range.



## PUMP SELECTION

Irrigation wells and pumps are costly installations, which require efficient utilization. A major part of the energy used in agriculture is in pumping water. Hence efficient utilization of the limited energy resources calls for the selection of the most suitable pump, keeping in view the requirements of irrigation, characteristics of the well / water source, kind of power available, economic conditions of the farmer and other factors. It is a process of matching of well and pump characteristics for optimum water output.

### CRITERIA FOR SELECTION

The main factors influencing the selection of pumping sets are :

- i. Peak water requirement
- ii. Yield of well or water source
- iii. Availability of energy

### WATER REQUIREMENT, V IN L/D

It is the maximum quantity of water required in litres / day to meet out the daily crop water requirement and pumping rate in l/s is calculated by  $V / (T \times 3600)$  where, T – Average pumping hours.

#### Relevant Details

1. Daily crop water requirement in litres or cm for different stages
2. Cropped area in  $m^2$  ( $m^2 \times cm \times 10$  will give water requirement in litres)

### YIELD OF WELL OR WATER SOURCE, Y IN L/S

It is the recuperation rate at which water recharges into the well and it is the maximum rate at which water can be pumped out under steady draw down conditions. This can be assessed directly from pump testing results or converted from inch to lit./s referring to discharge table.

#### Relevant Details

1. Type of water source (Open well / River / Sump)
2. Static water level below ground level (Water level when pump is switched off)
3. Dynamic water level below ground level (Expected level when pump is switched on)
4. Expected maximum low water level during summer
5. Proposed pump set erection depth
6. Existing / proposed pipe details (Sizes and lengths)
7. Vertical elevation from water source to discharge point
8. Number of fittings like (Tee, Bends, Valves etc.,)

### ENERGY AVAILABLE, HP

It is the quantitative and qualitative data on the power available for pumping out the water from the water source. This includes phase, sanctioned HP, frequency, voltage fluctuation and three and two phase power supply and time of which power is available.

#### Relevant Details

1. Main line to starter distance
2. Starter to pump set distance



## Selection Procedure

### Step 1 - Discharge calculation, Q

V – Maximum crop water requirement in litres, D in case of irrigation depth in cm for peak demand of water for the selected cropping pattern

A – Cropped area in m<sup>2</sup>

T – Allowed water filling time or pumping time in sec (considering power availability hrs)

Required pumping rate,  $Q = V / T$  or  $(D \times A \times 10) / T$

[In case of trying out maximum possible discharge, Q is to be assumed]

### Step 2 – Comparison of discharge, Q with yield, Y

As indicated earlier, discharge rate has to be limited to 80% of the safe yield for trouble free performance and better pump life avoiding any dry running

### Step 3 – Selection of pump size or series

Based on the calculated discharge rate, Q the suitable pump size is to be selected. In case of bore well submersibles, suitable pump series is to be selected considering bore well size also.

### Step 4 – Total head calculation, H

#### Suction head, H<sub>s</sub>

D<sub>s</sub> – Size of suction pipe in mm

L<sub>s</sub> – Length of suction pipe in m including equivalent length of pipe for the fittings

V<sub>s</sub> – Vertical distance of pump set from working water level in m

Refer to pipe friction loss chart or table and read friction value, F<sub>s</sub>% in m / 100 m length of suction pipe against discharge, Q and existing or selected pipe size, D<sub>s</sub>.

Pipe friction in suction pipe,  $F_s = (L_s \times F_s\%) / 100$

Suction head,  $H_s = V_s + F_s$

Note: For Submersible pump sets the suction head value is zero

#### Delivery head, H<sub>d</sub>

D<sub>d</sub> – Size of delivery pipe in mm

L<sub>d</sub> – Length of delivery pipe in m including equivalent length of pipe for the fittings

V<sub>d</sub> – Vertical distance of discharge point from pump set level in m including ground elevation

Refer to pipe friction loss chart or table and read friction value, F<sub>d</sub>% in m per 100 m length of delivery pipe, against discharge, Q and existing or selected pipe size, D<sub>d</sub>.

