



**COMPONENTS AND TECHNOLOGY FOR BELT CONVEYORS**

**Pulleys, Idlers, Magnetic Separators,  
Material Control Products, Belt Tensioning Systems,  
Conveyor Accessories**



**DOUGLAS<sup>®</sup>**  
MANUFACTURING

300 INDUSTRIAL PARK DRIVE  
PELL CITY, ALABAMA 35125  
EMAIL sales@douglasmanufacturing.com  
www.douglasmanufacturing.com



**TOLL FREE FAX: 877-884-1206**  
**EASY PULLEY QUOTE**  
**PHONE 205-884-1200 • FAX 205-884-1206**



Your Company \_\_\_\_\_ Store # \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Your Name \_\_\_\_\_ Your Phone Number \_\_\_\_\_ Your Fax Number \_\_\_\_\_

**PULLEYS**

- |                                   |  |  |                  |
|-----------------------------------|--|--|------------------|
| <input type="checkbox"/> Drum     | <input type="checkbox"/> Crowned             | <input type="checkbox"/> Drive/Tail Pulley     | Diameter _____   |
| <input type="checkbox"/> Wing     | <input type="checkbox"/> Flat                | <input type="checkbox"/> Full Key              | Face _____       |
| <input type="checkbox"/> Magnetic | <input type="checkbox"/> Standard Heavy Duty | <input type="checkbox"/> Shallow Key           | Bore _____       |
|                                   | <input type="checkbox"/> Mine Duty           | <input type="checkbox"/> Bushing Style QD      | Belt Width _____ |
|                                   | <input type="checkbox"/> Mill Duty           | <input type="checkbox"/> Bushing Style XT      |                  |
|                                   | <input type="checkbox"/> Extreme Duty        | <input type="checkbox"/> Bushing Style Keyless |                  |

If belt width and pulley width are the same, please verify width of pulley \_\_\_\_\_

If tail pulley, verify drum or wing style \_\_\_\_\_

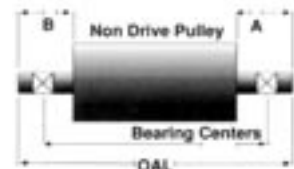
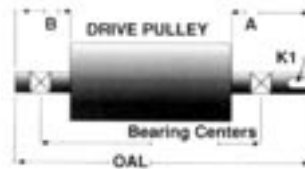
**RUBBER LAGGING**

- Vulcanized  
 Replaceable RIM Lagging™  
Weld-On  Bolt-On

- Thickness:  1/4"  
 3/8"  
 1/2"  
 Other \_\_\_\_\_

- Groove Pattern:  
 Herringbone Groove  
 Diamond Groove  
 Machine Finished  
 Smooth (Plain)

**SHAFTING**



Shaft Dia. \_\_\_\_\_

Overall Length \_\_\_\_\_

No. of Key Ways \_\_\_\_\_ Key Length \_\_\_\_\_ Key Width \_\_\_\_\_ Key Depth \_\_\_\_\_

Turn Down Dia. A \_\_\_\_\_ Turn Down Dia. B \_\_\_\_\_

**TAKE-UPS**

- Slide Tube  
 Top Angle  
 Center Pull  
 HDT

- Travel Length \_\_\_\_\_ Ball \_\_\_\_\_  
Bearing Size \_\_\_\_\_ Roller \_\_\_\_\_  
Ball or Roller Bearing \_\_\_\_\_ Spherical \_\_\_\_\_  
Pillow Block \_\_\_\_\_ 2 Bolt \_\_\_\_\_  
Shaft Diameter \_\_\_\_\_ 4 Bolt \_\_\_\_\_

Number of Take Ups \_\_\_\_\_

**MATERIAL CONTROL PRODUCTS**

- Impact Bed Length 48"  55"  60"   Impact Bed  Primary  
Belt Width \_\_\_\_\_  Belt Cleaner  Secondary  Other \_\_\_\_\_

**DELIVERY NEEDED**

Regular

Rush



**DOUGLAS<sup>®</sup> MANUFACTURING**  
 300 INDUSTRIAL PARK DRIVE  
 PELL CITY, ALABAMA 35125  
 EMAIL [sales@douglasmanufacturing.com](mailto:sales@douglasmanufacturing.com)  
 www.douglasmanufacturing.com



**TOLL FREE FAX: 877-884-1206**  
**EASY IDLER QUOTE**  
**PHONE 205-884-1200 • FAX 205-884-1206**



Your Company \_\_\_\_\_

Store # \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Your Name \_\_\_\_\_

Your Phone Number \_\_\_\_\_

Your Fax Number \_\_\_\_\_

**CEMA CLASS**    **B**     **C**     **D**

Belt Width \_\_\_\_\_ Roll Dia. \_\_\_\_\_

Trough Degree    20°     35°

**Idler Style** \_\_\_\_\_ **Quantity** \_\_\_\_\_

Equal Length Trougher \_\_\_\_\_

Return W/Brackets  
4 1/2" drop \_\_\_\_\_ 1 1/2" drop \_\_\_\_\_ Other \_\_\_\_\_

Flat Belt Carriers \_\_\_\_\_

Rubber Disc Troughing \_\_\_\_\_

Rubber Disc Returns \_\_\_\_\_

Rubber Disc Carriers \_\_\_\_\_

Self Aligning Trougher \_\_\_\_\_

Self Aligning Return \_\_\_\_\_

Picking Idler \_\_\_\_\_

Side Guide \_\_\_\_\_

Live Shaft Rubber Disc \_\_\_\_\_

Live Shaft Steel Roll \_\_\_\_\_

Beater Roll \_\_\_\_\_

Squirrel Cage \_\_\_\_\_

2 Roll \_\_\_\_\_

**OTHER DOUGLAS COMPONENTS**

CROWN FACE DRUM STYLE CONVEYOR PULLEYS      WING STYLE CONVEYOR PULLEYS



REPLACEABLE RIM LAGGING      DRUM PULLEY LAGGING      WING PULLEY LAGGING



PERMANENT MAGNETIC PULLEYS      CROSS BELT PERMANENT MAGNETIC SEPARATORS      SUSPENDED PERMANENT CONVEYOR MAGNET



SLIDE TUBE TAKE UP FRAMES      HEAVY DUTY TOP ANGLE TAKE UPS      MUDCUTTER



UHMW SOLID ROLL TROUGHED IDLERS      URETHANE IDLER ROLL COVERS      IMPACT BED ASSEMBLIES



CONVEYOR COVERS



Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**DELIVERY NEEDED**

Regular

Rush



**+1.727.342.5087**

También puede enviarnos un correo electrónico a [ventas@goodyearrubberproducts.com](mailto:ventas@goodyearrubberproducts.com)

# INDEX TO DOUGLAS MANUFACTURED PRODUCTS

FOR EASE AND ACCURACY IN ORDERING, COPY ORDER FORM ON INSIDE FRONT COVER OR PAGE 1  
AND FAX TO YOUR LOCAL DISTRIBUTOR OR TOLL FREE TO DOUGLAS MANUFACTURING.

## PULLEYS

Conveyor Component Location And Terminology .....	6
Standard Heavy Duty Drum Pulleys .....	7
Standard Heavy Duty Drum Pulley Weights .....	8-9
Standard Heavy Duty Self-Cleaning Wing Pulleys .....	10
Standard Heavy Duty Wing Pulley Weights .....	11
Mine Duty/Mill Duty Drum Pulleys .....	12
Spiral Wing Pulley .....	12
Mine Duty/Mill Duty Self-Cleaning Wing Pulleys .....	13
Mine Duty Extreme™ Drum Pulleys .....	14
Mine Duty Extreme™ Wing Pulleys .....	15
Engineered Class Drum Pulleys .....	16
Douglas Hubs Interchangeable With QD .....	17
Douglas Bushings Interchangeable With QD .....	17
QD Bushing Location Dimensions .....	17
Douglas Hubs Interchangeable With XT .....	18
Douglas Bushings Interchangeable With XT .....	18
XT Bushing Location Dimensions .....	18
Keyless Locking Assembly .....	19
Machined Shafting .....	26
Conveyor Pulley Assemblies .....	27
Pulley And Shaft Selection .....	28
Engineering Data For Douglas Pulleys .....	29
Load Rating For Drum Pulleys And Shafts .....	30
Load Rating For Wing Pulleys And Shafts .....	31

## HOT VULCANIZED PULLEY LAGGING AND RUBBER COATED PRODUCTS

Hot Vulcanized Drum Pulley Lagging .....	22
Bulldog Tough Ceramic Lagging .....	22
Weld-On Replaceable Rim Lagging™ .....	23
Bolt-On Replaceable Rim Lagging™ .....	24
High Impact Replaceable Wing Lagging™ .....	25

## IDLERS

Douglas CEMA Pulley Construction .....	34 & 35
--	---------

### CEMA B

Troughed Idlers 4" Diameter, Equal Length Rollers .....	37
Troughed Idlers 5" Diameter, Equal Length Rollers .....	38
Return Idlers 4" and 5" Diameter, Drop Brackets 1-1/2" and 4-1/2" .....	39

### CEMA C

Troughed Idlers 4" Diameter, Equal Length Rollers .....	41
Troughed Idlers 5" Diameter, Equal Length Rollers .....	42
Troughed Idlers 6" Diameter, Equal Length Rollers .....	43
Return Idlers 4", 5" and 6" Diameter .....	44
Flat Idlers 4", 5" and 6" Diameter .....	44
Rubber Disc, Impact Troughed Idlers 5" Diameter .....	45
Rubber Disc, Impact Troughed Idlers 6" Diameter .....	46
Rubber Disc Return Idlers 5" and 6" Diameter .....	47
Rubber Cushion Flat Idlers 5" and 6" Diameter .....	47
Self-Aligning Troughed Idlers 4" Diameter .....	48
Self-Aligning Troughed Idlers 5" Diameter .....	49
Self-Aligning Troughed Idlers 6" Diameter .....	50
Self-Aligning Return Idlers 4", 5" and 6" Diameter .....	51
20° Low Profile Channel Mount Idler 4" Diameter .....	52
UHMW Troughed Idlers 4" Diameter, Equal Length Rollers .....	53
UHMW Troughed Idlers 5" Diameter, Equal Length Rollers .....	54
UHMW Return Idlers 4" and 5" Diameter .....	55
Live Shaft Rubber Disc Idlers, 5" and 6" Diameter .....	67
Urethane Idler Roll Covers, 4", 5", 6" .....	67
Douglas Side Guide Roller .....	68

### CEMA D

Troughed Idlers 5" Diameter, Equal Length Rollers .....	57
Troughed Idlers 6" Diameter, Equal Length Rollers .....	58

Note: Douglas Manufacturing Co., Inc.'s policy is to constantly improve our product line. Specifications are subject to change without notice.  
This catalog and all contents copyright © January 2002, Douglas Manufacturing Co., Inc., Bell City, AL 35125-1515

# INDEX TO DOUGLAS MANUFACTURED PRODUCTS

FOR EASE AND ACCURACY IN ORDERING, COPY ORDER FORM ON INSIDE FRONT COVER OR PAGE 1  
AND FAX TO YOUR LOCAL DISTRIBUTOR OR TOLL FREE TO DOUGLAS MANUFACTURING.

## CEMA D (continued)

Rubber Disc, Impact Troughed Idlers 6" Diameter .....	59
Rubber Disc, Impact Troughed Idlers 5" Diameter .....	60
Self-Aligning Return Idlers 5" and 6" Diameter .....	61
Rubber Disc Flat Idlers 5" and 6" Diameter .....	62
Rubber Disc Return Idlers 5" and 6" Diameter .....	63
Self-Aligning Troughed Idlers, Equal Length Rollers 5" Diameter .....	64
Self-Aligning Troughed Idlers, Equal Length Rollers 6" Diameter .....	65
Flat Idlers 5" and 6" Diameter .....	66
Return Idlers 5" and 6" Diameter, Drop Brackets 1½", 4" and 6" .....	66

## MAGNETIC SEPARATORS

Permanent Magnetic Conveyor Pulleys .....	70
Self Cleaning Permanent Magnetic Separators .....	71
Manual Cleaning Permanent Magnetic Separators .....	72
Electro-Magnetic Separator – Self Cleaning .....	73
Electro-Magnetic Separator – Manual Cleaning .....	74

## MATERIAL CONTROL PRODUCTS

### BELT CLEANING SYSTEMS

Mudcutter™ Primary Belt Cleaner .....	76
Earthscraper™ Secondary .....	77
Bulldog™ Belt Plow .....	78
Beater Rolls 5" and 6" Diameter .....	79
Squirrel Cage Rolls 5" and 6" Diameter Heavy and Medium Duty .....	80

### IMPACT BED ASSEMBLIES

Heavy Duty Impact Bed Assemblies .....	81
Trailblazer™ Heavy Duty Sectional Impact Bed Assemblies .....	82
Floater™ – Spring Shock Absorber Sectional Impact Bed Assemblies .....	83

<b>GUARDIAN™ RETURN ROLL GUARD</b> .....	84
Galvanized Conveyor Covers .....	85

### BELT TENSIONING SYSTEMS

Slide Tube® Take-Ups .....	88
Top Angle Protected Screw Take-Ups .....	89
Heavy Duty Center Pull Take-Ups .....	90
Top Mount Heavy Duty Take-Ups .....	91
Scissor Pivot Gravity™ Take-Up Assemblies .....	92

### CONVEYOR ACCESSORIES AND INFORMATION

2 Roll™ Troughed Idlers 4" Diameter 22° .....	94
Screen Tube Covers (Vibrating Screens) .....	94
2 Roll™ I-Beam Frame Econo-Conveyor Kit™ .....	95
Conveyor Design Wizard Program® .....	96
Warranty – Terms and Conditions .....	98



**DOUGLAS  
MANUFACTURING**

PHONE 205-884-1200 • FAX 205-884-1206

300 INDUSTRIAL PARK DRIVE • PELL CITY, ALABAMA 35125

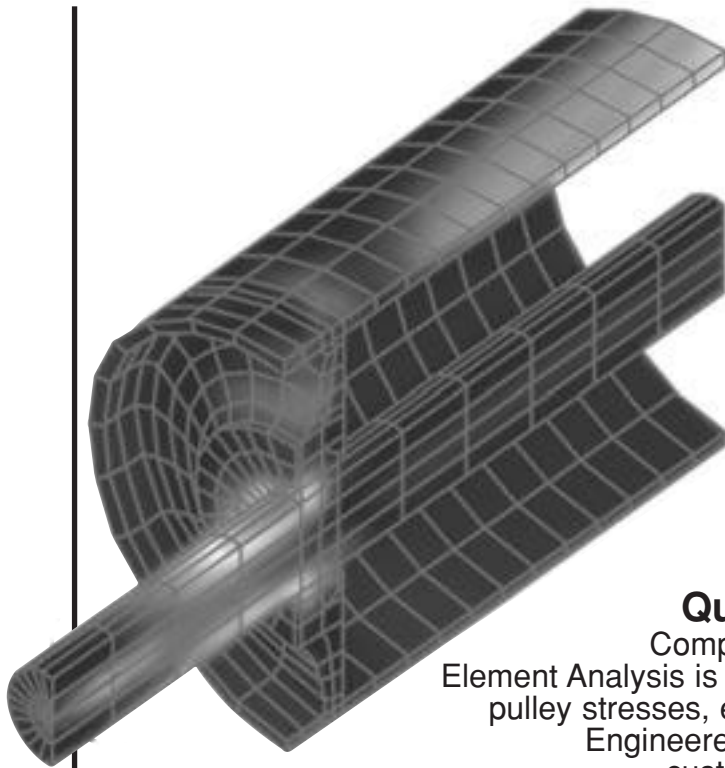
EMAIL sales@douglasmanufacturing.com • www.douglasmanufacturing.com

**GOODYEAR**  
RUBBER PRODUCTS, INC.

+1.727.342.5087

También puede enviarnos un correo electrónico a  
ventas@goodyearrubberproducts.com

# PULLEYS



## Quality Assurance

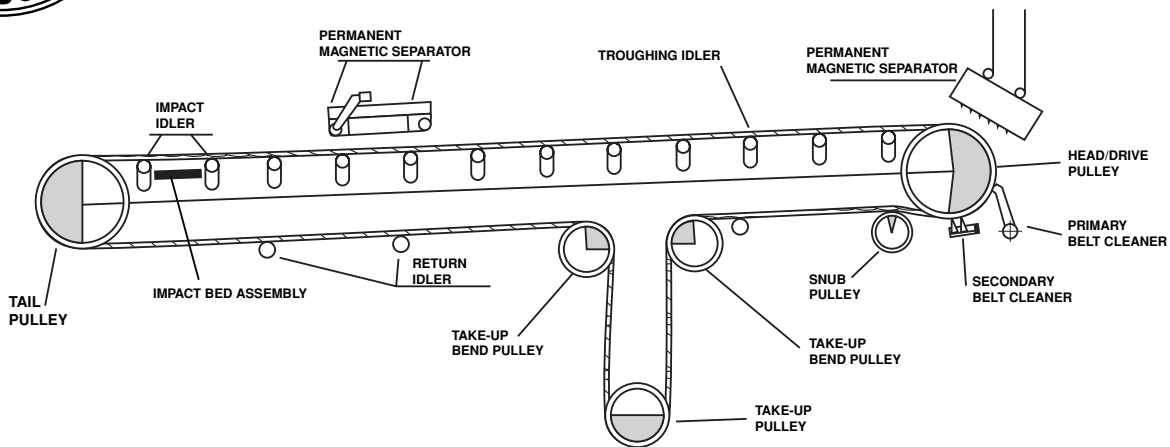
Computer generated Finite Element Analysis is used to predetermine pulley stresses, ensuring that Douglas Engineered Class Pulleys meet customer's specifications.

