

CORPORATE PROFILE



SINHA
INDUSTRIES

MOVING
TOMORROW FAST

www.sinhaind.com



Complete Solution of Material Handling System



STRENGTH OF SINHA INDUSTRIES

Wide variety of
Belt Conveyor
Equipments &
Industrial
Machine Products

Long term
relationship
with clients

Quality
assessment
by recognized
laboratories

Excellent
Network

Experienced &
professional
management

Joint Venture
project for
manufacturing
Fly Ash Bricks

New
speciality
products
delivered from
time to time

Quality

Integrated quality checks ensure that material passing from each stage adheres to the standards. The Quality Assurance department takes care of checking each batch against set specifications. The Quality lab is equipped with the required devices for full Quality assurance.

Sinha Industries is a company that prides itself with deep knowledge and competence.

In Material Handling System with over 20 years of experience in the Quality, Cost and Delivery, in the Bulk Market.

The company enjoys a unique locational advantage, and is reaching out to global markets. Adhering to quality standards from Day One, the company is on the anvil of securing ISO 9001 certification. Our product designs, and the proof of the quality lies in the trust placed by our customers spread all over the globe. Now we have started also exporting of our production.





Profile

We Help Your Business with Our Creation

For nearly one fifth of a century Sinha Industries has been manufacturing Material Handling Equipments. Company is a registered member of National Small Scale Industries (N.S.I.C.) and Small Scale Industries (S.S.I.).

A Part of Sinha Group of Industries from Howrah, West Bengal located on the Eastern part of India and is a premier manufacturer of Belt Conveyor System. The Company is closely held and supervised by Mr. P Sinha and Associates. The target of this latest venture to steps all over the growing market of Material Handling Systems.

Our company is totally equipped with the latest machinery matching the Global Benchmarks in production standard.

Total area of the factory is about 20,000 sqft. and tasting laboratory equipped with updated tasting facilities.

Our major presence in every application of Material Handling Systems with a wide range of belt conveyor in the projects of Steel, Coal, Coke, Lignite, Iron Ore, Cement, Fertilizer, Slag, Mining, Crushing & Screening Industries etc.

Why Us?



Plant & Machinery

Machine	Capacity	Quantity
Lathe Machine	10'-00	02 Nos.
Lathe Machine	8'-00	02 Nos.
Lathe Machine	16'-00	02 Nos.
Lathe Machine	18'-00	02 Nos.
Capstone Machine	1½"	02 Nos.
Capstone Machine	2½"	01 Nos.
Shapping Machine	24"	01 Nos.
Drill Machine	1"	01 Nos.
Drill Machine	2"	01 Nos.
Hacksaw Machine	24"	02 Nos.
Mig (CO ₂ Welding Machine)	400 amp	04 Sets.
Double Head Boring	2400 B/W, R/I	01 Nos.
Arc Welding Machine	400 amp	05 Nos.
Power Press	150 Ton	02 Nos.
Hydraulic Press	150 Ton	05 Nos.
Hydraulic Press	100 Ton	05 Nos.
Vertical Milling	1 no	01 Nos.
Horizontal Milling	2 no	01 Nos.
Grinding (Self)	1 Hp	02 Nos.
Air Compressor (Paint Division)	400 lb	02 Nos.



Tasting Machineries of Idlers
Capacity 400 to 2200 Belt Width

Friction test01 Nos. Run out test01 Nos. Dust Ingression test01 Nos. Water Ingression test01 Nos.



S. I. Conveyor

Sinha has been manufacturing Material Handling Equipments specially Conveyor Idlers, Bracket, Pulley & fabrication (related with the Material Handling) for all sector of the industry throughout the country and abroad since nearly 20 years.

In this journey company offers to the industry a complete range of Conveyor Equipments based on the experience gained to meet up all requirement to reduce initial costs and economic operation.

It is required for every part of Material Handling through a wide range of Belt Conveyor for the projects of Steel, Coke, Coal, Lignite, Iron Ore, Fertilizer, Slag & Port Industries etc.

Idlers are available for belt widths upto 300 mm to 2400 mm.

