C&Y INDUSTRY

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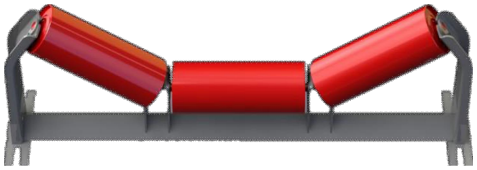
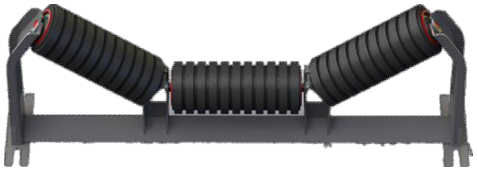
BRIEF INTRODUCTION

1. Product Series and Applications



Equal Troughing Idlers

Mainly used for the support of the carrying side of the belt conveyor. It is the principal device for supporting the belt and the conveyed materials.



Equal Impact Troughing Idlers

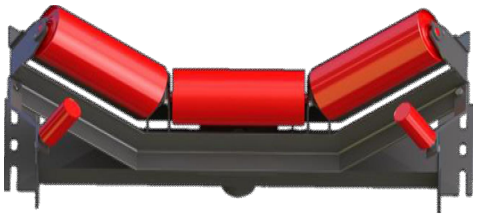
Mainly used for the support of the loading point or impacting points. The rubber discs have the function of shock absorbing and shock resistance, thus protect the belt from damaged and prolong its service life.

Unequal Troughing Idlers

Mainly used for reducing the height of two ends to aid the picking or manual separation. The load ratings of side rollers are greatly reduced from standard troughing idlers because most of the weight is on the long center.

Unequal Impact Troughing Idlers

Mainly used for the supporting of the loading point or impacting points. Working with unequal troughing idlers, its usage is similar to standard impact troughing idlers. It can protect the belt from damaged and prolong its service life.

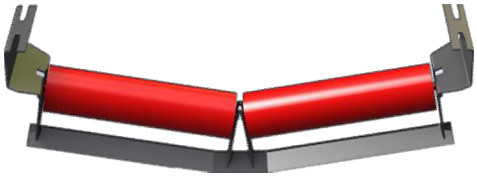


Self-Aligning Troughing Idlers

Mainly used for rectifying the belt misalignment automatically during the operation and ensure stable operation of the belt conveyor.

Low Profile Channel Troughing Idlers

Mainly used on the side, with the function similar to the troughing idlers. They are used in the conveyors with tight structures and are easy to be mounted.



V-Return Idlers

Mainly used for the support of the return side of the belt conveyor and has the function of preventing the belt misalignment, ensure stable operation of the belt conveyor.

Self-Aligning Return Idlers

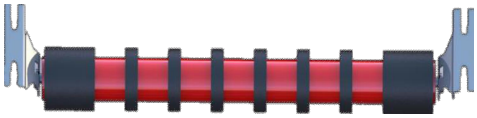
Mainly used for the support of the return side of the belt conveyor and rectifying the belt misalignment automatically, thus ensure stable operation of the belt conveyor.

Return Idlers

Mainly used for the support of the return side of the belt conveyor and ensure stable operation of the belt conveyor.

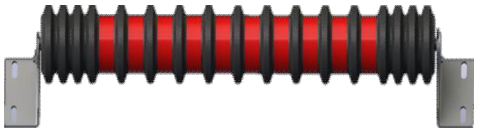
Flat Idlers

Mainly used to convey some unit articles or more regular articles, rather than bulk materials.



Rubber Discs Return Idlers

Mainly used for the support of the return side of the belt conveyor and has the function of clearing the belt.



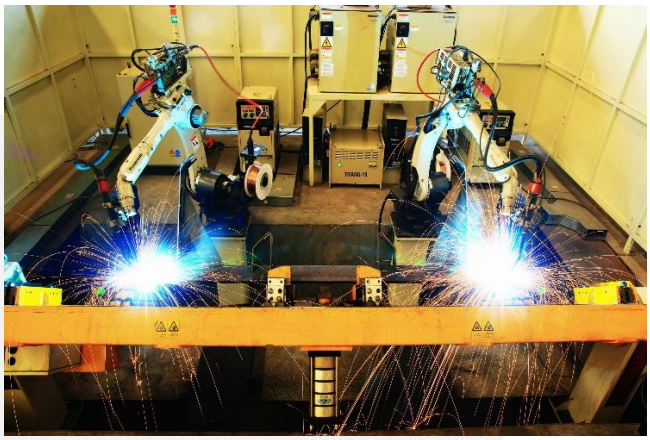
Rubber Discs Flat Idlers

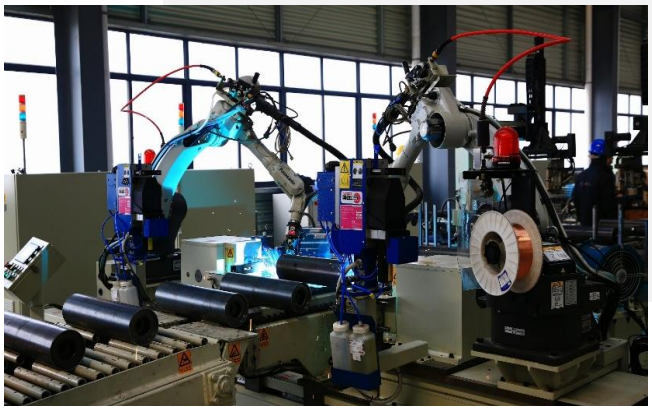
Mainly used for transporting the sticky, corrosive or abrasive materials.

2. Production Capacity & Equipment

Using the international standard design and manufacturing technology, our company improve the production and design of idlers to a higher level.

The idler produced by our company enjoy minimum revolving resistance, long life, small maintenance work and high carrying capacity.





3. Product Data Design

THE IDLER SPACING

The idler spacing should meet the following two conditions:

1) The carrying capacity of the idler bearings and the belt sag.

2) Consideration shall be given to the belt tension at this point to ensure the most appropriate belt sag.

Maximum belt sag: $$h_{\max} = \frac{g(q_G + q_B)a}{8F_0}$$

h_{max} -The maximum belt sag between two adjacent idler sets/m;

a - is Idler spacing/ m;

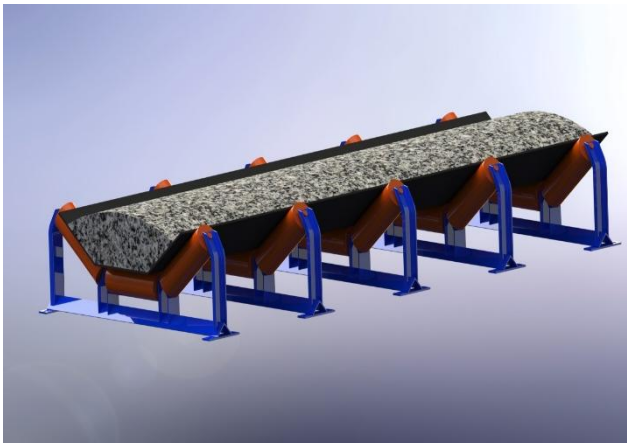
q_G - is material mass kg/m;

q_B - is belt mass kg/m;

F_0 - is belt tension at this point/ N;

THE BELT SAG SHOULD BE CONTROLLED WITHIN 1% UNDER STABLE OPERATING CONDITION.

Loose density kg/m³	BW	Roller spacing
≤1600	500、650	1200
	800、100	1200
	1200、2400	1200
＞1600	500、650	1000
	800、100	1000
	1200、2400	1000



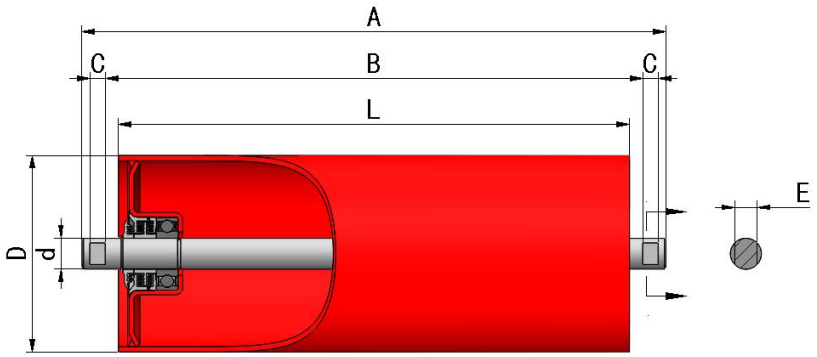
THE IDLER ROLLER REVOLUTION

There are normal type and heavy duty idlers as per different carrying capacity. Each idler pipe diameter corresponds to two or three different kinds of shaft diameters. Big clearance bearings shall be applied for all idlers. The revolution for all idler rollers shall be less than 600r/min.

ROLLER DIA mm	Belt speed m/s									
	0.8	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.5
89	172	215	268	344	429	537				
108	142	177	221	283	354	442	557			
133		144	180	230	287	359	453	575		
159		120	150	192	240	300	379	481	601	
194			123	158	197	246	310	394	492	
219							275	349	436	567

MACHINING TOLERANCE AND TIR(TOTAL INDICATOR READING)

The tolerance stated below shall be followed unless otherwise specified.



Roller Width L mm	L	B	A	E
L≤1000	±0.5	±0.3	±0.5	±0.2
1000＜L≤1500	±1.0	±0.5	±1.0	±0.2
L＞1500	±2.0	±0.8	±2.0	±0.2

Belt Speed /(m/s)	Pipe Diameter	Roller Width /mm				
		<550	≥550~750	>750~950	>950~1600	>1600
≥3.15	Ø63.5~Ø139.8	0.5	0.7	0.8	1.1	1.5
	Ø152.4~Ø177.8	0.6	0.7	0.8	1.2	1.5
	Ø194~Ø203	0.7	0.9	0.9	1.4	1.8
≤3.15	Ø89~Ø139.8	0.6	0.8	0.9	1.2	1.7
	Ø152.4~Ø177.8	0.6	0.9	0.9	1.3	1.7
	Ø194~Ø203	0.7	0.9	0.9	1.4	1.8

IDLER ROTATING RESISTANCE TEST

1) Before test, the roller shall be run continuously for 20 minutes at a speed of 1450r/min.

2) The test shall be carried out at a temperature of 20℃~25℃.

3) Fix the roller horizontally on the test frame. The lever of the apparatus shall be installed at the roller shaft end.

When the roller is rotated, the resultant movement in the shaft is transferred through the lever to the measuring equipment. Move the friction wheel and apply 250N load on the roller. Start the motor to drive the roller run at a speed of 600r/min for 10 minutes in the same direction, while ensuring the close contact between the friction wheel and the roller generatrix. (when the roller is rotating, slipping event should be avoided.) Record the reading F_R on the load cell. Two minutes after the roller stopped, drive the roller rotate in opposite direction and record the reading F_L as stated above . Calculate the average value F_{RL} as per the formula stated below. Then calculate the rotating resistance value F_{RL} .

$$F_{RL} = \frac{F_R + F_L}{2}$$

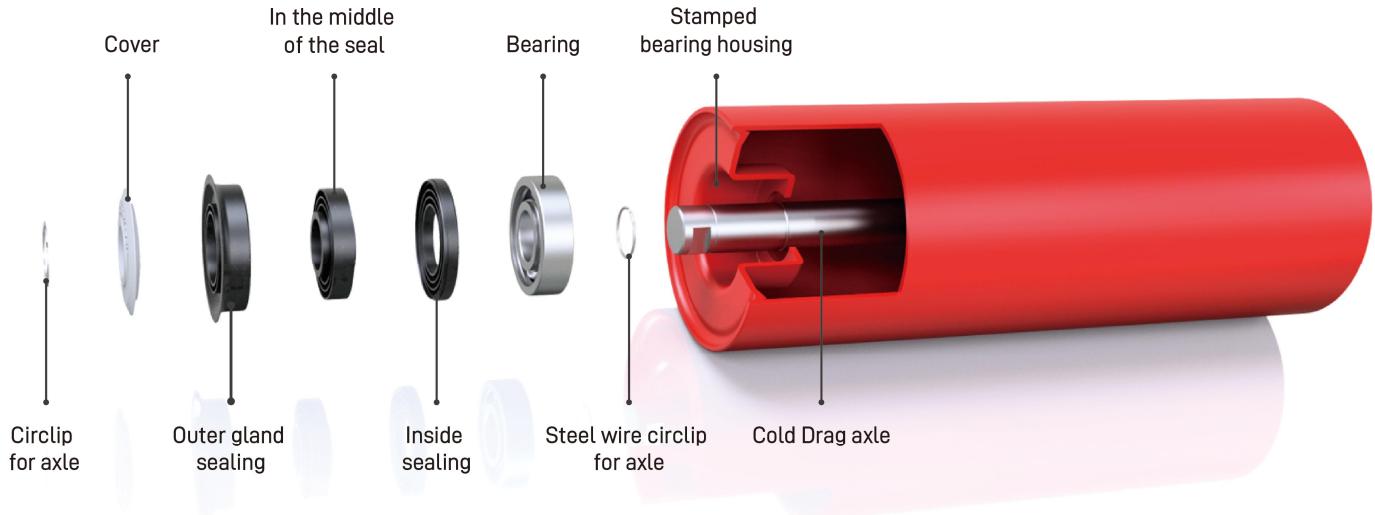
F_{RL} -is the average value of the reading at the load cell under running conditions. The unit is Newton(N).

F_R -is the reading at the load cell when the roller is turned to the right. The unit is Newton(N).

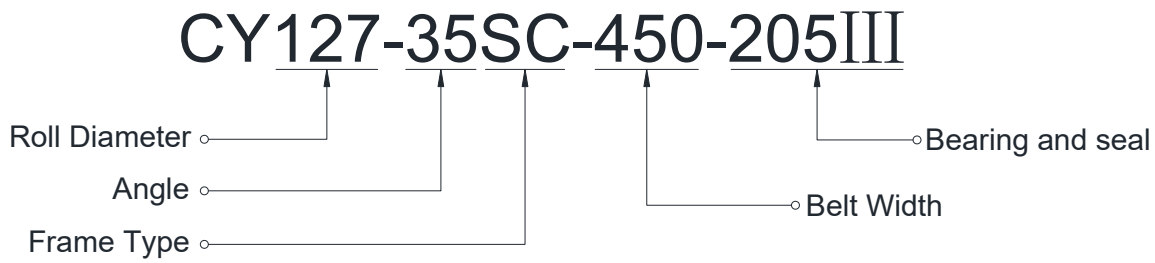
F_L -is the reading at the load cell when the roller is turned to the left. The unit is Newton(N).

