MOTORISED CABLE REELING DRUMS





INTRODUCTION:

Elecon is an organization of international reputation in the field of Material Handling Equipments and power Transmission Equipments for all core sector industries and also manufacture Motorised Cable Reels for all types of mobiles material handling equipments. With the Synergy of state-of-art design and development, manufacturing Facilities, and strict quality control, we deliver the Cable Reels that provides complete satisfaction to the customer in entire span of its operational life.

Elecon Range of Products for Power and Control Supply

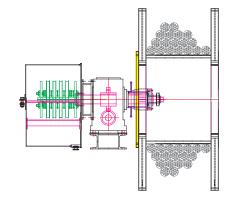
- 1)Contorg Type Motorised Cable Reeling Drums.
- 2)Stall Torque Motor Operated Cable Reeling Drums.
- 3) Motor Operated Cable Reeling Drums With VVVF Control/Logic.

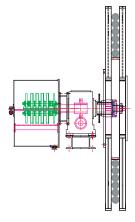
Types of Cable Reeling Drums.

Mainly Cable Reeling Drums are classified on base of cable laying on the drums.

Cable Reel -" R" Random Lay

In this type cable laying on drum is very random type as represented in drawing. While adopting this type Cable Reel care should taken for cable sizing considering Recommended de-rating factor.



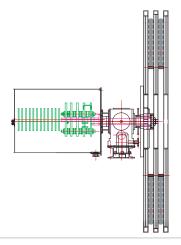


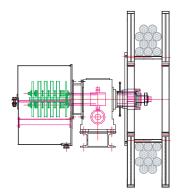
Cable Reel - " M " Monospiral / Radial Lay

This type of Reel having controlled reeling of all types of cable and recommended for the moving equipment having high travel speed and high acceleration. In this type of Reels, Cable having more exposed area in air and hence, having lowest cable de-rating factor for cable sizing selection and allowing consideration of lighter cable construction.

Cable Reel - " DM " Dual Monospiral Lay

This type of Reel having controlled reeling of power and control cables and recommended for the moving equipments having high travel speed and high acceleration. In this type of Reel, Cable having more exposed area in air and hence, having lowest cable de-rating factor for cable sizing selection and allowing consideration of lighter cable construction and more economical.



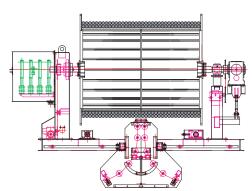


Cable Reel - " S "3/2 Lay

The 3/2 layering method is compromise between Monospiral and Random lay reels, and exploits a natural phenomenon of cable layering which allows a controlled laying without a separate layering mechanism and hence, having lowest cable de-rating factor for cable sizing selection and sizing consideration of lighter cable construction.

Cable Reel - " P "Parallel Lay

This type of Reel having advantages in terms of keeping low tension in cables and recommended for equipment having moderate speed. Although this type is generally more expensive than Monospiral Reel. This type of Reel normally adopted for longer cable length, where reel inertia could be problem. There is virtually no limit to the length of cable that can be reeled on this type of Reel. The Drive have enclosed chain and sprockets driven layering mechanism and hence also recommended for equipments of coal, bauxite and iron ore industries. These types of Reel will be normally designed for 1,2 or even 3 layers of winding of cables.



Elecon Controq Cable Reeling Drum.

Feature:

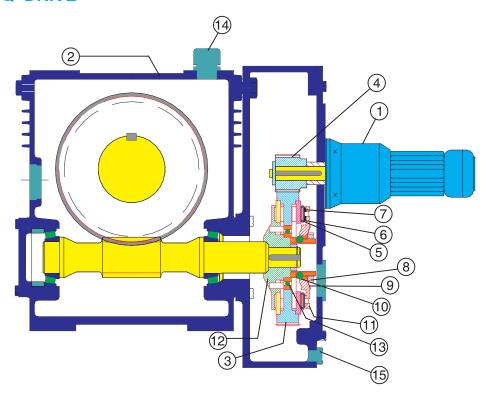
Elecon standard Cable Reeling Drums are provided with Contorq type Drive Unit. It consists of Geared Motor with in-built brake, Contorq Unit and Worm Gear Unit. Contorq type drive unit has been developed after extensive research and design development processes to provide a low cost, maintenance free solution to Cable and Hose reeling application.