S.I. Idlers Cover Carrying, Return, Self-Aligning Carrying & Return, Guide & Stub Roller, R.D. Return, Impact, Transition, Picking & Feeding, Self-Cleaning Return, V-type Return, Garland type Carrying & Return functions, Non-Magnetic Roller. Both sealed-for-life Idlers with deep groove ball bearings & regreasable type Idlers with One-shot one-point lubrication system with Taper Roller bearings are available in the S.I. range.

Standards

The Idlers are designed as per IS specification and according to customer design.

Sealed for life

Fitted with Deep Groove Ball Bearings covering 200 mm to 45 mm diameter. S.I. Idlers are Life Lubricated. Regreasing arrangement of individual rollers can be provided on request.

Bearing Housing

Made from Deep Drawn quality Steel. Housings are welded to both ends of the tube (ERW) by an automatic welding machine CO2 Mig mono-block design to ensure rigidity, lower rating weight and minimum out-of-roundness.





Tube

Special ERW tubes as per IS-9295 with close tolerances are used.

Tubes are recessed at both ends simultaneously by special purpose machine to guarantee concentricity.



Frame

Assembly of Idler Rollers, Life-Sealed type, is supported on fabricated Brackets on an inverted according to degree base board forming a truss-like construction. Fabricated Brackets from Flat, Plate & Channel and are mounted on angel channel base board.

Sealing

S.I. Idlers are used specially designed, laboratory-tasted, multi-labyrinth, non-contacting type seals which keeps dust, moisture and dirt away from the bearing.

A waterproof weather cap at the roller end prevents water entering alongside the shaft.

Lubrication

S.I. all Idler Rollers are lubricated with Hi-Lithium MP3 based grease during assembly.

Shaft

S.I. Idlers are provided with shaft made from bright bar conforming to IS-9550. Shaft conforming to EN-8 or C-35 or C-45 chemical composition can be supplied if required. The shafts are ground on a centreless Grinding Machine to provide finish of a very high degree through out the length.

Testing Facility

All components are tested at every stages of manufacture. Idler rollers are fully tested for free running, dust and water penetration, dynamic fiction factor and high speed at S.I. laboratory equipped with upto date testing facilities.

Sealed for life

Series	Single row deep groove ball bearing	Range of Belt sizes (mm)	Roll O/D mm
SIC20	6204	300 to 1400	88.9,101.6,114.3,127,139.7,152.4
SIC25	6205	300 to 1400	88.9,101.6,114.3,127,139.7,152.4,159
SIC30 (L & H Type)	6206/6306	400 to 1600	114.3,127,139.7,152.4, 159, 165
SIC35 (L & H Type)	6207/6307	800 to 2400	127,139.7,152.4, 159, 165,168.3
SIC40 (L & H Type)	6208/6308	1200 to 2400	139.7,152.4, 159, 165,168.3
SIC45 (L & H Type)	6209/6309	1200 to 2400	152.4, 159, 165,168.3

Regreasable type with taper roller bearings

Series	Taper roller bearing	Range of Belt sizes (mm)	Roll Diameter (mm)
SICT20	30204	300 to 1400	114.3,127
SICT25	30204	400 to 1600	139.7 , 152.4
SICT30	30206	800 to 2400	152.4

Dimension sheets of these Idlers can be furnished against orders.





Coupling



Screw Take-up



Pulley



Idlers



**Wet Scraper
Chain Link**



Return Idlers



Bearing Houshing



Idlers



Idlers



**Grating with
Hot Galvanized**



Conveyor Belt



Idler rollers



Rod Gate



Pipe Conveyor



Diverter Gate.