Conveyor Component Location And Terminology .....	6
Standard Heavy Duty Drum Pulleys .....	7
Standard Heavy Duty Drum Pulley Weights .....	8-9
Standard Heavy Duty Self-Cleaning Wing Pulleys .....	10
Standard Heavy Duty Wing Pulley Weights .....	11
Mine Duty/Mill Duty Drum Pulleys .....	12
Spiral Wing Pulley .....	12
Mine Duty/Mill Duty Self-Cleaning Wing Pulleys .....	13
Mine Duty Extreme™ Drum Pulleys .....	14
Mine Duty Extreme™ Wing Pulleys .....	15
Engineered Class Drum Pulleys .....	16
Douglas Hubs And Bushings Interchangeable With QD .....	17
QD Bushing Location Dimensions .....	17
Douglas Hubs Interchangeable With XT .....	18
Douglas Bushings Interchangeable With XT .....	18
XT Bushing Location Dimensions .....	18
Keyless Locking Assembly .....	19
Machined Shafting .....	26
Conveyor Pulley Assemblies .....	27
Pulley And Shaft Selection .....	28
Engineering Data For Douglas Pulleys .....	29
Load Rating For Drum Pulleys And Shafts .....	30
Load Rating For Wing Pulleys And Shafts .....	31

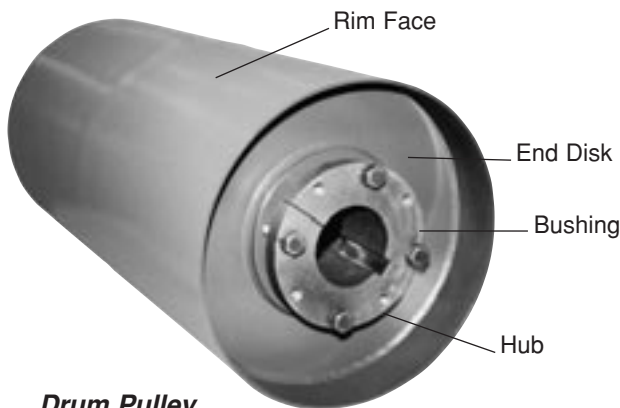




# CONVEYOR COMPONENT LOCATION AND TERMINOLOGY

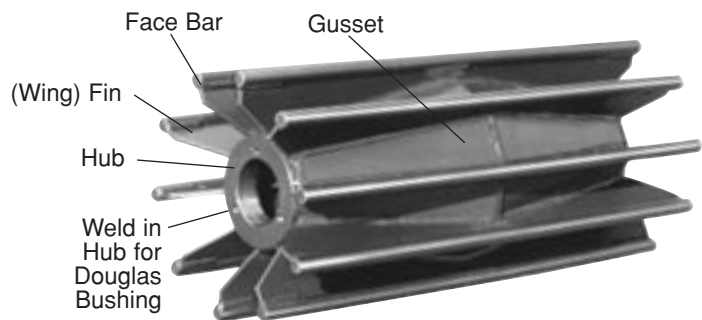


- **Head/Drive Pulley.** Located at the discharge terminus of the conveyor. Provides driving force for the conveyor. May or may not be the head pulley. Usually it has a larger diameter than other pulleys in the system and is often lagged to increase traction and pulley life.
- **Take-Up Bend Pulley.** Change belt direction on the slack side of the conveyor. Usually lagged to provide longer belt life.
- **Take-Up Pulley.** Provide adjustment to maintain necessary slack side belt tension. Usually gravity force adjustable.
- **Tail Pulley.** Usually located immediately preceding the loading point of the conveyor.
- **Snub Pulley.** Tightens belt giving more surface contact between belt and pulley face. Usually located just behind drive pulley.



## **Drum Pulley**

Can be used at any location. It consists of a rim shell, 2 end discs and 2 shaft locking assemblies.



## **Wing Pulley**

Can be used as tail pulley and on gravity take-up assemblies. Helps prevent material build up and belt damage from transported materials. It consists of face bars, fins, gussets and locking assemblies.

## **Determining Pulley Face Width**

To select the proper pulley face width, the belt width size is necessary. Two rules apply:

- (1) Up to and including 42 inch belt width, 2 inches should be added to the belt width dimension. For example, the pulley width for a 24 inch belt should be 26 inches.
- (2) Above 42 inches, 3 inches should be added. The pulley width for a 48-inch wide belt should be 51 inches.

## **Standard Industry Procedure For Ordering:**

1. Diameter of Pulley
  2. Face Width of Pulley
  3. Shaft Size
- To prevent error, give dimensions in above sequence.

# STANDARD HEAVY DUTY DRUM PULLEYS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

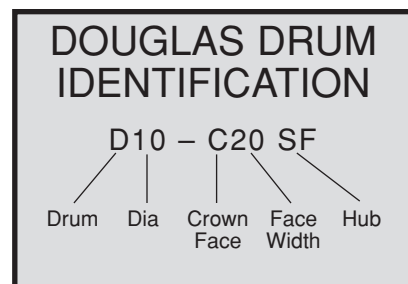
- Meets or exceeds CEMA/ANSI specifications
- Exclusive One Piece Rolled in Crown in all sizes help to ensure consistent, proper belt tracking stronger pulley with tighter tolerances

## Construction

- Full depth weld with reinforcing bar on single longitudinal seam featured on each Douglas Heavy Duty Drum Style Conveyor Pulley
- Crown face pulleys are furnished standard, flat face must be specified
- Douglas hubs feature full depth welds on the inside and outside of pulley end disk decreasing the likelihood of end disk failure due to shaft deflection and shock loads
- Douglas hubs and bushings are interchangeable with QD® or XT® style
- For approximate shipping weights please consult pages 8 and 9

## Options

- Hot Vulcanized Pulley Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems
- Stainless steel construction available
- Machined face pulleys for close tolerance and better belt tracking
- Optional Douglas Keyless Locking Assemblies available



*Standard Heavy Duty Drum Pulley with Herringbone Lagging, Bushings, Machined Shaft and Split Roller Bearing Pillow Blocks.*

WARNING: Douglas Conveyor Pulleys are not intended for use as transmission drive pulleys on high speed applications, nor are they suitable for applications using steel cable belts.

CAUTION: Applications using wire mesh belts require flat machined face pulleys.





# STANDARD HEAVY DUTY DRUM PULLEY WEIGHTS (lbs.)

DIA	HUB	12	14	16	18	20	22	24	26	30	32	36	38	40	44	46	51	54	57	60	63	66	
4	SH	7	8	9	10	11	12	13	14	16	17	19	20	21	22								
	SDS	8	9	10	11	12	13	14	15	17	17	19	20	21	22								
5	SH	9	10	11	12	13	14	15	16	19	21	23	24	25	28								
	SDS	11	12	13	14	15	16	17	18	20	21	23	24	25	27								
	SK	14	15	16	17	18	19	20	21	22	23	26	27	28	30								
6	SH	11	12	13	15	16	17	19	20	24	27	29	30	32	34								
	SDS	12	13	15	16	17	19	20	21	25	27	29	31	32	34								
	SK	16	17	19	20	21	23	24	25	28	28	31	32	33	36								
	SF	16	18	19	20	21	23	24	25	28	30	32	33	34	37								
8	SH	16	17	18	20	21	22	24	25	27	32	34	36	37	39								
	SDS	16	18	19	20	21	23	24	25	28	33	36	37	38	41								
	SK	18	19	21	22	23	25	26	27	30	34	36	37	39	41								
	SF	20	21	22	24	25	26	27	29	31	35	37	38	40	42								
	E	28	30	31	32	34	35	36	38	40	43	45	47	48	51								
10	SH	33	37	40	44	47	51	54	58	65	73	80	84	87	94	98	114	125	158	165	172	179	
	SDS	34	37	41	44	48	51	55	58	65	74	81	87	90	97	101	114	125	158	165	172	179	
	SK	35	39	42	46	49	53	57	60	67	76	83	88	92	99	102	115	120	159	166	173	180	
	SF	37	41	44	48	51	55	58	62	69	72	83	89	92	99	103	117	126	161	168	175	182	
	E	46	49	53	56	60	63	67	70	78	84	91	95	98	105	109	118	126	165	172	179	186	
	F	55	59	62	66	69	73	76	80	87	94	101	106	109	116	120	128	134	175	182	189	196	
	JS	66	70	73	77	80	84	87	91	98	105	112	115	119	126	132	141	146	185	192	199	206	
12	SH	42	46	50	55	59	63	67	72	80	91	100	108	112	120	125	142	148	166	173	179	186	
	SDS	43	47	51	56	60	64	68	73	81	92	100	108	112	121	125	142	149	166	173	179	186	
	SK	45	49	53	58	62	66	70	75	83	94	102	110	114	122	127	144	150	164	171	178	185	
	SF	46	50	55	59	63	67	71	76	84	95	103	111	115	123	128	145	151	167	174	181	188	
	E	55	59	64	68	72	76	80	84	88	104	112	116	121	129	133	150	157	171	178	185	192	
	F	64	69	73	77	81	86	90	94	102	113	122	126	130	138	143	160	166	180	187	194	201	
	JS	75	80	84	88	92	97	101	103	113	121	130	134	138	147	151	165	171	190	197	204	211	
	MS	72	76	81	85	89	93	98	102	110	118	126	131	135	143	147	197	206	214	222	231	239	
14	SH	53	58	62	67	72	77	82	87	96	112	122	127	131	141	146	169	176	184	191	198	206	
	SDS	53	58	62	67	72	77	82	87	97	112	122	127	132	142	147	169	177	184	191	199	206	
	SK	55	59	64	69	74	79	84	89	99	114	124	129	134	144	149	171	179	186	193	201	208	
	SF	56	61	66	71	76	81	86	91	100	116	126	130	135	145	150	173	180	188	195	202	210	
	E	65	70	75	80	85	90	94	99	109	122	124	137	142	152	156	177	184	191	199	206	214	
	F	74	79	84	89	94	99	104	109	119	132	142	147	152	162	166	188	195	202	209	217	224	
	JS	90	94	99	104	109	114	119	124	134	147	156	161	166	176	181	201	209	216	223	231	238	
	MS	85	90	95	100	105	110	115	120	130	144	154	159	164	174	179	201	208	215	223	230	238	
16	SH	54	60	65	71	77	82	88	94	105	118	129	135	141	147	153	159	174	179	186	192	197	
	SDS	55	61	66	72	78	83	89	95	106	119	130	136	142	148	154	160	174	180	186	192	198	
	SK	58	64	69	75	81	86	92	98	109	122	133	139	145	151	157	163	177	183	189	195	201	
	SF	60	66	71	77	83	88	94	100	111	124	135	141	147	153	159	165	179	185	191	197	203	
	E	68	74	79	85	91	96	102	108	119	132	143	149	155	161	167	173	187	193	199	205	211	
	F	77	83	88	94	100	105	111	117	128	141	152	158	164	170	176	182	196	202	208	214	220	
	JS	102	108	113	119	124	130	136	141	153	169	180	186	192	203	208	233	242	250	259	267	276	
	MS	98	104	109	115	120	126	132	137	149	164	175	181	186	198	203	227	235	244	252	261	269	
	NS	115	121	127	132	138	143	149	155	166	181	192	197	203	214	220	243	251	260	268	277	285	
18	SH	69	76	83	88	94	101	107	113	126	146	159	172	179	191	198	227	237	246	256	265	275	
	SDS	70	77	84	89	95	102	108	114	127	147	160	173	180	192	199	228	238	247	257	266	276	
	SK	72	79	86	91	97	104	110	116	129	149	162	175	182	194	201	230	240	249	259	268	278	
	SF	74	81	87	93	99	106	112	118	131	151	164	177	184	196	203	232	242	251	261	270	280	
	E	84	91	97	103	109	116	122	128	141	161	174	187	194	206	213	242	252	261	271	280	290	
	F	94	101	107	113	119	126	132	138	151	171	184	187	204	216	223	252	262	271	281	290	300	
	JS	116	122	128	135	141	147	154	160	173	194	206	213	219	232	238	269	278	288	297	307	316	
	MS	112	118	124	131	137	143	150	156	169	188	201	207	214	226	233	262	271	281	289	290	300	309
	NS	135	142	148	154	161	167	173	180	192	210	223	229	235	243	250	288	298	309	319	330	339	
	20	SDS	88	95	102	109	116	123	130	137	151	180	194	201	208	222	229	268	279	289	300	310	321
SK		90	97	104	111	118	125	132	139	153	182	196	203	210	224	231	270	281	291	302	312	323	
SF		91	98	105	112	119	126	133	140	154	183	197	204	211	225	232	271	282	292	303	313	324	
E		100	107	114	121	128	135	142	149	163	200	215	222	229	243	250	288	298	309	319	330	339	
F		110	117	124	131	138	145	152	159	173	210	224	231	238	252	259	296	307	317	328	338	349	
JS		130	137	144	151	158	165	172	180	194	220	234	241	248	262	270	317	327	337	348	358	369	
MS		127	134	141	148	155	162	169	176	190	214	228	235	242	255	263	312	322	332	343	353	364	
NS	152	159	166	173	180	187	194	201	215	239	253	260	267	280	288	335	345	355	366	377	388		

WEIGHTS AND DIMENSIONS: All weights shown are approximate or average weights and are intended for the purpose of estimating

# STANDARD HEAVY DUTY DRUM PULLEY WEIGHTS (lbs.)



Continued

DIA	HUB	12	14	16	18	20	22	24	26	30	32	36	38	40	44	46	51	54	57	60	63	66
24	SK	118	126	135	143	152	160	168	177	194	233	250	258	267	284	292	344	357	449	466	483	500
	SF	119	128	136	145	153	162	170	178	195	235	252	260	268	285	294	346	358	450	467	484	500
	E	128	137	145	154	162	170	179	187	204	242	274	283	291	308	316	367	380	472	489	506	523
	F	153	161	169	178	186	195	203	212	228	266	283	345	356	379	390	448	464	481	498	515	532
	JS	163	172	180	189	197	205	214	222	239	277	293	356	367	389	401	458	475	492	509	526	543
	MS	159	168	176	185	193	202	210	218	235	271	288	350	361	383	395	450	467	484	501	518	534
	NS	190	198	207	215	224	232	241	249	266	301	318	380	391	413	425	480	497	513	530	547	564
	PS	256	267	279	290	301	312	324	335	357	393	416	427	438	461	472	525	542	559	576	592	609
	WS	313	324	336	347	358	369	381	392	414	445	468	479	490	513	524	572	589	606	623	639	656
30	F	210	221	231	242	252	263	273	284	305	363	384	461	475	503	517	600	621	642	663	684	705
	JS	221	232	242	253	263	274	284	295	316	374	395	472	486	514	528	611	632	653	674	695	716
	MS	217	228	238	249	259	270	280	291	312	368	389	466	480	508	522	603	624	645	666	687	708
	NS	257	267	278	288	299	309	320	330	352	410	431	508	522	550	564	646	668	689	710	731	752
	PS	345	359	373	387	401	415	429	443	471	528	556	570	584	612	627	704	725	746	767	789	810
	WS	402	416	430	444	458	472	486	500	528	581	609	623	637	665	679	752	773	794	815	836	857
36	F	338	355	372	389	406	422	439	456	490	576	609	706	727	769	790	912	944	975	1007	1038	1070
	JS	349	366	382	399	416	433	450	467	500	586	620	717	738	780	801	922	954	986	1017	1049	1080
	MS	344	361	378	395	411	428	445	462	496	580	614	710	731	774	795	915	946	978	1009	1041	1073
	NS	453	474	495	516	537	558	579	600	642	729	771	792	813	855	877	995	1027	1058	1090	1121	1153
	PS	605	626	647	668	689	710	731	752	795	906	949	970	991	1033	1054	1197	1229	1260	1292	1324	1355
	WS	653	674	695	716	737	758	779	800	842	923	965	986	1007	1049	1070	1183	1215	1246	1278	1309	1341
42	F	433	453	473	492	512	531	551	571	610	725	764	877	902	951	976	1133	1169	1206	1243	1280	1317
	JS	444	463	483	503	522	542	562	581	621	735	775	888	912	961	986	1142	1179	1216	1253	1289	1326
	MS	439	459	478	498	518	537	557	577	616	729	768	881	906	955	979	1134	1171	1208	1245	1282	1319
	NS	578	603	627	652	676	701	725	750	799	916	965	990	1014	1063	1088	1242	1279	1316	1352	1389	1426
	PS	783	807	832	856	881	905	930	954	1004	1119	1168	1193	1217	1266	1291	1443	1480	1517	1554	1590	1627
	WS	830	855	879	904	928	953	977	1002	1051	1162	1211	1235	1260	1309	1334	1481	1518	1555	1591	1628	1665
48	F	540	563	585	608	630	653	675	697	742	891	936	1065	1093	1149	1177	1373	1415	1457	1500	1542	1584
	JS	551	573	596	618	641	663	686	708	753	900	945	1074	1102	1159	1187	1382	1424	1466	1508	1550	1592
	MS	546	569	591	613	636	658	681	703	748	894	939	1068	1096	1152	1180	1373	1415	1457	1499	1541	1584
	NS	719	747	775	804	832	860	888	916	972	1122	1179	1207	1235	1291	1319	1512	1554	1596	1638	1680	1722
	PS	984	1012	1040	1068	1096	1124	1152	1180	1237	1386	1442	1470	1498	1554	1582	1773	1815	1857	1899	1942	1984
	WS	1031	1060	1088	1116	1144	1172	1200	1228	1284	1428	1484	1512	1540	1597	1625	1811	1853	1895	1937	1979	2021

**WEIGHTS AND DIMENSIONS:** All weights shown are approximate or average weights and are intended for the purpose of estimating only. Dimensions shown are subject to change without notification. Certified prints of ordered material are available on request.



## STANDARD HEAVY DUTY WING SELF-CLEANING PULLEYS

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

### Benefits

- Meets or exceeds CEMA/ANSI specifications
- Douglas Heavy Duty Wing Style Pulleys feature exclusive minimum 3/4" solid steel round bars
  - Increases service life
  - Helps prevent wing folding damage
  - Wears twice as long as other manufacturers' formed flat bar or 1/4 half moon bar
  - Protects belt bottom cover from cuts and tears
  - Less belt vibration from smoother belt contact
- Special self-cleaning angle formed by gussets discharges material away from the belt and the pulley face helping to prevent material build up and belt damage from conveyed material
- Unique design creates a refined motion that helps to dislodge materials from the belt top cover



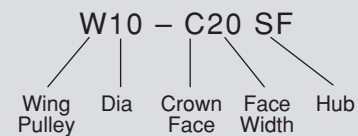
### Construction

- Crown face pulleys are furnished standard, flat face must be specified
- For approximate shipping weights please consult page 11
- Douglas hubs and bushings are interchangeable with QD® and XT® style

### Options

- Hot Vulcanized Pulley Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems
- Stainless steel construction available
- Optional Douglas Keyless Locking Assemblies available
- Stabilizing Rings

### DOUGLAS WING IDENTIFICATION

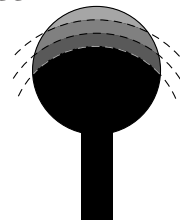


### DOUGLAS SOLID 3/4" STEEL ROUND BAR WING TIPS WEAR LONGER AND RETAIN ROUNDNESS.

WEARS TWICE AS LONG AS OTHER MANUFACTURERS  
FORMED FLAT BAR OR 1/4 ROUND

PROTECTS UNDERSIDE OF BELT FROM CUTS,  
SMOOTHER RUNNING

LARGE PULLEYS ARE FITTED WITH  
1" SOLID STEEL BARS FOR LONG LIFE



CAUTION: Douglas Conveyor Pulleys not suitable for applications using steel cable belts.

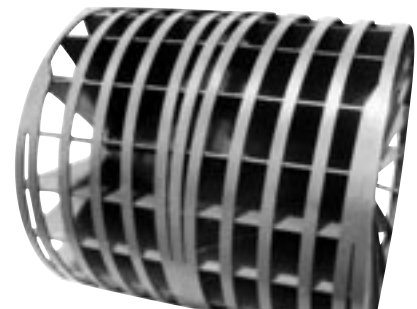
## SPIRAL WING PULLEY

### Benefits

- Promotes self cleaning, helps move material to outside edges of tail pulley
- Helps smooth out vibrating belt movement

### Construction

- Flat steel bars helically wound around wing fins.



