

FARMER

THE LIFELINE OF THE NATION

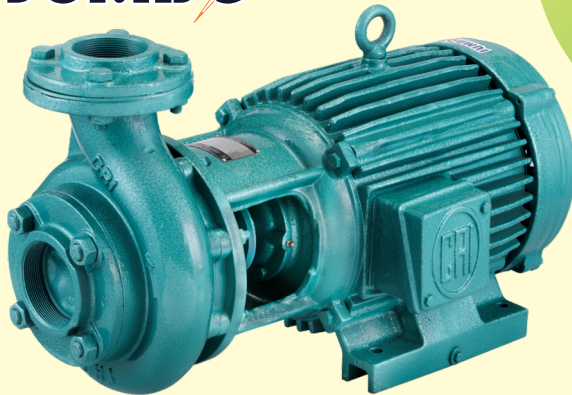


C.R.I. PUMPS

Pumping trust. Worldwide.



JUMBO



**HIGH
DISCHARGE
PUMP**



C.R.I. Monoblock Pumps



**HIGHER DISCHARGE &
PRESSURE**



**Rigid & POWERFUL
MOTOR**



**INCREASED LIFE
of the bearing**



Designed for **LOW
VOLTAGE OPERATION**



High efficient pump results
more **DISSOLVED OXYGEN**

Centrifugal Monoblock Pumpsets - JUMBO Series

C.R.I. Jumbo Centrifugal Monoblock Pumpsets are powered by a totally enclosed fan cooled AC induction two pole and four pole motor, suitable for continuous duty. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high grade enameled copper wire offer excellent conductance. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.

SPECIFICATIONS

	CTG Model	CFG Model	CTT Model
Power range	2.2kW - 15kW (3HP - 20HP)	2.2kW - 7.5kW (3HP - 10HP)	3.7kW (5HP)
Speed	2880 RPM	1440 RPM	2880 RPM
Version	3Ph - 350/380/415V; 50Hz, AC supply		1Ph - 230V, 50Hz, AC supply
Maximum total head	94 Metre;	19.5 Metre	40 Metre
Maximum flow rate	33 lps (118.8m³/hr)	62 lps (223.2m³/hr)	27 lps (97.2m³/hr)
Degree of protection	IP 44		
Direction of rotation	Clockwise from driving end		
Class of insulation	B & F Class		
Type of duty	S1 (Continuous)		
Maximum Suction lift	7 metre		
Nominal pump set size in mm	50 x 40, 65 X 50, 70 X 65, 100 X 80, 100 X 100 and 150 x 150 mm		
Suction x Delivery			

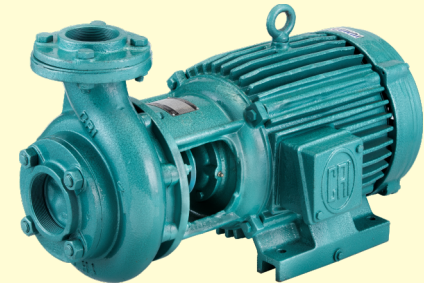
SALIENT FEATURES

- Robust construction ensures longer life
- 3D Heat Transfer technology ensures low temperature rise
- CFD based pump design ensures best hydraulic efficiency
- Dynamically balanced rotating parts to ensure minimum vibration & longer life
- High operating efficiency resulting in lower power consumption
- Accurate alignment of bearing ensures minimum starting friction and reduced starting load
- Special grade grease increases the life of the bearing
- Specially designed for wide voltage operation
- Good suction lift characteristics
- Special voltage design also available

APPLICATIONS

- Agriculture & Irrigation
- Farms
- Gardens
- Industrial & Mining
- Sprinkler & Drip irrigation