Pipe friction in delivery pipe,  $F_d = (L_d \times F_d\%) / 100$

Delivery head,  $H_d = V_d + F_d$

### Step 5 – Total head

Total head,  $H = H_s + H_d + H_f + H_e$

H<sub>f</sub> – Fitting loss in the entire pipeline system (Refer to fitting loss table)

H<sub>e</sub> – Exit pressure head at discharge point as required



## Step 6 – Energy requirement

Approx. energy requirement,  $HP = (Q \times H) / (75 \times E_p)$

$E_p$  – Pump efficiency value in fraction, which varies with product HP and pipe size

Select an appropriate pump model or stage for the given total head,  $H$  and discharge,  $Q$  referring to the product performance chart. Best efficiency point (declared duty point) is always preferred. If the HP of the selected pump model is less than the sanctioned HP, then we may proceed with the same. If not, assumed or calculated  $Q$  has to be reduced and above steps are to be repeated.

In case of bore well submersible pump sets, correct product series is to be decided based on the required pumping rate  $Q$  before selecting a suitable pump model and number of stages.

## SELECTION OF PUMPS FOR PARALLEL CONNECTIONS

Requirement of parallel connections arises when the required discharge rate is not met with the available pump models. In this case two or more pumps with almost matching pressure head should be selected. Following factors are to be considered for parallel operations.

- a. Pumps of similar head characteristics are to be selected
- b. No pump should operate at its shut off head or above maximum permissible head
- c. No pump should operate below recommended head range as this leads to cavitation

## SELECTION OF PUMPS FOR SERIES CONNECTIONS

Requirement of series connections arises when the required total head is not met with the available pump models. In this case two or more pumps with almost matching discharge rate should be selected. Series installations of pumps are to be spaced in such a way that neither the pump gets overloaded or ends up with discharge cavitation.

## OTHER FACTORS AFFECTING THE PUMP PERFORMANCE (after installation)

1. Suction head variation
2. Dynamic water level i.e., draw down variation
3. Condition of existing pipe line including inner roughness / amount of sedimentation and the life
4. Recharge rate of water source
5. Frequency and voltage conditions

### Cable selection

$V_a$  – Actual voltage available in the field (Volts)

$V_r$  – Rated voltage of the motor (Volts)

$L_a$  – Actual cable length from starter to motor terminal (metre)

$HP$  – Power of the selected motor

$I$  – Full load current of the selected motor [For SD motors, it is  $1/\sqrt{3}$  times the FL current] (Amperes)

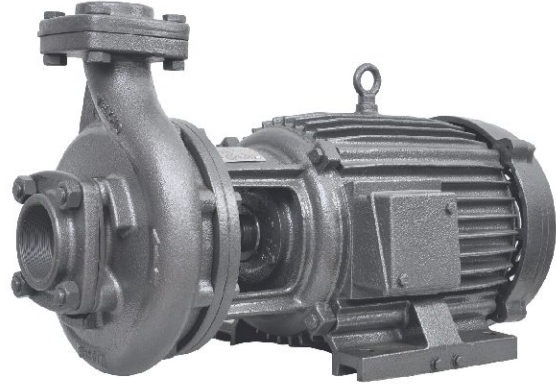
$L_c$  – Calculated equivalent cable length  $(V_r \times L_a) / V_a$  (metre)

Refer to cable selection chart and select appropriate cable size for the given  $I$  and  $L_c$  values.

Follow the same procedure for selecting suitable wire / cable size for mail line to starter.



## Three Phase High Speed Monoblocs (TMH)



### PRODUCT FEATURES

- Easy Installation and low operating cost.
- Improved efficiency and minimal maintenance by having the set operated on a common shaft.
- Dynamically balanced rotors and impellers ensure vibration free performance and enhanced life.
- Easy handling with an eye bolt.
- Aluminium pressure die-cast rotors press-fitted onto precision machined motor shafts.
- Accurate control on the uniformity in air gap to minimize vibration
- Deep groove ball bearings packed with right quantity of special grease ensures long life.
- Rigorous quality control testing at every stage of manufacturing ensures higher efficiency.
- Low temperature with Class A insulation ensures long trouble free operation.
- Squirrel-cage motor of TEFC type designed to operate in a wide voltage range 350 - 440 V, 50 Hz, AC power supply

### MATERIAL OF CONSTRUCTION

Part Name	Material	Part Name	Material
Impeller	CI FG 200	Gland / Packing rope	AISI 410 / Grease graphited cotton
Casing	CI GR 180	Motor Body	CI GR 180
Sleeve	AISI 410	Shaft	45C8 / 55C8
Stuffing Box	CI GR 180	Winding Wire	Enameled / Dual coated copper

### APPLICATIONS

Irrigation (Flood, Sprinkler, Drip) | Drinking water supply | Industrial water supply | Cooling water circulating systems



## PERFORMANCE CHART










### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (STAR / ISI)