Roller Dia.		≤108	≥133
ROTATING RESISTANCE VALUE	ANTI-DUST ROLLER	2.5	3.0
	ANTI-WATER ROLLER	3.6	4.35

C&Y Type Seal



4. Product Code



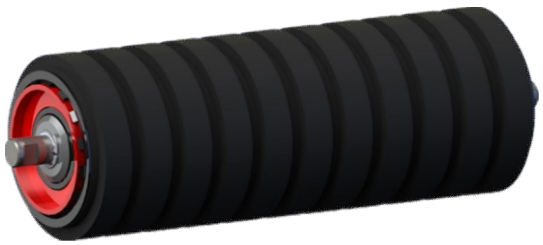
CODE SAMPLE

Belt width 800mm, 35° trough angle, Inline Troughed Carrying Frame,roller diameter 114, bearing6205;CYIII type seal

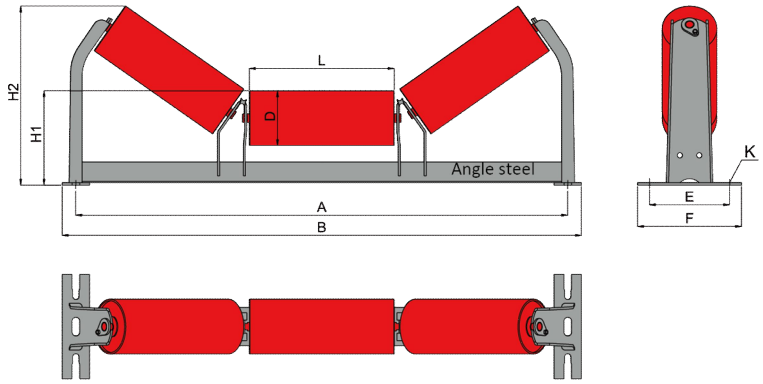
THE DRAWING NO. IS : CY114-35SC-800-205III

IDLER TYPE DESCRIPTION

Code	Name	Code	Name
ET	Equal Troughing Idlers	LPCT	Low Profile Channel Troughing Idlers
EIT	Equal Impact Troughing Idlers	VR	V-Return Idlers
UT	Unequal Troughing Idlers	R	Return Idlers
UIT	Unequal Impact Troughing Idlers	F	Flat Idlers
SAT	Self-Aligning Troughing Idlers	RDR	Rubber Discs Return Idlers
SAR	Self-Aligning Return Idlers	RDF	Rubber Discs Flat Idlers



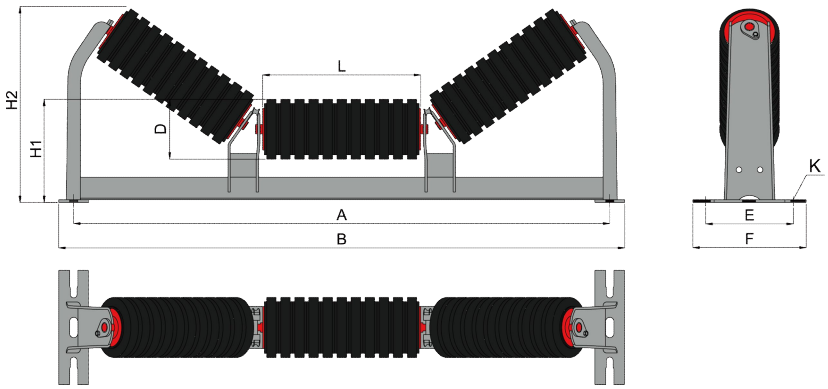
CEMA B EQUAL TROUGHING IDLERS



1.1.1 IN

								4 "		5 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	14	23	25	5 7/16	6	8	1/2	7	9 1/16	7 1/2	9 1/2
	16	25	27	6 3/4	6	8	1/2	7	9 1/16	7 1/2	9 1/2
	18	27	29	6 3/4	6	8	1/2	7	9 7/16	7 1/2	9 15/16
	20	29	31	7 5/8	6	8	1/2	7	9 13/16	7 1/2	10 1/4
	24	33	35	8 15/16	6	8	1/2	7	10 1/4	7 1/2	10 11/16
	30	39	41	11 1/8	6	8	1/2	7	10 15/16	7 1/2	11 7/16
	36	45	47	13 1/4	6	8	5/8	7	11 11/16	7 1/2	12 3/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	7 1/2	12 15/16	8	13 7/16
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	7 1/2	13 11/16	8	14 3/16
35°	14	23	25	5 7/16	6	8	1/2	7	10 1/4	7 1/2	10 11/16
	16	25	27	6 3/4	6	8	1/2	7	10 1/4	7 1/2	10 11/16
	18	27	29	6 3/4	6	8	1/2	7	10 15/16	7 1/2	11 3/8
	20	29	31	7 5/8	6	8	1/2	7	11 1/2	7 1/2	11 15/16
	24	33	35	8 15/16	6	8	5/8	7	12 1/4	7 1/2	12 5/8
	30	39	41	11 1/8	6	8	5/8	7	13 1/2	7 1/2	13 15/16
	36	45	47	13 1/4	6	8	5/8	7	14 11/16	7 1/2	15 1/8
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	7 1/2	16 7/16	8	16 7/8
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	7 1/2	17 11/16	8	18 1/8
45°	14	23	25	5 7/16	6	8	1/2	7	11 3/16	7 1/2	11 1/2
	16	25	27	6 3/4	6	8	1/2	7	11 3/16	7 1/2	11 1/2
	18	27	29	6 3/4	6	8	1/2	7	12 1/8	7 1/2	12 7/16
	20	29	31	7 5/8	6	8	1/2	7	12 11/16	7 1/2	13 1/16
	24	33	35	8 15/16	6	8	5/8	7	13 5/8	7 1/2	13 15/16
	30	39	41	11 1/8	6	8	5/8	7	15 3/16	7 1/2	15 9/16
	36	45	47	13 1/4	6	8	5/8	7	16 11/16	7 1/2	17 1/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	7 1/2	18 11/16	8	19 1/16
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	7 1/2	20 1/4	8	20 5/8

CEMA B EQUAL IMPACT TROUGHING IDLERS



1.2.1 IN

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	16	25	27	4 5/8	6	8	1/2	7	8 11/16	7 1/2	9 1/8
	18	27	29	4 5/8	6	8	1/2	7	9 1/16	7 1/2	9 9/16
	20	29	31	5 1/2	6	8	1/2	7	9 7/16	7 1/2	9 7/8
	24	33	35	6 13/16	6	8	1/2	7	9 7/8	7 1/2	10 5/16
	30	39	41	9	6	8	1/2	7	10 9/16	7 1/2	11 1/16
	36	45	47	11 1/8	6	8	5/8	7	11 5/16	7 1/2	11 13/16
	42	51	53 1/2	13 5/16	7 1/2	9 1/2	5/8	7 1/2	12 9/16	8	13 1/16
	48	57	59 1/2	15 1/2	7 1/2	9 1/2	5/8	7 1/2	13 5/16	8	13 13/16
35°	14	23	25	3 5/16	6	8	1/2	7	9 5/8	7 1/2	10 1/16
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	18	27	29	4 5/8	6	8	1/2	7	10 5/16	7 1/2	10 3/4
	20	29	31	5 1/2	6	8	1/2	7	10 7/8	7 1/2	11 5/16
	24	33	35	6 13/16	6	8	5/8	7	11 5/8	7 1/2	12
	30	39	41	9	6	8	5/8	7	12 7/8	7 1/2	13 5/16
	36	45	47	11 1/8	6	8	5/8	7	14 1/16	7 1/2	14 1/2
	42	51	53 1/2	13 5/16	7 1/2	9 1/2	5/8	7 1/2	15 13/16	8	16 1/4
	48	57	59 1/2	15 1/2	7 1/2	9 1/2	5/8	7 1/2	17 1/16	8	17 1/2
45°	14	23	25	3 5/16	6	8	1/2	7	10 7/16	7 1/2	10 3/4
	16	25	27	4 5/8	6	8	1/2	7	10 7/16	7 1/2	10 3/4
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	24	33	35	6 13/16	6	8	5/8	7	12 7/8	7 1/2	13 3/16
	30	39	41	9	6	8	5/8	7	14 7/16	7 1/2	14 13/16
	36	45	47	11 1/8	6	8	5/8	7	15 15/16	7 1/2	16 5/16
	42	51	53 1/2	13 5/16	7 1/2	9 1/2	5/8	7 1/2	17 15/16	8	18 5/16
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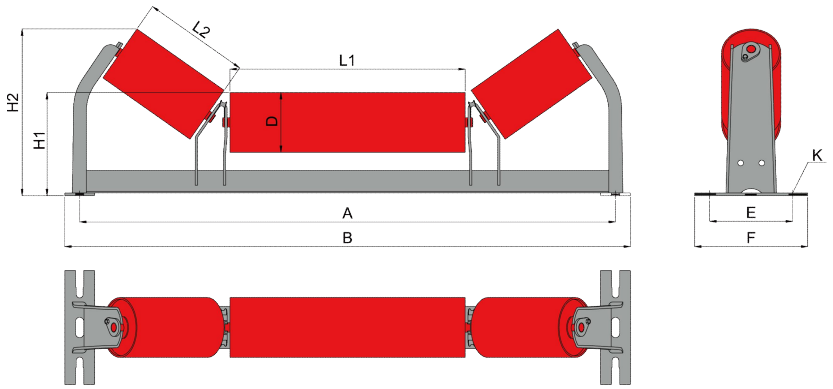
CEMA B UNEQUAL TROUGHING IDLERS



1.3.1 IN

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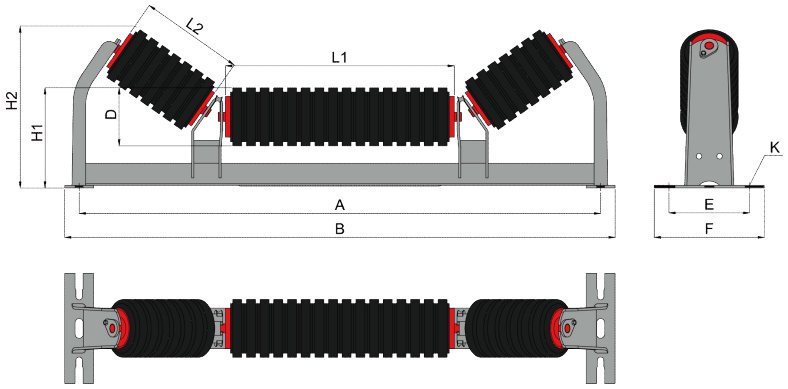
	30	39	41	21 3/8	5 7/16	6	8	1/2	7	9 1/16	7 1/2	9 7/16
	36	45	47	27 3/8	5 7/16	6	8	1/2	7	9 1/16	7 1/2	9 7/16
	42	51	53 1/2	33 3/8	5 7/16	7 1/2	9 1/2	5/8	7 1/2	9 9/16	8	9 15/16
	48	57	59 1/2	39 3/8	5 7/16	7 1/2	9 1/2	5/8	7 1/2	9 9/16	8	9 15/16
35°	24	33	35	13 1/4	6 3/4	6	8	1/2	7	11	7 1/2	11 3/8
	30	39	41	15 7/16	8 15/16	6	8	1/2	7	12 1/4	7 1/2	12 5/8
	36	45	47	21 3/8	8 15/16	6	8	1/2	7	12 1/4	7 1/2	12 5/8
	42	51	53 1/2	21 3/8	11 1/8	7 1/2	9 1/2	5/8	7 1/2	14	8	14 3/8
	48	57	59 1/2	27 3/8	11 1/8	7 1/2	9 1/2	5/8	7 1/2	14	8	14 3/8

CEMA B UNEQUAL IMPACT TROUGHING IDLERS



1.4.1 IN

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	30	39	41	19 1/4	3 5/16	6	8	1/2	7	8 11/16	7 1/2	9 1/16
	36	45	47	25 1/4	3 5/16	6	8	1/2	7	8 11/16	7 1/2	9 1/16
	42	51	53 1/2	31 1/4	3 5/16	7 1/2	9 1/2	5/8	7 1/2	9 3/16	8	9 9/16
	48	57	59 1/2	37 1/4	3 5/16	7 1/2	9 1/2	5/8	7 1/2	9 3/16	8	9 9/16
35°	24	33	35	11 1/8	4 5/8	6	8	1/2	7	10 3/8	7 1/2	10 3/4
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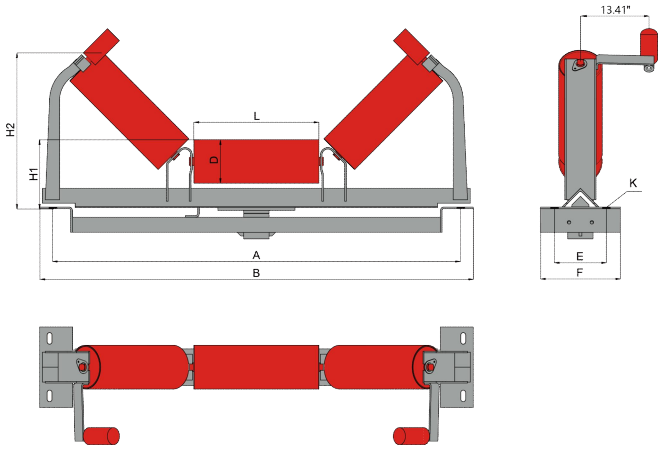
CEMA B SELF-ALIGNING TROUGHING IDLERS



1.5.1 IN

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	20	29	31	7 5/8	6	11	5/8	7 1/2	10 5/16	8	10 3/4
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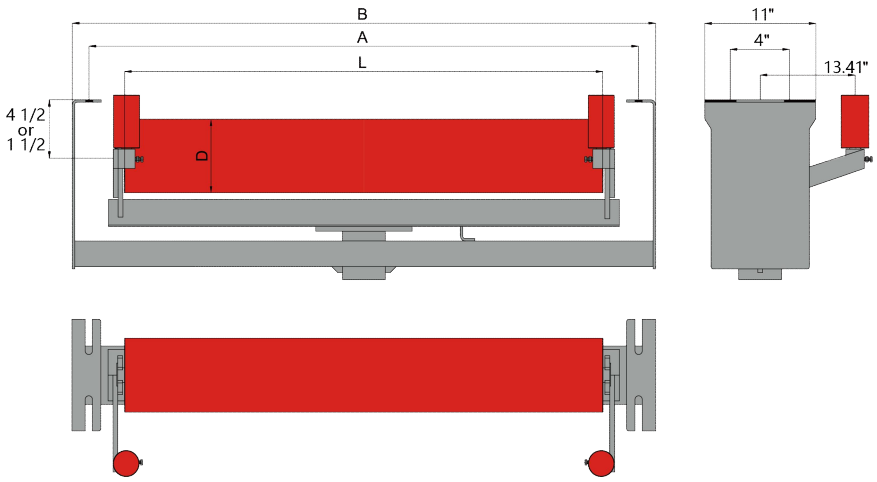
	42	51	53	15 7/16	6	11	5/8	8	13 7/16	8 1/2	13 15/16
	48	57	59	17 5/8	6	11	5/8	8	14 3/16	8 1/2	14 11/16
35°	14	23	25	5 7/16	6	11	5/8	7 1/2	10 3/4	8	11 3/16
	16	25	27	6 3/4	6	11	5/8	7 1/2	10 3/4	8	11 3/16
	18	27	29	6 3/4	6	11	5/8	7 1/2	11 7/16	8	11 7/8
	20	29	31	7 5/8	6	11	5/8	7 1/2	12	8	12 7/16
	24	33	35	8 15/16	6	11	5/8	7 1/2	12 3/4	8	13 1/8
	30	39	41	11 1/8	6	11	5/8	7 1/2	14	8	14 7/16
	36	45	47	13 1/4	6	11	5/8	7 1/2	15 3/16	8	15 5/8
	42	51	53	15 7/16	6	11	5/8	8	16 15/16	8 1/2	17 3/8
	48	57	59	17 5/8	6	11	5/8	8	18 3/16	8 1/2	18 5/8
45°	14	23	25	5 7/16	6	11	5/8	7 1/2	11 11/16	8	12
	16	25	27	6 3/4	6	11	5/8	7 1/2	11 11/16	8	12
	18	27	29	6 3/4	6	11	5/8	7 1/2	12 5/8	8	12 15/16
	20	29	31	7 5/8	6	11	5/8	7 1/2	13 3/16	8	13 9/16
	24	33	35	8 15/16	6	11	5/8	7 1/2	14 1/8	8	14 7/16
	30	39	41	11 1/8	6	11	5/8	7 1/2	15 11/16	8	16 1/16
	36	45	47	13 1/4	6	11	5/8	7 1/2	17 3/16	8	17 9/16
	42	51	53	15 7/16	6	11	5/8	8	19 3/16	8 1/2	19 9/16
	48	57	59	17 5/8	6	11	5/8	8	20 3/4	8 1/2	21 1/8