Rack & Pinion Gate



**Butterfly Dampers
250x250**



Idler in process



Flange



**Wet Scraper
Sprockets**



**Steel rubber belt
conveyor idler roller**



Foundation Bolt



Conveyor Idlers

2 ROLL VEE RETURN (GARLAND)

BELT WIDTH MM	A MM	C		D	
		10° MM	20° MM	10° MM	200° MM
650	362	864	847	21	57
800	435	1008	988	36	78
1000	540	1214	1190	54	105
1200	645	1421	1393	72	132

3 ROLL GARLAND TROUGHING IDLER

BELT WIDTH MM	A MM	C			D		
		20° MM	30° MM	35° MM	20° MM	30° MM	35° MM
800	296	1047	992	957	66	125	153
1000	360	1231	1167	1126	88	157	190
1200	438	1455	1380	1331	114	196	235
1400	496	1622	1538	1484	134	225	268
1600	563	1815	1721	1661	157	259	307
1800	627	2000	1896	1830	179	291	343

5 ROLL GARLAND TROUGHING IDLER

BELT WIDTH MM	A MM	C		D	
		45° MM	55° MM	45° MM	55° MM
1200	257	1426	1240	404	495
1400	300	1600	1390	459	561
1600	339	1758	1530	508	621
1800	391	1966	1712	577	702
2000	425	2108	1834	618	753

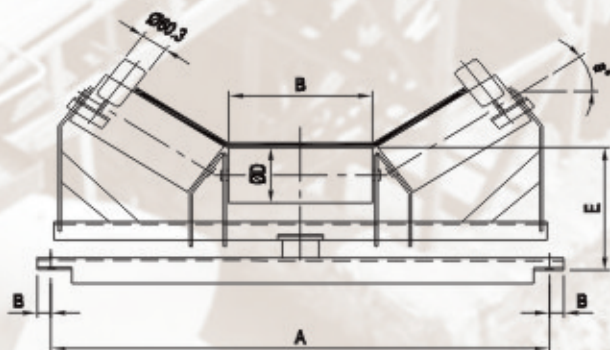
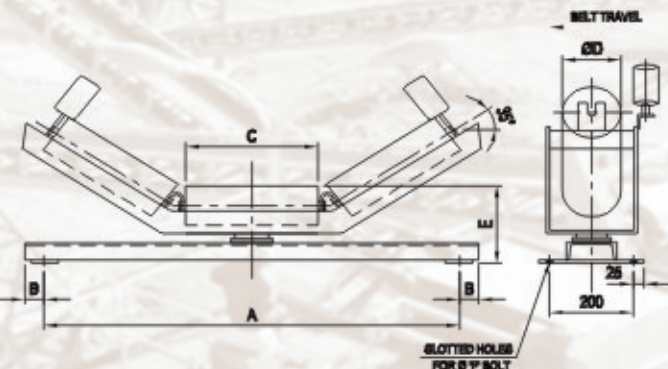
2 ROLL VEE RETURN IDLER BASE MOUNTED.

(ROLL DIA) D Ø MM							a	
101.6	114.3	127	139.7	152.4	159	168.3	10°/ 15°	
BELT WIDTH MM	A MM	B		C	E		FØ	
		10° MM	15° MM	MM	10° MM	15° MM	MM	
800	1090	956	936	465	134	175	M12	
1000	1290	1220	1198	600	158	210	M12	
1200	1490	1418	1390	700	175	236	M16	
1400	1690	1614	1584	800	192	262	M16	
1600	1900	1812	1776	900	210	288	M16	
1800	2100	2008	1970	1000	227	314	M20	
2000	2300	2206	2164	1100	245	340	M20	

NOTE:

Belt width not covered in IS : 8598.

For your replacement requirement with different mounting dimensions, please consult SINHA IND.(www.sinhaind.com.)



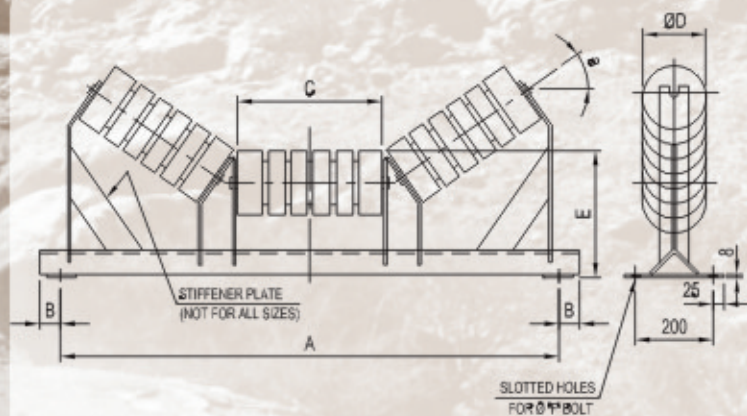
Belt width not covered in IS : 8598.
For your replacement requirement with different mounting dimensions,
please consult SINHA IND.(www.sinhaind.com.)