Approximate performance values of TMH series - Star / ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	MOTOR RATING		Pipe Size (mm)		TOTAL HEAD VALUES																			
					Metres	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	42	44	46
	kW	HP	Suc.	Del.	Feet	26	33	39	46	52	59	66	72	79	85	92	98	105	112	118	125	138	144	151
TMH 28	1.5	2	50	40	DISCHARGE VALUES IN /s			5.9	5.8	5.6	5.2	4.7	3.9	2.8										
TMH 29	1.5	2	65	50			10.0	8.8	7.5	5.3														
TMH 2 Q	2.2	3	65	50					13.1	12.6	11.6	10.3	8.3											
TMH 45 H	2.2	3	65	50			9.78	9.7	9.4	9.1	8.6	7.8	6.5	4.32										
TMH 12	2.2	3	75	65		16.4	15.0	13.3	10.5	6.4														
TMH 4 Q	3.7	5	65	50							13.5	13.2	12.9	12.4	11.4	9.1								
TMH 48 H	3.7	5	65	50							13.3	12.8	12.2	11.2	9.5	7.5	5.4							
TMH 6 Q	3.7	5	75	65					18.5	18.1	17.2	15.7	12.8	8.3										
TMH 46 H	3.7	5	75	65					16.9	16.4	15.7	14.3	12.2	8.7	5.2									
TMH 37	3.7	5	100	75			24.8	23.9	21.8	18.5	9.1													

### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (STAR / ISI)

Approximate performance values of TMH series - Star / ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name		MOTOR RATING		Pipe Size (mm)		TOTAL HEAD VALUES																				
						Metres	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	54	56
		kW	HP	Suc.	Del.	Feet	52	59	66	72	79	85	92	98	105	112	118	125	131	138	144	151	157	164	177	184
TMH 8 Q		5.5	7.5	65	50	DISCHARGE VALUES IN L/S						14.4	14.4	14.3	14.1	13.8	13.1	11.2								
TMH 13		5.5	7.5	100	75		26.0	24.8	22.5	19.0	14.3															
TMH 14 QB 		7.5	10	65	50										12.0	11.9	11.9	11.8	11.8	11.7	11.7	11.6	11.5	11.3	10.5	
TMH 11 X		7.5	10	75	65								18.8	18.5	17.9	16.8	14.8	12.3	10.2							
TMH 15 Q		7.5	10	100	75					28.3	26.0	23.5	20.0	16.6												
TMH 18 Q 		9.3	12.5	65	50												14.1	14.1	14.0	14.0	13.9	13.8	13.7	13.5	13.1	11.5
TMH 22		9.3	12.5	100	75						28.9	27.6	26.0	23.9	21.4	18.5	15.2									
TMH 24 Q		11	15	75	65									22.9	22.6	22.3	22.0	21.6	21.2	20.8	20.2	19.5	18.5	16.9		
TMH 53 Q		15	20	75	65										22.3	22.2	21.9	21.7	21.3	21.1	20.5	20.1	19.4	18.5	17.8	
TMH 54 Q		15	20	100	75							33.6	32.8	32.0	31.1	30.0	28.7	27.0	25.0	22.4						

Performance conforming to IS : 9079

☒ - Against batch order

☑ Star rated products

#### PRODUCT TYPE KEY

TMH 12 - Texmo, Monobloc, High speed (12 - Pump code)

TMH 4 Q - Texmo, Monobloc, High speed (4 - Pump code, Q - Star rate)

TMH 48 H - Texmo Monobloc, High speed (48 - Pump code, Head)



TMH 11 X - Texmo, Monobloc, High speed (11 - Pump code, X - Extension shaft)



## PERFORMANCE CHART

### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (NON ISI)

Approximate performance values of TMH series - Non ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																											
					Metres	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54			
	kW	HP	suc.	Del.	Feet	26	33	39	46	52	59	66	72	79	85	92	98	105	112	118	125	131	138	144	151	157	164	171	177			
	DISCHARGE VALUES IN L/S																															
TMH 61	0.75	1	25	25							1.4	1.3	1.3	1.2	1.0	0.8	0.6															
TMH 63 G 	0.75	1	30	25				4.3	4.1	3.7	2.9	1.6																				
TMH 50 	1.1	1.5	40	30							3.5	3.4	3.1	2.8	2.3	1.5																

### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (NON ISI)