CEMA B SELF-ALIGNING RETURN TROUGHING IDLERS



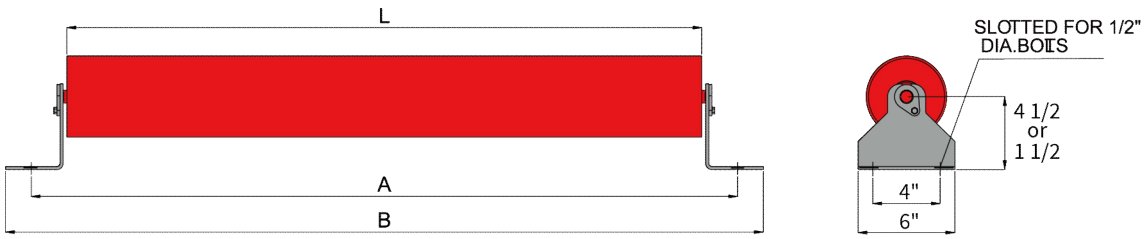
1.6.1 IN

	4 "			5 "		
BW	A	B	L	A	B	L
14	23	25	17 3/8	23	25	17 3/8
16	25	27	19 3/8	25	27	19 3/8
18	27	29	21 3/8	27	29	21 3/8
20	29	31	23 3/8	29	31	23 3/8
24	33	35	27 3/8	33	35	27 3/8
30	39	41	33 3/8	39	41	33 3/8
36	45	47	39 3/8	45	47	39 3/8
42	51	53	45 3/8	51	53	45 3/8
48	57	59	51 3/8	57	59	51 3/8

CEMA B RETURN IDLERS-4 " & 5 "DIAMETER

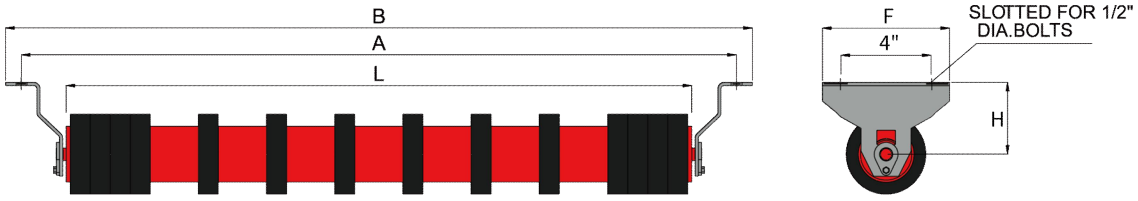
	4 "&5"				
	BW	A	B	L	F
H=1 1/2	14	23	25	17 3/8	6
	16	25	27	19 3/8	6
	18	27	29	21 3/8	6
	20	29	31	23 3/8	6
	24	33	35	27 3/8	6
	30	39	41	33 3/8	6
	36	45	47	39 3/8	6
	42	51	53	45 3/8	6
	48	57	59	51 3/8	6
H=4 1/2	14	23	25	17 3/8	8
	16	25	27	19 3/8	8
	18	27	29	21 3/8	8
	20	29	31	23 3/8	8
	24	33	35	27 3/8	8
	30	39	41	33 3/8	8
	36	45	47	39 3/8	8
	42	51	53	45 3/8	8
	48	57	59	51 3/8	8

CEMA B FLAT IDLERS-4 " & 5 "DIAMETER



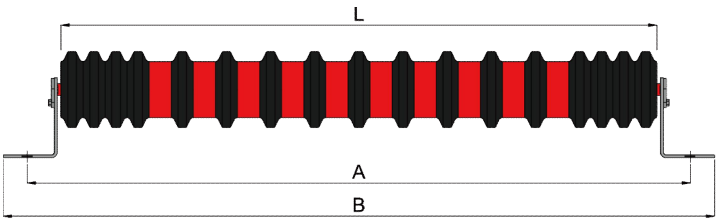
	4 "&5 "		
BW	A	B	L
14	23	25	17 3/8
16	25	27	19 3/8
18	27	29	21 3/8
20	29	31	23 3/8
24	33	35	27 3/8
30	39	41	33 3/8
36	45	47	39 3/8
42	51	53	45 3/8
48	57	59	51 3/8

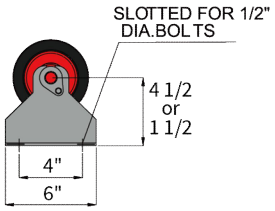
CEMA B RUBBER DISCS RETURN IDLERS 4 "&5 "DIAMETER



	4 "&5"				
	BW	A	B	L	F
H=1 1/2	14	23	25	16 5/8	6
	16	25	27	18 5/8	6
	18	27	29	20 5/8	6
	20	29	31	22 5/8	6
	24	33	35	26 5/8	6
	30	39	41	32 5/8	6
	36	45	47	38 5/8	6
	42	51	53	44 5/8	6
	48	57	59	50 5/8	6
H=4 1/2	14	23	25	16 5/8	8
	16	25	27	18 5/8	8
	18	27	29	20 5/8	8
	20	29	31	22 5/8	8
	24	33	35	26 5/8	8
	30	39	41	32 5/8	8
	36	45	47	38 5/8	8
	42	51	53	44 5/8	8
	48	57	59	50 5/8	8

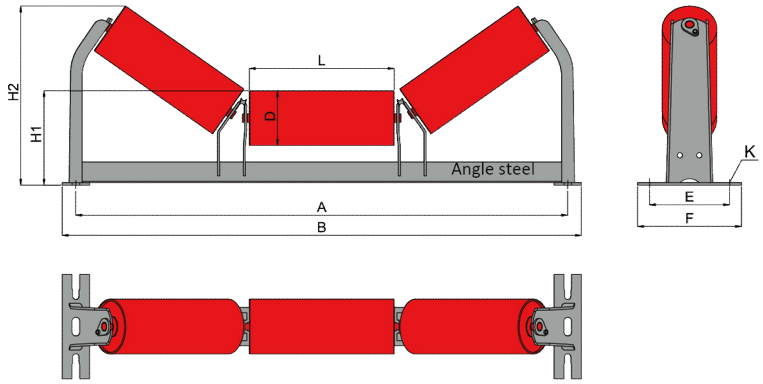
CAME B DISCS FLAT IDLERS 4 "&5 "DIAMETER





	4 "&5 "		
BW	A	B	L
14	23	25	15 7/8
16	25	27	17 7/8
18	27	29	19 7/8
20	29	31	21 7/8
24	33	35	25 7/8
30	39	41	31 7/8
36	45	47	37 7/8
42	51	53	43 7/8
48	57	59	49 7/8

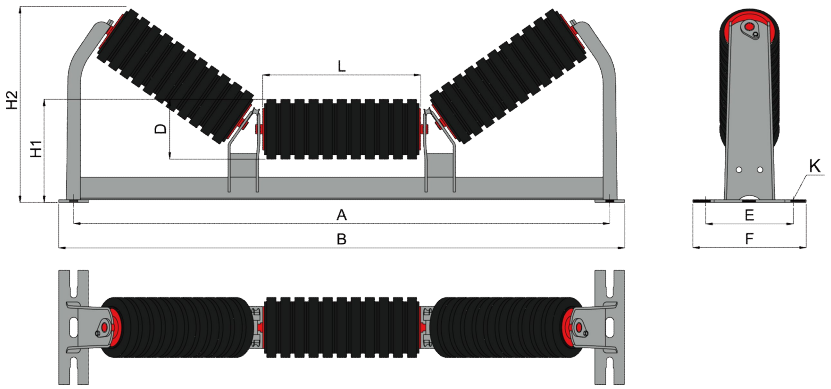
CEMA C EQUAL TROUGHING IDLERS



2.1.1 IN

								4 "		5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2	H1	H2
20°	18	27	29	6 3/4	6	8	1/2	8	10 7/16	8 1/2	10 15/16	9	11 3/8
	20	29	31	7 5/8	6	8	1/2	8	10 3/4	8 1/2	11 1/4	9	11 11/16
	24	33	35	8 15/16	6	8	1/2	8	11 3/16	8 1/2	11 11/16	9	12 1/8
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 1/8	12 1/8	8 5/8	12 9/16	9 1/8	13 1/16
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 1/8	12 13/16	8 5/8	13 5/16	9 1/8	13 3/4
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	8 1/2	13 15/16	9	14 7/16	9 1/2	14 7/8
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	8 1/2	14 11/16	9	15 3/16	9 1/2	15 5/8
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	8 1/2	15 7/16	9	15 7/8	9 1/2	16 3/8
	60	69	71 1/2	21 3/4	9	11	5/8	8 1/2	16 1/16	9	16 9/16	9 1/2	17
35°	18	27	29	6 3/4	6	8	1/2	8	12 1/8	8 1/2	12 9/16	9	13 1/16
	20	29	31	7 5/8	6	8	1/2	8	12 5/8	8 1/2	13 1/16	9	13 1/2
	24	33	35	8 15/16	6	8	1/2	8	13 3/8	8 1/2	13 13/16	9	14 1/4
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 1/8	14 3/4	8 5/8	15 3/16	9 1/8	15 11/16
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 1/8	15 15/16	8 5/8	16 3/8	9 1/8	16 13/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	8 1/2	17 5/8	9	18 1/16	9 1/2	18 7/16
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	8 1/2	18 7/8	9	19 5/16	9 1/2	19 11/16
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	8 1/2	20 1/8	9	20 1/2	9 1/2	20 15/16
	60	69	71 1/2	21 3/4	9	11	5/8	8 1/2	21 1/4	9	21 11/16	9 1/2	22 1/16
45°	18	27	29	6 3/4	6	8	1/2	8	13 3/16	8 1/2	13 1/2	9	13 7/8
	20	29	31	7 5/8	6	8	1/2	8	13 3/4	8 1/2	14 1/8	9	14 1/2
	24	33	35	8 15/16	6	8	1/2	8	14 11/16	8 1/2	15 1/16	9	15 3/8
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 1/8	16 3/8	8 5/8	16 3/4	9 1/8	17 1/16
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 1/8	17 7/8	8 5/8	18 3/16	9 1/8	18 9/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	8 1/2	19 13/16	9	20 1/8	9 1/2	20 1/2
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	8 1/2	21 3/8	9	21 11/16	9 1/2	22 1/16
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	8 1/2	22 7/8	9	23 3/16	9 1/2	23 9/16
	60	69	71 1/2	21 3/4	9	11	5/8	8 1/2	24 1/4	9	24 5/8	9 1/2	24 15/16

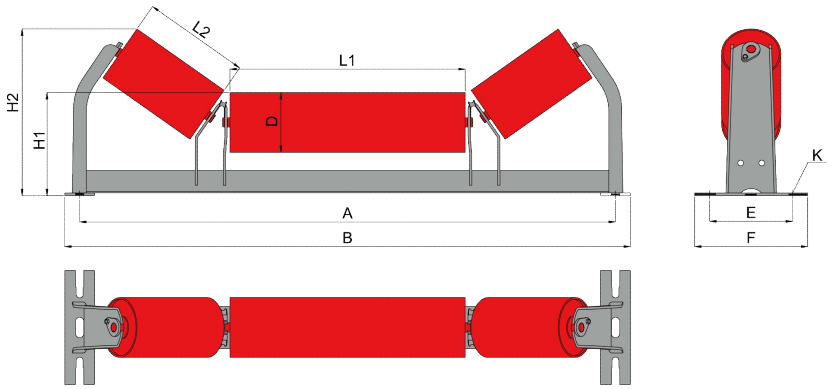
CEMA C EQUAL IMPACT TROUGHING IDLERS



2.2.1 IN

								4 "		5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2	H1	H2
20°	18	27	29	5 1/4	6	8	1/2	8	10 3/16	8 1/2	10 11/16	9	11 1/8
	20	29	31	6 1/8	6	8	1/2	8	10 1/2	8 1/2	11	9	11 7/16
	24	33	35	7 7/16	6	8	1/2	8	10 15/16	8 1/2	11 7/16	9	11 7/8
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 1/8	11 7/8	8 5/8	12 5/16	9 1/8	12 3/4
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 1/8	12 9/16	8 5/8	13 1/16	9 1/8	13 1/2
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	8 1/2	13 11/16	9	14 3/16	9 1/2	14 5/8
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	8 1/2	14 7/16	9	14 15/16	9 1/2	15 3/8
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	8 1/2	15 3/16	9	15 5/8	9 1/2	16 1/8
	60	69	71 1/2	20 1/4	9	11	5/8	8 1/2	15 13/16	9	16 5/16	9 1/2	16 3/4
35°	18	27	29	5 1/4	6	8	1/2	8	11 11/16	8 1/2	12 1/8	9	12 5/8
	20	29	31	6 1/8	6	8	1/2	8	12 3/16	8 1/2	12 5/8	9	13 1/16
	24	33	35	7 7/16	6	8	1/2	8	12 15/16	8 1/2	13 3/8	9	13 13/16
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 1/8	14 5/16	8 5/8	14 3/4	9 1/8	15 1/4
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 1/8	15 1/2	8 5/8	15 15/16	9 1/8	16 3/8
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	8 1/2	17 3/16	9	17 5/8	9 1/2	18
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	8 1/2	18 7/16	9	18 7/8	9 1/2	19 1/4
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	8 1/2	19 11/16	9	20 1/16	9 1/2	20 1/2
	60	69	71 1/2	20 1/4	9	11	5/8	8 1/2	20 13/16	9	21 1/4	9 1/2	21 5/8
45°	18	27	29	5 1/4	6	8	1/2	8	12 11/16	8 1/2	13	9	13 3/8
	20	29	31	6 1/8	6	8	1/2	8	13 1/4	8 1/2	13 5/8	9	14
	24	33	35	7 7/16	6	8	1/2	8	14 3/16	8 1/2	14 9/16	9	14 7/8
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 1/8	15 7/8	8 5/8	16 1/4	9 1/8	16 5/8
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 1/8	17 3/8	8 5/8	17 11/16	9 1/8	18 1/16
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	8 1/2	19 5/16	9	19 5/8	9 1/2	20
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	8 1/2	20 7/8	9	21 3/16	9 1/2	21 9/16
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	8 1/2	22 3/8	9	22 11/16	9 1/2	23 1/16
	60	69	71 1/2	20 1/4	9	11	5/8	8 1/2	23 3/4	9	24 1/8	9 1/2	24 7/16

