



KAVITSU CRYSTALLISER DRIVES

Taking Sugar Industry to a whole new level

KAVITSU

Dear Valued Customer,

Kavitsu has now grown 20 years old. Thanks to the valued customers like you, who have helped Kavitsu to thrive beyond expected limits, we are now one of the major contributors to the sugar industry. Having developed new products which include the higher capacity mill drives around 1000 HP and crystallisers which can be used for 750 Metric ton capacity, we feel proud to serve you. State of the art manufacturing facilities help us to achieve our targets in time while maintaining the quality.

Till date, Kavitsu has supplied a little under half a million of gear boxes all over the globe and we will continue to grow. This feat was only possible because of the Valued Customers like you, who gave Kavitsu an opportunity to prove itself.

The following catalogue has been made taking into consideration the user and all the efforts have been made to make it user friendly.

We hope that you show the same confidence in us and wish that you give us an opportunity to serve you again.

Kind regards,

VASANT PHADTARE

Founder and M.D. Kavitsu Group of Industries.



- ISO 9001 : 2008 TUV India Pvt. Ltd
- Commissionerate Of Sugar Maharashtra State.
- National Federation Of Co-operative Sugar Factories Ltd.
- Approved Supplier For Walchandnagar Industries..
- Approved Supplier For NHEC.
- Approved Supplier For BHEL.
- Approved Supplier For Voltas Ltd Thane.
- Approved Supplier For Jindal Steels.
- Approved Supplier For Supplier For Indian Oil Co. Ltd.
- Approved Supplier For National Aerospace Pvt. Ltd.
- ISI Mark For Electric Motor



Selection Chart For Crystalliser Drive

Capacity MT	Masseccuite Type	Required Torque in Kgm	Model	Hp	Generated Torque in Kgm	Rated Torque in Kgm	Service Factor	Model	Hp	Generated Torque in Kgm	Rated Torque in Kgm	Service Factor
SPEED			1 RPM					0.66 RPM				
20	A	600	KT-07CH	1.50	752	2150	2.9	KT-07CH	1.00	760	2150	2.8
	B	700	KT-07CH	1.50	752	2150	2.9	KT-07CH	1.00	760	2150	2.8
	C	800	KT-07CH	2.00	1003	2150	2.1	KT-07CH	1.00	760	2150	2.8
25	A	750	KT-07CH	1.50	752	2150	2.9	KT-07CH	1.00	760	2150	2.8
	B	875	KT-07CH	2.00	1003	2150	2.1	KT-08CH	1.50	1139	4300	3.8
	C	1000	KT-07CH	2.00	1003	2150	2.1	KT-08CH	1.50	1139	4300	3.8
30	A	900	KT-07CH	2.0	1003	2150	2.1	KT-08CH	1.5	1139	4300	3.8
	B	1050	KT-08CH	3.0	1504	4300	2.9	KT-08CH	1.5	1139	4300	3.8
	C	1200	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
35	A	1050	KT-08CH	3.0	1504	4300	2.9	KT-08CH	1.5	1139	4300	3.8
	B	1225	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	C	1400	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
40	A	1200	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	B	1400	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	C	1600	KT-09CH	5.0	2507	6000	2.4	KT-08CH	2.0	1519	4300	2.8
45	A	1350	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	B	1575	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	C	1800	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
50	A	1500	KT-08CH	3.0	1504	4300	2.9	KT-08CH	2.0	1519	4300	2.8
	B	1750	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	C	2000	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
55	A	1650	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	B	1925	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	C	2200	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
60	A	1800	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	B	2100	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	C	2400	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
SPEED			0.5 RPM					0.33 RPM				
20	A	600	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
	B	700	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
	C	800	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
25	A	750	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
	B	875	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
	C	1000	KT-07CH	1.00	1003	2150	2.1	KT-08CH	1.00	1519	4300	2.8
30	A	900	KT-07CH	1.0	1003	2150	2.1	KT-08CH	1.0	1519	4300	2.8
	B	1050	KT-07CH	1.0	1003	2150	2.1	KT-08CH	1.0	1519	4300	2.8
	C	1200	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
35	A	1050	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	B	1225	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	C	1400	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
40	A	1200	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	B	1400	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	C	1600	KT-08CH	2.0	2005	4300	2.1	KT-08CH	1.0	1519	4300	2.8
45	A	1350	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	B	1575	KT-08CH	2.0	2005	4300	2.1	KT-08CH	1.0	1519	4300	2.8
	C	1800	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
50	A	1500	KT-08CH	1.5	1504	4300	2.9	KT-08CH	1.0	1519	4300	2.8
	B	1750	KT-08CH	2.0	2005	4300	2.1	KT-08CH	1.0	1519	4300	2.8
	C	2000	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
55	A	1650	KT-08CH	2.0	2005	4300	2.1	KT-08CH	1.0	1519	4300	2.8
	B	1925	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
	C	2200	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
60	A	1800	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
	B	2100	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
	C	2400	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6