# STANDARD HEAVY DUTY WING PULLEY WEIGHTS (lbs.)



DIA	HUB	12	14	16	18	20	22	24	26	30	32	36	38	40	44	46	51	54	57	60	63	66
8	SH	21	26	29	34	37	40	45	50	58	60	71	78									
	SDS	22	28	30	35	39	42	47	51	60	63	73	80									
	SK	25	32	35	38	42	47	51	54	62	67	77	85									
	SF	34	38	42	45	50	54	58	60	68	74	84	90									
10	SH	36	42	48	54	60	65	71	77	89	95	107	113	118	130							
	SDS	37	42	48	54	59	65	71	76	88	94	105	111	117	128							
	SK	38	43	49	54	60	65	71	76	87	93	104	109	115	126							
	SF	40	46	51	56	62	67	72	78	88	94	104	110	115	126							
	E	45	50	55	60	65	70	75	80	90	95	105	110	115	125							
12	SDS	51	59	67	75	83	91	99	107	124	132	148	156	164	180	188	209					
	SK	52	60	67	75	83	90	98	106	121	129	145	152	160	176	183	203					
	SF	54	61	69	76	83	91	98	106	121	129	144	151	159	174	181	200					
	E	57	64	71	78	85	92	99	106	120	128	142	149	156	170	177	195					
	F	71	78	85	92	99	106	113	120	134	141	155	162	168	182	189	207					
14	SDS	60	69	78	87	97	106	115	125	143	153	171	181	190	209	218	242					
	SK	61	69	78	87	96	105	114	123	141	150	168	177	186	204	213	236					
	SF	62	71	79	88	97	105	114	123	141	149	167	176	185	202	211	233					
	E	65	73	82	90	98	106	115	123	140	148	165	173	182	199	207	228					
	F	80	87	96	104	112	120	128	136	153	161	178	186	194	211	219	240					
	JS	82	89	97	105	113	121	129	137	153	161	177	185	193	209	217	238					
16	SF	72	82	91	101	111	121	131	141	161	172	192	202	212	233	243	268	284				
	E	75	84	93	103	112	122	131	141	160	170	190	199	209	229	238	263	278				
	F	89	98	107	116	126	135	145	154	173	183	202	212	221	241	250	274	289				
	JS	91	100	109	118	127	136	146	155	174	183	202	211	221	239	249	272	286				
	MS	121	129	137	146	154	163	171	180	197	206	223	232	240	257	266	288	301				
18	SF	93	105	117	130	143	156	169	182	208	221	247	261	274	300	313	347	366	386			
	E	95	106	118	130	142	155	167	180	205	217	242	255	268	293	306	337	356	375			
	F	109	120	132	144	156	168	180	192	217	229	254	267	279	304	317	348	367	385			
	JS	110	121	133	144	156	168	180	192	216	228	252	265	277	301	313	344	362	381			
	MS	138	148	159	169	180	191	202	213	235	247	269	280	291	314	325	353	370	386			
20	SF	104	117	131	145	159	174	188	202	231	246	275	290	304	334	349	385	408	430	452	474	496
	E	106	119	132	145	159	172	186	200	228	242	270	284	298	327	341	376	397	419	440	461	483
	F	120	132	145	158	172	185	199	213	240	254	282	296	310	338	351	386	407	429	450	471	492
	JS	121	133	146	159	172	185	199	212	239	253	280	294	307	335	348	383	403	424	444	465	486
	MS	149	160	172	184	196	208	221	233	258	271	296	309	321	347	359	391	410	429	448	467	486
	NS	166	176	188	199	211	223	235	248	272	285	309	322	334	359	371	403	421	440	459	477	496
24	SF	157	177	198	220	241	263	285	307	351	373	417	439	462	507	529	585	619	652	686	720	754
	E	158	178	198	218	239	260	281	302	345	366	409	431	453	496	518	572	604	637	670	702	735
	F	172	191	211	231	252	272	293	314	356	378	420	442	463	506	527	581	613	646	678	710	743
	JS	172	192	211	231	251	272	292	313	354	375	417	438	459	501	522	575	607	639	671	703	734
	MS	199	217	235	253	272	291	310	330	369	389	428	448	468	507	527	577	607	637	667	697	727
	NS	215	232	250	268	287	305	324	343	382	401	440	460	479	518	538	587	616	646	675	705	734
30	E	221	248	276	304	332	361	390	419	477	507	566	595	625	685	715	790	835	880	925	970	1015
	F	234	261	289	316	344	373	401	430	488	517	576	605	635	694	723	797	842	887	932	976	1021
	JS	235	261	288	315	343	371	399	427	485	513	571	600	629	688	717	790	834	878	922	966	1010
	MS	260	284	310	335	361	387	414	441	495	522	577	604	632	687	715	785	826	868	910	952	994
	NS	276	300	324	349	375	401	427	453	507	534	588	615	642	697	724	793	834	875	917	958	999
36	F	313	349	385	422	459	496	533	571	647	685	762	801	840	918	957	1055	1113	1172	1231	1291	1350
	JS	313	349	384	420	457	493	530	567	643	680	756	795	833	910	948	1045	1103	1162	1220	1278	1337
	MS	337	370	404	437	472	507	542	577	648	684	757	793	830	903	940	1033	1088	1144	1200	1255	1311
	NS	353	385	418	451	485	519	554	589	659	695	766	802	839	911	948	1039	1094	1149	1204	1259	1315
	PS	433	465	497	530	563	596	630	668	733	802	837	872	942	978	1066	1120	1173	1226	1280	1333	
42	F	426	476	527	578	629	681	733	785	890	943	1050	1103	1157	1265	1318	1454	1535	1617	1698	1780	1862
	JS	425	475	525	575	626	677	728	780	884	936	1042	1094	1147	1254	1307	1441	1521	1602	1683	1763	1844
	MS	446	493	540	588	636	685	734	783	882	932	1033	1083	1134	1236	1287	1415	1492	1570	1647	1724	1802
	NS	462	508	554	601	649	696	745	793	891	941	1040	1090	1140	1241	1292	1419	1495	1571	1648	1725	1802
	PS	553	598	644	690	736	783	830	875	973	1021	1118	1167	1265	1314	1437	1512	1586	1660	1735	1809	
48	JS	533	595	657	719	782	845	908	972	1100	1164	1294	1359	1424	1555	1621	1785	1884	1984	2083	2183	2283
	MS	553	612	670	730	790	850	910	971	1094	1156	1280	1343	1405	1531	1594	1753	1848	1944	2039	2135	2231
	NS	568	626	684	742	801	861	921	981	1102	1163	1286	1348	1410	1535	1597	1754	1849	1944	2038	2134	2229
	PS	670	727	784	841	899	957	1015	1133	1193	1313	1373	1433	1555	1616	1769	1861	1953	2046	2138	2231	
54	NS	750	831	913	995	1078	1161	1244	1328	1496	1581	1751	1837	1923	2095	2181	2398	2528	2659	2789	2920	3052
	PS	873	952	1032	1112	1193	1274	1356	1520	1603	1769	1852	1936	2104	2188	2399	2527	2654	2782	2910	3038	





## MINE DUTY/MILL DUTY DRUM PULLEYS

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

### Benefits

- Exclusive One Piece Rolled-in Crown ensures consistent, proper belt tracking and tighter tolerances

### Construction

- Engineered for the roughest applications, rugged Douglas Mine/Mill Duty Drum Pulleys are intended for use in critical applications where down time must be minimized
- Heavy construction reduces the likelihood of metal fatigue and pulley failure in severe applications minimizing down-time and maintenance
- Full depth weld with reinforcing bar on single longitudinal seam featured on each Douglas Mine Duty/Mill Duty Drum Style Conveyor Pulley
- Crown face pulleys are furnished standard, flat face must be specified
- Douglas hubs feature full depth welds on the inside and outside of the pulley end disk decreasing the likelihood of end disk failure due to shaft deflection and shock loads
- Douglas hubs and bushings are interchangeable with QD® or XT® style



*Douglas Mine Duty Pulley with optional XT® style interchangeable bushing*

### DOUGLAS DRUM IDENTIFICATION

MDL - D24 - C44JS

Mine Drum Dia Crown Face Hub  
Duty Drum Face Width

### Options

- Hot Vulcanized Pulley Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems
- QD® or XT® Hubs & Bushings
- Stainless steel construction available
- Machined face pulleys for close T.I.R. tolerance and better belt tracking
- Optional Douglas Keyless Locking Assemblies available

## SPIRAL DRUM PULLEY

### Benefits

- Promotes self-cleaning by removing material to outside of the pulley
- Helps smooth vibrating belt movement

### Construction

- Basic drum pulley in standard duty, Heavy Duty, Mine Duty or Extreme Duty with helically wound bar flights welded to drum pulley O.D.



WARNING: Douglas Conveyor Pulleys are not intended for use as transmission drive pulleys on high speed applications, nor are they suitable for applications using steel cable belts.



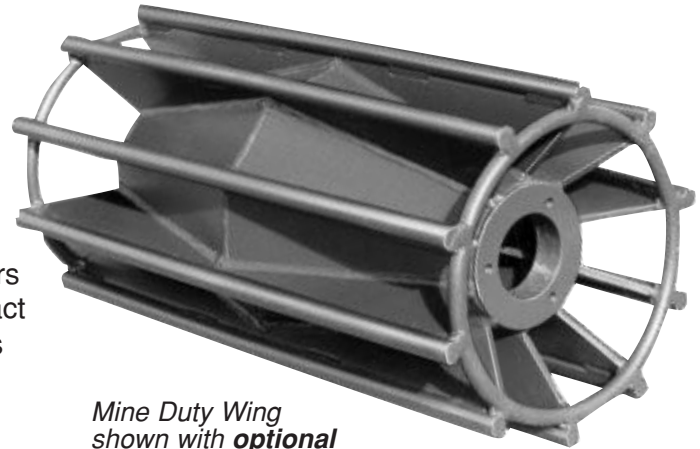
# MINE DUTY/MILL DUTY WING SELF-CLEANING CONVEYOR PULLEYS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Douglas Mine Duty/Mill Duty Wing Style Pulleys feature exclusive minimum 1" solid steel round bars:
  - Increases service life
  - Helps prevent wing folding damage
  - Wear twice as long as other manufacturer's formed flat bar or 1/4 moon bar
  - Protect belt bottom cover from cuts and tears
  - Less belt vibration from smoother belt contact
- Special self-cleaning angle formed by gussets discharges material away from the belt and the pulley face helping to prevent material build up
- Unique design creates a refined motion that helps to dislodge materials from the belt top cover



Mine Duty Wing  
shown with **optional**  
stabilizing rings



## Construction

- Heavy construction of the wings and gussets reduces the likelihood of metal fatigue and pulley failure in severe applications
- Crown face pulleys are furnished standard, flat face must be specified
- Douglas hubs and bushings are interchangeable with QD® or XT® style

## Options

- Hot Vulcanized Wing Pulley Lagging
- Stainless steel construction available
- "AR" abrasion resistant wing tips available
- Optional Douglas Keyless Locking Assemblies available
- Stabilizing Rings
- Shafting
- Bearing Assemblies
- Take-Up Systems

## DOUGLAS WING IDENTIFICATION

MWL-W18 - C38 F

Mine Duty Wing    Dia    Crown Face    Face Width    Hub

CAUTION: Douglas Conveyor Pulleys not suitable for applications using steel cable belts.



# MINE DUTY EXTREME™ DRUM PULLEYS

Unmatched for Durability - 18 Month Warranty Available\*

## Benefits

- Longer uninterrupted service life
- Exclusive One Piece Rolled in Crown in all sizes ensures consistent belt tracking and tighter tolerances.

## Construction

- Minimum 1/2" thick rim
- Full depth weld with reinforcing bar on a single longitudinal seam

## Options

- Hub and end disk machined for QD® or XT® equivalent or keyless locking assembly
- Integral End Disk™ machined for QD® or XT® equivalent Bushing or Keyless Locking Assembly
- Hot vulcanized pulley lagging
- Shafting
- Bearing assemblies
- Take-Up Systems
- Stainless steel construction available
- Machined face pulleys for specific T.I.R. and better belt tracking
- Minimum 3/4" thick Integral End Disk



Mine Duty Extreme™ with optional Integral End Disk™, Keyless Locking Assemblies, Replaceable Rim Lagging®, machined shafting and pillow block roller bearings.

### DOUGLAS DRUM IDENTIFICATION

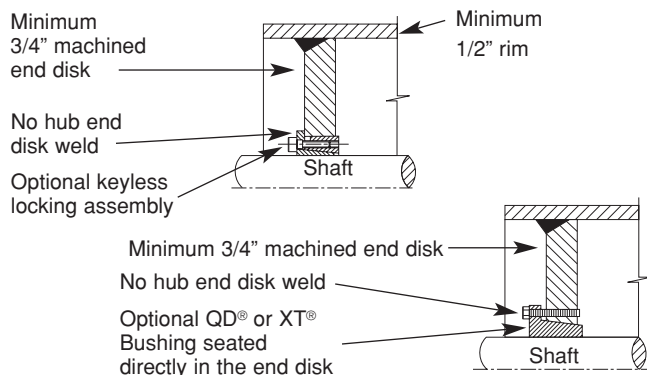
MDI-INTEGRAL  
(Extreme™ Pulley with Integral End Disk™)

MDE-DBQ/H  
(Extreme™ Pulley with QD® or XT® equivalent hubs and bushings)

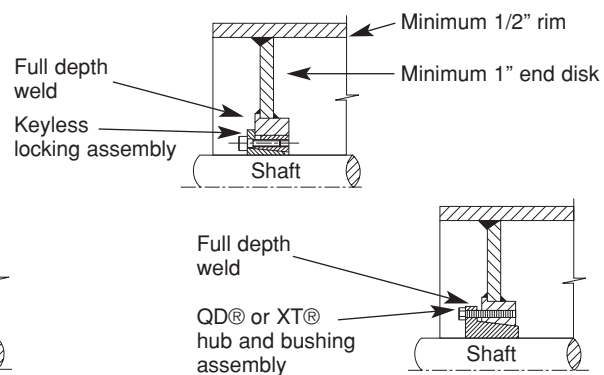
### Warranty

Douglas Manufacturing may, at the request of the customer and at its discretion, warrant a Mine Duty Extreme™ Pulley for 18 months from the date of shipment. Warranty is limited to product credit for original cost of the pulley. Additional terms and conditions apply. Please ask your Douglas Technical Sales Representative for details.

### Mine Duty Extreme™ with optional Integral End Disk™ eliminates chance of hub end disk failure



### Mine Duty Extreme™ with traditional hub end disk configuration



WARNING: Douglas conveyor pulleys are not intended for use as transmission drive pulleys on high speed applications, nor are they suitable for applications using steel cable belts.

CAUTION: Applications using wire mesh belt require flat machined face pulleys.

# MINE DUTY EXTREME™ WING PULLEYS



Unmatched for Durability - 18 Month Warranty Available\*

## Benefits

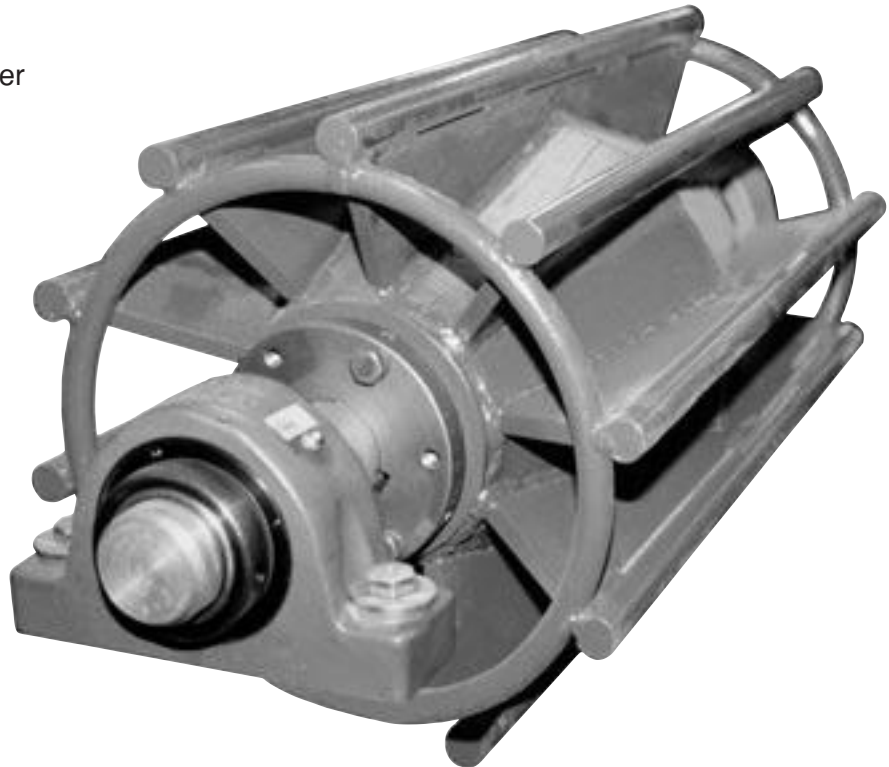
- Maximum life, longer wear
- Helps protect bottom belt cover from cuts and tears
- Less vibration
- Smoother belt contact
- Less metal fatigue
- Improved self cleaning

## Construction

- 1 1/2" diameter solid steel round face bar
- 1/2" thick wings
- 1/4" gussets

## Options

- Hot Vulcanized Wing Pulley Lagging
- Stainless steel construction available
- "AR" abrasion resistant wing tips available
- Optional Douglas Keyless Locking Assemblies available
- Shafting
- Bearing Assemblies
- Take-Up Systems



Mine Duty Extreme™ with standard stabilizing rings, QD® or XT® Equivalent hubs, Bushings, Roller bearing pillow block

Stabilizing rings are standard on Mine Duty Extreme

## DOUGLAS WING IDENTIFICATION

MWE - W18 - C - 38 - F

Mine Duty Extreme with weld on hub  
Wing  
Crown Face  
Face Width  
Hub Bushing

## Warranty

*Douglas Manufacturing may, at the request of the customer and at its discretion, warrant a Mine Duty Extreme™ Pulley for 18 months from the date of shipment. Warranty is limited to product credit for original cost of the pulley. Additional terms and conditions apply. Please ask your Douglas Technical Sales Representative for details.*

Exclusive 1-1/2" diameter round bar wing tips wear 2-1/2 times longer and prevent possibility of belt cover cuts and fabric ply separation caused by flat, square and quarter round tips

Minimum 1/2" wing thickness and "Nev'r Fold" Wing Support Rings™ prevent wing and pulley failure

Increased gusset angle improves self cleaning action resulting in a cleaner running belt with less chance of belt damage



# ENGINEERED CLASS CONVEYOR DRUM PULLEYS

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Engineered to accommodate specific belt tensions
- For use in critical applications where down time must be minimized

## Construction

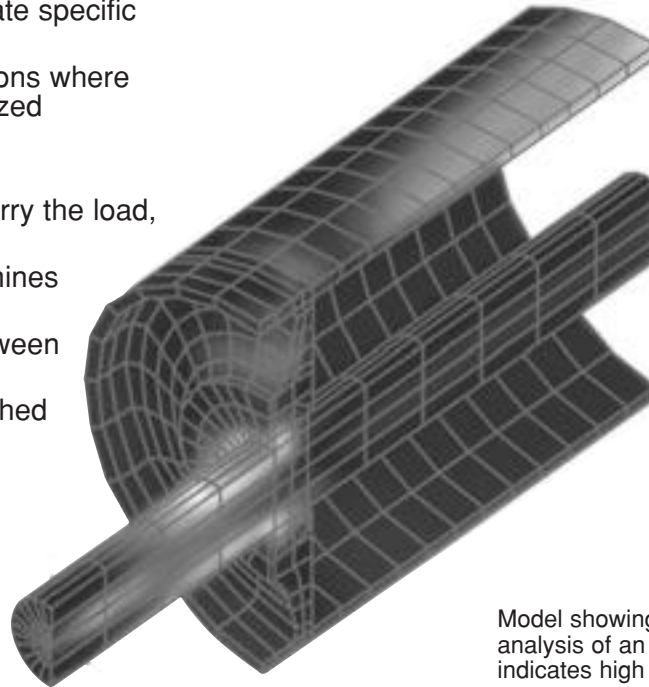
- Rims are engineered to carry the load, no center disc required
- Engineering design determines end disc configuration
- Full penetration welds between rim and end disc
- Flat face pulleys are furnished standard, crown face must be specified
- Machined face pulleys produced to 0.030" TIR
- Statically balanced

## Options

- Machined Hot Vulcanized Pulley Lagging
- Shafting
- Bearing Assemblies
- Take-Up Systems
- Optional Douglas Keyless Locking Assemblies available

## Warranty

- 2 year warranty available



Model showing finite element stress analysis of an engineered class pulley indicates high stress areas and low stress areas

## DOUGLAS DRUM IDENTIFICATION

PDE – Engineered\*

PDE  
Engineered

Douglas Engineered Class pulleys are designed for specific applications such as long overland conveyors, wide belt widths, extreme belt tensions and large shaft diameters.