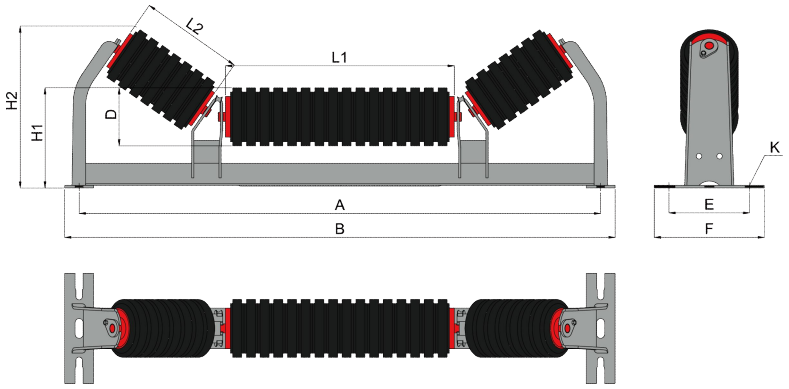
CEMA C UNEQUAL TROUGHING IDLERS



2.3.1 IN

									4 "		5 "		6 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2	H1	H2
20°	24	33	35 1/2	15 7/16	5 7/16	6	8	1/2	8 1/8	10 1/8	8 5/8	10 5/8	9 1/8	11 1/16
	30	39	41 1/2	21 3/8	5 7/16	6	9 1/2	1/2	8 1/8	10 1/8	8 5/8	10 5/8	9 1/8	11 1/16
	36	45	47 1/2	27 3/8	5 7/16	6	9 1/2	1/2	8 1/8	10 1/8	8 5/8	10 5/8	9 1/8	11 1/16
	42	51	53 1/2	33 3/8	5 7/16	7 1/2	9 1/2	5/8	8 1/2	10 9/16	9	11	9 1/2	11 7/16
	48	57	59 1/2	39 3/8	5 7/16	7 1/2	9 1/2	5/8	8 1/2	10 9/16	9	11	9 1/2	11 7/16
	54	63	65 1/2	45 3/8	5 7/16	9	10 15/16	5/8	8 1/2	10 9/16	9	11	9 1/2	11 7/16
	60	69	71 1/2	51 3/8	5 7/16	9	11	5/8	8 1/2	10 9/16	9	11	9 1/2	11 7/16
35°	24	33	35 1/2	13 1/4	6 3/4	6	8	1/2	8 1/8	12 3/8	8 5/8	12 3/4	9 1/8	13 3/16
	30	39	41 1/2	15 7/16	8 15/16	6	9 1/2	1/2	8 1/8	13 5/8	8 5/8	14	9 1/8	14 3/8
	36	45	47 1/2	19 3/4	8 15/16	6	9 1/2	1/2	8 1/8	13 1/2	8 5/8	13 15/16	9 1/8	14 5/16
	42	51	53 1/2	21 3/8	11 1/8	7 1/2	9 1/2	5/8	8 1/2	15 3/16	9	15 9/16	9 1/2	15 15/16
	48	57	59 1/2	27 3/8	11 1/8	7 1/2	9 1/2	5/8	8 1/2	15 3/16	9	15 9/16	9 1/2	15 15/16
	54	63	65 1/2	33 3/8	11 1/8	9	10 15/16	5/8	8 1/2	15 3/16	9	15 9/16	9 1/2	15 15/16
	60	69	71 1/2	39 3/8	11 1/8	9	11	5/8	8 1/2	15 3/16	9	15 9/16	9 1/2	15 15/16

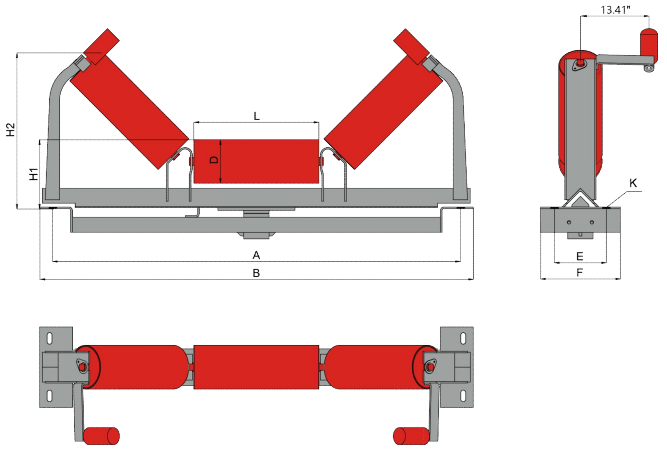
CEMA C UNEQUAL IMPACT TROUGHING IDLERS



2.4.1 IN

									5 "		6 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2
20°	24	33	35 1/2	13 15/16	3 15/16	6	8	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	30	39	41 1/2	19 7/8	3 15/16	6	9 1/2	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	36	45	47 1/2	25 7/8	3 15/16	6	9 1/2	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	42	51	53 1/2	31 7/8	3 15/16	7 1/2	9 1/2	5/8	9	10 3/4	9 1/2	11 3/16
	48	57	59 1/2	37 7/8	3 15/16	7 1/2	9 1/2	5/8	9	10 3/4	9 1/2	11 3/16
	54	63	65 1/2	43 7/8	3 15/16	9	10 15/16	5/8	9	10 3/4	9 1/2	11 3/16
	60	69	71 1/2	49 7/8	3 15/16	9	11	5/8	9	10 3/4	9 1/2	11 3/16
35°	24	33	35 1/2	11 3/4	5 1/4	6	8	1/2	8 5/8	12 5/16	9 1/8	12 3/4
	30	39	41 1/2	13 15/16	7 7/16	6	9 1/2	1/2	8 5/8	13 9/16	9 1/8	13 15/16
	36	45	47 1/2	18 1/4	7 7/16	6	9 1/2	1/2	8 5/8	13 1/2	9 1/8	13 7/8
	42	51	53 1/2	19 7/8	9 5/8	7 1/2	9 1/2	5/8	9	15 1/8	9 1/2	15 1/2
	48	57	59 1/2	25 7/8	9 5/8	7 1/2	9 1/2	5/8	9	15 1/8	9 1/2	15 1/2
	54	63	65 1/2	31 7/8	9 5/8	9	10 15/16	5/8	9	15 1/8	9 1/2	15 1/2
	60	69	71 1/2	38 7/8	9 5/8	9	11	5/8	9	15 1/8	9 1/2	15 1/2

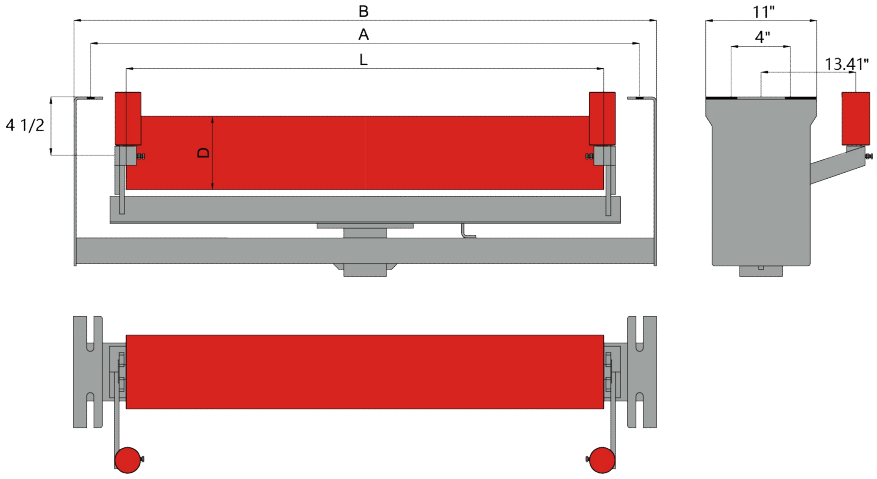
CEMA C SELF-ALIGNER TROUGHING IDLERS



2.5.1 IN

								4 "		5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2	H1	H2
20°	18	27	29	6 3/4	6	11	5/8	8 1/2	10 15/16	9	11 7/16	9 1/2	11 7/8
	20	29	31	7 5/8	6	11	5/8	8 1/2	11 1/4	9	11 3/4	9 1/2	12 3/16
	24	33	35	8 15/16	6	11	5/8	8 1/2	11 11/16	9	12 3/16	9 1/2	12 5/8
	30	39	41	11 1/8	6	11	5/8	8 1/2	12 1/2	9	12 15/16	9 1/2	13 7/16
	36	45	47	13 1/4	6	11	5/8	8 1/2	13 3/16	9	13 11/16	9 1/2	14 1/8
	42	51	53	15 7/16	6	11	5/8	9	14 7/16	9 1/2	14 15/16	10	15 3/8
	48	57	59	17 5/8	6	11	5/8	9	15 3/16	9 1/2	15 11/16	10	16 1/8
	54	63	65	19 3/4	6	11	5/8	9	15 15/16	9 1/2	16 3/8	10	16 7/8
	60	69	71	21 3/4	6	11	5/8	9	16 9/16	9 1/2	17 1/16	10	17 1/2
35°	18	27	29	6 3/4	6	11	5/8	8 1/2	12 5/8	9	13 1/16	9 1/2	13 9/16
	20	29	31	7 5/8	6	11	5/8	8 1/2	13 1/8	9	13 9/16	9 1/2	14
	24	33	35	8 15/16	6	11	5/8	8 1/2	13 7/8	9	14 5/16	9 1/2	14 3/4
	30	39	41	11 1/8	6	11	5/8	8 1/2	15 1/8	9	15 9/16	9 1/2	16 1/16
	36	45	47	13 1/4	6	11	5/8	8 1/2	16 5/16	9	16 3/4	9 1/2	17 3/16
	42	51	53	15 7/16	6	11	5/8	9	18 1/8	9 1/2	18 9/16	10	18 15/16
	48	57	59	17 5/8	6	11	5/8	9	19 3/8	9 1/2	19 13/16	10	20 3/16
	54	63	65	19 3/4	6	11	5/8	9	20 5/8	9 1/2	21	10	21 7/16
	60	69	71	21 3/4	6	11	5/8	9	21 3/4	9 1/2	22 3/16	10	22 9/16
45°	18	27	29	6 3/4	6	11	5/8	8 1/2	13 11/16	9	13 7/8	9 1/2	14 3/8
	20	29	31	7 5/8	6	11	5/8	8 1/2	14 1/4	9	14 1/2	9 1/2	15
	24	33	35	8 15/16	6	11	5/8	8 1/2	15 3/16	9	15 3/8	9 1/2	15 7/8
	30	39	41	11 1/8	6	11	5/8	8 1/2	16 3/4	9	16 15/16	9 1/2	17 1/2
	36	45	47	13 1/4	6	11	5/8	8 1/2	18 1/4	9	18 7/16	9 1/2	18 15/16
	42	51	53	15 7/16	6	11	5/8	9	20 5/16	9 1/2	20 7/16	10	21
	48	57	59	17 5/8	6	11	5/8	9	21 7/8	9 1/2	22	10	22 9/16
	54	63	65	19 3/4	6	11	5/8	9	23 3/8	9 1/2	23 11/16	10	24 1/16
	60	69	71	21 3/4	6	11	5/8	9	24 3/4	9 1/2	25 1/8	10	25 7/16

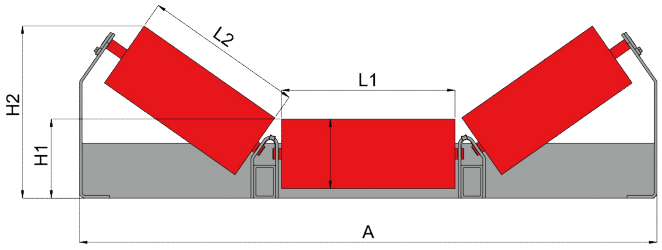
CEMA C SELF-ALIGNING RETURN IDLERS

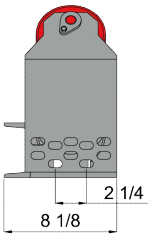


2.6.1 IN

	4 "			5 "			6 "		
BW	A	B	L	A	B	L	A	B	L
18	27	29	21 3/8	27	29	21 3/8	27	29	21 3/8
20	29	31	23 3/8	29	31	23 3/8	29	31	23 3/8
24	33	35	27 3/8	33	35	27 3/8	33	35	27 3/8
30	39	41	33 3/8	39	41	33 3/8	39	41	33 3/8
36	45	47	39 3/8	45	47	39 3/8	45	47	39 3/8
42	51	53	45 3/8	51	53	45 3/8	51	53	45 3/8
48	57	59	51 3/8	57	59	51 3/8	57	59	51 3/8
54	63	65	57 3/8	63	65	57 3/8	63	65	57 3/8
60	69	71	63 3/8	69	71	63 3/8	69	71	63 3/8

