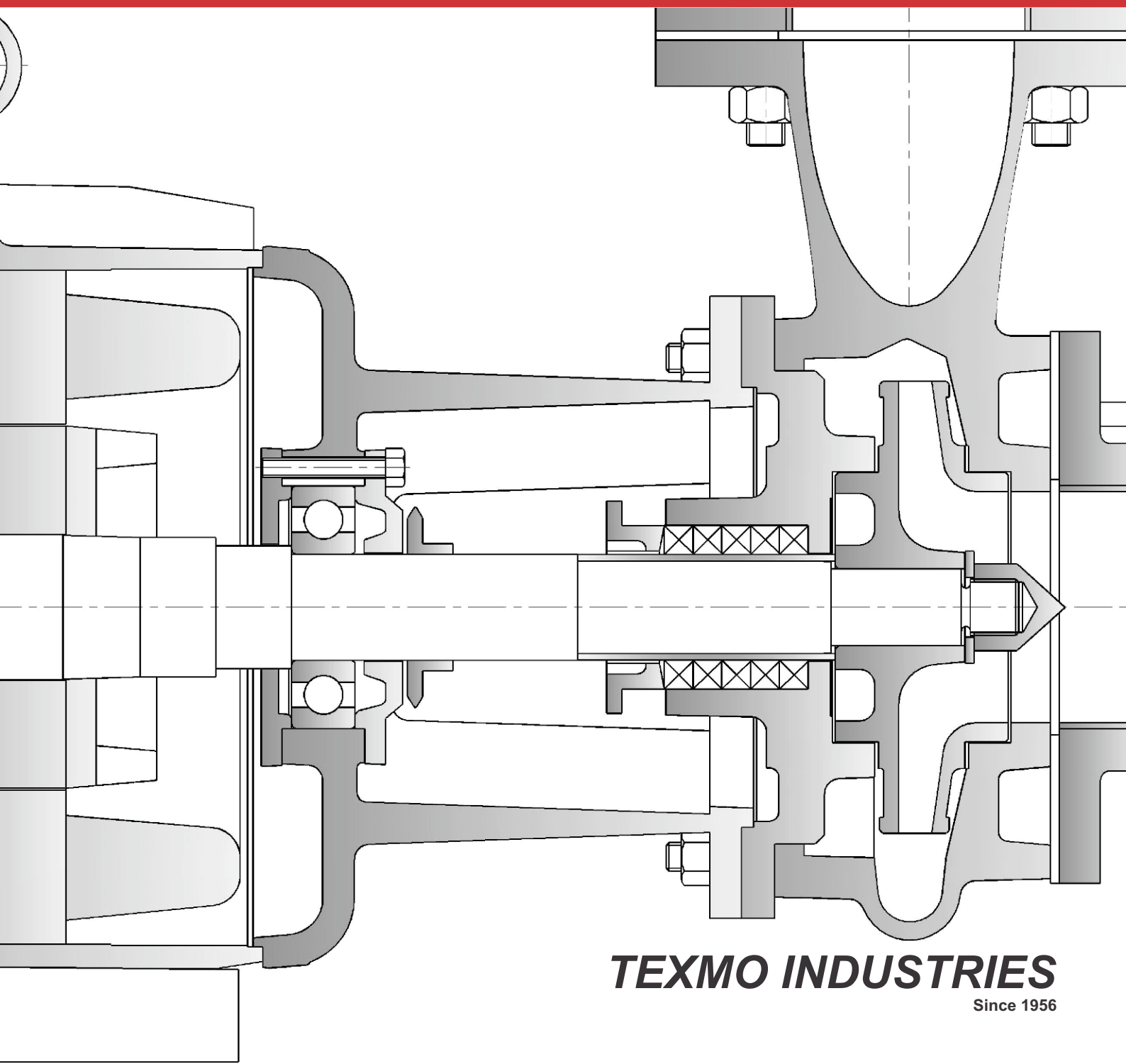


SINGLE PHASE JET MONOBLOCS
PERFORMANCE CHART



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

- Electric power supply : 415 / 220 V, 50 Hz, AC power supply
- 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.