CAUTION: Applications using steel cable belts require special design pulleys

**GOODYEAR**  
RUBBER PRODUCTS, INC.

+1.727.342.5087

También puede enviarnos un correo electrónico a  
[ventas@goodyearrubberproducts.com](mailto:ventas@goodyearrubberproducts.com)



# HUBS & BUSHING INTERCHANGEABLE WITH QD® STYLE



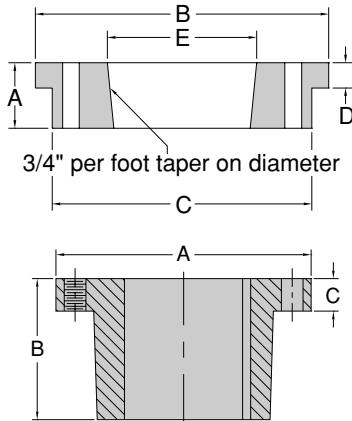
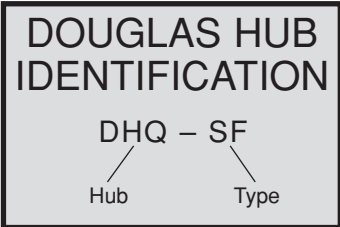
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications



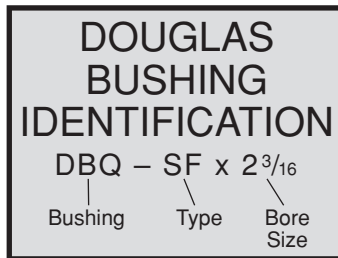
The 3/4" taper per ft. is the optimum amount for maximum gripping of most power transmission shafts. Replacements are available from almost every city in the United States and most countries.

### Benefits

- The biggest advantage of the QD Bushing is its availability
- Adaptable design used in a variety of applications
- Design features
  - 3/4" per foot taper
  - 3 or 4 bolt pattern
  - Employs key stock to prevent pulley from rolling on shaft



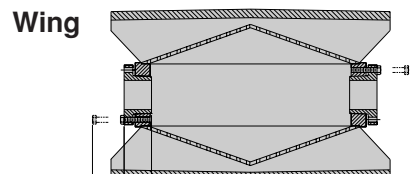
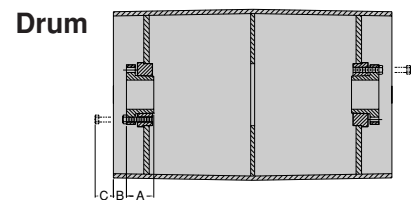
Part Number	A	B	C	D	E	BOLT
DHQ-SH	3/4	3 1/16	2 13/16	3/8	1.874	3@1/4X1-3/8
DHQ-SDS	3/4	3 5/8	3 3/8	3/8	2.190	3@1/4X1-3/8
DHQ-SK	1 1/8	4 3/4	4 3/8	5/8	2.815	3@5/16X2
DHQ-SF	1 1/4	5 1/4	5	5/8	3.128	3@3/8X2
DHQ-E	1 1/2	6 1/2	6 1/4	5/8	3.837	3@1/2X2-3/4
DHQ-F	1 3/4	6 15/16	6 5/8	11/16	4.440	3@9/16X3-5/8
DHQ-JS	2	7 5/8	7 1/4	3/4	5.148	3@5/8X2-1/2
DHQ-MS	2 1/4	9 1/2	9	1	6.499	4@3/4X3
DHQ-NS	2 1/2	10 1/2	10	1	6.995	4@7/8X3-1/2
DHQ-PS	3	12	11 1/2	1	8.245	4@1X4-1/2
DHQ-WS	3 1/2	15 1/4	14 3/4	1	10.442	4@1-1/8X5



Part Number	DBQ Bore Range	DBQ Max Bore w/ Full Key	A	B	C	Cap Screw	Wrench Torque (ft.-lbs.)	Approx. Weight @ Max Full Key (lbs.)
DBQ-SH	1/2-1 5/8	1 3/8	2 11/16	1 5/16	7/16	3(1/4x1 3/8)	9	0.7
DBQ-SDS	1/2-2	1 11/16	3 3/16	1 5/16	7/16	3(1/4x1 3/8)	9	1
DBQ-SK	1/2-2 5/8	2 1/8	3 15/16	1 15/16	9/16	3(5/16x2)	15	2
DBQ-SF	1/2-2 15/16	2 1/2	4 5/8	2 1/16	5/8	3(3/8x2)	30	2.8
DBQ-E	7/8-3 1/2	2 7/8	6	2 3/4	7/8	3(1/2x2 3/4)	60	7.1
DBQ-F	1-4	3 1/4	6 5/8	3 3/4	1	3(9/16x3 5/8)	75	10.6
DBQ-JS	1 1/2-4 1/2	3 1/2	7 1/4	3 3/8	2 15/16	3(5/8x2 1/2)	135	16.6
DBQ-MS	2-5 1/2	4 7/16	9	4 13/16	1 3/16	4(3/4x2 1/2)	225	33.3
DBQ-NS	2 7/16-5 7/8	5	10	6	1 1/2	4(7/8x3 1/2)	300	46.6
DBQ-PS	2 15/16-7	6	11 3/4	6 1/2	1 1/2	4(1x4 1/2)	450	78
DBQ-WS	4-8 1/2	6 1/2	15	7 1/4	1 3/4	4(1 1/8x5)	600	153

## BUSHING LOCATION DIMENSIONS

Part Number	A	B (Drum)	B (Wing)	C (Drum)	C (Wing)
DBQ-SH	1 5/16	7/16	11/16	15/16	11/16
DBQ-SDS	1 5/16	7/16	11/16	15/16	11/16
DBQ-SK	1 15/16	5/16	9/16	1 11/16	1 7/16
DBQ-SF	2 1/16	1/2	3/4	1 1/2	1 1/4
DBQ-E	2 3/4	3/4	1	2	1 3/4
DBQ-F	3 3/4	11/16	15/16	2 15/16	2 11/16
DBQ-JS	3 3/8	9/16	13/16	1 15/16	1 11/16
DBQ-MS	4 13/16	1 1/8	1 3/8	1 7/8	1 5/8
DBQ-NS	6	1 1/4	1 1/2	2 1/4	2
DBQ-PS	6 1/2	1 1/16	1 5/16	3 7/16	3 3/16
DBQ-WS	7 1/4	1 7/8	2 1/8	3 1/8	2 7/8







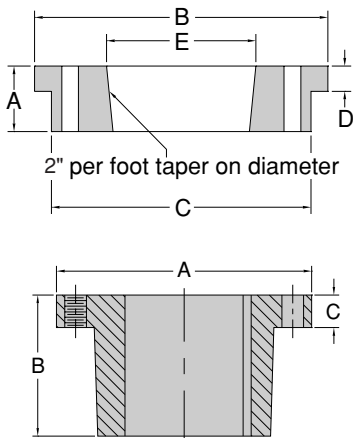
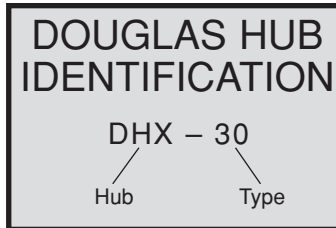
# HUBS & BUSHINGS INTERCHANGEABLE WITH XT® STYLE

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

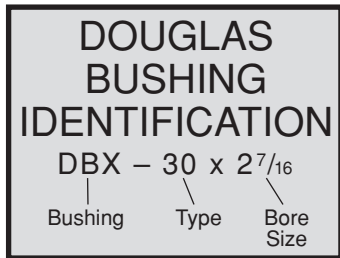
The 2" taper per ft. is the optimum amount for maximum gripping of most power transmission shafts. Replacements are available from almost every city in the United States and most countries.

### Benefits

- The biggest advantage of the XT® bushing is that it is designed specifically for conveyor pulleys
- Design features
  - 2" per foot taper
  - 4, 6 or 8 bolt pattern
  - Also employs key stock to prevent pulley from rolling on shaft



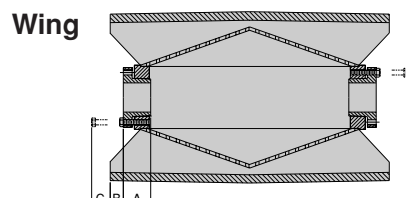
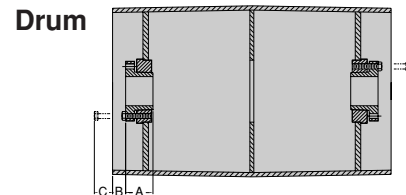
Part Number	A	B	C	D	E	BOLT
DHX-15	5/8	3 3/16	2 7/8	3/16	2	4(1/4x1 3/8)
DHX-20	13/16	4 1/16	3 13/16	1/4	2 11/16	4(5/16x2)
DHX-25	1 1/8	4 11/16	4 3/8	5/16	3 3/16	4(3/8x2)
DHX-30	1 1/4	5 15/16	5 3/4	3/8	3 7/8	4(7/16x2)
DHX-35	1 1/2	6 9/16	6 11/32	7/16	4 11/16	4(1/2x2 3/4)
DHX-40	1 3/4	7 9/16	7 1/4	1/2	5 5/16	4(9/16x3 5/8)
DHX-45	2 1/8	8 5/16	8	5/8	5 15/16	4(5/8x2 1/2)
DHX-50	2 1/2	9 15/16	9 9/16	3/4	7 1/4	4(3/4x3)
DHX-60	2 3/4	11 11/16	11 1/4	13/16	8 5/8	4(7/8x3 1/2)
DHX-70	3 1/8	13 5/8	13 3/16	15/16	10	4(1x4 1/2)
DHX-80	3 7/16	14 15/16	14 5/8	1.000	11 1/8	4(1 1/8x5)
DHX-100	4 1/8	17 15/16	17 1/2	1 1/8	13 11/16	6(1 1/8x5)
DHX-120	4 13/16	20 15/16	20 1/2	1 5/16	16 3/16	8(1 1/8x5)



Part Number	DBX Bore Range	DBX Max Bore w/ Full Key	A	B	C	Cap Screw	Wrench Torque (ft.-lbs.)	Approx. Weight @ Max Full Key (lbs.)
DBX-20	3/4-2	1 11/16	3 3/4	1 13/32	15/32	4(5/16x2)	17	2
DBX-25	1-2 7/16	2 3/16	4 7/16	1 7/8	5/8	4(3/8x2)	30	3
DBX-30	1 7/16-2 15/16	2 11/16	5 5/16	2 1/16	11/16	4(7/16x2)	46	4
DBX-35	1 15/16-3 7/16	2 15/16	6 5/16	2 15/32	25/32	4(1/2x2 3/4)	70	7
DBX-40	2 7/16-3 15/16	3 7/16	7 1/8	2 13/16	7/8	4(9/16x3 5/8)	100	11
DBX-45	3 7/16-4 7/16	3 15/16	8	3 5/16	15/16	4(5/8x2 1/2)	140	16
DBX-50	3 15/16-4 15/16	4 7/16	10 1/8	3 3/4	1	4(3/4x3)	250	25
DBX-60	5 7/16-6	5 1/2	11 15/16	4 1/8	1 1/8	4(7/8x3 1/2)	400	36
DBX-70	6 7/16-7	6 1/2	13 15/16	4 11/16	1 5/16	4(1x4 1/2)	600	58
DBX-80	7 1/2-8	7 1/2	15 5/8	5 1/8	1 3/8	4(1 1/8x5)	750	76
DBX-100	8 1/2-10	9	17 15/16	6 3/16	1 9/16	6(1 1/8x5)	750	145

## LOCATION DIMENSIONS

Part Number	A	B (Drum)	B (Wing)	C (Drum)	C (Wing)
DBX-15	1 1/8	7/16	11/16	15/16	11/16
DBX-20	1 13/32	7/16	11/16	15/16	11/16
DBX-25	1 7/8	5/16	9/16	1 11/16	1 7/16
DBX-30	2 1/16	1/2	3/4	1 1/2	1 1/4
DBX-35	2 15/32	3/4	1	2	1 3/4
DBX-40	3 13/16	11/16	15/16	2 15/16	2 11/16
DBX-45	3 5/16	9/16	13/16	1 15/16	1 11/16
DBX-50	4 3/4	1 1/8	1 3/8	1 7/8	1 5/8
DBX-60	4 1/8	1 1/4	1 1/2	2 1/4	2
DBX-70	4 11/16	1 1/4	1 1/2	2 1/4	2
DBX-80	5 1/8	1 7/8	2 1/8	3 1/8	2 7/8
DBX-100	6 3/16	1 1/16	1 5/16	3 7/16	3 3/16
DBX-120	7 1/16	1 7/8	2 1/8	3 1/8	2 7/8



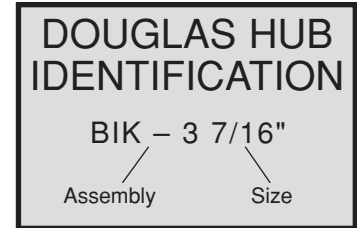
# KEYLESS LOCKING ASSEMBLY



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications



Proper selection of the correct shaft connector and the correct class of pulley will provide a significant increase in service life saving lost work time, reduced maintenance costs and improved levels of overall efficiency.



Available in most standard power transmission shaft sizes from 3/4" to 20" and metric sizes from 20mm to 600mm.

### Benefits

- The most efficient mechanism for securing a pulley to a shaft
- No key seat required – saves machining and allows infinite positioning of the pulley on the shaft as well as increasing the strength of the shaft by maintaining shaft integrity
- Frictional connection allows for higher bending moment that allows the end disc to match the shaft deflection offering a higher service factor
- Provides interference fit after multiple high strength screws are tightened
- Release of screws restores initial clearance and allows easy dismounting
- Proven design dramatically increases conveyor uptime when coupled with correct pulley class and properly selected shaft size

### PULLEY SELECTION DATA SHEET

Help to eliminate pulley performance problems and simplify the selection process by allowing the professionals at Douglas to select the correct pulley for your application. Simply complete the data sheet below and we will analyze, select and quote the proper pulley for you.

**TOLL FREE FAX: 877-884-1206 OR 205-884-1206.**

Your Name \_\_\_\_\_ Date \_\_\_\_\_  
 Company Name \_\_\_\_\_ Tel # \_\_\_\_\_  
 Address \_\_\_\_\_ FAX \_\_\_\_\_  
 Project \_\_\_\_\_

### CONVEYOR DATA & SPECIFICATIONS

Belt:  Fabric  Steel Cable  
 Other \_\_\_\_\_  
 Belt Width \_\_\_\_\_ in.  
 Take Up:  Mechanical  Gravity  
 Hydraulic  Other \_\_\_\_\_  
 Drive Motor: HP \_\_\_\_\_  
 Belt Speed: \_\_\_\_\_  
 FPM Capacity: \_\_\_\_\_  
 Tons Per Hour: \_\_\_\_\_  
 Center to Center Distance: \_\_\_\_\_  
 Lift in Feet: \_\_\_\_\_  
 Delivery Requested: \_\_\_\_\_

Conveyor Number					
Pulley Location (Drive, Tail, Take-up, Bend)					
Pulley Quantity					
Pulley Type (Drum or Wing)					
Diameter x Face					
Crown or Flat Face					
Lagging Thickness – Type of Grooves					
Shaft Diameter through Pulley					
Shaft Diameter through Bearing					
Shaft Diameter at Drive					
Shaft Length					
Number of Keyseats					
Drive Type (Sprocket, Coupling, Shaft Mount Reducer, etc.)					
Bearing Centers					
Arc of Contact _____ °					
T <sub>1</sub> _____ Lbs.					



# HOT VULCANIZED PULLEY LAGGING AND RUBBER COATED PRODUCTS



Hot Vulcanized Drum Pulley Lagging .....	22
Bulldog Tough Ceramic Lagging .....	22
Weld-On Replaceable Rim Lagging™ .....	23
Bolt-On Replaceable Rim Lagging™ .....	24
High Impact Replaceable Wing Lagging™ .....	25



# HOT VULCANIZED DRUM PULLEY LAGGING

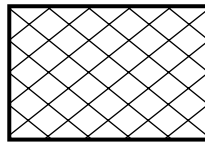
Douglas can clean and relag any manufacturer's pulley, saving both time and money\*

## Benefits

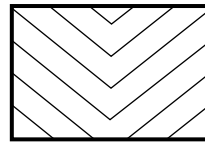
- Douglas **truck tire tough** conveyor pulley lagging increases the traction between the belt bottom cover and the pulley face, reducing belt slippage
- Douglas conveyor pulley lagging protects the pulley face in abrasive conditions and extends pulley service life providing trouble-free service

## Construction

- All standard pulley lagging is hot vulcanized in our plant to strict tolerances and the highest industry standards
- Available as standard in 1/4", 3/8", 1/2" and 3/4" thickness\*
- Available in a wide range of finishes:
  - Standard Plain Wrap
  - Cloth Impression(LPL)
  - Herringbone/Chevron Groove (LHG)
  - Diamond Groove Pattern (LDG)
  - Machine Finish (LGM)



Diamond Groove



Herringbone/Chevron Groove



## Options

- Available in a wide range of materials:
  - SBR/Natural Compound standard
  - Oil Resistant Compound
  - Nitrile
  - Neoprene
  - EPDM (Ethylene-Propylene)
  - MSHA
  - SCOF (Static Conductive Oil Resistant Fire Retardant)
  - Tan Non Marking Neoprene (FDA certified available on request)

**DOUGLAS LAGGING IDENTIFICATION**

LHG – 1/2 – 10 X 26

Type of Material Pulley Face  
Finish Thickness Diameter Width

Material	Temperature Rating	Service Conditions for general reference only
SBR/Natural	200°F	General Purpose, Suitable for Most Applications
Oil Resistant	200°F	Oil, Low Heat, Some Chemicals
Nitrile	225°F	Max Oil Resistant, Low-Moderate Heat
Neoprene	250°F	Flame Resistant, Disintegrates in Presence of Flame
EPDM	300°F	Semi-Moderate Heat, Chemical Resistant
SCOF	200°F	Low Heat, Explosion, Oil and Fire Resistant
Tan Neoprene	250°F	Low to Semi-Moderate Heat, Food Grade Applications

\*If your application requires a tolerance for exact rubber thickness, exact concentricity, or a crown face with industry standard tolerance, you must specify machined crown lagging along with the rubber thickness. Hypalon and Viton are registered trademarks of Dupont Dow Elastomers.