Selection Chart For Crystalliser Drive

Capacity MT	Massecuite Type	Required Torque in Kgm	Model	Hp	Generated Torque in Kgm	Rated T orque in Kgm	Service Factor	Model	Hp	Generated Torque in Kgm	Rated Torque in Kgm	Service Factor
SPEED			1 RPM					0.66 RPM				
65	A	1950.0	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	B	2275	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	C	2600	KT-010CH	7.5	3760	7500	2.0	KT-010CH	5.0	3798	7500	2.0
70	A	2100.0	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	B	2450	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2279	6000	2.6
	C	2800	KT-010CH	7.5	3760	7500	2.0	KT-010CH	5.0	3798	7500	2.0
75	A	2250.0	KT-09CH	5.0	2507	6000	2.4	KT-09CH	3.0	2250	6000	2.7
	B	2625	KT-09CH	5.0	2507	6000	2.4	KT-011CH	5.0	3798	10500	2.8
	C	3000	KT-011CH	7.5	3760	10500	2.8	KT-011CH	5.0	3798	10500	2.8
80	A	2400.0	KT-010CH	5.0	2507	7500	3.0	KT-09CH	3.0	2279	6000	2.6
	B	2800	KT-011CH	7.5	3760	10500	2.8	KT-011CH	5.0	3798	10500	2.8
	C	3200	KT-011CH	7.5	3760	10500	2.8	KT-011CH	5.0	3798	10500	2.8
85	A	2550	KT-010CH	5.0	2507	7500	3.0	KT-011CH	5.0	3798	10500	2.8
	B	2975	KT-011CH	7.5	3760	10500	2.8	KT-011CH	5.0	3798	10500	2.8
	C	3400	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
90	A	2700	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	B	3150	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	C	3600	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
100	A	3000	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	B	3500	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	C	4000	KT-011CH	10.0	5013	10500	2.1	KT-011CH	5.00	3798	10500	2.8
110	A	3300	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	B	3850	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	C	4400	KT-011CH	10.0	5013	10500	2.1	KT-012CH	7.50	5697	15500	2.7
120	A	3600	KT-011CH	7.50	3760	10500	2.8	KT-011CH	5.00	3798	10500	2.8
	B	4200	KT-011CH	10.0	5013	10500	2.1	KT-012CH	7.50	5697	15500	2.7
	C	4800	KT-011CH	10.0	5013	10500	2.1	KT-012CH	7.50	5697	15500	2.7
SPEED			0.5 RPM					0.33 RPM				
65	A	1950.0	KT-08CH	2.0	2005	4300	2.1	KT-09CH	1.5	2279	6000	2.6
	B	2275	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
	C	2600	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
70	A	2100.0	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
	B	2450	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
	C	2800	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
75	A	2250.0	KT-09CH	3.0	3008	6000	2.0	KT-09CH	1.5	2279	6000	2.6
	B	2625	KT-09CH	3.0	3008	6000	2.0	KT-010CH	2.0	3038	7500	2.5
	C	3000	KT-09CH	3.0	3000	6000	2.0	KT-010CH	2.0	3038	7500	2.5
80	A	2400.0	KT-010CH	3.0	3008	7500	2.5	KT-09CH	1.5	2279	6000	2.6
	B	2800	KT-010CH	3.0	3008	7500	2.5	KT-010CH	2.0	3038	7500	2.5
	C	3200	KT-010CH	3.0	3008	7500	2.5	KT-010CH	2.0	3038	7500	2.5
85	A	2550	KT-010CH	3.0	3008	7500	2.5	KT-010CH	2.0	3038	7500	2.5
	B	2975	KT-010CH	3.0	3008	7500	2.5	KT-010CH	2.0	3038	7500	2.5
	C	3400	KT-011CH	5.00	5013	10500	2.1	KT-010CH	2.00	3038	7500	2.5
90	A	2700	KT-010CH	3.00	3008	7500	2.5	KT-010CH	2.00	3038	7500	2.5
	B	3150	KT-010CH	3.00	3008	7500	2.5	KT-010CH	2.00	3038	7500	2.5
	C	3600	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
100	A	3000	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	B	3500	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	C	4000	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
110	A	3300	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	B	3850	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	C	4400	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
120	A	3600	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	B	4200	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3
	C	4800	KT-011CH	5.00	5013	10500	2.1	KT-011CH	3.00	4558	10500	2.3