Single Phase Vertical Jet Monoblocs - HCSJ / TSJ



PRODUCT FEATURES

- Designed to operate at very low voltage.
- Easy installation and simple maintenance.
- Can be installed near the borewell or offset in an adjacent building without separate pump house.
- Silent operation and steady flow of water.
- Pressure valve for easy adjustment of pump output matching with the borewell yield.
- Choice of different jetp units for varying depths and discharges.
- Easily accessible for servicing and overhaul.
- Dynamic balancing of rotor and impellers ensures vibration free performance and longer bearing life.
- Squirrel cage motor of TEFC type designed to operate in a wide range of voltage variation 180 - 240 V, 50 Hz, AC power supply.

MATERIAL OF CONSTRUCTION

Part Name	Material	Part Name	Material
Impeller	CI FG 200 / Gunmetal	Mechanical seal	Carbon / Ceramic
Casing	CI FG 180	Motor body	CI FG 180
Sleeve	AISI 410 (1.5 hp)	Shaft	45C8 / AISI 410
Flanges	CI FG 180	Winding wire	Enameled copper

APPLICATIONS

Pumping water from deep borewell for water supply to houses | Residential colonies | Factories | Multistoried buildings and apartments.



PERFORMANCE CHART

TARO "HCSJ SERIES" - SINGLE PHASE SIDE MOUNTED TYPE VERTICAL JET MONOBLOCKS

Approximate performance values HCSJ series at 220 V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)			DEPTH TO LOW WATER LEVEL / SUCTION LIFT																Dis. Head (m)		
	kW	HP	Suc.	Pr.	Del.	Metres	9	12	15	18	21	24	27	30	33	36	39	42	45	50				
						Feet	30	39	49	59	69	79	89	98	108	118	128	138	148	164				
HCSJ 4032 S	0.37	0.5	30	25	25	DISCHARGE VALUES IN L/M	39.5	28.2	20.6	15.4	11.6												15	
HCSJ 7031 ☒	0.75	1	25	20	25				21.3	17.1	13.3	9.6												25
HCSJ 7042 R ☒	0.75	1	30	25	25							14.4	12.8	11.2	9.7	8.1	6.6							25
HCSJ 7042 RS	0.75	1	30	25	25							14.4	12.8	11.2	9.7	8.1	6.6							25
HCSJ 7032 S/GS	0.75	1	30	25	25						20.1	17.3	14.9	12.6	10.5	8.3	6.2							25
HCSJ 7032 RS	0.75	1	30	25	25						19.9	16.3	13.3	10.8	8.7	6.9								25
HCSJ 7002 RS	0.75	1	30	25	25				29.7	29.4	29.0	28.6	28.1	27.7	27.0	26.3	25.2							25
HCSJ 7014 RS ☒	0.75	1	40	30	25			62.0	51.5	42.0	33.0	24.5	18.5											20
HCSJ 9032 S	1.1	1.5	30	25	25									14.2	12.3	10.5	8.8	7.4	6.1					30

TARO "TSJ SERIES" - SINGLE PHASE BORE MOUNTED TYPE VERTICAL JET MONOBLOCKS

Approximate performance values TSJ series at 220 V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)			DEPTH TO LOW WATER LEVEL / SUCTION LIFT																Dis. Head (m)		
	kW	HP	Suc.	Pr.	Del.	Metres	9	12	15	18	21	24	27	30	33	36	39	42	45	50				
						Feet	30	39	49	59	69	79	89	98	108	118	128	138	148	164				
TSJ 532	0.37	0.5	30	25	25	DISCHARGE VALUES IN L/M	39.7	28.3	20.7	15.5	11.7													
TSJ 1032 ▲	0.75	1	30	25	25						19.7	16.6	13.9	11.3	8.7	6.1								25
TSJ 1032 / R	0.75	1	30	25	25						19.7	16.6	13.9	11.3	8.7	6.1								25
TSJ 1542 ☒	1.1	1.5	30	25	25											9.2	8.2	7.4	6.7	5.7				30
TSJ 1532	1.1	1.5	30	25	25								13.9	12.1	10.4	8.8	7.4	6.1						30