# BULLDOG TUFF™ CERAMIC LAGGING

## Benefits

- Delivers increased traction over conventional lagging, improving belt tracking and reducing damage to belt edges
- Virtually eliminates belt slippage
- Superior drive tension allows lower belt tension increasing belt, bearing and pulley life
- Better traction in muddy and wet applications, easily sheds water and dirt

## Construction

- 5/8" overall thickness Truck Tire Tough™ Rubber with raised ceramic tiles permanently molded in Rubber runners

Not for use with slider bed belts or bare back belts.



**DOUGLAS LAGGING IDENTIFICATION**

CML – 24 X 38

Ceramic Pulley Face



# WELD-ON REPLACEABLE RIM LAGGING®



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Fits all standard manufacturers' crown face drum pulleys
- RRL® comes in engineered pre-sized sets of 2 to 5 sections
  - Crown face standard
  - Saves up to 70% on labor
  - Fewer sections, less welds, more belt to pulley contact
  - No layout necessary
  - No cutting necessary; eliminates waste and scrap pieces
- Order weld-on RRL® with a new pulley and Douglas will install it free of labor charge
- Reduce conveyor downtime and pulley installation/removal cost
- Heavy steel backing plate with rolled in crown and **truck tire tough** 1/2" SBR/Natural rubber revitalizes old pulleys and adds years of service life
- Improve traction capacity of any pulley with Douglas RRL®
- Easy-on easy-off principle means that Douglas RRL® may be installed in the field without removing the pulley or the conveyor belt
- Minimum gap between segments means unequaled belt to pulley contact and more traction



## Construction

- All standard lagging is hot vulcanized in our plant to strict tolerances and the highest industry standards
- Diamond groove standard

## Options

- Optional Herringbone/Chevron groove or plain wrap cloth impression available
- Available in the same range of materials as Douglas conveyor pulley lagging
- Available with stainless steel backing plate

## Installation

1. Follow all OSHA, state and owner safety procedures. Lock-out, tag-out all equipment before servicing, **never, never** operate, adjust or install equipment on a moving conveyor.
2. Clean pulley face of dirt and buildup.
3. Place first rim segment on pulley. Hold in place with welder's clamps each end.
4. It may be necessary to pull the middle down with chain. Be sure each segment fits snug against face (prevents segment flexing and weld fatigue).
5. Tack in middle and both ends of pulley rim. Tack 1" long every 6" across pulley face.
6. Place second rim segment on pulley with approximately 3/16" to 1/4" gap between first rim segment. Tack weld same manner.

## DOUGLAS LAGGING IDENTIFICATION

RRL - DC - 12X26

Replaceable Rim Lagging    Diamond Groove    Crown Face    Dia.    Face Width

## TO ORDER – DETERMINE DIAMETER AND FACE WIDTH

Replaceable Rim Lagging comes in sets for each pulley. To order you only need to give the diameter **first**, then the face width. We will furnish the number of segments needed to lag your pulley.

Our standard rubber is a high grade of rubber, diamond grooved giving excellent traction ability. We also supply plain non-grooved lagging and fire and oil resistant static conducting M.S.H.A. style rubber.

**As a pulley manufacturer we can supply you with a drum or wing pulley assembly** complete with replaceable rim lagging and shaft. Bearings can also be mounted if needed. This assembly can save you many field assembly hours.

## WELD-ON REPLACEABLE RIM LAGGING® DIMENSIONS

Diameter	8	10	12	14	16	18	20	24	30	36	42	48
Weight PIL	1.47	1.74	2.09	2.44	2.80	3.48	3.63	4.18	5.23	6.28	7.33	8.37



# BOLT-ON REPLACEABLE RIM LAGGING®

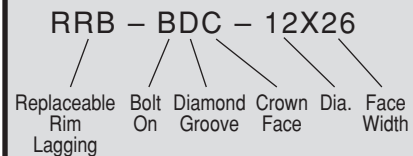
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Fits all standard manufacturers' crown face drum pulleys
- RRL® comes in engineered pre-sized sets of 2 to 5 sections
  - Crown face standard
  - Saves up to 70% on labor
  - Fewer sections, less welds, more belt to pulley contact
  - No layout necessary
  - No cutting necessary
- Order Bolt-On RRL® with a new pulley and Douglas will install it free of labor charge
- Reduce conveyor downtime and pulley installation/removal cost
- Ideally suited for severe applications
- Heavy steel backing plate with rolled in crown and **truck tire tough** 1/2" SBR/Natural rubber revitalizes old pulleys and adds years of service life
- Improve traction capacity of any pulley with Douglas Bolt-On RRL®
- Easy-on easy-off principle means that Douglas RRL® may be installed in the field without removing the pulley or the conveyor belt
- Minimum gap between segments means unequaled belt to pulley contact and more traction



## DOUGLAS LAGGING IDENTIFICATION



## Construction

- All standard lagging is hot vulcanized in our plant to strict tolerances and the highest industry standards
- Diamond groove standard

## Options

- Optional Herringbone/Chevron groove or plain wrap cloth impression available
- Available in the same range of materials as Douglas conveyor pulley lagging
- Available with stainless steel backing plate

## Installation

1. Follow all OSHA, state and owner safety procedures. Lock-out, tag-out all equipment before servicing, **never, never** operate, adjust or install equipment on a moving conveyor.
2. Clean pulley face of dirt and buildup.
3. Place first rim segment on pulley. Hold in place with welder's clamps each end.
4. It may be necessary to pull the middle down with chain. Be sure each segment fits snug against face (prevents segment flexing and weld fatigue).
5. Drill holes in pulley rim using holes in segments as template.
6. Bolt segments to pulley face.

TO ORDER – See Preceding Page



## GRAIN ELEVATOR APPLICATIONS

NOTE: If the BOLT ON method is chosen because of fire hazard or grain elevator safety requirements, we do have available static conducting and/or MSHA style rubber compounds. Please specify when required. *Size, weight and rubber specifications same as on Weld-On.*

## BOLT-ON REPLACEABLE RIM LAGGING® DIMENSIONS

Diameter	8	10	12	14	16	18	20	24	30	36	42	48
Weight PIL	1.47	1.74	2.09	2.44	2.80	3.63	3.48	4.18	5.23	6.28	7.33	8.37

# HIGH IMPACT REPLACEABLE WING LAGGING®



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Douglas High Impact Replaceable Wing Lagging (RWL)® prevents damage from occurring on the belt bottom cover
- Repair and rebuild wing pulley at your shop
- Order one complete set of RWL® for your specific diameter and face width
- Crown face for improved belt tracking
- Easy on - easy off principle means Douglas RWL® may be changed as needed in the field without removing the conveyor belt and pulley
- No cutting or pulley layout
- Increases wing life up to 5 times
- Heavy steel frame helps prevent wing folding

## Construction

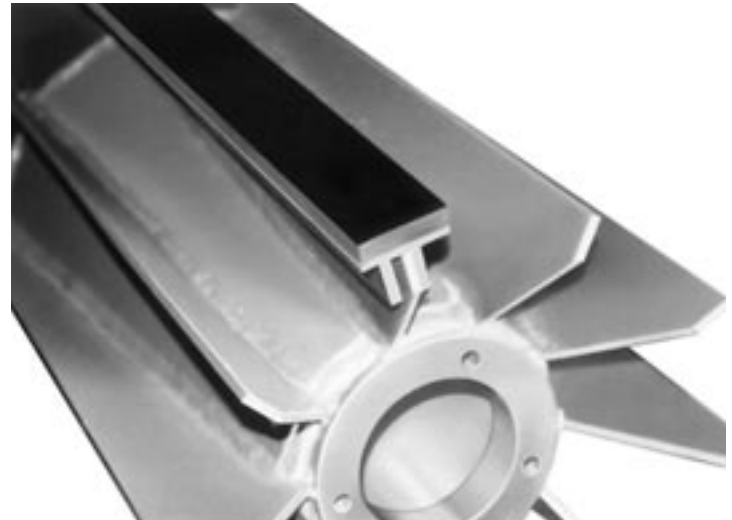
- All standard wing pulley lagging is hot vulcanized in our plant to strict tolerances and the highest industry standards
- 1/2" thick SBR/Natural compound standard
- Heavy gauge steel "saddle type" mounting system provides long and trouble free service with quick and easy replacement

## Options

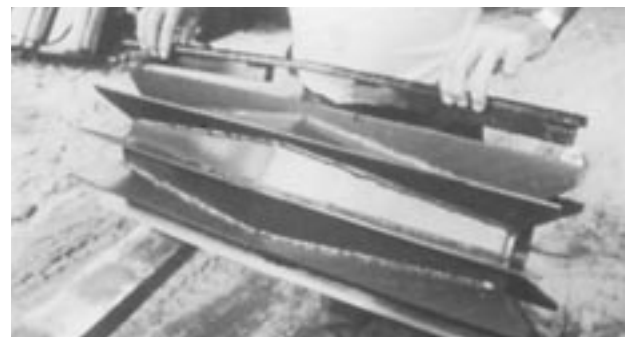
- 1/2" thick urethane available on request
- Douglas can provide High Impact Replaceable Wing Lagging® to rebuild any manufacturers' pulley, saving time and money

## Installation

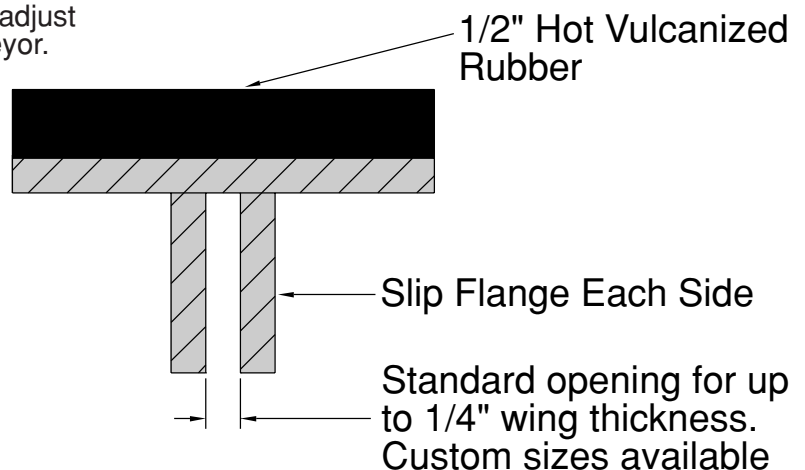
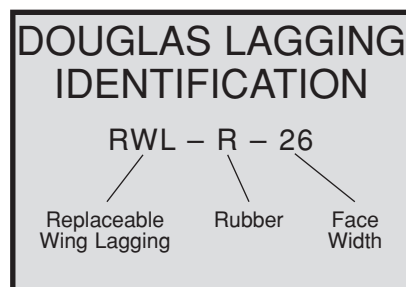
1. Follow all OSHA, state and owner safety procedures. Lock-out, tag-out all equipment before servicing, **never, never** operate, adjust or install equipment on a moving conveyor.
2. Clean old face bar from wings
3. Slip RWL bar over wing fin edge
4. Tack weld both sides of slip flange



1/2" thick SBR/natural compound extends pulley life and helps protect belt from premature wear



In field fitting of Replaceable Wing Lagging®



## STANDARD NUMBER OF WINGS

Diameter	10	12	14	16	18	20	24	30	36
----------	----	----	----	----	----	----	----	----	----

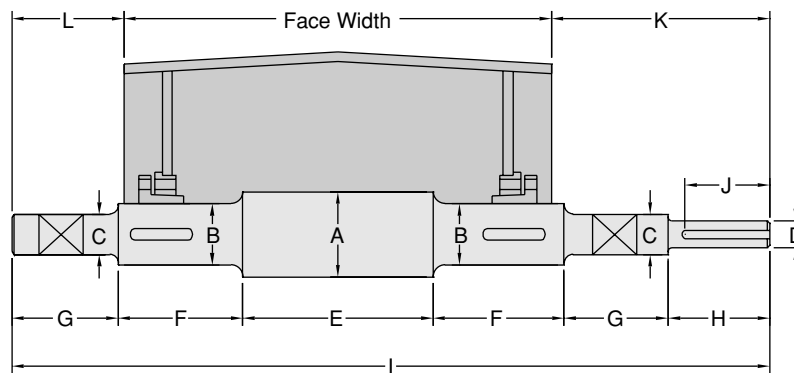


# MACHINED SHAFTING

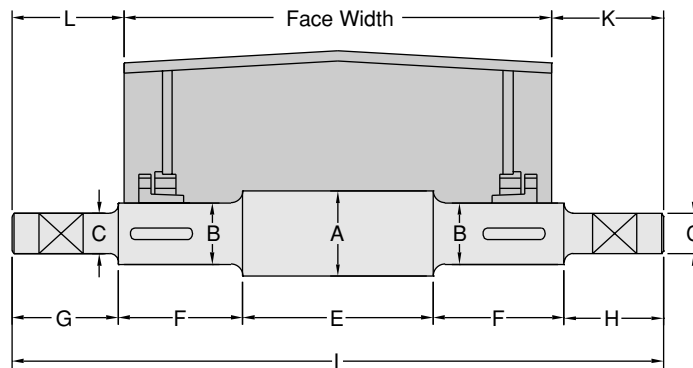
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

Douglas can provide machined shafting produced to customer specifications. Douglas Manufacturing utilizes the most technologically advanced CNC Computer Controlled Equipment to produce shafting that is unparalleled in quality. This technology, coupled with the professionals at Douglas, allows adherence to the tightest tolerances. Douglas shafting is available in a wide variety of materials. Cold Rolled 1018 and Cold Rolled 1045 are the standard shafting materials used at Douglas. TG&P shafting, 4140, Hot Rolled and others are available as specified by customer requirements.

To order simply fill out the dimensions below or provide us with the bushing style, number of keyways, shaft diameter, shaft length (I), Shaft extension from both sides of the pulley (K & L), and drive keyway (J).



Typical Drive Pulley Shaft



Typical Non-Drive Pulley Shaft

A _____	B _____	C _____
D _____	E _____	F _____
G _____	H _____	I _____
J _____	K _____	L _____

Specify material \_\_\_\_\_

WARNING: Douglas Pulleys are not intended for use as transmission drive pulleys on high speed applications, nor are they designed for applications using steel cable belts.



# CONVEYOR PULLEY ASSEMBLIES

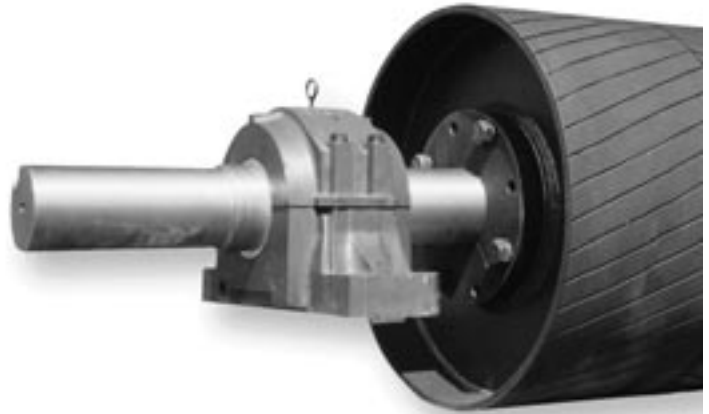


Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

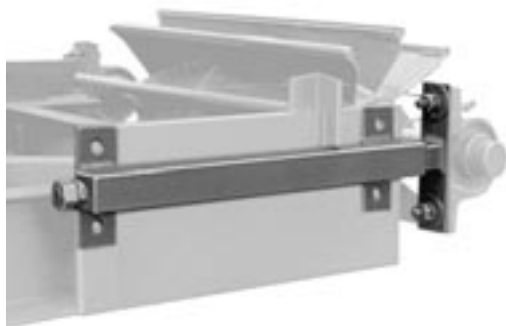
Douglas Manufacturing offers professionally designed, manufactured and assembled conveyor pulley assemblies which help to eliminate field assembly errors and reduce installation, time and expense.

Douglas Conveyor Pulley Assemblies May Consist of:

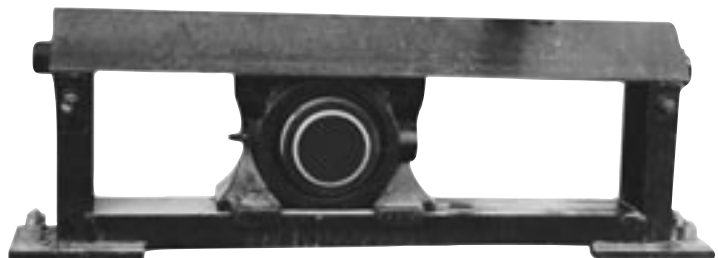
- Shafting Machined to Customer Specifications
  - Bushing Keyways
  - Drive Keyways
  - Turn Downs
  - Drilled and Tapped for Speed Switches
  - Chamfers
- Conveyor Pulley Lagging in a Wide Range of Materials and Finishes
- Pillow Block Bearings Mounted on the Shaft
  - Ball Bearings
  - Roller Bearings
  - Split Housings
- Take-Up Systems Complete with Bearings (Optional)
  - Slide Tube
  - Top Angle
  - Top Mount Saddle Type
  - Center Pull
  - Scissor Pivot Gravity



*Mine duty/Mill duty pulley complete with vulcanized herringbone lagging, machined drive shaft and split housing roller bearing pillow blocks.*



*Standard heavy duty wing pulley with machined shaft, slide tube take-up and ball bearing pillow blocks*



*Top angle protected screw take-up with top angle take-up bearing (optional)*

WARNING: Douglas Pulleys are not intended for use as transmission drive pulleys on high speed applications, nor are they designed for applications using steel cable belts.