CEMA C LOW PROFILE CHANNEL TROUGHING IDLERS

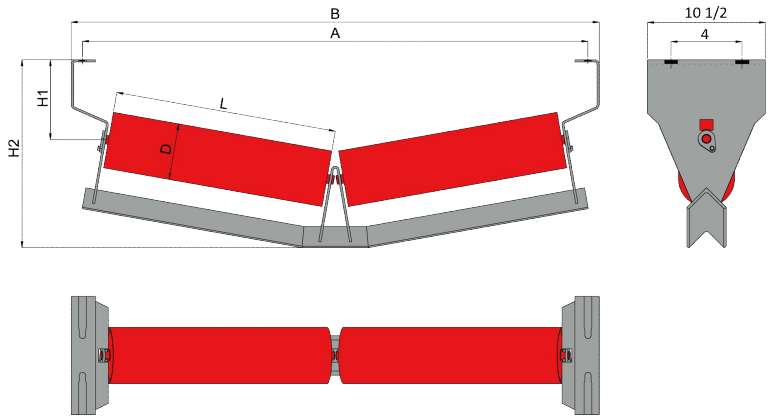




2.7.1 IN

					4 "		5 "	
	BW	A	L1	L2	H1	H2	H1	H2
20°	18	23 5/8	6 1/2	5 1/2	4 3/16	6 3/16	4 11/16	6 5/8
	20	25 5/8	7 1/8	6 1/8	4 3/16	6 3/8	4 11/16	6 7/8
	24	29 5/8	8 1/2	7 1/2	4 3/16	6 7/8	4 11/16	7 5/16
	30	35 5/8	10 1/2	9 1/2	4 3/16	7 9/16	4 11/16	8
	36	41 5/8	12 1/2	11 1/2	4 3/16	8 3/16	4 11/16	8 11/16
	42	47 5/8	18 1/2	11 1/2	4 3/16	8 3/16	4 11/16	8 11/16
	48	53 5/8	24 1/2	11 1/2	4 3/16	8 3/16	4 11/16	8 11/16
	54	59 5/8	30 1/2	11 1/2	4 3/16	8 3/16	4 11/16	8 11/16
	60	65 5/8	36 1/2	11 1/2	4 3/16	8 3/16	4 11/16	8 11/16
35°	18	23 5/8	6 1/2	5 1/2	4 3/16	7 9/16	4 11/16	7 15/16
	20	25 5/8	7 1/8	6 1/8	4 3/16	7 7/8	4 11/16	8 5/16
	24	29 5/8	8 1/2	7 1/2	4 3/16	8 11/16	4 11/16	9 1/16
	30	35 5/8	10 1/2	9 1/2	4 3/16	9 13/16	4 11/16	10 1/4
	36	41 5/8	12 1/2	11 1/2	4 3/16	11	4 11/16	11 3/8
	42	47 5/8	18 1/2	11 1/2	4 3/16	11	4 11/16	11 3/8
	48	53 5/8	24 1/2	11 1/2	4 3/16	11	4 11/16	11 3/8
	54	59 5/8	30 1/2	11 1/2	4 3/16	11	4 11/16	11 3/8
	60	65 5/8	36 1/2	11 1/2	4 3/16	11	4 11/16	11 3/8

CEMA C V-RETURN IDLERS



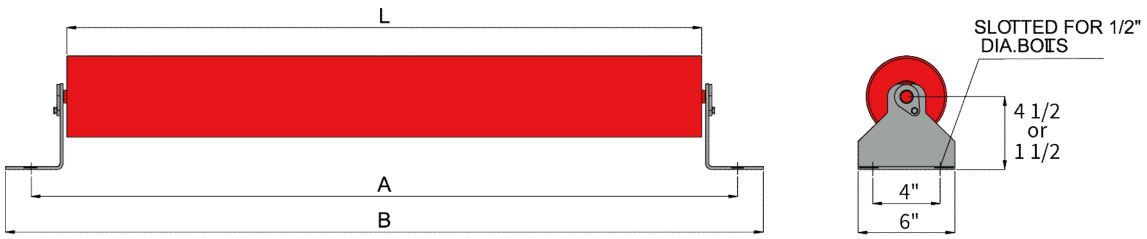
2.8.1 IN

					5 "	6 "
	BW	A	B	L	H2	H2
H1=4 1/2	24	33	35	13 5/8	13 1/8	13 1/8
	30	39	41	16 11/16	13 5/8	13 5/8
	36	45	47	19 3/4	14 3/16	14 3/16
	42	51	53	22 13/16	14 11/16	14 11/16
	48	57	59	25 7/8	15 1/4	15 1/4
	54	63	65	28 7/8	15 3/4	15 3/4
	60	69	71	31 15/16	16 1/4	16 1/4
H1=7	24	33	35	13 5/8	15 5/8	15 5/8
	30	39	41	16 11/16	16 1/8	16 1/8
	36	45	47	19 3/4	16 11/16	16 11/16
	42	51	53	22 13/16	17 3/16	17 3/16
	48	57	59	25 7/8	17 3/4	17 3/4
	54	63	65	28 7/8	18 1/4	18 1/4
	60	69	71	31 15/16	18 3/4	18 3/4

CEMA C RETURN IDLERS-4 "&5 "&6 "DIAMETER

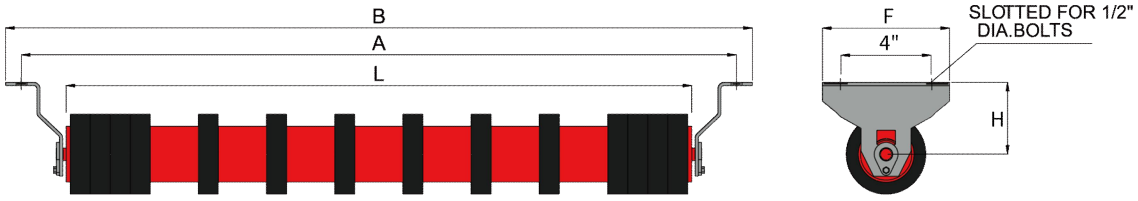
	4 "&5"&6"				
	BW	A	B	L	F
H=1 1/2	18	27	29	21 3/8	6
	20	29	31	23 3/8	6
	24	33	35	27 3/8	6
	30	39	41	33 3/8	6
	36	45	47	39 3/8	6
	42	51	53	45 3/8	6
	48	57	59	51 3/8	6
	54	63	65	57 3/8	6
	60	69	71	63 3/8	6
H=4 1/2	18	27	29	21 3/8	8
	20	29	31	23 3/8	8
	24	33	35	27 3/8	8
	30	39	41	33 3/8	8
	36	45	47	39 3/8	8
	42	51	53	45 3/8	8
	48	57	59	51 3/8	8
	54	63	65	57 3/8	8
	60	69	71	63 3/8	8

CEMA C FLAT IDLERS-4 "&5 "&6 "DIAMETER



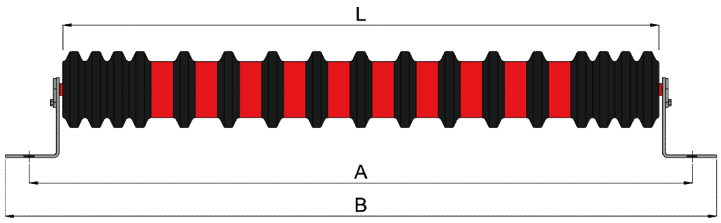
	4 " & 5 "& 6"		
BW	A	B	L
18	27	29	21 3/8
20	29	31	23 3/8
24	33	35	27 3/8
30	39	41	33 3/8
36	45	47	39 3/8
42	51	53	45 3/8
48	57	59	51 3/8
54	63	65	57 3/8
60	69	71	63 3/8

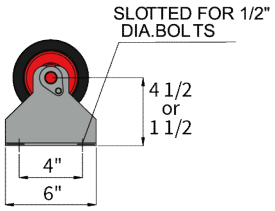
CEMA C RUBBER DISCS RETURN IDLERS 4 "&5 "&6 "DIAMETER



	4 "&5"&6"				
	BW	A	B	L	H
H=1 1/2	18	27	29	20 7/8	6
	20	29	31	22 7/8	6
	24	33	35	26 7/8	6
	30	39	41	32 7/8	6
	36	45	47	38 7/8	6
	42	51	53	44 7/8	6
	48	57	59	50 7/8	6
	54	63	65	56 7/8	6
	60	69	71	62 7/8	6
H=4 1/2	18	27	29	20 7/8	8
	20	29	31	22 7/8	8
	24	33	35	26 7/8	8
	30	39	41	32 7/8	8
	36	45	47	38 7/8	8
	42	51	53	44 7/8	8
	48	57	59	50 7/8	8
	54	63	65	56 7/8	8
	60	69	71	62 7/8	8

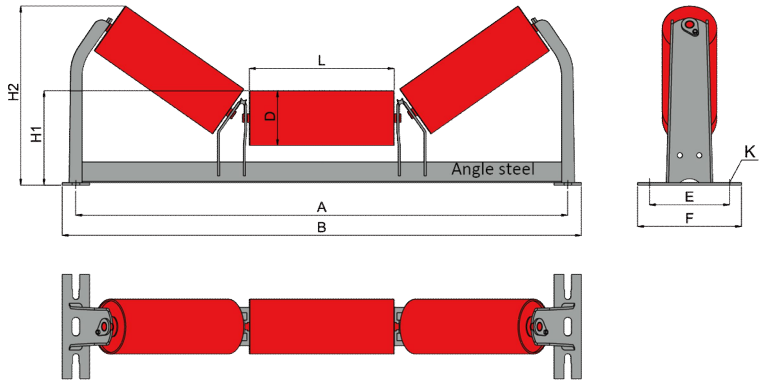
CEMA C RUBBER DISCS FLAT IDLERS 4 "&5 "DIAMETER





	4 "&5"		
BW	A	B	L
18	27	29	19 7/8
20	29	31	21 7/8
24	33	35	25 7/8
30	39	41	31 7/8
36	45	47	37 7/8
42	51	53	43 7/8
48	57	59	49 7/8
54	63	65	55 7/8
60	69	71	61 7/8

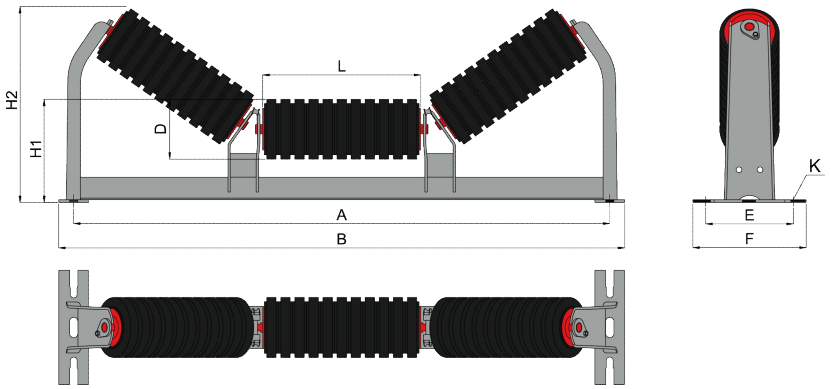
CEMA D EQUAL TROUGHING IDLERS



3.1.1 IN

								5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	24	33	35	8 15/16	6	8	1/2	8 1/2	11 11/16	9	12 1/8
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 5/8	12 9/16	9 1/8	13 1/16
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 5/8	13 5/16	9 1/8	13 3/4
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	9	14 7/16	9 1/2	14 7/8
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	9	15 3/16	9 1/2	15 5/8
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	9 1/2	16 1/4	10	16 3/4
	60	69	71 1/2	21 3/4	9	10 15/16	5/8	9 1/2	16 7/8	10	17 3/8
	72	81	83 1/2	26	9	11	5/8	9 1/2	18 3/8	10	18 7/8
35°	24	33	35	8 15/16	6	8	1/2	8 1/2	13 13/16	9	14 1/4
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 5/8	15 3/16	9 1/8	15 11/16
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 5/8	16 3/8	9 1/8	16 13/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	9	18 1/16	9 1/2	18 7/16
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	9	19 5/16	9 1/2	19 11/16
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	9 1/2	20 7/8	10	21 5/16
	60	69	71 1/2	21 3/4	9	10 15/16	5/8	9 1/2	22 1/16	10	22 7/16
	72	81	83 1/2	26	9	11	5/8	9 1/2	24 7/16	10	24 7/8
45°	24	33	35	8 15/16	6	8	1/2	8 1/2	15 1/16	9	15 3/8
	30	39	41 1/2	11 1/8	6	9 1/2	1/2	8 5/8	16 3/4	9 1/8	17 1/8
	36	45	47 1/2	13 1/4	6	9 1/2	1/2	8 5/8	18 3/16	9 1/8	18 9/16
	42	51	53 1/2	15 7/16	7 1/2	9 1/2	5/8	9	20 3/16	9 1/2	20 1/2
	48	57	59 1/2	17 5/8	7 1/2	9 1/2	5/8	9	21 11/16	9 1/2	22 1/16
	54	63	65 1/2	19 3/4	9	10 15/16	5/8	9 1/2	23 9/16	10	23 15/16
	60	69	71 1/2	21 3/4	9	10 15/16	5/8	9 1/2	25	10	25 5/16
	72	81	83 1/2	26	9	11	5/8	9 1/2	28	10	28 5/16

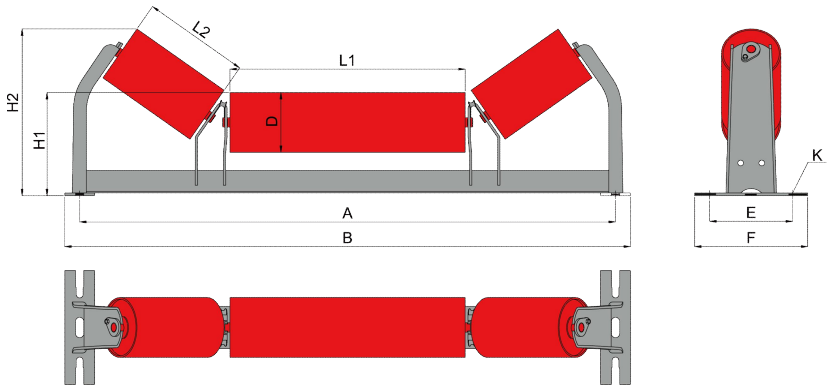
CEMA D EQUAL IMPACT TROUGHING IDLERS



3.2.1 IN

								5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	24	33	35	7 7/16	6	8	1/2	8 1/2	11 7/16	9	11 7/8
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 5/8	12 5/16	9 1/8	12 13/16
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 5/8	13 1/16	9 1/8	13 1/2
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	9	14 3/16	9 1/2	14 5/8
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	9	14 15/16	9 1/2	15 3/8
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	9 1/2	16	10	16 1/2
	60	69	71 1/2	20 1/4	9	10 15/16	5/8	9 1/2	16 5/8	10	17 1/8
	72	81	83 1/2	24 1/4	9	11	5/8	9 1/2	18 1/8	10	18 5/8
35°	24	33	35	7 7/16	6	8	1/2	8 1/2	13 3/8	9	13 13/16
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 5/8	14 3/4	9 1/8	15 1/8
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 5/8	15 15/16	9 1/8	16 3/8
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	9	17 5/8	9 1/2	18
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	9	18 7/8	9 1/2	19 1/4
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	9 1/2	20 7/16	10	20 7/8
	60	69	71 1/2	20 1/4	9	10 15/16	5/8	9 1/2	21 5/8	10	22
	72	81	83 1/2	24 1/4	9	11	5/8	9 1/2	24	10	24 7/16
45°	24	33	35	7 7/16	6	8	1/2	8 1/2	14 9/16	9	14 7/8
	30	39	41 1/2	9 5/8	6	9 1/2	1/2	8 5/8	16 1/4	9 1/8	16 9/16
	36	45	47 1/2	11 3/4	6	9 1/2	1/2	8 5/8	17 11/16	9 1/8	18 1/16
	42	51	53 1/2	13 15/16	7 1/2	9 1/2	5/8	9	19 11/16	9 1/2	20
	48	57	59 1/2	16 1/8	7 1/2	9 1/2	5/8	9	21 3/16	9 1/2	21 9/16
	54	63	65 1/2	18 1/4	9	10 15/16	5/8	9 1/2	23 1/16	10	23 7/16
	60	69	71 1/2	20 1/4	9	10 15/16	5/8	9 1/2	24 1/2	10	24 13/16
	72	81	83 1/2	24 1/4	9	11	5/8	9 1/2	27 1/2	10	27 13/16