Performance conforming to IS : 12225 and 996

G - Gunmetal impeller

▲ - ISI marked sets

S - Square casing

☒ - Against batch order

PRODUCT TYPE KEY

HCSJ 7031 - High speed Capacitor start Single phase Jet pump (70 - Power code, 3 - Ventury type, 1 - 3" (75mm) borewell)

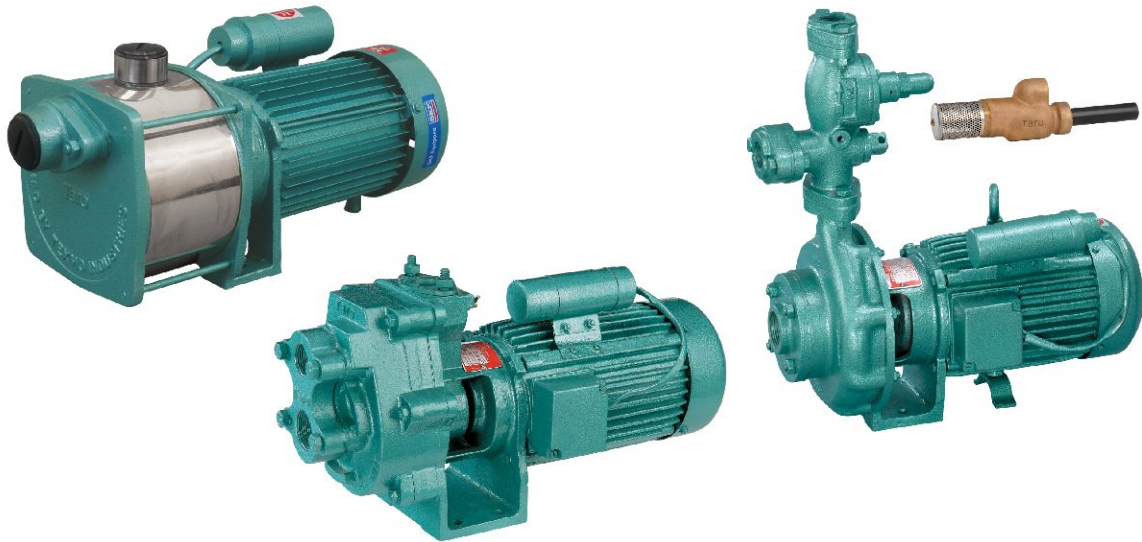
HCSJ 7032GS - High speed Capacitor start Single phase Jet pump (70 - Power code, 3 - Ventury type, 2 - 4" (100mm) borewell) Gunmetal impeller Square casing

HCSJ 7014RS - High speed Capacitor Start Single phase Jet pump (70 - Power code, 1 - Ventury type, 4 - 4½" (110mm) borewell) R - Standard, Square casing

TSJ 1532 - Taro high speed Single phase Jet pump (15 - Power code, 3 - Jet unit type, 2 - 4" (100mm) borewell)



Single Phase Horizontal Jet Monoblocs - HCSJ / TDSJ / HCS - SJ



PRODUCT FEATURES

- Easy installation and low operating cost.
- TDSJ - can also be installed vertically.
- Designed to operate at very low voltage.
- Easy installation and simple maintenance.
- Can be installed near the borewell or offset in an adjacent building without separate pump house.
- Pressure valve for easy adjustment of pump output matching with the borewell yield.
- Silent operation and steady flow of water.
- Choice of different jetp units for varying depths and discharges.
- Easily accessible for servicing and overhaul.
- Dynamic balancing of rotor and impellers ensures vibration free performance and longer bearing life.
- Squirrel cage motor of TEFC type designed to operate in a wide range of voltage variation 180 - 240 V, 50 Hz, AC power supply.