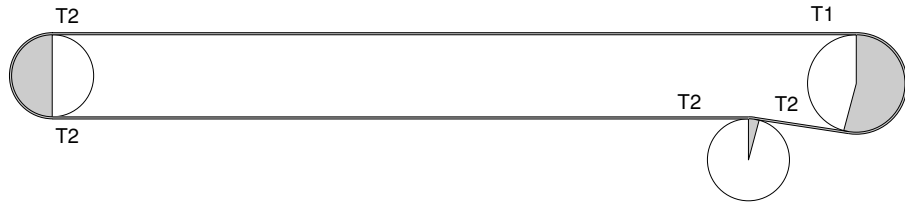


# PULLEY AND SHAFT SELECTION

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## EXAMPLE:

Conveyor Length: 150'  
Belt width: 36"  
Belt speed: 400 FPM  
Design capacity: 1000 TPH  
Motor horse power: 50HP  
3 Ply, 330 PIW belting  
Bearing center: 48"  
Lagging head pulley  
Manual take-up



	Pulley and Shaft Selection Procedure	Example
1	Determine Effective Tension $T_e$ $T_e = \frac{HP \times 33,000}{FPM}$	$T_e = \frac{50 \times 33,000}{400} = 4125$
2	Determine Tight Side Tension $T_1$ and Slack Side Tension $T_2$ Select K factor from Table 1. $T_2 = K \times T_e$ , $T_1 = T_2 + T_e$	From Table 1., $K=0.7$ $T_2=4125 \times 0.7=2888$ $T_1=4125+2888=7013$
3	Determine Resultant Load R For drive pulley, $R = \sqrt{T_1^2 + T_2^2 - 2T_1T_2 \cos(\text{WrapAngle})}$ For non-drive pulley, $R = \sqrt{T_2^2 + T_2^2 - 2T_2T_2 \cos(\text{WrapAngle})}$	Drive pulley: $R = \sqrt{7013^2 + 2888^2 - 2 \times 7013 \times 2888 \times \cos 210^\circ} = 9623$ Tail pulley: $R = \sqrt{2888^2 + 2888^2 - 2 \times 2888 \times 2888 \times \cos 180^\circ} = 5776$ Snub pulley: $R = \sqrt{2888^2 + 2888^2 - 2 \times 2888 \times 2888 \times \cos 30^\circ} = 1495$
4	Determine Pulley Diameter Based On Belt Tension Drive pulley, $PIW = \frac{T_1}{\text{BeltWidth}}$ , $\text{Tension\%} = \frac{PIW}{\text{BeltTensionRating}}$ Non-drive pulley $PIW = \frac{T_2}{\text{BeltWidth}}$ , $\text{Tension\%} = \frac{PIW}{\text{BeltTensionRating}}$	Drive pulley: $PIW = \frac{7013}{36} = 195$ , $\text{Tension\%} = \frac{195}{3 \times 120} = 54\%$ Tail pulley: $PIW = \frac{2888}{36} = 80$ , $\text{Tension\%} = \frac{80}{3 \times 120} = 22\%$ Snub pulley: $PIW = \frac{2888}{36} = 80$ , $\text{Tension\%} = \frac{80}{3 \times 120} = 22\%$
5	Select minimum pulley required from Table 2.A (use Table 2.B for wing pulley) with PIW and wrap angle. Select minimum pulley diameter from Table 3 with Tension%. Final minimum pulley diameter will be the larger one of those two diameters selected above.	From Table 2. From Table 3. Final selection Drive pulley: 20" diameter 16" diameter 20" diameter Tail pulley: 8" diameter 16" diameter 16" diameter Snub pulley: 14" diameter 16" diameter 16" diameter
6	Determine pulley face width from Table 4.	From Table 4. pulley face width=38"
7	Determine shaft diameter from Table 7.A (use Table 7.B for wing pulley), based on resultant load and bearing centers minus pulley face width.	From Table 7.A Drive pulley: 3-15/16", Tail pulley: 3-7/16", Snub pulley: 2-7/16"
8	Determine Shaft Diameter Select shaft diameter based on bending and torsional stresses*, $Dia = \sqrt[3]{\frac{32FS}{\pi} \sqrt{\left(\frac{M}{S_f}\right)^2 + \frac{3}{4}\left(\frac{T}{S_y}\right)^2}}$ where FS=1.5 $S_f = .7176K_b K_f S_f^*$ $K_b$ =Size factor in Table 5 $K_f$ =Fatigue stress concentration factor in Table 6 $S_f^* = 29,000$ psi for C1018 41,000 psi for C1045 47,500 psi for C4140 (annealed) $S_y = 32,000$ psi for C1018 45,000 psi for C1045 60,500 psi for C4140 (annealed) $M = \frac{R \times A}{2}$ , see Table 5 for A $T = T_e \times r$ , where $r$ = pulley radius, $T_e = 0$ for non-drive pulley	Drive pulley: $\sqrt[3]{\frac{32 \times 1.5}{\pi} \sqrt{\left(\frac{9623 \times 7.75}{2}\right)^2 + 0.75 \times \left(\frac{4125 \times 10}{45000}\right)^2} = 3.7258 < 3-15/16$ Tail Pulley: $\sqrt[3]{\frac{32 \times 1.5}{\pi} \sqrt{\left(\frac{5776 \times 7.5}{2}\right)^2 + 0.75 \times \left(\frac{0 \times 10}{45000}\right)^2} = 3.0531 < 3-7/16$ Snub Pulley: $\sqrt[3]{\frac{32 \times 1.5}{\pi} \sqrt{\left(\frac{1495 \times 6.625}{2}\right)^2 + 0.75 \times \left(\frac{0 \times 10}{45000}\right)^2} = 1.8267 < 2-7/16$
9	Final selection Select the bigger shaft diameter between step 7 and step 8.	Final pulley and shaft selection Drive pulley: 20" diameter x 38" face width, 3-15/16" shaft diameter Tail pulley: 16" diameter x 38" face width, 3-7/16" shaft diameter Snub pulley: 16" diameter x 38" face width, 2-7/16" shaft diameter

\* No overhung load included. Consult DOUGLAS for drives with overhung load.

# Consult belt manufacturer for belting other than multiple-ply.

# ENGINEERING DATA FOR DOUGLAS PULLEYS



Table 1 K Factor

Type of Drive	Arc of Contact	Automatic Take Up		Manual Take Up	
		Bare	Lagged	Bare	Lagged
Plain	180	0.84	0.50	1.2	0.8
Snubbed	200	0.72	0.42	1.0	0.7
	210	0.66	0.38	1.0	0.7
	220	0.62	0.35	0.9	0.6
	240	0.54	0.30	0.8	0.6
Dual or Tandem	380	0.23	0.11	0.5	0.3
	420	0.18	0.08	-	-

Table 2.B Maximum Belt Tension (Wing Pulley)

Diameter	PIW	Diameter	PIW
8	80	18	180
10	100	20	200
12	120	24	240
14	140	30	280
16	160	36	350

Table 2.A Maximum Belt Tension for Drum Pulley (Pounds Per Inch of Width)

Arc of Contact	Pulley Diameter (inches)														
	8	10	12	14	16	18	20	24	30	36	42	48	54	60	
10	65	80	95	120	145	175	205	260	345	430	520	605	690	775	
20	50	60	75	95	115	135	160	200	265	335	400	465	535	600	
30	45	55	65	80	100	115	140	175	230	290	345	405	460	520	
40	35	45	55	70	85	100	120	150	200	245	295	345	395	445	
50	30	40	45	60	70	85	100	130	170	215	255	300	340	385	
60	30	40	45	60	70	85	100	125	165	205	250	290	330	375	
70	30	40	50	60	75	85	105	130	175	220	260	305	350	395	
80	35	45	50	65	80	95	115	140	190	235	285	330	375	425	
90	35	45	55	70	85	100	120	150	200	255	305	355	405	455	
100	40	50	60	75	90	110	130	160	215	270	325	380	430	485	
110	45	55	65	80	100	115	140	175	230	290	345	405	460	520	
120	45	55	65	85	105	120	145	185	245	305	365	425	490	550	
130	50	60	75	95	115	135	160	200	265	335	400	465	535	600	
140	55	70	80	105	125	150	180	225	300	375	450	525	600	675	
150	60	75	90	115	140	170	200	250	335	420	505	590	670	755	
160	70	85	100	130	160	185	225	280	375	465	560	650	745	840	
170	75	95	115	145	175	205	250	310	415	520	620	725	830	930	
180	85	105	125	160	195	230	275	345	460	575	690	805	920	1035	
190	75	95	115	145	175	205	250	310	415	520	620	725	830	930	
200	70	85	100	130	160	185	225	280	375	465	560	650	745	840	
210	60	75	90	115	140	170	200	250	335	420	505	590	670	755	
220	55	70	80	105	125	150	180	225	300	375	450	525	600	675	
230	50	60	75	95	115	135	160	200	265	335	400	465	535	600	
240	45	55	65	85	105	120	145	185	245	305	365	425	490	550	

Table 3 Minimum Pulley Diameter for Multiple-Ply Belt

Ply tension rating	35			43, 50			60, 70, 90, 120			155			195, 240		
	Tension %			Tension %			Tension %			Tension %			Tension %		
	80 to 100	60 to 80	40 to 60	80 to 100	60 to 80	40 to 60	80 to 100	60 to 80	40 to 60	80 to 100	60 to 80	40 to 60	80 to 100	60 to 80	40 to 60
No. of plies	100	80	60	100	80	60	100	80	60	100	80	60	100	80	60
3	18	14	12	20	18	14	24	20	16	30	24	20	36	30	24
4	20	18	16	24	20	18	30	24	20	36	30	24	42	36	30
5	24	20	18	30	24	20	36	30	24	42	36	30	48	42	36
6	30	24	20	36	30	24	42	36	30	48	42	36	54	48	42
7	36	30	24	42	36	30	48	42	36	54	48	42	60	54	48
8	42	36	30	48	42	36	54	48	42	60	54	48	66	60	54

Table 4 Pulley Face Width

Belt Width	6	8	10	12	14	16	18	24	30	36	42	48	54	60
Pulley Width	8	10	12	14	16	18	20	26	32	38	44	51	57	63

Table 5  $K_b$  and A  $N = 1/2$  (Bearing Center — Pulley Face Width)

Diameter	1-3/16	1-7/16	1-15/16	2-3/16	2-7/16	2-11/16	2-15/16	3-7/16	3-15/16	4-7/16
$K_b$	.9679	.9334	.8819	.8618	.8443	.8288	.8149	.7909	.7707	.7534
A	N+1-5/8	N+1-5/8	N+1-5/8	N+1-5/8	N+1-5/8	N+1-3/4	N+1-3/4	N+2-1/2	N+2-3/4	N+3
Diameter	4-15/16	5-7/16	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2
$K_b$	.7383	.7249	.7115	.7007	.6909	.6819	.6736	.6659	.6587	.6520
A	N+3-1/4	N+4-1/2	N+4-1/2	N+5	N+5	N+5-1/4	N+5-1/4	N+6-1/4	N+6-1/4	N+6-1/4

Table 6  $K_f$

Steel	Profiled Keyway	Sled Runner Keyway
Annealed	0.63	0.77



# LOAD RATING FOR WING PULLEY AND SHAFT

Table 7.B Load Rating (Pounds) for Douglas Wing Pulley and Shaft Combinations

Shaft Diameter	BC-Face	12	14	16	18	20	22	26	32	38	44	51	57	63	66
1-3/16	2	750	750	750	670	590	530	440	350						
	6	430	430	430	380	340	300	250	200						
	10	300	300	300	270	240	210	170	140						
	14	230	230	230	210	180	160	130	110						
1-7/16	3	1120	1120	1120	1120	1120	1010	820	650	530	450				
	6	760	760	760	760	720	650	530	420	350	300				
	10	530	530	530	530	500	450	370	290	240	210				
	14	410	410	410	410	410	350	290	230	190	160				
1-11/16	3	1810	1810	1810	1810	1810	1810	1490	1180	980	830	710	630		
	6	1220	1220	1220	1220	1220	1220	1010	800	660	600	480	430		
	10	850	850	850	850	850	850	710	560	460	390	340	300		
	16	590	590	590	590	590	590	490	380	320	270	230	210		
1-15/16	3	2400	2400	2400	2400	2400	2400	2400	2050	1700	1450	1240	1100	990	
	6	1850	1850	1850	1850	1850	1850	1750	1390	1150	980	840	740	670	
	10	1290	1290	1290	1290	1290	1290	1230	970	800	680	580	520	470	
	16	890	890	890	890	890	890	840	670	550	470	400	360	320	
2-3/16	3	3950	3950	3950	3950	3950	3950	3950	3340	2760	2360	2010	1790	1610	1530
	8	2190	2190	2190	2190	2190	2190	2190	1850	1530	1380	1120	990	890	850
	12	1620	1620	1620	1620	1620	1620	1620	1370	1130	970	820	730	660	630
	18	1160	1160	1160	1160	1160	1160	1160	980	810	690	590	530	470	450
2-7/16	4	4710	4710	4710	4710	4710	4710	4710	4440	3670	3130	2670	2370	2140	2030
	8	3030	3030	3030	3030	3030	3030	3030	2860	2370	2120	1720	1530	1380	1310
	12	2240	2240	2240	2240	2240	2240	2240	2110	1750	1490	1270	1130	1020	970
	18	1610	1610	1610	1610	1610	1610	1610	1510	1250	1070	910	810	730	690
2-11/16	4	6100	6100	6100	6100	6100	6100	6100	6100	5280	4500	3840	3410	3060	2920
	8	3980	3980	3980	3980	3980	3980	3980	3980	3440	3090	2500	2220	2000	1900
	12	2950	2950	2950	2950	2950	2950	2950	2950	2560	2180	1860	1650	1480	1410
	18	2540	2540	2540	2540	2540	2540	2540	2530	1840	1570	1340	1190	1070	1020
2-15/16	4	7960	7960	7960	7960	7960	7960	7960	7960	7540	6420	5470	4860	4370	4160
	8	5190	5190	5190	5190	5190	5190	5190	5190	4920	4190	3570	3170	2850	2710
	14	3410	3410	3410	3410	3410	3410	3410	3410	3230	2750	2350	2080	1870	1780
	20	2540	2540	2540	2540	2540	2540	2540	2540	2410	2050	1750	1550	1400	1330
3-7/16	6	8700	8700	8700	8700	8700	8700	8700	8700	8700	8530	7230	6390	5730	5450
	10	6380	6380	6380	6380	6380	6380	6380	6380	6380	6250	5300	4690	4200	4000
	14	5040	5040	5040	5040	5040	5040	5040	5040	5040	4940	4190	3700	3320	3160
	20	3830	3830	3830	3830	3830	3830	3830	3830	3830	3750	3180	2810	2520	2400
3-15/16	6	12510	12510	12510	12510	12510	12510	12510	12510	12510	12510	12030	10630	9520	9050
	10	9280	9280	9280	9280	9280	9280	9280	9280	9280	9280	8930	7890	7060	6710
	14	7380	7380	7380	7380	7380	7380	7380	7380	7380	7380	7100	6270	5620	5340
	20	5640	5640	5640	5640	5640	5640	5640	5640	5640	5640	5430	4840	4290	4080
4-7/16	8	14710	14710	14710	14710	14710	14710	14710	14710	14710	14710	14710	14230	12730	12090
	12	11440	11440	11440	11440	11440	11440	11440	11440	11440	11440	11440	11060	9900	9400
	16	9360	9360	9360	9360	9360	9360	9360	9360	9360	9360	9360	9050	8100	7690
	22	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7110	6360	6050
4-15/16	8		19560	19560	19560	19560	19560	19560	19560	19560	19560	19560	19560	19000	18040
	12		15330	15330	15330	15330	15330	15330	15330	15330	15330	15330	15330	14890	14140
	16		12610	12610	12610	12610	12610	12610	12610	12610	12610	12610	12610	12250	11630
	22		9950	9950	9950	9950	9950	9950	9950	9950	9950	9950	9950	9670	9180
5-7/16	10		19940	19940	19940	19940	19940	19940	19940	19940	19940	19940	19940	19940	19940
	14		16470	16470	16470	16470	16470	16470	16470	16470	16470	16470	16470	16470	16470
	18		14030	14030	14030	14030	14030	14030	14030	14030	14030	14030	14030	14030	14030
	24		11480	11480	11480	11480	11480	11480	11480	11480	11480	11480	11480	11480	11480
6	10		26790	26790	26790	26790	26790	26790	26790	26790	26790	26790	26790	26790	26790
	14		22130	22130	22130	22130	22130	22130	22130	22130	22130	22130	22130	22130	22130
	18		18850	18850	18850	18850	18850	18850	18850	18850	18850	18850	18850	18850	18850
	24		15420	15420	15420	15420	15420	15420	15420	15420	15420	15420	15420	15420	15420
6-1/2	12		29410	29410	29410	29410	29410	29410	29410	29410	29410	29410	29410	29410	29410
	16		24890	24890	24890	24890	24890	24890	24890	24890	24890	24890	24890	24890	24890
	20		21570	21570	21570	21570	21570	21570	21570	21570	21570	21570	21570	21570	21570
	26		17970	17970	17970	17970	17970	17970	17970	17970	17970	17970	17970	17970	17970
7	12		36740	36740	36740	36740	36740	36740	36740	36740	36740	36740	36740	36740	36740
	16		31080	31080	31080	31080	31080	31080	31080	31080	31080	31080	31080	31080	31080
	20		26940	26940	26940	26940	26940	26940	26940	26940	26940	26940	26940	26940	26940
	26		22450	22450	22450	22450	22450	22450	22450	22450	22450	22450	22450	22450	22450
7-1/2	14		40570	40570	40570	40570	40570	40570	40570	40570	40570	40570	40570	40570	40570
	18		34880	34880	34880	34880	34880	34880	34880	34880	34880	34880	34880	34880	34880
	22		30590	30590	30590	30590	30590	30590	30590	30590	30590	30590	30590	30590	30590
	28		25820	25820	25820	25820	25820	25820	25820	25820	25820	25820	25820	25820	25820
8	14		49240	49240	49240	49240	49240	49240	49240	49240	49240	49240	49240	49240	49240
	18		42330	42330	42330	42330	42330	42330	42330	42330	42330	42330	42330	42330	42330
	22		37120	37120	37120	37120	37120	37120	37120	37120	37120	37120	37120	37120	37120
	28		31330	31330	31330	31330	31330	31330	31330	31330	31330	31330	31330	31330	31330





# IDLERS CEMA B, C, D

Douglas CEMA Pulley Construction ..... 34 & 35

## CEMA B

Troughed Idlers 4" Diameter, Equal Length Rollers ..... 37  
 Troughed Idlers 5" Diameter, Equal Length Rollers ..... 38  
 Return Idlers 4" and 5" Diameter, Drop Brackets 1½" and 4½" ..... 39

## CEMA C

Troughed Idlers 4" Diameter, Equal Length Rollers ..... 41  
 Troughed Idlers 5" Diameter, Equal Length Rollers ..... 42  
 Troughed Idlers 6" Diameter, Equal Length Rollers ..... 43  
 Return Idlers 4", 5" and 6" Diameter ..... 44  
 Flat Idlers 4", 5" and 6" Diameter ..... 44  
 Rubber Disc, Impact Troughed Idlers 5" Diameter ..... 45  
 Rubber Disc, Impact Troughed Idlers 6" Diameter ..... 46  
 Rubber Disc Return Idlers 5" and 6" Diameter ..... 47  
 Rubber Cushion Flat Idlers 5" and 6" Diameter ..... 47  
 Self-Aligning Troughed Idlers 4" Diameter ..... 48  
 Self-Aligning Troughed Idlers 5" Diameter ..... 49  
 Self-Aligning Troughed Idlers 6" Diameter ..... 50  
 Self-Aligning Return Idlers 4", 5" and 6" Diameter ..... 51  
 20° Low Profile Channel Mount Idler 4" Diameter ..... 52  
 UHMW Troughed Idlers 4" Diameter, Equal Length Rollers ..... 53  
 UHMW Troughed Idlers 5" Diameter, Equal Length Rollers ..... 54  
 UHMW Return Idlers 4" and 5" Diameter ..... 55  
 Live Shaft Rubber Disc Idlers, 5" and 6" Diameter ..... 67  
 Urethane Idler Roll Covers, 4", 5", 6" ..... 67  
 Douglas Side Guide Roller ..... 68

## CEMA D

Troughed Idlers 5" Diameter, Equal Length Rollers ..... 57  
 Troughed Idlers 6" Diameter, Equal Length Rollers ..... 58  
 Rubber Disc, Impact Troughed Idlers 6" Diameter ..... 59  
 Rubber Disc, Impact Troughed Idlers 5" Diameter ..... 60  
 Self-Aligning Return Idlers 5" and 6" Diameter ..... 61  
 Rubber Disc Flat Idlers 5" and 6" Diameter ..... 62  
 Rubber Disc Return Idlers 5" and 6" Diameter ..... 63  
 Self-Aligning Troughed Idlers, Equal Length Rollers 6" Diameter ..... 64  
 Self-Aligning Troughed Idlers, Equal Length Rollers 5" Diameter ..... 65  
 Flat Idlers 5" and 6" Diameter ..... 66  
 Return Idlers 5" and 6" Diameter, Drop Brackets 1½", 4" and 6" ..... 66



# DOUGLAS BULLDOG IDLERS

## DOUGLAS BULLDOG IDLERS MEET OR EXCEED CEMA SPECIFICATIONS

Uniform construction with concentric rolls for smooth trouble-free operation.

