

Sr. no.	Conv. No.	BC-7	BC-8A	BC-9A	BC-10A	BC-11A
1	Qty,no	1	1	1	1	1
2	Material handled	Coal / Stone Chips				
3	Max lump size, mm	50 mm/80 mm				
4	Bulk density, t/m ³	0.8/1.6	0.8/1.7	0.8/1.8	0.8/1.9	0.8/1.10
5	Surcharge Angle,degree	20	20	20	20	20
6	Rated Capacity tph	1000	1000	1000	1000	1000
7	Capacity, tph- (Designed)	1200	1200	1200	1200	1200
8	Belt width, mm	1000	1000	1000	1000	1000
9	Troughing Angle,degree	35	35	35	35	35
10	Belt speed m/s	2.5	2.5	2.5	2.5	2.5
11	Length pulley CRS, m (approx)	517.00	190.00	178.00	86.00	245.00
12	Lift, m (approx)	4.00	8.00	4.00	4.00	5.00
13	Type of Take-up	HGTU/VGTU				
14	T.U. Travel	2.5% of pulley CRS,mm+600mm forNylon Nylon Belt				
15	Carrying idler *					
i	Type	3-roll with 35° troughing angle, Fixed Type				
ii	Normal idler spacing, m	1	1	1	1	1
iii	ERW Tube O.D., mm	139.7	139.7	139.7	139.7	139.7
iv	ERW Tube thk, mm[mm]	4.85	4.85	4.85	4.85	4.85
v	Bearing size, mm	30	30	30	30	30
vi	Qty, no	511	184	172	80	239
16	Return idler					
i	Type	2-roll V type with 10° troughing angle				
ii	Normal idler spacing, m	3	3	3	3	3
iii	ERW Tube O.D., mm	139.7	139.7	139.7	139.7	139.7
iv	ERW Tube thk, mm[mm]	4.85	4.85	4.85	4.85	4.85
v	Bearing size, mm	25	25	25	25	25
vi	Qty, no	166	57	53	23	76
17	Impact idler					
i	Type	3-roll with 35° troughing angle, Fixed Type				
ii	Maximum idler spacing, m	0.5	0.5	0.5	0.5	0.5
iii	ERW Tube O.D., mm	139.7	139.7	139.7	139.7	139.7
iv	Rubber disc O.D, mm	190	190	190	190	190
v	ERW Tube thk, mm[mm]	4.85	4.85	4.85	4.85	4.85
vi	Bearing size, mm	30	30	30	30	30
vii	Minimum Qty, no	6/Loading point				
18	Self aligning carrying idler					
i	Type	3-roll with 35° troughing angle				
ii	Normal idler spacing, m	14	14	14	14	14
iii	ERW Tube O.D., mm	139.7	139.7	139.7	139.7	139.7
iv	ERW Tube thk, mm[mm]	4.85	4.85	4.85	4.85	4.85
v	Bearing size, mm	30	30	30	30	30
vi	Qty, no	37	14	13	6	18
19	Self aligning return idler					
i	Type	2-roll V type with 10° troughing angle				
ii	Normal idler spacing, m	35	35	35	35	35
iii	ERW Tube O.D., mm	139.7	139.4	139.4	139.4	139.4
iv	ERW Tube thk, mm[mm]	4.85	4.85	4.85	4.85	4.85
v	Bearing size, mm	25	25	25	25	25
vi	Qty, no	15	5	5	2	7
20	Absorbed power, Kw	104	73	60	48	68
21	Motor output power, Kw	110	75	65	55	75
22	Installed Power, kw[Min],	1 X 110	1 X 75	1 X 65	1 x 55	1 x 75
23	Type of drive	Single	Single	Dual	Single	Single
24	Standby Drive provided with Scoop Control Fluid Coupling	Yes				

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25	Gear box					
i	Type	Helical/Bevel helical				
ii	Service factor	1.5 on Absorbed power or 1.25 on Motor out put power whichever is higher				
iii	Rating of Gear box on absorbed power at Service Factor 1.5, kW	156	110	90	72	102
iv	Rating of Gear box on Motor output power at Service Factor 1.25, kW	138	94	81	69	94
v	Rating of Gear box selected, kW	160	115	95	75	105
vi	Gear box ratio	16:1	16:1	16:1	16:1	16:1
vii	Qty, no	1	1	1	1	1
26	Hold Back	Yes	Yes	Yes	Yes	Yes
i	Type	Integrated with Gear box -Panel & Ratchet type				
27	Brake	Yes	Yes	Yes	Yes	Yes
i	Type	Hydraulic operated thruster type				
ii	Requirement	Brake Requirement shall furnished during detail engineering				
28	Input Coupling					
i	Type	Actuator operated Scoop type fluid coupling				
ii	Service factor	S.F 1 on Motor output power				
iii	Coupling Rating, kW	1 X 110	1 X 75	1 X 65	1 x 55	1 x 75
iv	Pilot Bore in mm	60	60	60	60	60
v	Qty, no	1	1	1	1	1
29	Output Coupling					
i	Type	Geared Coupling				
ii	Service factor	S.F 2 on Motor Rating				
iii	Pilot Bore in mm	100	100	100	100	100
iv	Qty, no	2	2	4	2	2
30	Belting					
i	Type	Nylon Nylond,Moulded edge construction,M-24 grade, Top/Bottom Cover Thickness =8/5 mm				
ii	Top cover thk, mm	8	8	8	8	8
iii	Bottomcover thk, mm	5	5	5	5	5
iv	Belt length, m	1086	399	374	181	515
31	Wrap angle	200° (min.)				
32	Pulley face width, mm	Belt width+200mm				
33	Min.Dia. of Drive pulley	500	500	500	500	500
i	Qty, no	1	1	1	1	1
ii	Lagging thickness(Natural Rubber, Diamond Groove),mm	16	16	16	16	16
34	Min.Dia of Non Drive pulley(Tail/ Take-up)	400	400	400	400	400
i	Qty, no	2	2	2	2	2
ii	Lagging thickness (Plain Rubber),,mm	12	12	12	12	12
36	Min.Dia of Snub/Bend Pulley	350	350	350	350	350
i	Qty, no	3	3	5	5	5
ii	Lagging thickness (Plain Rubber),,mm	12	12	12	12	12
37	Pull cord switch @ 50m		4	4	2	5
38	Belt swey switch @ 30m		6	6	3	8
39	Zero speed switch-Each Conveyor		1	1	1	1
40	Take up over travel limit switch-Each Conveyor		2	2	2	2