MATERIAL OF CONSTRUCTION

Part Name	Material	Part Name	Material
Impeller	CI FG 200 / Gunmetal	Mechanical seal	Carbon / Ceramic
Casing	CI FG 180	Motor body	CI FG 180
Sleeve	AISI 410 (1.5 hp)	Shaft	45C8 / AISI 410
Flanges	CI FG 180	Winding wire	Enameled copper

APPLICATIONS

Pumping water from deep borewell for water supply to houses | Residential colonies | Factories | Multistoried buildings and apartments.



PERFORMANCE CHART

TARO "HCSJ SERIES" - SINGLE PHASE HORIZONTAL JET MONOBLOCKS

Approximate performance values HCSJ series at 220 V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)			DEPTH TO LOW WATER LEVEL / SUCTION LIFT																Dis. Head (m)
	kW	HP	Suc.	Pr.	Del.	Metres	12	15	18	21	24	27	30	33	36	39	42	45	47	50		
						Feet	39	49	59	69	79	89	98	108	118	128	138	148	154	164		
HCSJ 8032-R	1.1	1.5	30	25	25	DISCHARGE VALUES IN L/M							9.7	8.1	6.5	5.0						24

TARO "TDSJ SERIES" - SINGLE PHASE DOUBLE STAGE HORIZONTAL / BORE MOUNTED JET MONOBLOCKS

Approximate performance values TDSJ series at 220 V (-15% to +6%), 2900 rpm, 50 Hz AC power supply

Model Name	Motor Rating		Pipe Size (mm)			DEPTH TO LOW WATER LEVEL / SUCTION LIFT																Dis. Head (m)
	kW	HP	Suc.	Pr.	Del.	Metres	21	24	27	30	33	36	39	42	45	50	55	60	65	70		
						Feet	69	79	89	98	108	118	128	138	148	164	180	197	213	230		
TDSJ 1042	0.75	1	30	25	25	DISCHARGE VALUES IN L/M				12.4	10.7	9.1	7.5	6.0	4.6							12
TDSJ 1542	1.1	1.5	30	25	25	DISCHARGE VALUES IN L/M							10.3	9.8	9.2	8.0	6.7	5.5	4.4			15

TARO "HCS-SJ SERIES" - SINGLE PHASE SHALLOW WELL JET MONOBLOCKS

Approximate performance values of HCS-SJ series at 220 V (-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	6	8	10	12	14	16	18	19	20	21	22	23	24	25	26	27	28	29	30	32	33	34	36	40			
					Feet	20	26	33	39	46	52	59	62	66	69	72	75	79	82	85	89	92	95	98	105	108	112	118	131			
HCS 4025 SJ	0.37	0.5	25	25	DISCHARGE VALUES IN L/M	43.2	43.0	42.7	42.3	41.9	41.5	41.0	40.6	40.1	39.5	38.7	37.6	36.0	33.7	30.9	27.6	24.1	20.6	17.1	10.6							
HCS 7025 SJ / GC	0.75	1	25	25	DISCHARGE VALUES IN L/M	45.1	44.8	44.5	44.3	44.1	43.9	43.7	43.6	43.5	43.4	43.3	43.0	42.6	42.0	41.2	40.0	38.4	36.4	33.8	27.6	24.3	20.9	13.5				

Performance conforming to IS : 12225 and 996

PRODUCT TYPE KEY

HCSJ8032R - High speed Capacitor start Single phase Jet pump (80 - Power code, 3 - Ventury type, 2 - 4" (100mm) borewell) R - Standard

TDSJ1042 - Taro Double stage high speed Single phase Jet pump (10 - Power code, 4 - Jet unit type, 2 - 4" (100mm) borewell)

HCS4025SJ - High speed Capacitor start Single phase monobloc (40 - Power code, 25 - Del. size) Shallow well Jet

HCS7025SJGC - High speed Capacitor start Single phase monobloc (70 - Power code, 25 - Del. size) Shallow well Jet Gunmetal impeller Cl Casing



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