Selection Chart For Crystalliser Drive

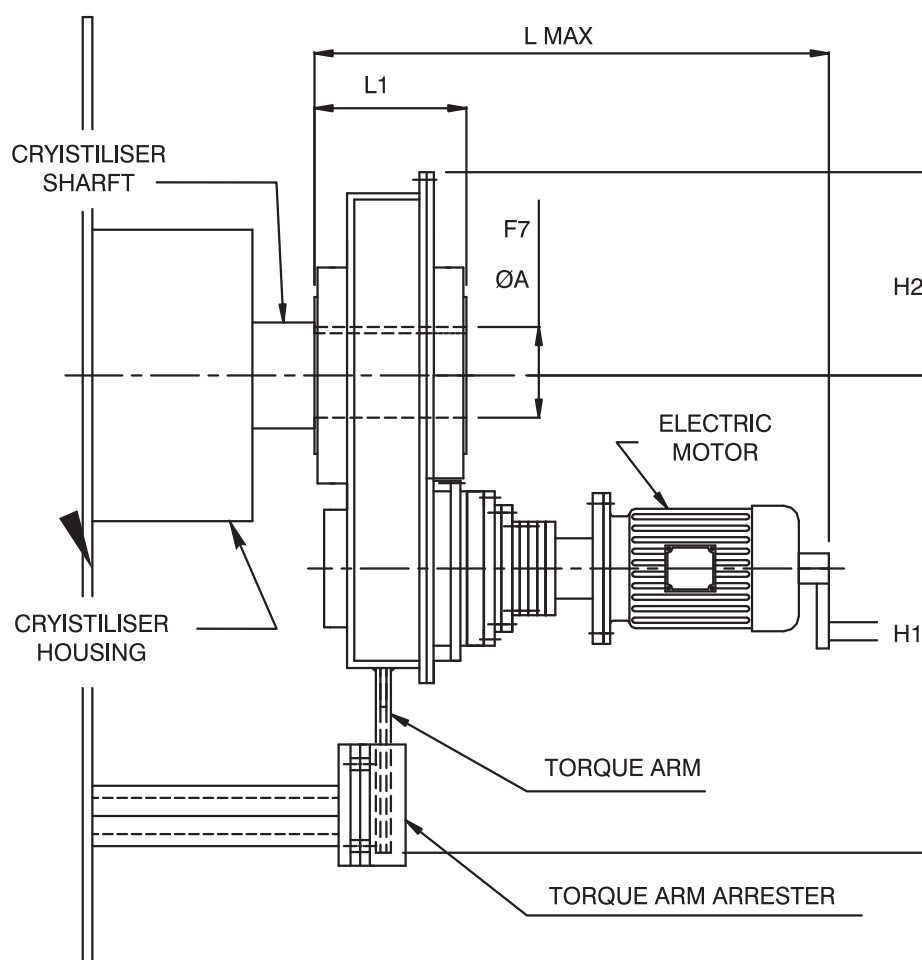
Capacity MT	Massecuite Type	Required Torque in Kgm	Model	HP	Generated Torque in Kgm	Rated Torque in Kgm	Service Factor
SPEED				0.33 RPM			
100	Mono Vertical	3000	KT-010CV	2.00	3038	7500	2.47
150		4500	KT-011CV	3.00	4558	10500	2.30
200		6000	KT-012CV	5.00	7596	27000	3.55
250		7500	KT-012CV	5.00	7596	27000	3.55
300		9000	KT-012CV	7.50	11394	27000	2.37
400		12000	KT-012CV	7.50	11394	27000	2.37
450		13500	KT-013CV	10.00	15192	36000	2.37
525		15750	KT-014CV	12.50	18990	50000	2.63
750		30000	KT-015CV	20.00	30384	70000	2.30
A= A MASSECUITE		B= B MASSECUITE / VACCUM			C= C MASSECUITE / SEED CRYSTALLISER		