Cable Reeling Drums having Contorq drive are simple in construction and used standard squirrel cage induction motor or D.C, Air or Hydraulic type prime movers. Contorq drive units are also suitable to flame proof or marine specification motor.

These Units are modular design of construction among the various models. The design is such that it produces less tension in cable compared to other types of drives like torque motor or stalled torque motor. Drives has totally enclosed torque transmission and sealed bearings are used. It can easily replace other forms of drives on existing Cable Reels with minimum modification and with lowest cost.

The contorq drive units having slipping interfaces surfaces immersed in oil, which works as coolant and frictional media. The Cotorque drive units are rated for continuous duty and having feature of torque adjustment as per actual requirement. The Lubricant used is a synthesized hydrocarbon type, offering the advantages of low coefficient of friction and suitable for temperature range of (-) 40 to (+) 160 degree Celsius.

CONTORQ DRIVE



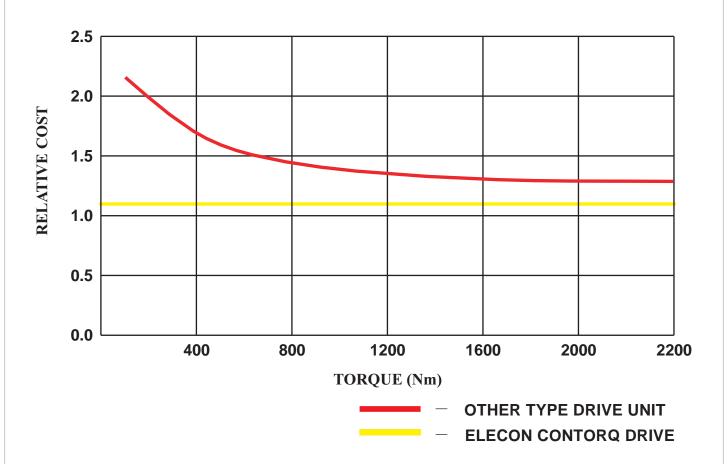
CROSS VIEW OF CONTORQ DRIVE OPERATION

MAIN PARTS OF CONTORQ DRIVE UNIT

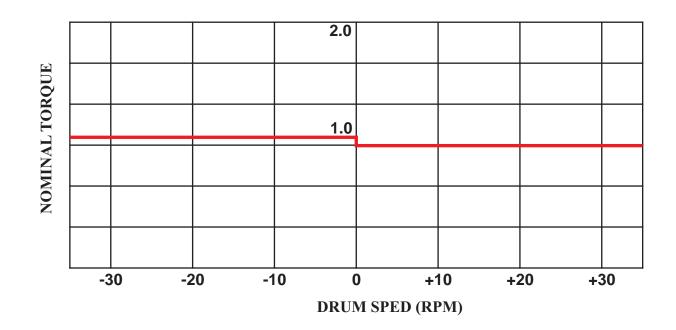
- 1) GEARED MOTOR (SQUIRREL CAGE TYPE MOTOR)
- 2) WORM GEAR UNIT (SPEED REDUCER).
- 3) **GEAR WHEEL**
- 4) **PINION**
- 5) FRICTION DISCS
- 6) **OUTER THRUST RING**
- 7) **DISC SPRINGS**
- 8) **LOCK NUT**
- 9) **LOCK WASHER**
- **ROLLER BEARING** 10)
- 11) **BLOCK**
- **DRIVE HUB** 12)
- 13) **BALL BEARING**
- 14) **BREATHER PLUG**
- 15) **DRAIN PLUG**

In the contorq drive unit, represented in the sectional drawing, the slipping surfaces works as clutch, which allows the constant output torque as per the requirement during winding and unwinding operation of Cable on Reel. Gear Wheel(3) is fitted on worm shaft of Gear Unit. The Pinion(4) is fitted on Geared Motor shaft. The Friction Discs(5) are made of synthetic (plastic) material are mounted in Rings(6) arranged on circumferentially. While Rotating an oil film is created between matching surfaces and slip generated between surfaces and thus transmitting the torque from Wheel to drive hub fitted on worm shaft of Gear Unit.