Approximate performance values of TMH series - Non ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																											
					Metres	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54			
	kW	HP	suc.	Del.	Feet	26	33	39	46	52	59	66	72	79	85	92	98	105	112	118	125	131	138	144	151	157	164	171	177			
TMH 30 UH	2.2	3	50	40	DISCHARGE VALUES IN L/S									5.5	5.4	5.2	4.7	4.0	3.2	2.6												
TMH 30 F	2.2	3	50	40						6.7	6.6	6.4	6.1	5.8	5.1	4.0																
TMH 2 H	2.2	3	65	50					13.2	12.7	12.3	11.8	11.2	10.5	9.4																	
TMH 62 ☒	2.2	3	75	65		15.2	14.2	12.7	10.5	7.7	5.1																					
TMH 31 UH ☒	3.7	5	50	40																5.6	5.5	5.3	5.1	4.7	4.1	3.6	2.6					
TMH 31 FH	3.7	5	65	50											11.4	11.3	11.2	11.0	10.8	10.3	9.5											
TMH 4 H	3.7	5	65	50						14.8	14.3	13.8	13.2	12.5	11.4	9.5																
TMH 6 H	3.7	5	75	65					19.4	18.8	18.4	17.7	16.6	13.4	9.17																	
TMH 35 F	5.5	7.5	65	50																9.3	9.2	9.1	9.0	8.8	8.5	8.0	5.8					
TMH 35 FH	5.5	7.5	65	50																11.5	11.4	11.4	11.3	11.3	11.2	11.0	10.7					
TMH 35 UHF ☒	5.5	7.5	65	50																8.0	7.8	7.6	7.4	7.0	6.6	6.0	5.2	3.7				
TMH 8 H ☒	5.5	7.5	65	50											17.2	16.9	16.4	15.7	14.7	13.4	11.5	9.7										
TMH 10 H	5.5	7.5	75	65								19.1	18.7	18.3	17.8	17.2	16.3	15.1	13.5	11.2	8.0											
TMH 52	5.5	7.5	75	65									19.5	18.6	17.4	15.9	14.0	11.5	8.2													

### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (NON ISI)

Approximate performance values of TMH series - Non ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																															
					Metres	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	70	72	74	76	80	82	
	kW	HP	suc.	Del.	Feet	66	72	79	85	92	98	105	112	118	125	131	138	144	151	157	164	171	177	184	190	197	203	210	216	230	236	243	249	262	269	
TMH 43 FS	7.5	10	65	50	DISCHARGE VALUES IN L/S															9.9	9.8	9.7	9.6	9.4	9.3	9.2	9.1	8.8	8.6	8.0	7.0					
TMH 14 HS♦	7.5	10	65	50											13.9	13.9	13.8	13.8	13.7	13.5	13.3	13.0	12.3	11.0												
TMH 14 H♦	7.5	10	65	50											16.4	16.1	15.7	15.3	14.3	13.6	12.6	11.2	10.0													
TMH 11 H	7.5	10	75	65						20.7	20.5	20.3	19.9	19.4	18.5	16.8	14.3	10.0																		
TMH 15 H	7.5	10	100	75				29.5	28.1	26.0	23.0	19.2																								

Performance conforming to IS : 9079

☒ - Against batch order

♦ - Sets are also available with extension shaft

#### PRODUCT TYPE KEY

TMH 62 - Texmo, Monobloc, High speed (62 - Pump code)

TMH 35 UH - Texmo, Monobloc, High speed (35 - Pump code, Ultra Head)

TMH 14 H - Texmo, Monobloc, High speed (14 - Pump code, Head)

TMH 63 G - Texmo, Monobloc, High speed (63 - Pump code, G - Gunmetal impeller)