(ROLL DIA) D Ø MM							a						
101.6	114.3	127	139.7	152.4	159	168.3	10°	20°	25°	30°	35°	45°	

BELT SIZE MM	A MM	B MM	C MM	E MM Ø D (ROLL DIA)								F MM
				101.6	114.3	127	139.7	152.4	159	168.3	MM	
400	690	25	160	200	225	225	--	--	--	--	M12	
500	790	25	200	200	225	225	275	275	275	290	M12	
650	940	25	250	200	225	225	275	275	275	290	M12	
800	1090	25	315	200	225	225	275	275	275	290	M12	
1000	1290	25	380	200	225	225	275	275	275	290	M12	
1200	1490	25	465	215	240	240	275	275	275	290	M16	
1400	1690	25	530	215	240	240	275	275	275	290	M16	
1600	1900	25	600	--	240	240	275	275	275	290	M16	
1800	2100	25	670	--	--	--	275	275	275	290	M20	
2000	2300	25	750	--	--	--	--	275	275	290	M20	

(ROLL DIA) D Ø MM							a					
101.6	114.3	127	139.7	152.4	159	168.3	10°	20°	25°	30°	35°	45°
BELT SIZE MM	A MM	B MM	C MM	E MM Ø D (ROLL DIA)								F MM
				101.6	114.3	127	139.7	152.4	159	168.3	MM	
400	690	25	160	200	225	225	--	--	--	--	--	M12
500	790	25	200	200	225	225	275	275	275	290		M12
650	940	25	250	200	225	225	275	275	275	290		M12
800	1090	25	315	200	225	225	275	275	275	290		M12
1000	1290	25	380	200	225	225	275	275	275	290		M12
1200	1490	25	465	215	240	240	275	275	275	290		M16
1400	1690	25	530	215	240	240	275	275	275	290		M16
1600	1900	25	600	--	240	240	275	275	275	290		M16
1800	2100	25	670	--	--	--	275	275	275	290		M20
2000	2300	25	750	--	--	--	--	275	275	290		M20

(ROLL DIA) D Ø MM							a					
101.6	114.3	127	139.7	152.4	159	168.3	10°	20°	25°	30°	35°	45°
BELT SIZE MM	A MM	B MM	C MM	E MM (ROLL DIA)								F Ø MM
				101.6	114.3	127	139.7	152.4	159	168.3	MM	
400	690	25	160	200	225	225	--	--	--	--		M12
500	790	25	200	200	225	225	275	275	275	290		M12
650	940	25	250	200	225	225	275	275	275	290		M12
800	1090	25	315	200	225	225	275	275	275	290		M12
1000	1290	25	380	200	225	225	275	275	275	290		M12
1200	1490	25	465	215	240	240	275	275	275	290		M16
1400	1690	25	530	215	240	240	275	275	275	290		M16
1600	1900	25	600	--	240	240	275	275	275	290		M16
1800	2100	25	670	--	--	--	275	275	275	290		M20
2000	2300	25	750	--	--	--	--	275	275	290		M20