Material Of Construction For Crystiliser Drive

Item	Material	Heat Treatments
Gear Ring	IS 2707 / SAE 8620	Case Hardened / Through Hardened
Gear Hub	Cast Steel	
Out Put Casing	Fabricated Body With M.S.	Stress Relieving
Bearings	Antifriction Bearings	
Oil Seal	Nitrile	

Material Of Construction For Crystiliser Drive

Item	Material	Heat Treatments
Planet, Sun Gear, Planet Pin, Gear Pinion	SAE 8620 / 17 Cr Ni Mo6	Case Hardened
Ring Gear	En-24	Through Hardened
Output Shaft	En-24	Through Hardened
Input Shaft	En-9	Through Hardened
Planet Carrier	En-9	
Input Casing / Intermediate Casings	Cast Iron CIGR - 25	
Out Put Casing	Cast Steel Is 1030 Grade II	
Out Put Casing	Cast Iron CIGR - 25	
Bearings	Antifriction Bearings	



MODEL	SHAFT DIA	L1	H1	H2	L MAX							
					1 HP	1.5 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP	12.5 HP
	Ø A F7											
5 KT-07CH	70 TO 130	204	475	226	790	805	835					
5 KT-08CH	90 TO 165	226	805	285	858	873	898	951				
5 KT-09CH	150 TO 220	226	810	340		946	971	1024	1044			
5 KT-10CH	150 TO 220	252	810	340			1033	1086	1106	1215		
5 KT-11CH	170 TO 250	252	970	390				1176	1196	1268	1303	
5 KT-12CH	170 TO 250	282	970	390					1550			
5 KT-10CV	170 TO 250	252	810	340			1033					
5 KT-11CV	170 TO 250	252	970	390					1196			
6 KT-12CV	190 TO 250	296	970	390					1550	1640		
6 KT-13CV	190 TO 250	356	1030	420							1725	
6 KT-14CV	190 TO 250	356	1030	420								1867

OUTPUT SHAFT DIAMETERS ARE AVAILABLE AS PER REQUIREMENT



Various Applications Where Our Planetary Drives Are Used In Sugar Industries

- Crystallizer Drives (horizontal & Vertical)
- Mechanical Pan Circulator
- Molasses Conditioner
- Milk Of Lime Tank Mixer
- Rotary Juice Screen
- Sooth Blower Drive
- Magma Pump Drive
- Juice Sulphiter
- Clerifire (dor)
- Sugar Melter
- Melting Tank
- Lime Slacker
- Magma Mixer
- Mud Mixer
- Minglar
- Pug Mill
- Mill Drive
- TRPF Drive
- GRPF Drive
- Cane Kicker
- ETP Clarifier
- Cane Carrier
- Rake Carrier
- Bagas Elevator
- Conveyor Drive
- Sugar Elevator
- Screw Conveyor
- Bagass Extractor
- Cane Feeder Table
- Nter Rake Carrier
- Ash Traveling Grate
- Cross Baggs Carrier
- Return Baggas Carrier
- Cane Unloader Gear Boxes
- Screw Feeder For Bagass Extractor



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