Cost-efficiency of the Contorq Drive Units.



Slip / torque diagram



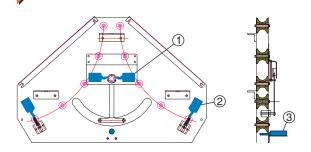
Sizes of Contorq Drives.

Following types of drive units are available to offer the demanding requirement of cable Reeling application of today's material handling equipments.

Drive Name	Torque Rating (Maximum) in Nm	Power consumption in Watts	Maximum Speed in RPM	Permissible Overhung load in Kgs.		
CT40BST	CT40BST 170		60	1200		
CT40BHT	500	400	60	1200		
CT60BST	395	800	40	2000		
CT60BHT	1185	800	40	2000		
CT80BHT	1350	1000	40	3800		
CT60BHT DUAL	2370	1600	40	2000		
CT80BHT DUAL	2700	2000	40	3800		

Cable Reel Accessories.

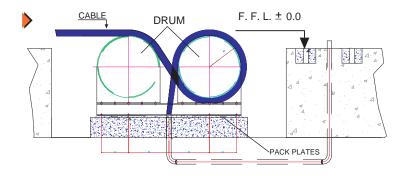
1- Cable Guides and Control Switches.



Elecon Cable Reeling Drums are supplied with Cable Guide of radius R600, R800 and R1000 of fixed type for Monospiral Reels and Moving type for Parallel Cable Reel.

The Roller Guides are equipped with Directional sensor switches(1), Over tension switches (2) and Under tension switch(3). Geared Rotary switch is provided on Reels for sensing travel ends, central position of machine during travels.

2- Cable Anchoring Device.



Elecon Cable Reeling Drums are also supplied with Cable Anchoring Device, If specifically mentioned in the order. This device is to be installed in pit at supply feed point. This device, anchor the cable as per design requirement considering cable safety.

Advantages

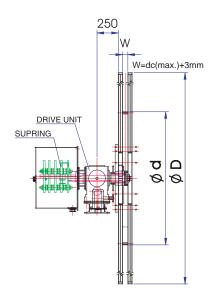
- Highest quality product & prompt services.
- Use of Standard AC, DC, Air or Hydraulic motor as prime mover.
- Elecon contorq drive unit is specifically designed for cable reeling application. It provides required torque at reel and it slips when specific torque requirement exceed during operation.
- Slip/Clutch unit is removable or adjustable without disturbing slipring or cable.
- The design substantially reduces tension in the reeled cable compared with other forms of drives.
- Simple constructions.
- Totally enclosed transmission drives & fully sealed antifriction bearings with seals are used for reels.
- Modular constructions and only 4 types contorq drive units used in our reels & mostly CT-60 BST is suitable for majority of applications.
- Our reels are designed to accommodate any range of sliprings and brush gears.
- Can replace other form of reel including stall torque drive unit.

Benefits

- Satisfactory performance and our service available to our customer everywhere.
- Low cost immediate delivery, No replacement problem.
- Power consumption is very less & normally 0.55 kw to 1.1 kw motors are used. This drive unit needs power in winding operation only. Cable reel with a stall torque drive required prime mover of 3.7 kw to 7.5 kw & torque adjustment is achieved by variation of resistance in resistance box.
- Easy access for maintenance & torque adjustment.
- Smaller cable and longer cable life resulting further cost saving.
- Serviced or torque adjustment can be done by semi skilled labour if required.
- Suitable for use in any processing plant including iron ore & chemical industries or in hazardous area and on ship board.
- Very less spare requirement.
- Combination of cores sizes and quantities can be readily accommodated, in standard reels.
- Standardization of contorq on any site with other benefits guaranteed in our drives.

Monospiral Power Cable Reeling Drums.