Sealed bearings insure long maintenance free operation for medium duty applications in sand, gravel, coal, chemicals, sugar, wood, grain and phosphates.

Manufactured in 4", 5" and 6" diameters with precision ground bearings permanently sealed with a 3 lip polymer contact seal to insure long service life.

All Douglas Idlers are manufactured to CEMA specifications and are interchangeable with other manufacturers' idlers built to CEMA's specifications.

## MANUFACTURED IN THREE MODELS

**CEMA B**

**CEMA C**

**CEMA D**

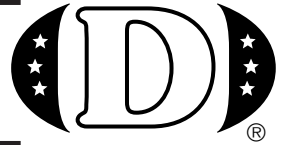
Large Gap Between  
Frame And Roll Helps  
Prevent Roll Jamming

Narrow Gap Helps  
Prevent Belt Pinching

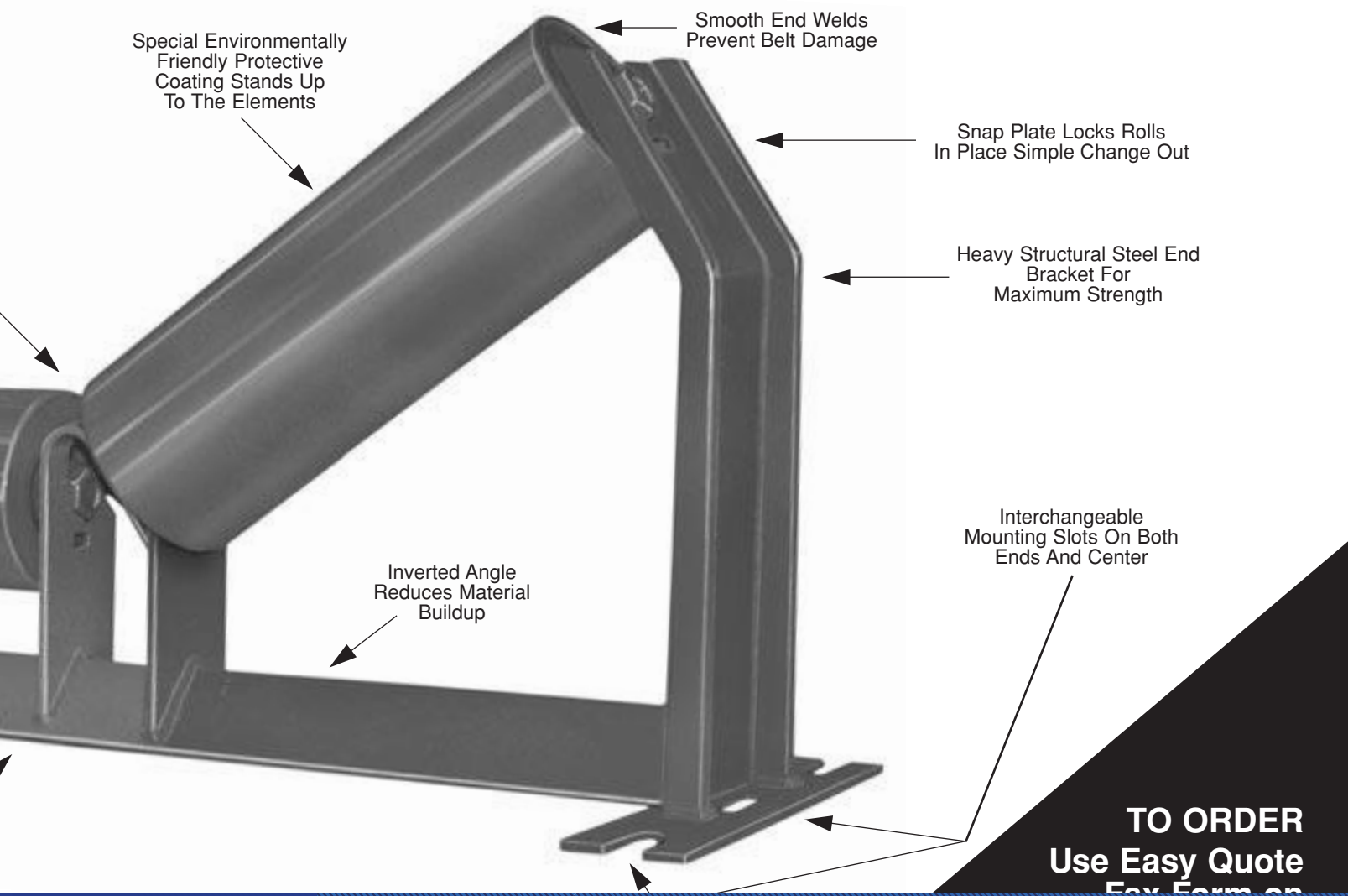
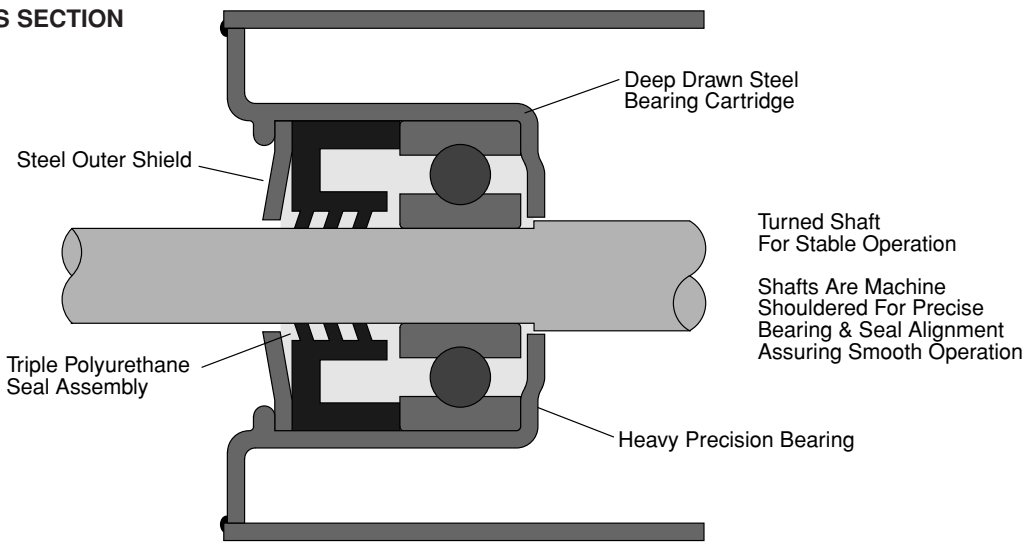
Jig Welded Frame Ensures Precise  
Construction For Easy Installation

One Piece Die Formed  
Center Braces For  
Smooth Roll Turning

# EXCEED CEMA STANDARDS



## ROLL CROSS SECTION



**TO ORDER**  
Use Easy Quote  
Form on



# IDLERS CEMA-B

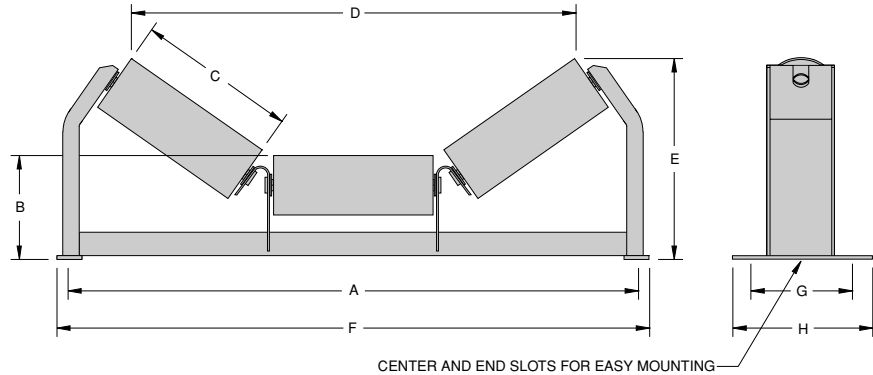
Troughed Idlers 4" Diameter Equal Length Rollers .....	37
Troughed Idlers 5" Diameter Equal Length Rollers .....	38
Return Idlers 4" and 5" Diameter Drop Brackets 1 1/2" and 4 1/2" .....	39

# CEMA-B TROUGHED IDLERS 4" Diameter Equal Length Rollers



Heavy 20mm (.787") Precision, Permanent Sealed Bearings

DOUGLAS IDLER IDENTIFICATION				
DBT-24	-	20	-	04
Douglas CEMA-B Troughing	Belt Width	Troughing Angle		Roll Diameter



## 20° TROUGHING IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBT-18-20-04	27	27	7	6 5/8	20 11/16	9 1/2	29	6	7 1/2	1/2	RBT-18-04
20	DBT-20-20-04	29	29	7	7 1/4	22 1/2	10 1/16	31	6	7 1/2	1/2	RBT-20-04
24	DBT-24-20-04	32	33	7	8 13/16	27	10 5/8	35	6	7 1/2	1/2	RBT-24-04
30	DBT-30-20-04	36	39	7	11	33 1/4	11 3/8	41	6	7 1/2	1/2	RBT-30-04
36	DBT-36-20-04	43	45	7	13 1/8	39 3/8	12 1/8	47	6	7 1/2	1/2	RBT-36-04
42	DBT-42-20-04	47	51	7 1/2	15 1/8	45 3/16	13 1/8	53	7 1/2	9	1/2	RBT-42-04
48	DBT-48-20-04	53	57	7 1/2	17 1/4	51 1/4	13 7/8	59	7 1/2	9	1/2	RBT-48-04

## 35° TROUGHING IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBT-18-35-04	28	27	7	6 5/8	18 5/8	11 7/16	29	6	7 1/2	1/2	RBT-18-04
20	DBT-20-35-04	29	29	7	7 1/4	20 5/16	11 13/16	31	6	7 1/2	1/2	RBT-20-04
24	DBT-24-35-04	33	33	7	8 13/16	24 7/16	12 11/16	35	6	7 1/2	1/2	RBT-24-04
30	DBT-30-35-04	37	39	7	11	30 3/16	14	41	6	7 1/2	1/2	RBT-30-04
36	DBT-36-35-04	44	45	7	13 1/8	35 13/16	14 3/16	47	6	7 1/2	1/2	RBT-36-04
42	DBT-42-35-04	48	51	7 1/2	15 1/8	41 3/16	16 13/16	53	7 1/2	9	1/2	RBT-42-04
48	DBT-48-35-04	54	57	7 1/2	17 1/4	46 1/4	18	59	7 1/2	9	1/2	RBT-48-04

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.





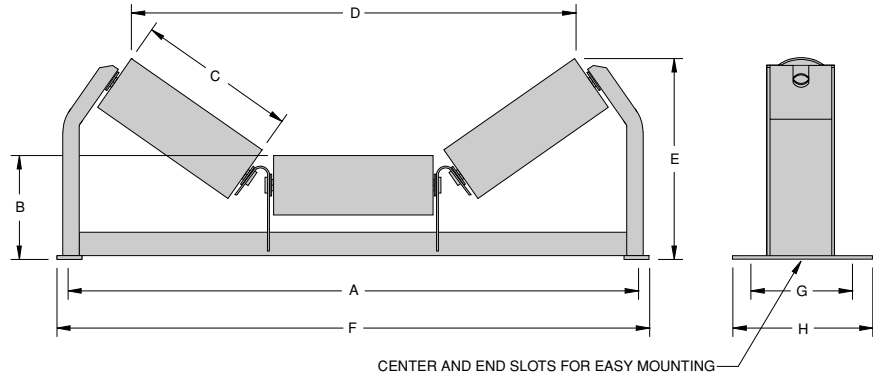
# CEMA-B TROUGHED IDLERS 5" Diameter Equal Length Rollers

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DBT-24 - 20 - 05

Douglas CEMA-B Troughing
Belt Width
Troughing Angle
Roll Diameter



## 20° TROUGHING IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBT-18-20-05	31	27	7 1/2	6 5/8	20 11/16	9 1/2	29	6	7 1/2	1/2	RBT-18-05
20	DBT-20-20-05	32	29	7 1/2	7 1/4	22 1/2	10 1/16	31	6	7 1/2	1/2	RBT-20-05
24	DBT-24-20-05	36	33	7 1/2	8 13/16	27	10 5/8	35	6	7 1/2	1/2	RBT-24-05
30	DBT-30-20-05	41	39	7 1/2	11	33 1/4	11 3/8	41	6	7 1/2	1/2	RBT-30-05
36	DBT-36-20-05	49	45	7 1/2	13 1/8	39 3/8	12 1/8	47	6	7 1/2	1/2	RBT-36-05
42	DBT-42-20-05	54	51	8	15 1/8	45 3/16	13 1/8	53	7 1/2	9	1/2	RBT-42-05
48	DBT-48-20-05	60	57	8	17 1/4	51 1/4	13 7/8	59	7 1/2	9	1/2	RBT-48-05

## 35° TROUGHING IDLER 5" DIAMETER

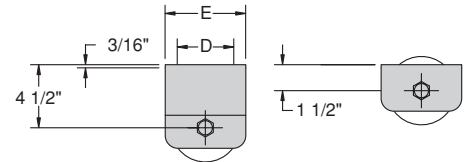
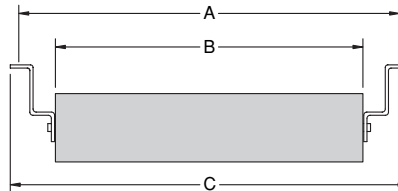
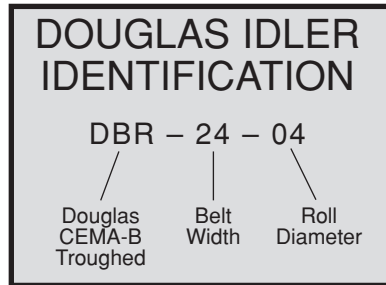
BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBT-18-35-05	31	27	7 1/2	6 5/8	18 5/8	11 7/16	29	6	7 1/2	1/2	RBT-18-05
20	DBT-20-35-05	33	29	7 1/2	7 1/4	20 5/16	11 13/16	31	6	7 1/2	1/2	RBT-20-05
24	DBT-24-35-05	37	33	7 1/2	8 13/16	24 7/16	12 11/16	35	6	7 1/2	1/2	RBT-24-05
30	DBT-30-35-05	42	39	7 1/2	11	30 3/16	14	41	6	7 1/2	1/2	RBT-30-05
36	DBT-36-35-05	50	45	7 1/2	13 1/8	35 13/16	14 3/16	47	6	7 1/2	1/2	RBT-36-05
42	DBT-42-35-05	55	51	8	15 1/8	41 3/16	16 13/16	53	7 1/2	9	1/2	RBT-42-05
48	DBT-48-35-05	61	57	8	17 1/4	46 1/4	18	59	7 1/2	9	1/2	RBT-48-05

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-B 4" and 5" Diameter RETURN IDLERS



Heavy 20mm (.787") Precision, Permanent Sealed Bearings



Available in 4 1/2" or 1 1/2" Drop Bracket

## RETURN IDLER 4" DIAMETER

BELT WIDTH	ORDER NUMBER	WT	A	B	C	D	E	MOUNTING BOLT
18	DBR-18-04	16	27	21	29	4	6	1/2
20	DBR-20-04	17	29	23	31	4	6	1/2
24	DBR-24-04	20	33	27	35	4	6	1/2
30	DBR-30-04	22	39	33	41	4	6	1/2
36	DBR-36-04	25	45	39	47	4	6	1/2
42	DBR-42-04	32	51	45	53	4	6	1/2
48	DBR-48-04	34	57	51	59	4	6	1/2

## RETURN IDLER 5" DIAMETER

BELT WIDTH	ORDER NUMBER	WT	A	B	C	D	E	MOUNTING BOLT
18	DBR-18-05	21	27	21	29	4	6	1/2
20	DBR-20-05	22	29	23	31	4	6	1/2
24	DBR-24-05	25	33	27	35	4	6	1/2
30	DBR-30-05	30	39	33	41	4	6	1/2
36	DBR-36-05	34	45	39	47	4	6	1/2
42	DBR-42-05	39	51	45	53	4	6	1/2
48	DBR-48-05	42	57	51	59	4	6	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# IDLERS CEMA-C

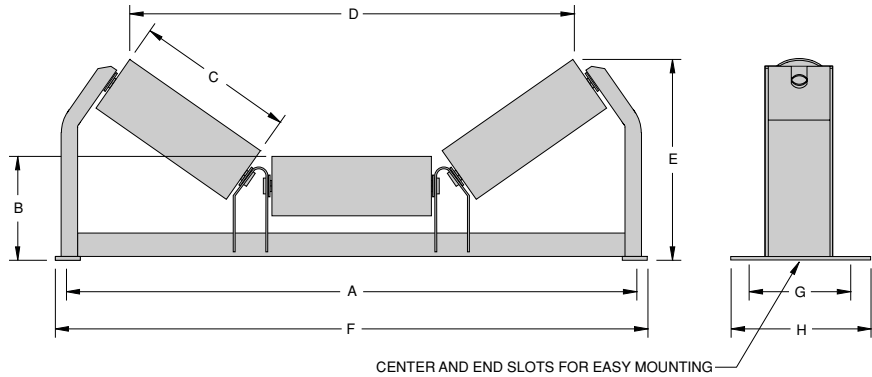
Troughed Idlers 4" Diameter Equal Length Rollers .....	41
Troughed Idlers 5" Diameter Equal Length Rollers .....	42
Troughed Idlers 6" Diameter Equal Length Rollers .....	43
Return Idlers 4", 5" and 6" Diameter .....	44
Flat Idlers 4", 5" and 6" Diameter .....	44
Rubber Disc Impact Troughed Idlers 5" Diameter .....	45
Rubber Disc Impact Troughed Idlers 6" Diameter .....	46
Rubber Disc Return Idlers 5" and 6" Diameter .....	47
Rubber Cushion Flat Idlers 5" and 6" Diameter .....	47
Self-Aligning Troughed Idlers 4" Diameter .....	48
Self-Aligning Troughed Idlers 5" Diameter .....	49
Self-Aligning Troughed Idlers 6" Diameter .....	50
Self-Aligning Return Idlers 4", 5" and 6" Diameter .....	51
20° Low Profile Channel Mount Idler, 4" Diameter .....	52
UHMW Troughed Idlers 4" Diameter Equal Length Rollers .....	53
UHMW Troughed Idlers 5" Diameter Equal Length Rollers .....	54
UHMW Return Idlers 4" and 5" Diameter .....	55
Live Shaft Rubber Disc Idlers 5" and 6" Diameter .....	67
Urethane Idler Roll Covers, 4", 5", 6" .....	67
Douglas Side Guide Roller .....	68