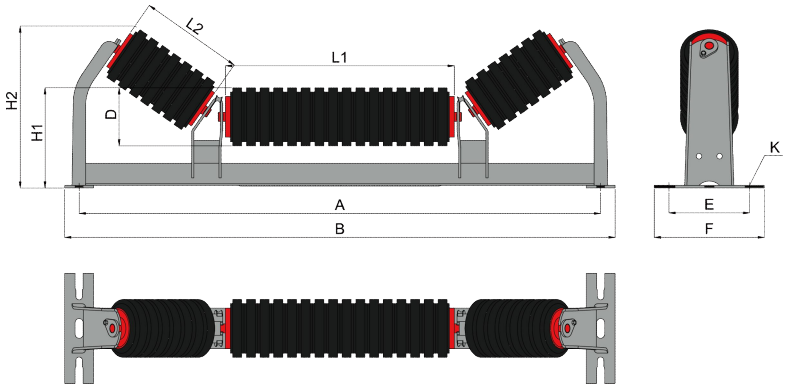
CEMA D UNEQUAL TROUGHING IDLERS



3.3.1 IN

									5 "		6 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2
20°	24	33	35 1/2	15 7/16	5 7/16	6	8	1/2	8 5/8	10 5/8	9 1/8	11 1/16
	30	39	41 1/2	21 3/8	5 7/16	6	9 1/2	1/2	8 5/8	10 5/8	9 1/8	11 1/16
	36	45	47 1/2	27 3/8	5 7/16	6	9 1/2	1/2	8 5/8	10 5/8	9 1/8	11 1/16
	42	51	53 1/2	33 3/8	5 7/16	7 1/2	9 1/2	5/8	9	11	9 1/2	11 7/16
	48	57	59 1/2	39 3/8	5 7/16	7 1/2	9 1/2	5/8	9	11	9 1/2	11 7/16
	54	63	65 1/2	45 3/8	5 7/16	9	10 15/16	5/8	9 1/2	11 3/8	10	11 13/16
	60	69	71 1/2	51 3/8	5 7/16	9	10 15/16	5/8	9 1/2	11 3/8	10	11 13/16
	72	81	83 1/2	63 3/8	5 7/16	9	10 15/16	5/8	9 1/2	11 3/8	10	11 13/16
35°	24	33	35 1/2	13 1/4	6 3/4	6	8	1/2	8 5/8	12 3/4	9 1/8	12 3/16
	30	39	41 1/2	15 7/16	8 15/16	6	9 1/2	1/2	8 5/8	13 15/16	9 1/8	14 5/16
	36	45	47 1/2	19 3/4	8 15/16	6	9 1/2	1/2	8 5/8	13 15/16	9 1/8	14 5/16
	42	51	53 1/2	21 3/8	11 1/8	7 1/2	9 1/2	5/8	9	15 9/16	9 1/2	15 15/16
	48	57	59 1/2	27 3/8	11 1/8	7 1/2	9 1/2	5/8	9	15 9/16	9 1/2	15 15/16
	54	63	65 1/2	33 3/8	11 1/8	9	10 15/16	5/8	9 1/2	15 15/16	10	16 5/16
	60	69	71 1/2	39 3/8	11 1/8	9	10 15/16	5/8	9 1/2	15 15/16	10	16 5/16
	72	81	83 1/2	51 3/8	11 1/8	9	10 15/16	5/8	9 1/2	15 15/16	10	16 5/16

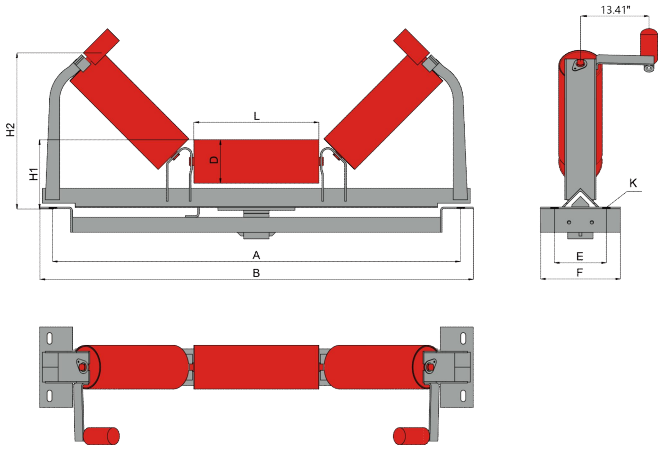
CEMA D UNEQUAL IMPACT TROUGHING IDLERS



3.4.1 IN

									5 "		6 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2
20°	24	33	35 1/2	13 15/16	3 15/16	6	8	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	30	39	41 1/2	19 7/8	3 15/16	6	9 1/2	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	36	45	47 1/2	25 7/8	3 15/16	6	9 1/2	1/2	8 5/8	10 3/8	9 1/8	10 13/16
	42	51	53 1/2	31 7/8	3 15/16	7 1/2	9 1/2	5/8	9	10 3/4	9 1/2	11 3/16
	48	57	59 1/2	37 7/8	3 15/16	7 1/2	9 1/2	5/8	9	10 3/4	9 1/2	11 3/16
	54	63	65 1/2	43 7/8	3 15/16	9	10 15/16	5/8	9 1/2	11 1/8	10	11 9/16
	60	69	71 1/2	49 7/8	3 15/16	9	10 15/16	5/8	9 1/2	11 1/8	10	11 9/16
	72	81	83 1/2	61 7/8	3 15/16	9	10 15/16	5/8	9 1/2	11 1/8	10	11 9/16
35°	24	33	35 1/2	11 3/4	5 1/4	6	8	1/2	8 5/8	12 5/16	9 1/8	11 3/4
	30	39	41 1/2	13 15/16	7 7/16	6	9 1/2	1/2	8 5/8	13 1/2	9 1/8	13 7/8
	36	45	47 1/2	18 1/4	7 7/16	6	9 1/2	1/2	8 5/8	13 1/2	9 1/8	13 7/8
	42	51	53 1/2	19 7/8	9 5/8	7 1/2	9 1/2	5/8	9	15 1/8	9 1/2	15 1/2
	48	57	59 1/2	25 7/8	9 5/8	7 1/2	9 1/2	5/8	9	15 1/8	9 1/2	15 1/2
	54	63	65 1/2	31 7/8	9 5/8	9	10 15/16	5/8	9 1/2	15 1/2	10	15 7/8
	60	69	71 1/2	37 7/8	9 5/8	9	10 15/16	5/8	9 1/2	15 1/2	10	15 7/8
	72	81	83 1/2	49 7/8	9 5/8	9	10 15/16	5/8	9 1/2	15 1/2	10	15 7/8

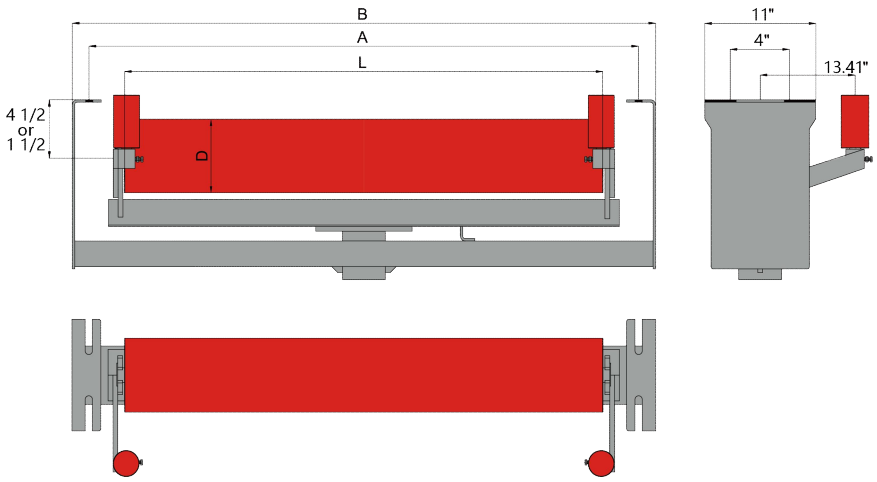
CEMA D SELF-ALIGNING TROUGHING IDLERS



3.5.1 IN

								5 "		6 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	24	33	35	8 15/16	6	11	5/8	9	12 3/16	9 1/2	12 5/8
	30	39	41	11 1/8	6	11	5/8	9	12 15/16	9 1/2	13 3/8
	36	45	47	13 1/4	6	11	5/8	9	13 11/16	9 1/2	14 1/8
	42	51	53	15 7/16	6	11	5/8	9 1/2	14 15/16	10	15 3/8
	48	57	59	17 5/8	6	11	5/8	9 1/2	15 11/16	10	16 1/8
	54	63	65	19 3/4	6	11	5/8	10	16 3/8	10 1/2	16 7/8
	60	69	71	21 3/4	6	11	5/8	10	17 1/16	10 1/2	17 1/2
	72	81	83	26	6	11	5/8	10	18 3/8	10 1/2	18 7/8
35°	24	33	35	8 15/16	6	11	5/8	9	14 5/16	9 1/2	14 3/4
	30	39	41	11 1/8	6	11	5/8	9	15 9/16	9 1/2	16 1/16
	36	45	47	13 1/4	6	11	5/8	9	16 3/4	9 1/2	17 3/16
	42	51	53	15 7/16	6	11	5/8	9 1/2	18 9/16	10	18 15/16
	48	57	59	17 5/8	6	11	5/8	9 1/2	19 13/16	10	20 3/16
	54	63	65	19 3/4	6	11	5/8	10	21	10 1/2	21 7/16
	60	69	71	21 3/4	6	11	5/8	10	22 3/16	10 1/2	22 9/16
	72	81	83	26	6	11	5/8	10	24 7/16	10 1/2	24 7/8
45°	24	33	35	8 15/16	6	11	5/8	9	15 3/8	9 1/2	15 7/8
	30	39	41	11 1/8	6	11	5/8	9	16 15/16	9 1/2	17 1/2
	36	45	47	13 1/4	6	11	5/8	9	18 7/16	9 1/2	18 15/16
	42	51	53	15 7/16	6	11	5/8	9 1/2	20 7/16	10	21
	48	57	59	17 5/8	6	11	5/8	9 1/2	22	10	22 9/16
	54	63	65	19 3/4	6	11	5/8	10	23 11/16	10 1/2	24 1/16
	60	69	71	21 3/4	6	11	5/8	10	25 1/8	10 1/2	25 7/16
	72	81	83	26	6	11	5/8	10	28	10 1/2	28 5/16

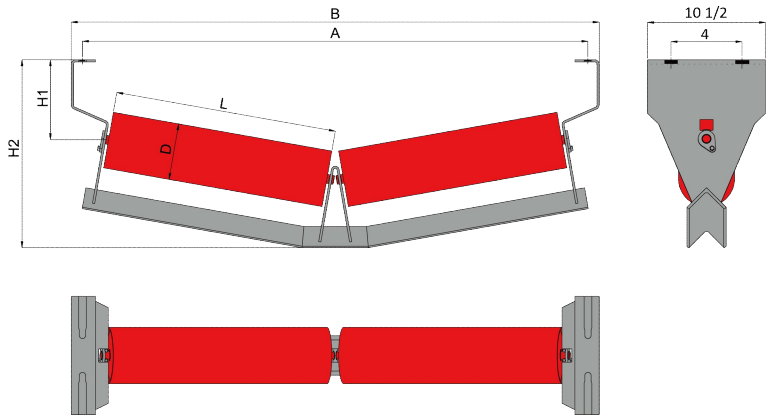
CEMA D SELF-ALIGNING RETURN IDLERS



3.6.1 IN

	5 "			6 "		
BW	A	B	L	A	B	L
24	33	35	27 3/8	33	35	27 3/8
30	39	41	33 3/8	39	41	33 3/8
36	45	47	39 3/8	45	47	39 3/8
42	51	53	45 3/8	51	53	45 3/8
48	57	59	51 3/8	57	59	51 3/8
54	63	65	57 3/8	63	65	57 3/8
60	69	71	63 3/8	69	71	63 3/8
72	81	83	75 3/8	81	83	75 3/8

CEMA D V-RETURN IDLERS



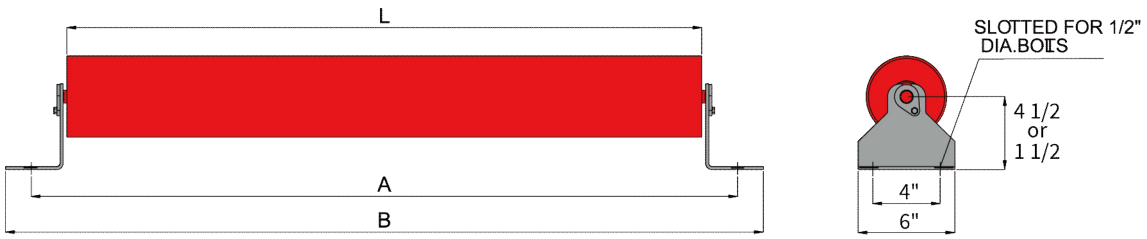
3.7.1 IN

					5 "	6 "
	BW	A	B	L	H2	H2
H1=4 1/2	24	33	35	13 5/8	12 9/16	12 9/16
	30	39	41	16 11/16	13 1/16	13 1/16
	36	45	47	19 3/4	13 5/8	13 5/8
	42	51	53	22 13/16	14 1/8	14 1/8
	48	57	59	25 7/8	14 11/16	14 11/16
	54	63	65	28 7/8	15 5/8	15 5/8
	60	69	71	31 15/16	16	16
	66	75	77	35	16 1/2	16 1/2
	72	81	83	38	17 3/16	17 3/16
H1=7	24	33	35	13 5/8	17 3/16	17 3/16
	30	39	41	16 11/16	17 13/16	17 13/16
	36	45	47	19 3/4	16 1/8	16 1/8
	42	51	53	22 13/16	16 5/8	16 5/8
	48	57	59	25 7/8	17 3/16	17 3/16
	54	63	65	28 7/8	17 3/4	17 3/4
	60	69	71	31 15/16	18 5/16	18 5/16
	66	75	77	35	19	19
	72	81	83	38	19 11/16	19 11/16