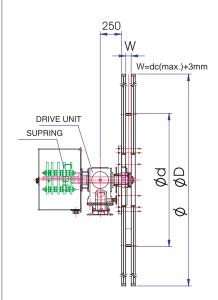
Contorq Drive Unit Type-CT-60 BST / CT-60 BHT / CT-80 BHT Drive : Geared Motors-0.55 KW/0.75 KW / 1.1 KW



Drum Dimensions mm				Monospiral (Radial) Reel								
d	D	Designation	of Reel		Capacity(metres)							
800	1600	0816M	55									
800	2200	0822M	-P	140								
800	2500	0825M	-P	195								
1200	2800	1228M	-P		86			86				
1200	3100	1231M	-P		111			103				
1200	3500	1235M	-P		153			151				
1500	3500	1535M	-P			107	114					
1500	3800	1538M	-P			139	145					
2000	3800	2038M						98	98	93		
2000	4300	2043M	-P						143	143	138	
2000	4700	2047M	-P						183	183	173	
2000	5000	2050M	-P						213	213	208	
				Power cable Specification.								
These ta	bles only	Cable size	mm^2	3Cx	3.5Cx	4Cx	3.5Cx	3.5Cx	4Cx	3.5Cx	3.5Cx	
	ndication of			6	50	16	95	70	25	120	150	
J	capacity and	Outer dia	mm	18	46	58.5	54	46.5	65	65	68	
size.	capacity and	*Amperage rat	ting Amp	50	190	93	282	234	123	329	378	
	ask Elecon	Weight	kg/m	0.6	3.7	4.5	6.5	3.9	5.6	6.9	9.2	
,	fic design			POW	ER SLIPF	RING SPE	CIFICATIO	N				
	endation and	Slip Ring Type	:	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	
	n on base of	Amperage rati	ng Amp	400	400	400	400	400	400	400	400	
	oplication.	Cable ampera Drive Motors						of torq	ue requ	iiremen	ıt.	

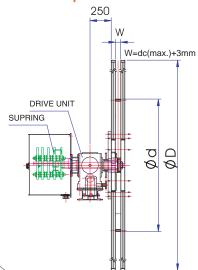
Monospiral power + control cable reeling drum

Contorq Drive Unit Type-CT-60 BST /CT-60 BHT / CT-80 BHT Drive : Geared Motors-0.55 KW/0.75 KW / 1.1 KW



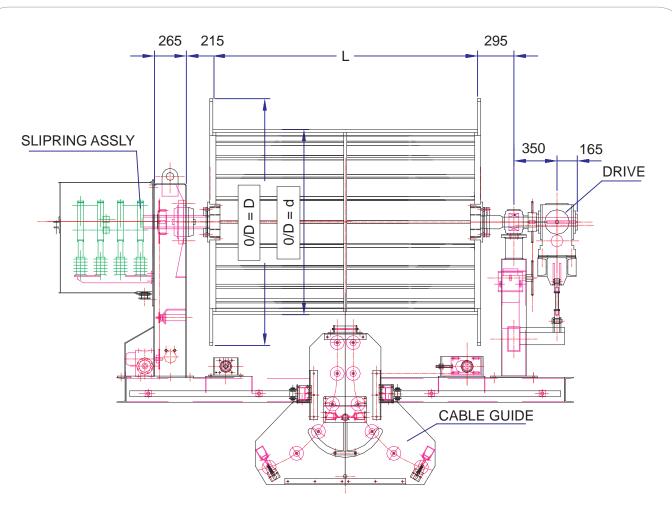
	Dilve : Gealed Motors 6:30 KW/6:70 KW / 1:1 KW													
Drum Dim	Drum Dimension mm				Monospiral (Radial) Reel									
d	D	Designation of Reel		Capacity(metres)										
800	1600	0816M-PC	30											
800	2200	0822M-PC	70											
800	2500	0825M-PC	100											
1200	2800	1228M-PC	112	98	83									
1200	3100	1231M-PC	157	123	108									
1200	3500	1235M-PC	207	163	158									
1500	3500	1535M-PC				105								
1500	3800	1538M-PC				130								
2000	3800	2038M-PC				108								
2000	4300	2043M-PC				153	143	133	133	118				
2000	4700	2047M-PC				193	188	163	163	128				
2000	5000	2050M-PC				223	213	193	193	133				
				Power +	Control	cable								
		Cable size mm^2	4Cx4+	4Cx10+	4Cx10+	3.5Cx70+	3.5Cx70+	3.5Cx120+	3Cx185+	3.5Cx120+				
			12Cx2.5	15Cx1.5	12Cx2.5	12Cx2.5+	12Cx2.5+	16Cx2.5+	2Cx95+	12Cx1.5+				
	ables only					4Cx2.5	6Cx2.5	4Cx1.5	6FE	4Cx1.5				
	indication of	Outer dia mm	34	42.5	46	62	66	70.5	71.3	77				
general	capacity	*Amperage rating Amp	38/25	69/25	69/25	234/25	234/25	329/25	432/25	329/25				
and size	€.	Weight kg/m	1.42	2.31	2.4	8.3	9	8.2	10.16	9.6				
	ask Elecon		PC	WER + C	ONTROL S	LIPRING S	SPECIFICA	ATION						
	ific design	Power Slip Ring Type	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E				
recomm	endation and	Control Slip Ring Type	12P	15P	12P	12P+4P	12P+6P	16P+4P	6P	12P+4P				
	n on base of	Amperage(power) Amp	400	400	400	400	400	400	400	400				
actual a	pplication.	Amperage(control) Amp	25	25	25	25+25	25+25	25+25	25	25+25				
		* Cable amperage indic	ated are a	at 40 degi	ree celsiu	s								
	** Contorq Drive and its combinations are adopted on base of torque requirement.													