JUMBO



**3D HT
Technology
for Longer
Life**

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

2880 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	DISCHARGE																	
					m³/hr	0	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	36.0
					lps	0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
CTG-10/3T	2.2	3	50	40	Head in Metres	42	39	37	35	32.5	29	22	11									
CTG-14/5T	3.7	5	50	40		49	48	47	45	42	40	37.5	35	33	29.5	25	18					
CTG-25/5D	3.7	5	50	40		44			43	42.5	42	41.5	41	40.5	40	39.5	39	38.5	38	35.5	31	13
CTG-30/10D	7.5	10	50	40		69							65.5	65	64.5	64	63.5	63	62	58	40	

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr lps	DISCHARGE																
						0	18.0	21.6	25.2	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	55.8
						0	5.0	6.0	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	15.5
CTG-25/3D	2.2	3	65	50	Head in Metres	25	24	23	22	21	20.5	20	19	18	17.5	17	16	14				
CTG-21.5/3D	2.2	3	65	50		30	29.5	29	29	28.5	28.5	28	28	27.5	27	26.5	26	22	14			
CTG-27/3T	2.2	3	65	50		26	24	23	22	21.5	21	20.5	20	19.5	19	18	17	16				
CTG-29/5T	3.7	5	65	50		36			34.5	32	30	27	23.5	20	16							
CTG-29/5D	3.7	5	65	50		40			37	36.5	35	34.5	33	32	31	29	28	24	19			
CTG-30/5D	3.7	5	65	50		45.5			44	43.5	43	42.5	42	41.5	41	40.5	40.5	37	35.6	34.2		
CTG-31/5T	3.7	5	65	50		30				28.5	28	27.5	27	26.5	26	25	24	20	18	16		
CTG-34/5D	3.7	5	65	50		31						30.5	30	29.5	29	28.5	28	27	25	24		
CTG-25/7.5D	5.5	7.5	65	50		55				53			52		50.5		49	47.5	46	45	43.5	42
CTG-29/7.5D	5.5	7.5	65	50		53			51	50.5	50	49.5	48	46	45	43	42	41	34			
CTG-36/7.5D	5.5	7.5	65	50		54.5					53	52.5	52	51.6	51	50.5	50	48.5	46.5	45		
CTG-39/7.5D	5.5	7.5	65	50		41					40.5	40.5	40	39.5	39	38.5	38	37	35			
CTG-36/10D	7.5	10	65	50		55			52	51.5	51	50.5	50	49	48.5	47.5	46.5	44	40	36		
CTG-38/10D	7.5	10	65	50		54.5					53	52	51	50	49	46	43	37	31	25		
CTG-40/10D	7.5	10	65	50		61		60.5					60	59.5	59	58.5	58	57.5	56.5	55		
CTG-43/10D	7.5	10	65	50		71					67.5	67	66.5	66	65.5	65	64	63	61	43		
CTG-48/12.5D	9.3	12.5	65	50		62.5							62	61.5	61	60.5	60	59	58	57	50	40
CTG-36/15D	11	15	65	50		75						73.5	73	72.5	72	71	70.5	69	68	65	46	
CTG-38/15D	11	15	65	50		70.5					69.8	69.7	69.6	69.4	69	68.5	68	66.5	66	65		
CTG-39/20D	15	20	65	50		94			90	89	88	87	86	85	84	83	82	81	68	51		

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

2880 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	13.0	18.2	22.3	28.2	31.3	40.1	44.9	47.8	50.3
					lps	0	3.6	5.1	6.2	7.8	8.7	11.2	12.5	13.3	14.0
CTG-28/5D	3.7	5	65	50	Head in Metres	44.5	43.8	43	42	41	39	37.5	35	33.7	32