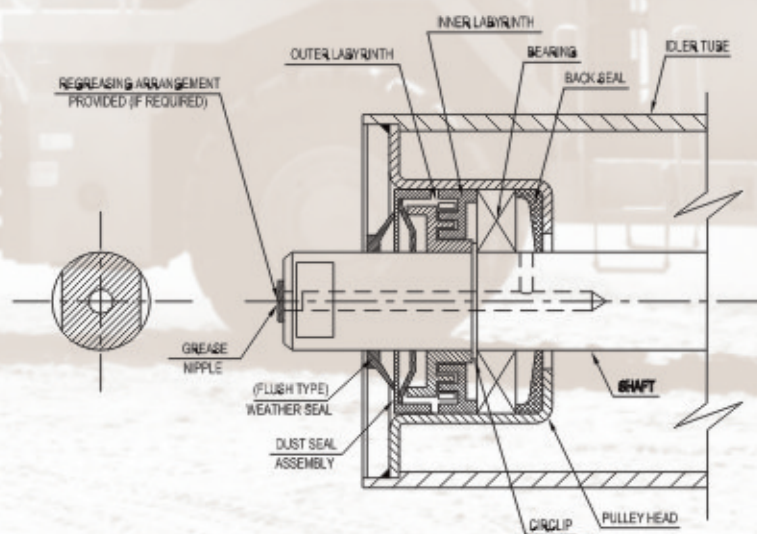
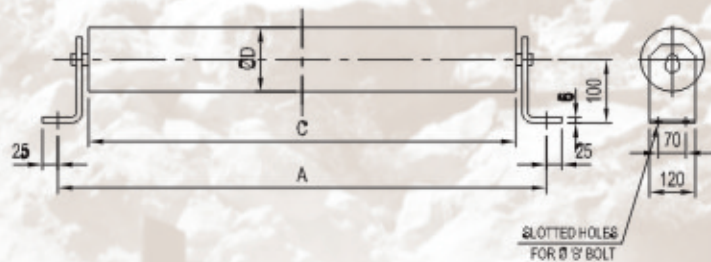
IMPACT IDLER

(ROLL DIA) D Ø MM				a				
152	166	190		20°	25°	30°	35°	45°
BELT SIZE MM	A	B	C	E MM (ROLL DIA)			F Ø	
	MM	MM	MM	152	166	190	MM	
400	690	25	160	275	290	290	M12	
500	790	25	200	275	290	290	M12	
650	940	25	250	275	290	290	M12	
800	1090	25	315	275	290	290	M12	
1000	1290	25	380	275	290	290	M12	
1200	1490	25	465	275	290	290	M16	
1400	1690	25	530	275	290	290	M16	
1600	1900	25	600	275	290	290	M16	
1800	2100	25	670	275	290	290	M20	
2000	2300	25	750	275	290	290	M20	

FLAT CARRYING IDLER

(ROLL DIA) D Ø MM						
101.6	114.3	127	139.7	152.4	159	168.3

BELT WIDTH MM	A MM	Ø B MM	C MM
400	690	M12	500
500	790	M12	600
650	940	M12	750
800	1090	M12	950
1000	1290	M12	1150
1200	1490	M16	1400
1400	1690	M16	1600
1600	1900	M16	1800
1800	2100	M20	2000
2000	2300	M20	2200