Monospiral control cable reeling drum



Contorq Drive Unit Type-CT-60 BST /CT-60 BHT / CT-80 BHT Drive : Geared Motors-0.55 KW/0.75 KW / 1.1 KW

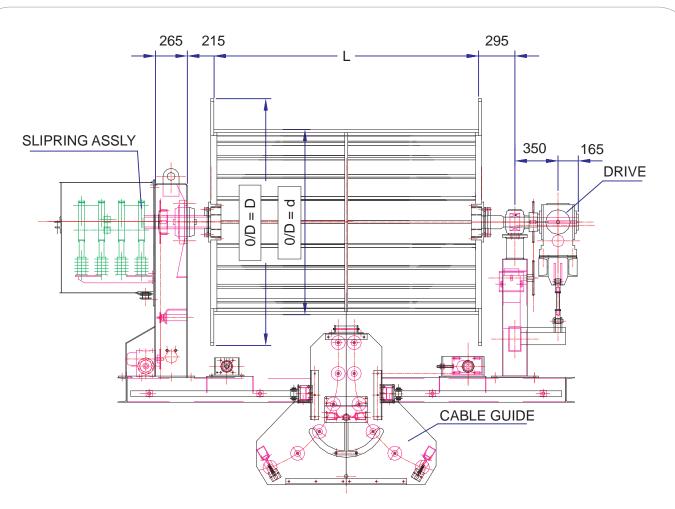
Drum Di	Drum Dimension mm			Monospiral (Radial) Reel											
d	d D Designation of Reel			Capacity(metres)											
800	1600	0816M-C		40											
800	2200	0822M	I-C	105	75	75	75	75	5						
800	2500	0825M	I-C	140	105	105	105	105	5						
1200	2800	1228M	I-C	157	107	107	107	107	103	78	3 78				
1200	3100	1231M	I-C	198	147	147	147	147	138	98	98				
1200	3500	1235M	I-C	272	197	197	197	197	188	143	143				
1500	3500	1535M	I-C						169	129	129				
1500	3800	1538M	I-C						209	159	159				
					Control cable										
		Cable size	mm^2	12Cx2.5	18Cx1.5+	12Cx2.5+	12Cx2.5+	12Cx2.5-	+16Cx2.5	+ 12Cx2.5	+ 19Cx2.5+				
These to	ables only				4Cx1.5	4Cx1.5	4Cx2.5	6Cx1.5	12Cx1.5	8Cx1.5	16Px1.5				
	capacity and	Outer dia	mm	26	35	35	35.5	35	39	50	50				
size.		Amperage rati	ng Amp	25	25	25	25	25	5 25	2	5 25				
Always	ask Elecon	Weight	kg/m	0.85	1.64	1.42	1.6	1.6	3 2	2.3	3 2.33				
1 1	ific design				C	ONTROL S	SLIPRING S	SPECIFICA	NOITA						
	endation and	Slip Ring Type		12P	18P+4P	12P+4P	12P+4P 1	2P+6P 16	SP+12P 1	2P+8P ′	18P+E+16P				
	pplication.	*Amperage rat	ting Amp	25	25	25	25	25	25	25	25				
		* Cable amper	age indica	ted are at	40 degre	e celsius									
		** Contorq Driv	ve and its	combinations are adopted on base of torque requirement.											