## PERFORMANCE CHART

### TEXMO "TMH SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (NON ISI)

Approximate performance values of TMH series - Non ISI at 415V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																														
	kW	HP	suc.	Del.	Metres	Feet																													
						20	22	24	26	28	30	32	36	40	42	46	48	50	52	54	56	58	60	62	66	70	72	74	76	80	82	85	88	91	93
TMH 49 F	9.3	12.5	65	50	DISCHARGE VALUES IN L/S														8.3	8.2	8.2	8.1	8.0	7.8	7.6	7.4	6.9	6.2							
TMH 18 H	9.3	12.5	65	50											14.1	14.0	13.9	13.7	13.2	11.1															
TMH 20	9.3	12.5	75	65								21.9	21.7	21.5	20.0	18.5	15.6	11.6																	
TMH 44 FS ☒	11	15	65	50																		10.0	9.7	9.5	9.4	9.3	9.2	9.1	8.8	8.6	8.4	8.0	7.6		
TMH 32 H	11	15	65	50									17.7	17.6	17.4	17.3	17.2	17.0	16.8	16.6	16.4	16.1	15.5	14.4	13.5	12.4									
TMH 24 H ☒	11	15	75	65								23.1	22.6	22.3	21.2	20.4	19.0	16.8	12.9																
TMH 26	11	15	100	75					30.9	30.6	30.4	29.4	26.8	23.1	20.4																				
TMH 60 M	15	20	65	50												14.9	14.8	14.7	14.5	14.2	14.3	13.7	13.7	12.7	12.3	11.6	9.8								
TMH 53 M	15	20	75	65									23.7	23.0	22.6	22.3	21.9	21.4	21.0	20.5	20.0	19.3	17.5	15.1											
TMH 54 M	15	20	100	75								32.9	31.9	30.1	29.0	26.0	24.1	21.1																	
TMH 56 M ☒	15	20	125	100			41.2	41.0	40.8	40.4	39.9	39.3	38.0	33.4	25.4																				
TMH 55 M	18.7	25	75	65													22.3	22.2	22.1	22.0	21.8	21.6	20.9	19.5	18.3	16.5	13.8								
TMH 39 M ☒	22.5	30	100	75												29.9	29.3	29.0	28.5	28.0	27.3	26.5	25.4	22.1											
TMH 42 M ☒	22.5	30	125	100								39.7	39.5	38.7	37.8	32.6	26.4																		

### TEXMO "TMH - L SERIES" - THREE PHASE HIGH SPEED MONOBLOCS (NON ISI)

Approximate performance values of TMH - L series - Non ISI at 350 V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																											
					Metres	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54			
	Feet	26	33	39	46	52	59	66	72	79	85	92	98	105	112	118	125	131	138	144	151	157	164	171	177							
TMH 2 HL ☒	2.2	3	65	50	DISCHARGE VALUES IN L/S				13.2	12.7	12.3	11.8	11.2	10.5	9.4																	
TMH 31 FHL ☒	3.7	5	65	50											11.4	11.3	11.2	11.0	10.8	10.3	9.5											
TMH 4 HL ☒	3.7	5	65	50							14.8	14.3	13.8	13.2	12.5	11.4	9.5															
TMH 6 HL ☒	3.7	5	75	65					19.4	18.8	18.4	17.7	16.6	13.4	9.17																	
TMH 8 HL ☒	5.5	7.5	65	50											17.2	16.9	16.4	15.7	14.7	13.4	11.5	9.7										
TMH 10 HL ☒	5.5	7.5	75	65							19.1	18.7	18.3	17.8	17.2	16.3	15.1	13.5	11.2	8.0												

Performance confirming to IS : 9079

☒ - Against batch order

#### PRODUCT TYPE KEY

T M H 44 FS - Texmo, Monobloc, High speed (44 - Pump code, Flange, Sprinkler irrigation)

T M H 60 M - Texmo, Monobloc, High speed (60 - Pump code, Metric)

T M H 6 HL - Texmo, Monobloc, High speed (6 - Pump code, Head, L - Low voltage)



## Three Phase Slow Speed Monoblocs (TMS / TMS.. SX)



### PRODUCT FEATURES

- Easy Installation and low operating cost.
- Improved efficiency and minimal maintenance by having the set operated on a common shaft.
- Dynamically balanced rotors and impellers ensure vibration free performance and enhanced life.
- Easy handling with an eye bolt.
- Aluminium pressure die-cast rotors press-fitted onto precision machined motor shafts.
- Accurate control on the uniformity in air gap to minimize vibration
- Deep groove ball bearings packed with right quantity of special grease ensures long life.
- Rigorous quality control testing at every stage of manufacturing ensures higher efficiency.
- Low temperature with Class A insulation ensures long trouble free operation.
- Squirrel-cage motor of TEFC type designed to operate in a wide voltage range 350 - 44 V, 50 Hz, AC power supply

### MATERIAL OF CONSTRUCTION

Part Name	Material	Part Name	Material
Impeller	CI FG 200	Gland / Packing rope	AISI 410 / Grease graphited cotton
Casing	CI GR 180	Motor Body	CI GR 180
Sleeve	AISI 410	Shaft	45C8 / 55C8
Stuffing Box	CI GR 180	Winding Wire	Enameled copper

### APPLICATIONS

Irrigation | Drinking water supply | Industrial water supply | Cooling water circulating systems