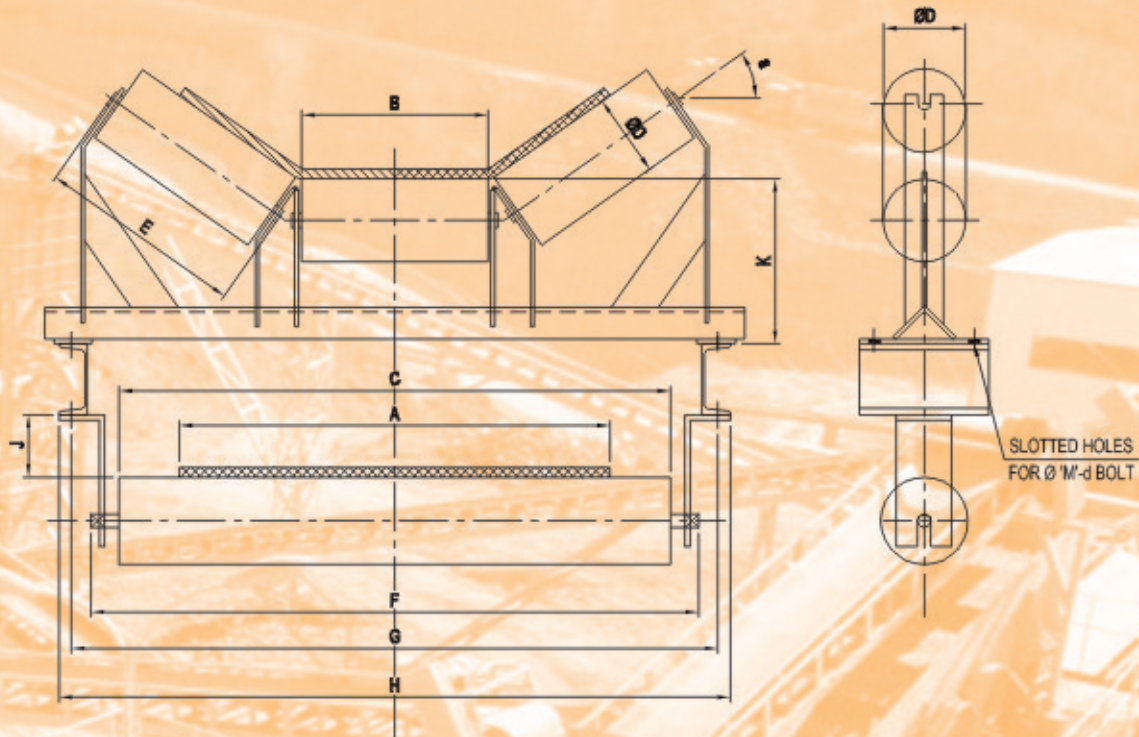


BASIC BELT CONVEYOR COMPONENTS

NOTE:

Belt width not covered in IS : 8598.

For your replacement requirement with different mounting dimensions, please consult SINHA IND.(www.sinhaind.com.)



BELT WIDTH	ROLLER LENGTH		SHAFT LENGTH		MOUNTING DIMENSION			HEIGHT DIMENSION 'H'								
								ROLLER DIA 'D'								
A	B	C	E	F	G	H	M-d	76.1	88.9	101.6	114.3	127	139.7	152.4	159	165
400	160	500	186	536	690	740	M-12	225	225	225	225	225	275	275	275	275
450	190	550	216	586	740	790	M-12	225	225	225	225	225	275	275	275	275
500	200	600	226	636	790	840	M-12	225	225	225	225	225	275	275	275	275
600	230	700	256	736	890	940	M-12	225	225	225	225	225	275	275	275	275
650	250	750	276	786	940	990	M-12	225	225	225	225	225	275	275	275	275
750	290	850	316	886	1040	1090	M-12	225	225	225	225	225	275	275	275	275
800	315	950	341	986	1090	1140	M-12	225	225	225	225	225	275	275	275	275
900	350	1050	376	1086	1190	1240	M-12	225	225	225	225	225	275	275	275	275
1000	380	1150	406	1186	1290	1340	M-12	225	225	225	225	225	275	275	275	275
1200	465	1400	491	1436	1490	1540	M-16	225	225	225	225	225	275	275	275	275
1400	530	1600	556	1636	1690	1740	M-16	225	225	225	225	225	275	275	275	275
1600	600	1800	626	1836	1900	1950	M-16	225	225	225	225	225	275	275	275	275
1800	670	2000	696	2036	2100	2150	M-20	225	225	225	275	275	275	275	275	275
2000	750	2200	776	2236	2300	2350	M-25	225	225	275	275	275	300	325	325	325
2200	800	2400	826	2450	2500	2550	M-25	225	225	275	275	275	300	325	325	325
2400	900	2600	926	2650	2700	2750	M-25	225	225	275	275	275	300	325	325	325

NOTE:

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For your replacement requirement with different mounting dimensions, please consult SINHA IND.(www.sinhind.com.)



LOCATION

Company situated in a unique location in West Bengal, India, just 10 km from Kolkata and 15 km from Kolkata Port & within 5 km all reputed road transports. Major railway station is just 3 km from our company.

Located in Saraswati Complex by the side of Kolkata-Delhi-Mumbai Golden Quadrangle National Highway no.6.



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