Parallel Power Cable Reel.

PARALLEL POWER CABLE REELING DRUM CONTORO DRIVE CT-60 BST / CT-60 BHT / CT-80 BHT Drive: Geared Motors-0.55 KW/0.75 KW / 1.1 KW

Reel Dimension mm							Parallel C	able Reel	ing Drum.					
d	D	L	Designation	of Reel		Capacity(metres)								
1500	2000	1000	152010F	P-P	180	170	166	139	138	134	127			
1500	2000	1250	152012F	P-P	232	215	211	177	176	171	162			
1500	2000	1500	152015F	P-P	280	260	255	215	214	208	196			
1500	2000	1750	152017F	P-P	330	305	301	253	252	245	231			
1500	2000	2000	152020F	P-P	380	352	346	292	289	281	266			
1500	2000	2250	152022F	P-P	429	398	391	330	327	318	301			
1500	2000	2500	152025F	P-P	478	442	435	368	365	355	336			
2000	2500	1500	202515F	P-P	370	342	336	280	280	272	257	234	230	
2000	2500	1750	202517P-P		434	402	395	329	329	320	302	276	271	
2000	2500	2000	202520F	P-P	499	462	454	379	379	368	348	318	312	
2000	2500	2500	202525	P-P	628	582	571	477	477	464	439	401	394	
2000	2500	3000	202530F	P-P	758	702	689	576	576	560	529	484	475	
							cable	specificat	ion					
_			Cable size	mm^2	3Cx35+	3Cx16	3.5C	4Cx16	3Cx70+	4Cx25	4Cx50	3.5C	3Cx95	
	tables o	•	Outer dia	ma ma	3Cx35/3	3Cx16/3	70		3Cx35/3			185	1Cx50	
~	al capac	ity and	Outer dia	mm	46	50	51	61.5	62	64	68	75	76.5	
size.			*Amperage rati	ng Amp	152	93	234	93	234	123	190	432	282/190	
1	Always ask Elecon		Weight	kg/m	2.8	3	4.33	4.9	6	5.34	5.5	6.94	8.75	
for specific design recommendation and quotation on base of		U					slipring	specificat	ion					
		Slip Ring Type		3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E	3P+E		
	actual application.		Amperage ratin	g Amp	400	400	400	400	400	400	400	400	400	
2.2100.			* Cable ampera	ge indicat	ed are at 4	10 degree o	celsius							
** Contorq Drive and its combinations are adopted on base of torque requirement.														



Parallel Power + Control Cable Reel.

PARALLEL CONTROL AND POWER+CONTROL CABLE REELING DRUM CONTORQ DRIVE CT-60 BST / CT-60 BHT / CT-80 BHT

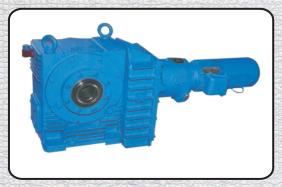
Drive: Geared Motors-0.55 KW/0.75 KW / 1.1 KW