## PERFORMANCE CHART

### TEXMO "TMS SERIES" - THREE PHASE SLOW SPEED MONOBLOCS (ISI)

Approximate performance values of TMS series - ISI at 415V (-15% to +6%), 1440 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																							
					Metres	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
	kW	HP	suc.	Del.	Feet	20	23	26	30	33	36	39	43	46	49	52	56	59	62	66	69	72	75	79				
TMS 29 ☒	1.5	2	65	50	DISCHARGE VALUES IN L/S			13.7	12.3	11.2	8.1																	
TMS 30 ♦	1.5	2	75	75			18.0	16.1	13.7	10.6	7.2																	
TMS 2 ♦	2.2	3	65	50							13.2	12.9	12.4	11.6	10.6	9.3	7.7	5.9										
TMS 17 ♦	2.2	3	75	65				24.1	22.4	20.3	17.3	13.0	9.6															
TMS 25 ♦	2.2	3	100	100		28.3	25.7	22.0	17.0	10.9																		
TMS 6 X ☒	3.7	5	75	65								23.1	22.6	21.7	20.4	18.3	14.6	9.7										
TMS 9 ♦	3.7	5	100	75						26.1	24.2	22.0	19.5	16.3	12.0													
TMS 14 X	3.7	5	100	100				34.0	32.0	29.5	26.2	21.1	14.5															
TMS 26 X ☒	3.7	5	125	125			42.5	38.3	32.0	23.4	13.9																	

### TEXMO "TMS SERIES" - THREE PHASE SLOW SPEED MONOBLOCS (Non ISI)

Approximate performance values of TMS series - Non ISI at 415V (-15% to +6%), 1440 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																							
					Metres	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
	kW	HP	suc.	Del.	Feet	20	23	26	30	33	36	39	43	46	49	52	56	59	62	66	69	72	75	79				
	DISCHARGE VALUES IN L/S																											
TMS 26 SX ☐	3.7	5	125	125	51.6	48.6	44.8	39.9	33.5	24.6																		
TMS 39 SX ☐	7.5	10	100	100												40.0	39.3	38.3	36.9	35.1	32.9	30.0	26.4					

Performance conforming to IS : 9079

☒ - Against batch order

♦ - Sets are also available with extension shaft

### PRODUCT TYPE KEY

TMS 29 - Texmo, Monobloc, Slow speed (29 - Pump code)

TMS 26 SX - Texmo, Monobloc, Slow speed (26 - Pump code, S - Split casing, X - Extn shaft)



## PERFORMANCE CHART

### TEXMO "TMS SERIES" - THREE PHASE SLOW SPEED MONOBLOCS (Non ISI)

Approximate performance values of TMS series - Non ISI at 415V (-15% to +6%), 1440 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)		TOTAL HEAD VALUES																			
					Metres	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	22	24	
	kW	HP	suc.	Del.	Feet	13	20	23	26	30	33	36	39	43	46	49	52	56	59	62	66	72	79	
TMS 28 X ☐	1.5	2	50	40	DISCHARGE VALUES IN L/S							11.5	10.5	9.5	8.4	7.0	5.7							
TMS 17 SPSX ☐	2.2	3	75	65					24.1	22.4	20.3	17.3	13.0	9.4										
TMS 24 F SPSX	2.2	3	100	75					22.1	19.5	16.0	11.8												
TMS 25 H SPSX ☐	2.2	3	100	100				35.7	33.8	31.8	29.4	26.3	22.1	17.3										
TMS 25 SPSX	2.2	3	100	100			28.3	25.7	22.0	17.0	10.9													
TMS 9 SPSX	3.7	5	100	75							26.1	24.2	22.0	19.5	16.3	12.0								
TMS 26 LX ☐	3.7	5	125	125			44.4	38.2	32.0	25.6	19.1													
TMS 40 X	3.7	5	150	150		55.2	48.0	44.2	37.5	30.1														
TMS 27 ♦	5.5	7.5	150	150				56.0	48.4	38.0	21.2													
TMS 16 ☐	7.5	10	150	150					64.8	58.9	52.0	44.0	34.2											
TMS 33 ☐	11	15	150	150								65.2	62.7	59.9	56.9	53.6	50.0	46.0	41.2					

Performance conforming to IS : 9079

☒ - Against batch order

♦ - Sets are also available with extension shaft

#### PRODUCT TYPE KEY

T M S 28 X - Texmo, Monobloc, Slow speed (28 - Pump code, X - Extn shaft)

T M S 26 LX - Texmo, Monobloc, Slow speed (28 - Pump code, L - Low voltage, X - Extn shaft)



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