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	DISCHARGE																			
					m³/hr	0	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0	75.6	79.2	82.8
					lps	0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0
CTG-43/3D	2.2	3	75	65	Head in Metres	23				22.5	22	21.5	21	20	19	17	16	15						
CTG-39/5T	3.7	5	75	65		28	27	27	26.5	26.5	26	25.5	25	24	23.5	22	21	19.5	18	16				
CTG-39/5D	3.7	5	75	65		27		26.5	26	26	25.5	25	24.5	24	23	22.5	21	20	18	16	13			
CTG-47/7.5D	5.5	7.5	75	65		35.5		35	34.5	34.2	34	33.5	33	32.5	32	31.5	30	28	27	24	21	18		
CTG-47/10D	7.5	10	75	65		41						40.5	40	39	38.5	38	31	20	15	11				
CTG-61/12.5D	9.3	12.5	75	65		53			52	51.5	51	50.5	50	49.5	49	48.5	48	47.5	47	45	44	42	25	
CTG-65/15D	11	15	75	65		55					53	52.5	52	51.5	51	50.5	50	49.5	49	48.5	48	47	45	15
CTG-47/20D	15	20	75	65		74.5					74	73.5	73	72.5	72	71.5	71	70.5	70	69	56	27		

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	DISCHARGE																											
					m³/hr	0	36.0	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0	75.6	79.2	82.8	86.4	90.0	93.6	97.2	100.8	104.4	118.8						
					lps	0	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	33						
CTG-79/5D	3.7	5	100	80	Head in Metres	20.5	19.5	19	18.8	18.5	18	17.5	17	16.5	16	15.5	15	14	13	12	11											
CTG-65/7.5D	5.5	7.5	100	80		28			26	25.5	25	24.5	24	23.5	23	22.5	22	21.5	21	20	19	18	16	14								
CTG-68/10D	7.5	10	100	80		41			34	33.5	33	32	31	30	29.5	28.5	28	27	26	25	24	23	22	20.5	19.5	15						
CTG-86/12.5D	9.3	12.5	100	80		39			36	36	35.5	35	35	34.5	34.5	34	33.5	33	32	31.5	31	30	23	20.5	20							
CTG-86/15D	11	15	100	80		43.5	43			42.5		42		41.5	41	40.5	40	39.5	39	38	37	36.5	36	34								

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

1440 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	43.2	48.6	52.2	55.8	59.4	63.0	66.6	70.2	73.8	77.4	81.0	84.6	88.2	102.6	109.8
						0	12.0	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	28.5	30.5
CFG-51/3D	2.2	3	100	80	Head in Metres	14	13.5	13	12.5	12	11.5	11	10.5	10	9.5	9					
CFG-52/3D	2.2	3	100	100		12		11.5	11.3	11.2	11.1	11	10.9	10.7	10.5	10.3	10	9.8	9.5	8.5	
CFG-72/5D	3.7	5	100	80		16.5				15.5	15.3	15	14.7	14.4	14	13.5	13	12.5	12	11	
CFG-79/5D	3.7	5	100	100		15			14	13.8	13.5	13.3	13	12.7	12.4	12	11.8	11.5	11	9	8

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	23.4	27	30.6	34.2	37.8	41.4	45	48.5	52.2	55.8	59.2	63	66.6	70.2
						0	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5
CFG-34/3D	2.2	3	65	50	Head in Metres	16	15.8	15.5	15	14.5	14	13	11							
CFG-50/3D	2.2	3	75	65		14.5				14	13.8	13.5	13.2	13.0	12.8	12.5	12.0	11.5	11	
CFG-54/5D	3.7	5.0	75	65		19.5				19.2	19	18.5	18.3	18	17.5	17	16.5	16	15.5	15

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0.0	68.4	79.2	86.4	93.6	108.0	111.6	115.2	122.4	126.0	129.6	136.8	140.4
						0	19	22	24	26	30	31	32	34	35	36	38	39
CFG-79/7.5D	5.5	7.5	100	100	Head in Metres	18	17.5	17	16.5	16	15	14.8	14.5	14	13.5	13	12.5	12

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	72	100.8	108	115.2	122.4	129.6	136.8	144	158.4	165.6	172.8	176.4
						0	20	28	30	32	34	36	38	40	44	46	48	49
CFG-169/7.5D	5.5	7.5	150	150	Head in Metres	11.4	11.2	11.1	11	10.9	10.7	10.6	10.4	10.2	10	9.8	8	7