CEMA D RETURN IDLERS-5 "&6 "DIAMETER

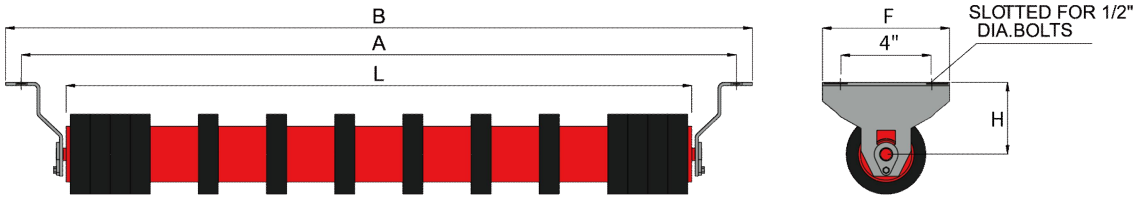
	5"&6"				
	BW	A	B	L	F
H=1 1/2	24	33	35	27 3/8	6
	30	39	41	33 3/8	6
	36	45	47	39 3/8	6
	42	51	53	45 3/8	6
	48	57	59	51 3/8	6
	54	63	65	57 3/8	6
	60	69	71	63 3/8	6
	72	81	83	75 3/8	6
H=4 1/2	24	33	35	27 3/8	9
	30	39	41	33 3/8	9
	36	45	57	39 3/8	9
	42	51	53	45 3/8	9
	48	57	59	51 3/8	9
	54	63	65	57 3/8	9
	60	69	71	63 3/8	9
	72	81	83	75 3/8	9

CEMA D FLAT IDLERS-5 "&6 "DIAMETER



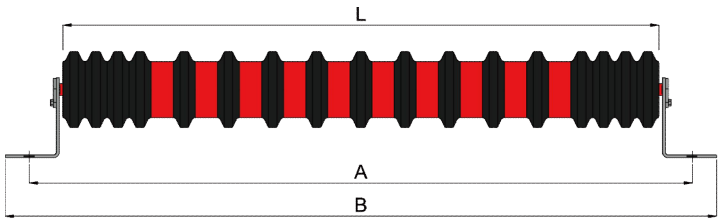
	5 "& 6"		
BW	A	B	L
24	33	35	27 3/8
30	39	41	33 3/8
36	45	47	39 3/8
42	51	53	45 3/8
48	57	59	51 3//8
54	63	65	57 3/8
60	69	71	63 3/8
72	81	83	75 3/8

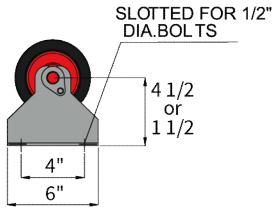
CEMA D RUBBER DISCS RETURN IDLERS 5 "&6 "DIAMETER



	5 "&6"				
	BW	A	B	L	F
H=1 1/2	24	33	35	26 7/8	6
	30	39	41	32 7/8	6
	36	45	57	38 7/8	6
	42	51	53	44 7/8	6
	48	57	59	50 7/8	6
	54	63	65	56 7/8	6
	60	69	71	62 7/8	6
	72	81	83	74 7/8	6
H=4 1/2	24	33	35	26 7/8	9
	30	39	41	32 7/8	9
	36	45	57	38 7/8	9
	42	51	53	44 7/8	9
	48	57	59	50 7/8	9
	54	63	65	56 7/8	9
	60	69	71	62 7/8	9
	72	81	83	74 7/8	9

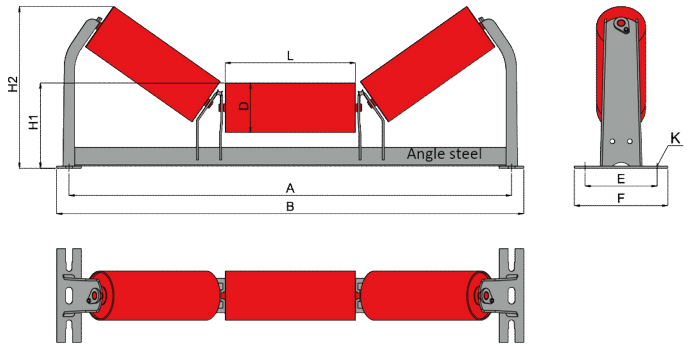
CEMA D RUBBER DISCS FLAT IDLERS 5 "&6 "DIAMETER





	5 "&6"		
BW	A	B	L
24	33	35	25 7/8
30	39	41	31 7/8
36	45	47	37 7/8
42	51	53	43 7/8
48	57	59	49 7/8
54	63	65	55 7/8
60	69	71	61 7/8
72	81	83	73 7/8

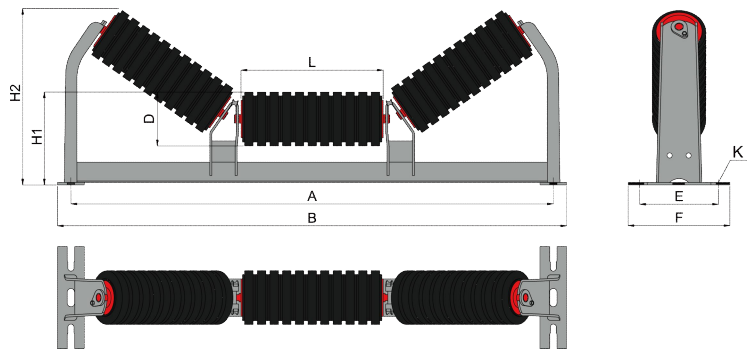
CEMA E EQUAL TROUGHING IDLERS



4.1.1 IN

								6 "		7 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	36	45	49	13	7 1/2	12	1/2	10 3/4	15 3/8	11 1/4	15 7/8
	42	51	54 3/4	15	7 1/2	12	5/8	10 3/4	16 1/16	11 1/4	16 9/16
	48	57	62 5/8	17 3/4	7 1/2	12	5/8	10 3/4	17	11 1/4	17 1/2
	54	63	68 3/8	19 3/4	7 1/2	12	5/8	10 3/4	17 11/16	11 1/4	18 3/16
	60	69	74 1/4	21 3/4	7 1/2	12	5/8	10 3/4	18 3/8	11 1/4	18 7/8
	66	75	79 7/8	23 3/4	8 1/2	12	5/8	11 1/2	19 13/16	12	20 1/4
	72	81	85 7/8	25 3/4	8 1/2	12	5/8	11 1/2	20 1/2	12	20 15/16
	78	87	91 3/8	27 3/4	8 1/2	12	5/8	11 1/2	21 1/4	12	21 11/16
	84	93	97 1/4	29 3/4	9	14 1/2	3/4	11 5/8	21 15/16	12 1/8	22 7/16
	90	99	102 7/8	31 3/4	9	14 1/2	3/4	11 5/8	22 5/8	12 1/8	23 1/8
	96	105	108 3/4	33 3/4	9	14 1/2	3/4	11 5/8	23 5/16	12 1/8	23 13/16
35°	36	45	49	13	7 1/2	12	1/2	10 3/4	18 5/16	11 1/4	18 3/4
	42	51	54 3/4	15	7 1/2	12	5/8	10 3/4	19 1/2	11 1/4	19 7/8
	48	57	62 5/8	17 3/4	7 1/2	12	5/8	10 3/4	21 1/16	11 1/4	21 1/2
	54	63	68 3/8	19 3/4	7 1/2	12	5/8	10 3/4	22 1/4	11 1/4	22 5/8
	60	69	74 1/4	21 3/4	7 1/2	12	5/8	10 3/4	23 3/8	11 1/4	23 3/4
	66	75	79 7/8	23 3/4	8 1/2	12	5/8	11 1/2	25 1/4	12	25 11/16
	72	81	85 7/8	25 3/4	8 1/2	12	5/8	11 1/2	26 7/16	12	26 13/16
	78	87	91 3/8	27 3/4	8 1/2	12	5/8	11 1/2	27 3/4	12	28
	84	93	97 1/4	29 3/4	9	14 1/2	3/4	11 5/8	28 13/16	12 1/8	29 3/16
	90	99	102 7/8	31 3/4	9	14 1/2	3/4	11 5/8	30	12 1/8	30 3/8
	96	105	108 3/4	33 3/4	9	14 1/2	3/4	11 5/8	31 1/8	12 1/8	31 1/2
45°	36	45	49	13	7 1/2	12	1/2	10 3/4	20 1/8	11 1/4	20 1/2
	42	51	54 3/4	15	7 1/2	12	5/8	10 3/4	21 9/16	11 1/4	21 7/8
	48	57	62 5/8	17 3/4	7 1/2	12	5/8	10 3/4	23 1/2	11 1/4	23 7/8
	54	63	68 3/8	19 3/4	7 1/2	12	5/8	10 3/4	24 15/16	11 1/4	25 1/4
	60	69	74 1/4	21 3/4	7 1/2	12	5/8	10 3/4	26 5/16	11 1/4	26 11/16
	66	75	79 7/8	23 3/4	8 1/2	12	5/8	11 1/2	28 1/2	12	28 13/16
	72	81	85 7/8	25 3/4	8 1/2	12	5/8	11 1/2	29 7/8	12	30 1/4
	78	87	91 3/8	27 3/4	8 1/2	12	5/8	11 1/2	31 3/8	12	31 3/4
	84	93	97 1/4	29 3/4	9	14 1/2	3/4	11 5/8	32 13/16	12 1/8	33 3/16
	90	99	102 7/8	31 3/4	9	14 1/2	3/4	11 5/8	34 1/4	12 1/8	34 5/8
	96	105	108 3/4	33 3/4	9	14 1/2	3/4	11 5/8	35 11/16	12 1/8	36

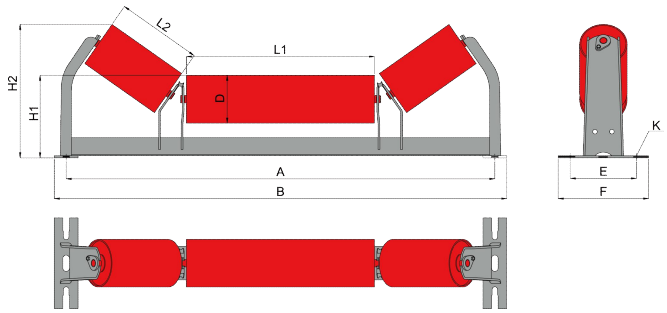
CEMA E EQUAL IMPACT TROUGHING IDLERS



4.2.1 IN

								6 "		7 "	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	36	45	49	13	9 1/2	12	1/2	10 3/4	15 3/8	11 1/4	15 7/8
	42	51	54 3/4	15	9 1/2	12	5/8	10 3/4	16 1/16	11 1/4	16 9/16
	48	57	62 5/8	17 3/4	9 1/2	12	5/8	10 3/4	17	11 1/4	17 1/2
	54	63	68 3/8	19 3/4	9 1/2	12	5/8	10 3/4	17 11/16	11 1/4	18 3/16
	60	69	74 1/4	21 3/4	9 1/2	12	5/8	10 3/4	18 3/8	11 1/4	18 7/8
	66	75	79 7/8	23 3/4	9 1/2	12	5/8	11 1/2	19 13/16	12	20 1/4
	72	81	85 7/8	25 3/4	9 1/2	12	5/8	11 1/2	20 1/2	12	20 15/16
	78	87	91 3/8	27 3/4	9 1/2	12	5/8	11 1/2	21 1/4	12	21 11/16
	84	93	97 1/4	29 3/4	12	14 1/2	3/4	11 5/8	21 15/16	12 1/8	22 7/16
	90	99	102 7/8	31 3/4	12	14 1/2	3/4	11 5/8	22 5/8	12 1/8	23 1/8
	96	105	108 3/4	33 3/4	12	14 1/2	3/4	11 5/8	23 5/16	12 1/8	23 13/16
35°	36	45	49	13	9 1/2	12	1/2	10 3/4	18 5/16	11 1/4	18 3/4
	42	51	54 3/4	15	9 1/2	12	5/8	10 3/4	19 1/2	11 1/4	19 7/8
	48	57	62 5/8	17 3/4	9 1/2	12	5/8	10 3/4	21 1/16	11 1/4	21 1/2
	54	63	68 3/8	19 3/4	9 1/2	12	5/8	10 3/4	22 1/4	11 1/4	22 5/8
	60	69	74 1/4	21 3/4	9 1/2	12	5/8	10 3/4	23 3/8	11 1/4	23 3/4
	66	75	79 7/8	23 3/4	9 1/2	12	5/8	11 1/2	25 1/4	12	25 11/16
	72	81	85 7/8	25 3/4	9 1/2	12	5/8	11 1/2	26 7/16	12	26 13/16
	78	87	91 3/8	27 3/4	9 1/2	12	5/8	11 1/2	27 3/4	12	28
	84	93	97 1/4	29 3/4	12	14 1/2	3/4	11 5/8	28 13/16	12 1/8	29 3/16
	90	99	102 7/8	31 3/4	12	14 1/2	3/4	11 5/8	30	12 1/8	30 3/8
	96	105	108 3/4	33 3/4	12	14 1/2	3/4	11 5/8	31 1/8	12 1/8	31 1/2
45°	36	45	49	13	9 1/2	12	1/2	10 3/4	20 1/8	11 1/4	20 1/2
	42	51	54 3/4	15	9 1/2	12	5/8	10 3/4	21 9/16	11 1/4	21 7/8
	48	57	62 5/8	17 3/4	9 1/2	12	5/8	10 3/4	23 1/2	11 1/4	23 7/8
	54	63	68 3/8	19 3/4	9 1/2	12	5/8	10 3/4	24 15/16	11 1/4	25 1/4
	60	69	74 1/4	21 3/4	9 1/2	12	5/8	10 3/4	26 5/16	11 1/4	26 11/16
	66	75	79 7/8	23 3/4	9 1/2	12	5/8	11 1/2	28 1/2	12	28 13/16
	72	81	85 7/8	25 3/4	9 1/2	12	5/8	11 1/2	29 7/8	12	30 1/4
	78	87	91 3/8	27 3/4	9 1/2	12	5/8	11 1/2	31 3/8	12	31 3/4
	84	93	97 1/4	29 3/4	12	14 1/2	3/4	11 5/8	32 13/16	12 1/8	33 3/16
	90	99	102 7/8	31 3/4	12	14 1/2	3/4	11 5/8	34 1/4	12 1/8	34 5/8
	96	105	108 3/4	33 3/4	12	14 1/2	3/4	11 5/8	35 11/16	12 1/8	36

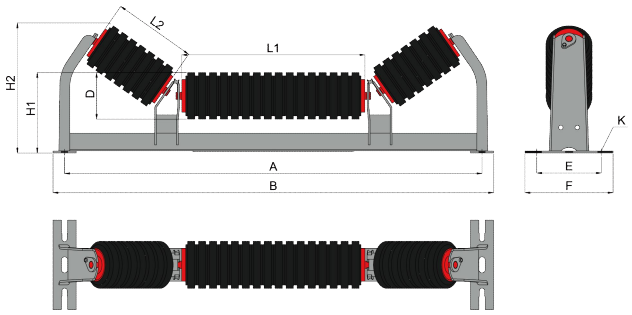
CEMA E UNEQUAL TROUGHING IDLERS



4.3.1 IN

									6 "		7 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2
20°	36	45	49 3/8	23 3/4	7 1/2	7 1/2	12	1/2	10 3/4	13 1/2	11 1/4	13 15/16
	42	51	55 3/8	29 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	48	57	61 3/8	35 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	54	63	67 3/8	41 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	60	69	73 3/8	47 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	66	75	79 3/8	53 3/4	7 1/2	8 1/2	12	5/8	11 1/2	14 1/4	12	14 3/4
	72	81	85 3/8	59 3/4	7 1/2	8 1/2	12	5/8	11 1/2	14 1/4	12	14 3/4
	78	87	91 3/8	65 3/4	7 1/2	8 1/2	12	5-8	11 1/2	14 1/4	12	14 3/4
	84	93	97 3/8	71 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16
	90	99	102 7/8	77 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16
	96	105	109 3/8	83 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16