Reel Dimension mm					Parallel Cable Reeling Drum.										
d	D	L	Designation of Reel Capacity in Metres.												
1500	2000	1000	152010P	-C		235	213	201	190	169	157				
1500	2000	1250	152012P	-P		298	270	255	241	215	200				
1500	2000	1500	152015P	-C		360	327	309	293	260	243				
1500	2000	1750	152017P	-C		423	384	363	344	306	285				
1500	2000	2000	152020P	-C		486	441	417	395	352	328				
1500	2000	2250	152022P	-C				471	446	398	371				
1500	2000	2500	152025P	-C				525	498	443	413				
2000	2500	1500	202515P-F	P+C								232	226		
2000	2500	1750	202517P-F	P+C								273	266		
2000	2500	2000	202520P-F	P+C								314	306		
2000	2500	2500	202525P-F	P+C								396	387		
2000	2500	3000	202530P-F	P+C								478	467		
			Cable Specification.												
			Cable size	mm^2	12Cx2.5+	14Cx1.5+	16Cx2.5+	16Cx2.5+	16Cx2.5+	19Cx2.5+	30Cx2.5+	3.5Cx150+	3.5Cx185+		
These	tables o	nlv			4Cx1.5	6Cx1.5	6Cx1.5	4Cx1.5	12Cx1.5	16Cx1.5	6Cx2.5	12Cx1.5+	12Cx2.5+		
	al capaci	,										4Cx1.5	4Cx2		
size.	ai oapaoi	ty and	Outer dia	mm	35	37	39	41.5	44	50	52	76	78		
Alway	s ask Ele	econ	*Amperage ratir	g Amp	25	25	25	25	25	25	25	400/25	400/25		
for specific design		Weight	kg/m	1.42	1.8	2	2.26	2.43	2.71	3.66	3.66	3.66			
	mendati						Slip Rin	g Specific	ation.						
quotation on base of actual application.			Slip Ring Type		12P+4P	14P+6P	19P+12P	19P+4P	16P+12P	19P+16P	30P+6P	30P+6P	30P+6P		
actual	applicat	1011.	Amperage rating	Amp	25	25	25	25	25	25	25	400/25	400/25		
			* Cable ampera	ge indicat	ed are at 4	0 degree	celsius								
** Contorq Drive and its combinations are adopted on base of torque requirement.															

DESIGN DATA FOR CABLE REELING DRUMS

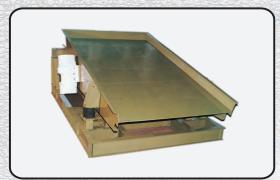
1	CUSTOMER'S NAME AND ADDRESS	:	
2	CONTACT NO. AND EMAIL ID	:	
3	MACHINE DESCRIPTION.	:	
4	TRAVEL LENGTH OF M/C. (MTRS.)		MTRS.
5	LOCATION OF FEED POINT (I.E. AT CENTRE OR AT THE END)	:	
6	TRAVEL SPEED OF M/C. (MTR./MIN)	:	(a) M/MIN - MINIMUM (Operational) (b) M/MIN - MAXIMUM (Idle)
7	ACCELERATION OF M/C. (M/Sec^2)	:	TIME FROM REST TO MAXM. SPEED
8	CABLE PAYOUT LOOKING FROM SLIPRING SIDE (R.H./L.H.) FOR PARALLEL CABLE REELING DRUM	:	
9	MOUNTING HEIGHT OF CRD (I.E. CENTRE OF REEL TO CABLE TRAY OR GROUND) (MM)	:	
10	CABLE DETAILS	:	
	A. CABLE SIZE (NO. OF CORES AND AREA OF CORES)	:	
	B. GRADE OF CABLE	:	
	C. CABLE DIAMETER (MM)	:	
	D. WEIGHT OF CABLE (KG/MTR)	:	
	E. BENDING RADIUS OF CABLE	:	
	F. SAFE PULLING TENSION OF CABLE (NM)	:	
	G. LENGTH OF CABLE ON DRUM (WITHOUT DEAD TURNS)	:	
	H. NO. OF DEAD TURNS OR EXTRA LENGTH.	:	
11	NO. OF LAYERS ON DRUM FOR PARALLEL CABLE REELING DRUM	:	
12	AMBIENT TEMP. (DEG. CEL.)	:	
13	DUTY CYCLE MAXIMUM REELING TIMES IN 12 HOURS.	:	
14	TYPE OF CRD (PARALLEL / MONO SPIRAL)	:	
15	NOTES/ SPECIAL REQUIREMENT OR SPECIFICATIONS.	:	

6 nup/nur nud contorq gear unit

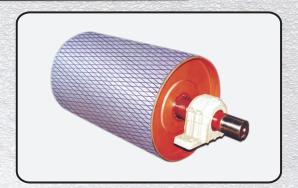


Idlers





Vibrating Feeder



Pulley

MARKETING & SERVICING COMPANY



EMTICI ENGINEERING 2019M/FTPED

REGISTERED OFFICE:

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