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	72.0	100.8	115.2	129.6	144.0	158.4	172.8	187.2	201.6	208.8	216.0	223.2
						0	20	28	32	36	40	44	48	52	56	58	60	62
CFG-172/10D	7.5	10	150	150	Head in Metres	14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.5	12.6	12.2	12	11.6	11.2

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

2880 RPM, Special Voltage Designs, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	12.6	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	36.0
					lps	0	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
CTT-21/5N	3.7	5	65	50	Head in Metres	40	37	34.5	33.5	32	31	30	28	27	26	24	20	9

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	43.2	46.8	48.6	52.2	54	57.6	61.2	64.8	68.4	70.2	72
					lps	0	12	13	13.5	14.5	15	16	17	18	19	19.5	20
CTT-57/5N	3.7	5.0	80	65	Head in Metres	26	25	24.5	24	23	22	20	19	18	16	14	11

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	43.2	50.4	61.2	68.4	75.6	82.8	90.0	93.6	97.2
					lps	0	12	14	17	19	21	23	25	26	27
CTT-68/5N	3.7	5	100	100	Head in Metres	16	15	14	13	12	11	10	9	8	6

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	7.1	17.5	21.1	26.7	28.4	29.8	30.5	31.3	32.2
					lps	0	2	4.9	5.9	7.4	7.9	8.3	8.5	8.7	8.9
CTG-18/2 #	3.7	5	65	50	Head in Metres	40	39	37	35	32	30	28	23	18	13

- Special Voltage Design Model.

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

2880 RPM, At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply

5 Star Rating Models



Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	4.6	10.3	20.9	26.6	30.6	33.8	34.2	34.3
					lps	0	1.3	2.9	5.8	7.4	8.5	9.4	9.5	9.5
3H1-N2	2.2	3	65	50	Head in Metres	28	28.6	28	25.2	22.5	19.7	16.9	14	10.8

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - **JUMBO Series**

2880 RPM, At Rated Voltage – **Three Phase** 415 Volts, 50Hz, A.C. Supply

5 Star Rating Models



Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	10.8	18.9	24.7	31	35.7	40	43.2	46.3	48.9
					lps	0	3	5.3	6.9	8.6	9.9	11.1	12	12.9	13.6
5H1-N2	3.7	5	65	50	Head in Metres	37	36.2	34.3	32.2	28.7	26	23.1	20.3	17.4	14.6

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	22.4	38	44.6	47.1	47.8	47.9	48.3	48.7
					lps	0	6.2	10.6	12.4	13.1	13.3	13.3	13.4	13.5
7.5H3-N1	5.5	7.5	65	50	Head in Metres	48	46.6	43.9	39.3	34.5	29.5	24.5	19.5	14.5

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	21.8	28.8	36.4	46.4	53.4	60.5	64.3	64.6
					lps	0	6.1	8	10.1	12.9	14.8	16.8	17.9	18
7.5H3-N2	5.5	7.5	65	50	Head in Metres	38	36.8	36	34.9	33.4	31.4	28.4	23.7	20.3

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	14.5	30.2	42.7	51.6	58.2	63	66.6	67.1	67.2	67.4
					lps	0	4	8.4	11.9	14.3	16.2	17.5	18.5	18.6	18.7	18.7
10-H3	7.5	10	65	50	Head in Metres	50	49	48.9	46.4	44	41.4	39	34.6	29.7	24.6	19.6

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Motor frame	Cast Iron
Front / Back cover	Cast Iron
Rotor shaft	Mild Steel with SS 410 sleeve
Pump Casing	Cast Iron
Impeller	Cast Iron / Leaded Bronze
Sealing	Graphite coated asbestos



C.R.I. PUMPS

Pumping trust. Worldwide.

-
- 5 decades of engineering excellence ● Sold in more than 120 countries
 - More than 6000 models of pumps and motors ● Over 1500 service centres
 - Fully equipped R&D wing recognized by Ministry of Science and Technology
 - ISO 9001 & 14001 accreditations
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