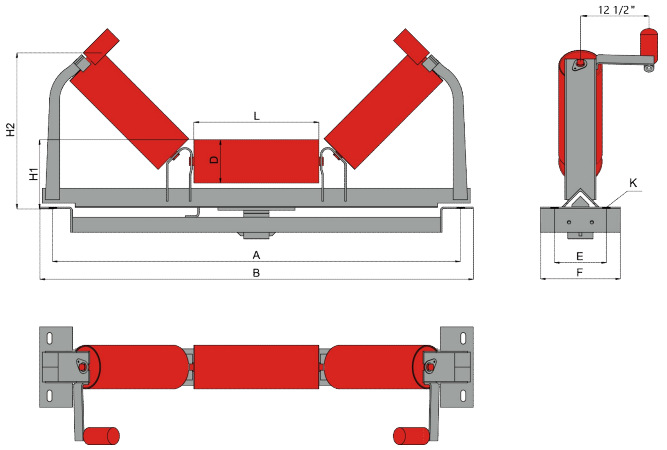
CEMA E UNEQUAL IMPACT TROUGHING IDLERS



4.4.1 IN

									6 "		7 "	
	BW	A	B	L1	L2	E	F	K	H1	H2	H1	H2
20°	36	45	49 3/8	23 3/4	7 1/2	7 1/2	12	1/2	10 3/4	13 1/2	11 1/4	13 15/16
	42	51	55 3/8	29 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	48	57	61 3/8	35 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	54	63	67 3/8	41 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	60	69	73 3/8	47 3/4	7 1/2	7 1/2	12	5/8	10 3/4	13 1/2	11 1/4	13 15/16
	66	75	79 3/8	53 3/4	7 1/2	8 1/2	12	5/8	11 1/2	14 1/4	12	14 3/4
	72	81	85 3/8	59 3/4	7 1/2	8 1/2	12	5/8	11 1/2	14 1/4	12	14 3/4
	78	87	91 3/8	65 3/4	7 1/2	8 1/2	12	5-8	11 1/2	14 1/4	12	14 3/4
	84	93	97 3/8	71 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16
	90	99	102 7/8	77 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16
	96	105	109 3/8	83 3/4	7 1/2	9	14 1/2	3/4	11 5/8	14 3/8	12 1/8	14 13/16

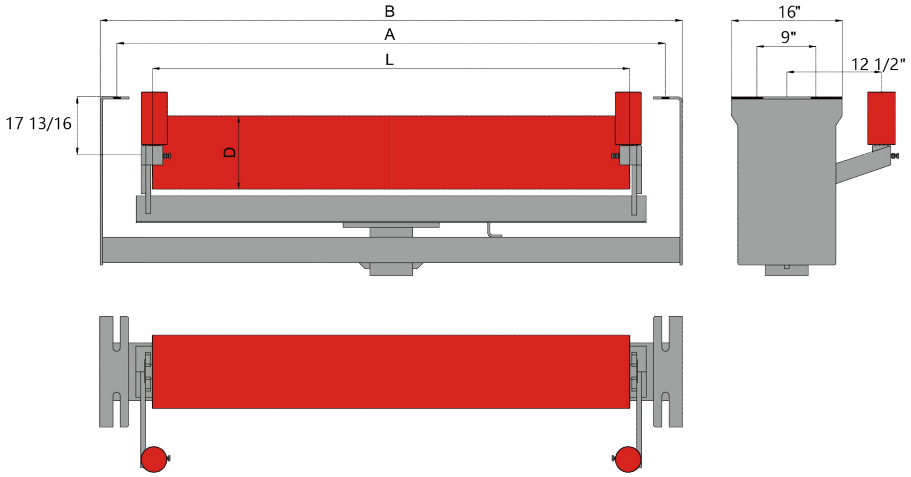
CEMA E SELF-ALIGNING TROUGHING IDLERS



4.5.1 IN

								6 "		7"	
	BW	A	B	L	E	F	K	H1	H2	H1	H2
20°	36	45	47 1/2	13	7 1/2	16	5/8	10 7/8	15 3/4	11 3/8	16 1/4
	42	51	53 1/2	15	7 1/2	16	5/8	10 7/8	16 7/16	11 3/8	16 15/16
	48	57	59 1/2	17 3/4	7 1/2	16	5/8	10 7/8	17 7/16	11 3/8	17 15/16
	54	63	65 1/2	19 3/4	7 1/2	16	5/8	10 7/8	18 1/16	11 3/8	18 9/16
	60	69	71 1/2	21 3/4	7 1/2	16	5/8	10 7/8	18 3/4	11 3/8	19 1/4
	66	75	77 1/2	23 3/4	7 1/2	16	5/8	11 5/8	20 9/16	12 1/8	21 1/16
	72	81	83 1/2	25 3/4	7 1/2	16	5/8	11 5/8	21 1/4	12 1/8	21 3/4
	78	87	89 1/2	27 3/4	7 1/2	16	5/8	11 5/8	21 7/16	12 1/8	21 15/16
	84	93	95 1/2	29 3/4	7 1/2	16	5/8	11 3/4	22 5/8	12 1/4	23 1/8
	90	99	101 1/2	31 3/4	7 1/2	16	5/8	11 3/4	23 5/16	12 1/4	23 13/16
	96	105	107 1/2	33 3/4	7 1/2	16	5/8	11 3/4	23 15/16	12 1/4	24 7/16
35°	36	45	47 1/2	13	7 1/2	16	5/8	10 7/8	18 3/4	11 3/8	19 3/16
	42	51	53 1/2	15	7 1/2	16	5/8	10 7/8	19 7/8	11 3/8	20 5/16
	48	57	59 1/2	17 3/4	7 1/2	16	5/8	10 7/8	21 7/16	11 3/8	21 7/8
	54	63	65 1/2	19 3/4	7 1/2	16	5/8	10 7/8	22 9/16	11 3/8	23
	60	69	71 1/2	21 3/4	7 1/2	16	5/8	10 7/8	23 3/4	11 3/8	24 3/16
	66	75	77 1/2	23 3/4	7 1/2	16	5/8	11 5/8	26 1/16	12 1/8	26 1/2
	72	81	83 1/2	25 3/4	7 1/2	16	5/8	11 5/8	27 3/16	12 1/8	27 5/8
	78	87	89 1/2	27 3/4	7 1/2	16	5/8	11 5/8	27 7/8	12 1/8	28 5/16
	84	93	95 1/2	29 3/4	7 1/2	16	5/8	11 3/4	29 7/16	12 1/4	29 7/8
	90	99	101 1/2	31 3/4	7 1/2	16	5/8	11 3/4	30 5/8	12 1/4	31 1/16
	96	105	107 1/2	33 3/4	7 1/2	16	5/8	11 3/4	31 3/4	12 1/4	32 3/16
45°	36	45	47 1/2	13	7 1/2	16	5/8	10 7/8	20 1/2	11 3/8	20 7/8
	42	51	53 1/2	15	7 1/2	16	5/8	10 7/8	21 15/16	11 3/8	22 5/16
	48	57	59 1/2	17 3/4	7 1/2	16	5/8	10 7/8	23 1/2	11 3/8	23 7/8
	54	63	65 1/2	19 3/4	7 1/2	16	5/8	10 7/8	25 5/16	11 3/8	25 11/16
	60	69	71 1/2	21 3/4	7 1/2	16	5/8	10 7/8	26 11/16	11 3/8	27 1/16
	66	75	77 1/2	23 3/4	7 1/2	16	5/8	11 5/8	29 1/4	12 1/8	29 5/8
	72	81	83 1/2	25 3/4	7 1/2	16	5/8	11 5/8	30 5/8	12 1/8	31
	78	87	89 1/2	27 3/4	7 1/2	16	5/8	11 5/8	31 5/8	12 1/8	32
	84	93	95 1/2	29 3/4	7 1/2	16	5/8	11 3/4	33 7/16	12 1/4	33 13/16
	90	99	101 1/2	31 3/4	7 1/2	16	5/8	11 3/4	34 13/16	12 1/4	35 1/4
	96	105	107 1/2	33 3/4	7 1/2	16	5/8	11 3/4	36 11/83	12 1/4	36 11/16

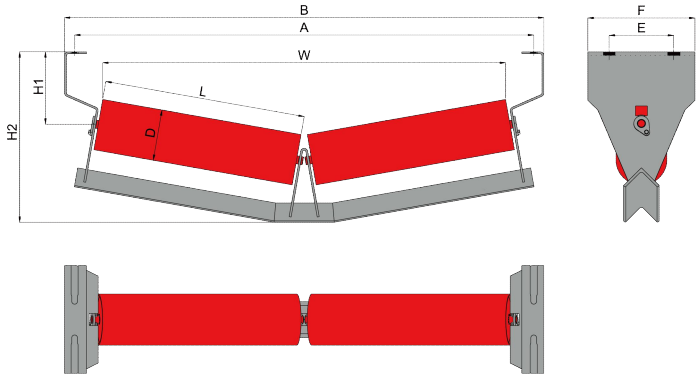
CEMA E SELF-ALIGNING RETURN IDLERS



4.6.1 IN

	6 "			7 "		
BW	A	B	L	A	B	L
36	45	50 1/2	40	45	50 1/2	40
42	51	56 1/2	46	51	56 1/2	46
48	57	62 1/2	52	57	62 1/2	52
54	63	68 1/2	58	63	68 1/2	58
60	69	74 1/2	64	69	74 1/2	64
66	75	80 1/2	70	75	80 1/2	70
72	81	86 1/2	76	81	86 1/2	76
78	87	92 1/2	82	87	92 1/2	82
84	93	98 1/2	88	93	98 1/2	88
90	99	104 1/2	94	99	104 1/2	94
96	105	110 1/2	100	105	110 1/2	100

CEMA D V-RETURN IDLERS



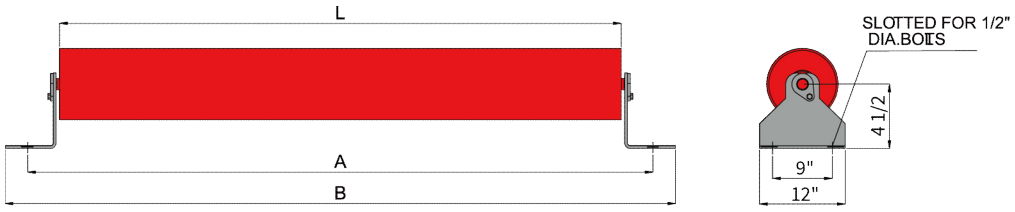
4.7.1 IN

							6 "	7 "
BW	A	B	L	H1	E	F	H2	H2
36	45	48 3/8	19	7	9	12	17 15/16	17 15/16
42	51	54 3/8	22	7	9	12	18 1/2	18 1/2
48	57	60 3/8	25 1/8	7	9	12	19	19
54	63	66 3/8	28 1/8	7	9	12	19 1/2	19 1/2
60	69	72 3/8	31 1/8	7	9	12	20 1/16	20 1/16
66	75	78 3/8	34 1/4	7	9	12	20 9/16	20 9/16
72	81	84 3/8	37 1/4	7	9	12	21 1/8	21 1/8
78	87	90 3/8	40 3/8	7	9	12	21 5/8	21 5/8
84	93	96 3/8	43 3/8	7	9	12	22 15/16	22 15/16
90	99	102 3/8	46 3/8	7	9	12	23 7/16	23 7/16
96	105	108 3/8	49 1/2	7	9	12	24	24
102	111	114 3/8	52 1/2	7	9	12	24 1/2	24 1/2

CEMA E RETURN IDLERS-6 "&7 "DIAMETER

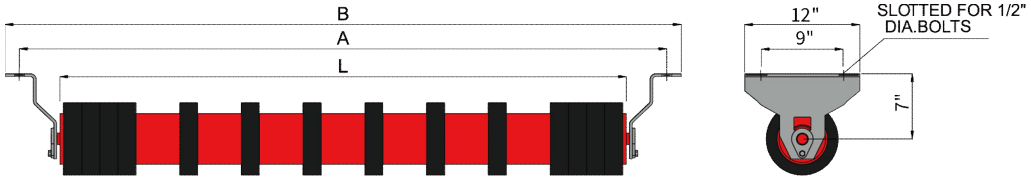
	6 " & 7 "		
BW	A	B	L
36	45	48 1/2	40
42	51	54 1/2	46
48	57	60 1/2	52
54	63	66 1/2	58
60	69	72 1/2	64
66	75	78 1/2	70
72	81	84 1/2	76
78	87	90 1/2	82
84	93	96 1/2	88
90	99	102 1/2	94
96	105	108 1/2	100
102	111	114 1/2	106

CEMA E FLAT IDLERS-6 "&7 "DIAMETER



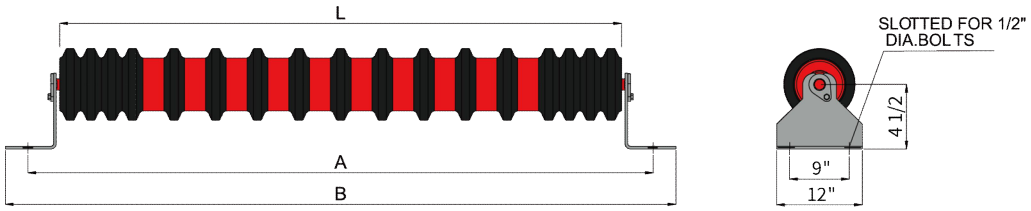
	6 " & 7 "		
BW	A	B	L
36	45	47	40
42	51	53	46
48	57	59	52
54	63	65	58
60	69	71	64
66	75	77	70
72	81	83	76
78	87	89	82
84	93	95	88
90	99	101	94
96	105	107	100
102	111	113	106

CEMA E RUBBER DISCS RETURN IDLERS-6 "&7 "DIAMETER



	6 " & 7 "		
BW	A	B	L
36	45	48 1/2	40
42	51	54 1/2	46
48	57	60 1/2	52
54	63	66 1/2	58
60	69	72 1/2	64
66	75	78 1/2	70
72	81	84 1/2	76
78	87	90 1/2	82
84	93	96 1/2	88
90	99	102 1/2	94
96	105	108 1/2	100
102	111	114 1/2	106

CEMA E RUBBER DISCS FLAT IDLERS-6 "&7 "DIAMETER



	6 " & 7 "		
BW	A	B	L
36	45	47	40
42	51	53	46
48	57	59	52
54	63	65	58
60	69	71	64
66	75	77	70
72	81	83	76
78	87	89	82
84	93	95	88
90	99	101	94
96	105	107	100
102	111	113	106