# CEMA-C TROUGHED IDLERS 4" Diameter Equal Length Rollers



Heavy 20mm (.787") Precision, Permanent Sealed Bearings

DOUGLAS IDLER IDENTIFICATION				
DCT-18	-	20	-	04
Douglas CEMA-C Troughed	Belt Width	Troughed Angle		Roll Diameter



## 20° TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-20-04	36	27	8	7 1/8	21 13/16	10 1/2	29	6	7 1/2	1/2	RCT-18-04
24	DCT-24-20-04	38	33	8	9 1/8	27 9/16	11 3/16	35	6	7 1/2	1/2	RCT-24-04
30	DCT-30-20-04	44	39	8	11 1/8	33 3/8	11 13/16	41	6	7 1/2	1/2	RCT-30-04
36	DCT-36-20-04	51	45	8	13 1/8	39 1/8	12 5/8	47	6	9	1/2	RCT-36-04
42	DCT-42-20-04	66	51	8 1/2	15 1/8	44 7/8	13 13/16	53	7 1/2	9	5/8	RCT-42-04
48	DCT-48-20-04	74	57	8 1/2	17 1/8	50 5/8	14 3/8	59	7 1/2	9	5/8	RCT-48-04
54	DCT-54-20-04	80	63	8 3/4	19 1/8	56 3/8	15 1/8	65 1/2	9	11	5/8	RCT-54-04
60	DCT-60-20-04	86	69	8 3/4	21 1/8	62 1/8	15 3/4	71 1/2	9	11	5/8	RCT-60-04

## 35° TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-35-04	38	27	8	7 1/8	19 15/16	12 1/4	29	6	7 1/2	1/2	RCT-18-04
24	DCT-24-35-04	40	33	8	9 1/8	25 1/4	13 3/8	35	6	7 1/2	1/2	RCT-24-04
30	DCT-30-35-04	48	39	8	11 1/8	30 1/2	14 9/16	41	6	7 1/2	1/2	RCT-30-04
36	DCT-36-35-04	54	45	8	13 1/8	35 3/4	15 11/16	47	6	9	1/2	RCT-36-04
42	DCT-42-35-04	68	51	8 1/2	15 1/8	41 1/16	17 5/16	53	7 1/2	9	5/8	RCT-42-04
48	DCT-48-35-04	76	57	8 1/2	17 1/8	46 5/16	18 7/16	59	7 1/2	9	5/8	RCT-48-04
54	DCT-54-35-04	84	63	8 3/4	19 1/8	51 5/8	19 5/8	65 1/2	9	11	5/8	RCT-54-04
60	DCT-60-35-04	89	69	8 3/4	21 1/8	56 7/8	20 3/4	71 1/2	9	11	5/8	RCT-60-04

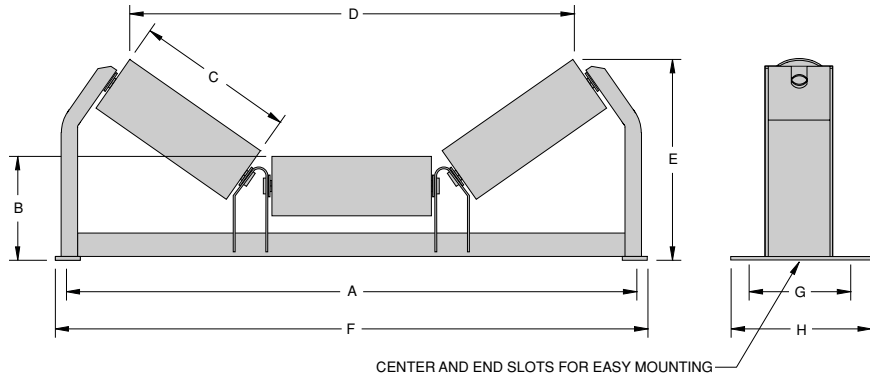
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# CEMA-C TROUGHED IDLERS 5" Diameter Equal Length Rollers

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

DOUGLAS IDLER IDENTIFICATION			
DCT-18	-	20	- 05
Douglas CEMA-C Troughed	Belt Width	Troughed Angle	Roll Diameter



## 20° TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-20-05	38	27	8 1/2	7 1/8	21 1/2	11	29	6	7 1/2	1/2	RCT-18-05
24	DCT-24-20-05	42	33	8 1/2	9 1/8	27 1/4	11 11/16	35	6	7 1/2	1/2	RCT-24-05
30	DCT-30-20-05	52	39	8 1/2	11 1/8	33	12 3/8	41	6	7 1/2	1/2	RCT-30-05
36	DCT-36-20-05	60	45	8 1/2	13 1/8	38 3/4	13 1/16	47	6	7 1/2	1/2	RCT-36-05
42	DCT-42-20-05	76	51	9	15 1/8	44 1/2	14 3/16	53	7 1/2	9	5/8	RCT-42-05
48	DCT-48-20-05	85	57	9	17 1/8	50 5/16	14 7/8	59	7 1/2	9	5/8	RCT-48-05
54	DCT-54-20-05	94	63	9 1/4	19 1/8	56 1/16	15 3/8	65 1/2	9	11	5/8	RCT-54-05
60	DCT-60-20-05	102	69	9 1/4	21 1/8	61 13/16	16 3/16	71 1/2	9	11	5/8	RCT-60-05

## 35° TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-35-05	40	27	8 1/2	7 1/8	19 3/8	12 3/8	29	6	7 1/2	1/2	RCT-18-05
24	DCT-24-35-05	45	33	8 1/2	9 1/8	24 5/8	13 13/16	35	6	7 1/2	1/2	RCT-24-05
30	DCT-30-35-05	55	39	8 1/2	11 1/8	29 15/16	14 13/16	41	6	7 1/2	1/2	RCT-30-05
36	DCT-36-35-05	62	45	8 1/2	13 1/8	35 3/16	16 1/8	47	6	7 1/2	1/2	RCT-36-05
42	DCT-42-35-05	80	51	9	15 1/8	40 1/2	17 11/16	53	7 1/2	9	5/8	RCT-42-05
48	DCT-48-35-05	88	57	9	17 1/8	45 3/4	18 7/8	59	7 1/2	9	5/8	RCT-48-05
54	DCT-54-35-05	98	63	9 1/4	19 1/8	51 1/16	20	65 1/2	9	11	5/8	RCT-54-05
60	DCT-60-35-05	105	69	9 1/4	21 1/8	56 5/16	21 3/16	71 1/2	9	11	5/8	RCT-60-05

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# CEMA-C TROUGHED IDLERS 6" Diameter Equal Length Rollers



Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

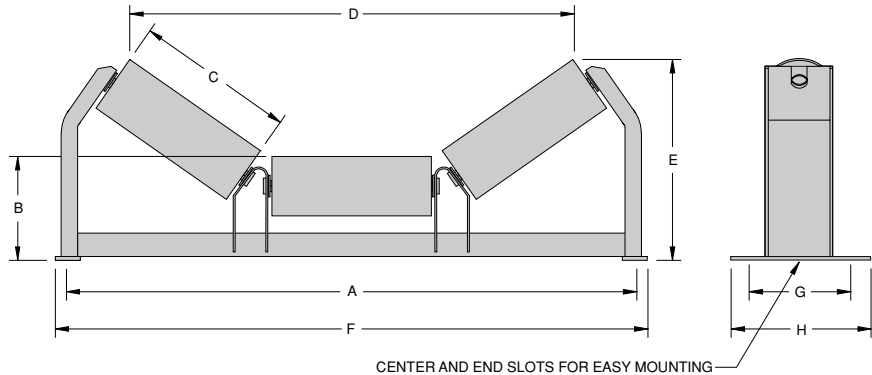
DCT-18 - 20 - 06

/
|
|
|
|

Douglas
Belt
Troughing
Roll

CEMA-C
Width
Angle
Diameter

Troughing



## 20° TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-20-06	38	27	9	7 1/8	21 1/8	11	29	6	7 1/2	1/2	RCT-18-06
24	DCT-24-20-06	42	33	9	9 1/8	26 7/8	11 11/16	35	6	7 1/2	1/2	RCT-24-06
30	DCT-30-20-06	52	39	9	11 1/8	32 11/16	12 3/8	41	6	7 1/2	1/2	RCT-30-06
36	DCT-36-20-06	60	45	9	13 1/8	38 7/16	13 1/16	47	6	9	1/2	RCT-36-06
42	DCT-42-20-06	76	51	9 1/2	15 1/8	44 3/16	14 3/16	53	7 1/2	9	5/8	RCT-42-06
48	DCT-48-20-06	85	57	9 1/2	17 1/8	49 15/16	14 7/8	59	7 1/2	9	5/8	RCT-48-06
54	DCT-54-20-06	94	63	9 3/4	19 1/8	55 11/16	15 3/8	65 1/2	9	11	5/8	RCT-54-06
60	DCT-60-20-06	102	69	9 3/4	21 1/8	61 7/16	16 3/16	71 1/2	9	11	5/8	RCT-60-06

## 35° TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCT-18-35-06	40	27	9	7 1/8	18 13/16	12 3/8	29	6	7 1/2	1/2	RCT-18-06
24	DCT-24-35-06	45	33	9	9 1/8	24 1/16	13 13/16	35	6	7 1/2	1/2	RCT-24-06
30	DCT-30-35-06	55	39	9	11 1/8	29 3/8	14 13/16	41	6	7 1/2	1/2	RCT-30-06
36	DCT-36-35-06	66	45	9	13 1/8	34 5/8	16 1/8	47	6	9	1/2	RCT-36-06
42	DCT-42-35-06	80	51	9 1/2	15 1/8	39 15/16	17 11/16	53	7 1/2	9	5/8	RCT-42-06
48	DCT-48-35-06	88	57	9 1/2	17 1/8	45 3/16	18 7/8	59	7 1/2	9	5/8	RCT-48-06
54	DCT-54-35-06	98	63	9 3/4	19 1/8	50 7/16	20	65 1/2	9	11	5/8	RCT-54-06
60	DCT-60-35-06	105	69	9 3/4	21 1/8	55 3/4	21 3/16	71 1/2	9	11	5/8	RCT-60-06

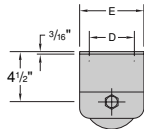
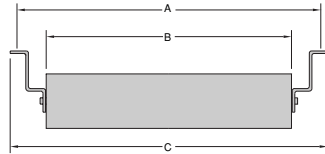
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# CEMA-C 4", 5" and 6" Diameter RETURN IDLERS

4" and 5" Diameter Heavy 20mm (.787") Precision, Permanent Sealed Bearings  
6" Diameter Heavy 25mm (.984") Precision, Permanent Sealed Bearings

## RETURN IDLER 4" DIAMETER



Available in 4 1/2" Drop  
or 1 1/2" Drop Bracket

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCR-18-04	17	27	21 5/16	29	4	6	1/2
24	DCR-24-04	20	33	27 5/16	35	4	6	1/2
30	DCR-30-04	23	39	33 5/16	41	4	6	1/2
36	DCR-36-04	29	45	39 5/16	47	4	6	1/2
42	DCR-42-04	31	51	45 5/16	53	4	6	1/2
48	DCR-48-04	33	57	51 5/16	59	4	6	1/2
54	DCR-54-04	38	63	57 5/16	65	4	6	1/2
60	DCR-60-04	40	69	63 5/16	71	4	6	1/2

## RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCR-18-05	22	27	21 5/16	29	4	6	1/2
24	DCR-24-05	27	33	27 5/16	35	4	6	1/2
30	DCR-30-05	31	39	33 5/16	41	4	6	1/2
36	DCR-36-05	35	45	39 5/16	47	4	6	1/2
42	DCR-42-05	38	51	45 5/16	53	4	6	1/2
48	DCR-48-05	44	57	51 5/16	59	4	6	1/2
54	DCR-54-05	49	63	57 5/16	65	4	6	1/2
60	DCR-60-05	53	69	63 5/16	71	4	6	1/2

## RETURN IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCR-18-06	26	27	21 5/16	29	4	6	1/2
24	DCR-24-06	31	33	27 5/16	35	4	6	1/2
30	DCR-30-06	35	39	33 5/16	41	4	6	1/2
36	DCR-36-06	39	45	39 5/16	47	4	6	1/2
42	DCR-42-06	42	51	45 5/16	53	4	6	1/2
48	DCR-48-06	48	57	51 5/16	59	4	6	1/2
54	DCR-54-06	53	63	57 5/16	65	4	6	1/2
60	DCR-60-06	57	69	63 5/16	71	4	6	1/2

### DOUGLAS IDLER IDENTIFICATION

DCR - 18 - 04

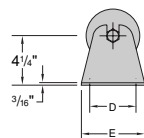
Douglas CEMA-C Return | Belt Width | Roll Diameter

# CEMA-C

## 4", 5" and 6" Diameter FLAT IDLERS

4" and 5" Diameter Heavy 20mm (.787") Precision, Permanent Sealed Bearings  
6" Diameter Heavy 25mm (.984") Precision, Permanent Sealed Bearings

### FLAT IDLER 4" DIAMETER



BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCF-18-04	17	27	21 5/16	29	4	6	1/2
24	DCF-24-04	20	33	27 5/16	35	4	6	1/2
30	DCF-30-04	23	39	33 5/16	41	4	6	1/2
36	DCF-36-04	29	45	39 5/16	47	4	6	1/2
42	DCF-42-04	31	51	45 5/16	53	4	6	1/2
48	DCF-48-04	33	57	51 5/16	59	4	6	1/2
54	DCF-54-04	38	63	57 5/16	65	4	6	1/2
60	DCF-60-04	40	69	63 5/16	71	4	6	1/2

### FLAT IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCF-18-05	22	27	21 5/16	29	4	6	1/2
24	DCF-24-05	27	33	27 5/16	35	4	6	1/2
30	DCF-30-05	31	39	33 5/16	41	4	6	1/2
36	DCF-36-05	35	45	39 5/16	47	4	6	1/2
42	DCF-42-05	38	51	45 5/16	53	4	6	1/2
48	DCF-48-05	44	57	51 5/16	59	4	6	1/2
54	DCF-54-05	49	63	57 5/16	65	4	6	1/2
60	DCF-60-05	53	69	63 5/16	71	4	6	1/2

### FLAT IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCF-18-06	26	27	21 5/16	29	4	6	1/2
24	DCF-24-06	31	33	27 5/16	35	4	6	1/2
30	DCF-30-06	35	39	33 5/16	41	4	6	1/2
36	DCF-36-06	39	45	39 5/16	47	4	6	1/2
42	DCF-42-06	42	51	45 5/16	53	4	6	1/2
48	DCF-48-06	48	57	51 5/16	59	4	6	1/2
54	DCF-54-06	53	63	57 5/16	65	4	6	1/2
60	DCF-60-06	57	69	63 5/16	71	4	6	1/2

### DOUGLAS IDLER IDENTIFICATION

DCF - 18 - 04

Douglas CEMA-C Flat | Belt Width | Roll Diameter

# CEMA-C 5" Diameter RUBBER DISC IMPACT TROUGHED IDLERS

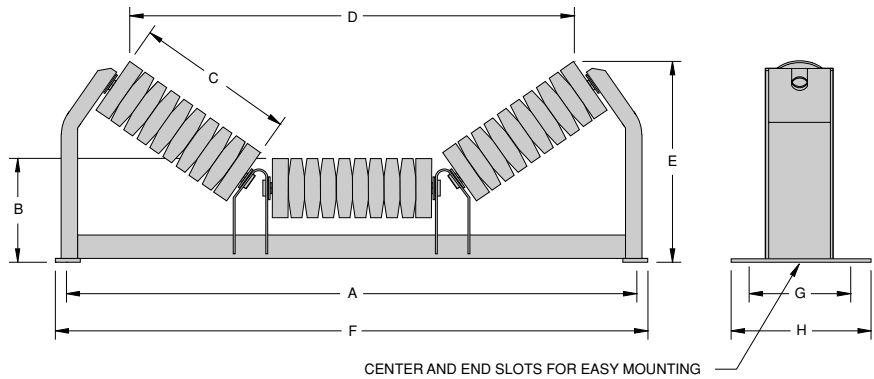


Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DCI - 18 - 20 - 05

Douglas CEMA-C Impact    Belt Width    Troughed Angle    Roll Diameter



## 20° RUBBER DISC TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCI-18-20-05	44	27	8 1/2	7 1/8	21	10 7/8	29	6	7 1/2	1/2	RCI-18-05
24	DCI-24-20-05	49	33	8 1/2	9 1/8	26 3/4	11 9/16	35	6	7 1/2	1/2	RCI-24-05
30	DCI-30-20-05	66	39	8 1/2	11 1/8	32 1/2	12 1/4	41	6	7 1/2	1/2	RCI-30-05
36	DCI-36-20-05	76	45	8 1/2	13 1/8	38 1/4	12 15/16	47	6	7 1/2	1/2	RCI-36-05
42	DCI-42-20-05	94	51	9	15 1/8	44	14 1/16	53	7 1/2	9	5/8	RCI-42-05
48	DCI-48-20-05	105	57	9	17 1/8	49 13/16	14 3/4	59	7 1/2	9	5/8	RCI-48-05
54	DCI-54-20-05	108	63	9 1/4	19 1/8	55 9/16	15 1/2	65 1/2	9	10 1/2	5/8	RCI-54-05
60	DCI-60-20-05	127	69	9 1/4	21 1/8	61 5/16	16 3/16	71 1/2	9	10 1/2	5/8	RCI-60-05

## 35° RUBBER DISC TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCI-18-35-05	46	27	8 1/2	7 1/8	19	12 1/4	29	6	7 1/2	1/2	RCI-18-05
24	DCI-24-35-05	56	33	8 1/2	9 1/8	24 1/4	13 11/16	35	6	7 1/2	1/2	RCI-24-05
30	DCI-30-35-05	67	39	8 1/2	11 1/8	29 9/16	14 11/16	41	6	7 1/2	1/2	RCI-30-05
36	DCI-36-35-05	77	45	8 1/2	13 1/8	34 13/16	16	47	6	7 1/2	1/2	RCI-36-05
42	DCI-42-35-05	96	51	9	15 1/8	40 1/8	17 9/16	53	7 1/2	9	5/8	RCI-42-05
48	DCI-48-35-05	107	57	9	17 1/8	45 3/8	18 3/4	59	7 1/2	9	5/8	RCI-48-05
54	DCI-54-35-05	118	63	9 1/4	19 1/8	50 11/16	19 7/8	65 1/2	9	10 1/2	5/8	RCI-54-05
60	DCI-60-35-05	130	69	9 1/4	21 1/8	55 15/16	21 1/16	71 1/2	9	10 1/2	5/8	RCI-60-05

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



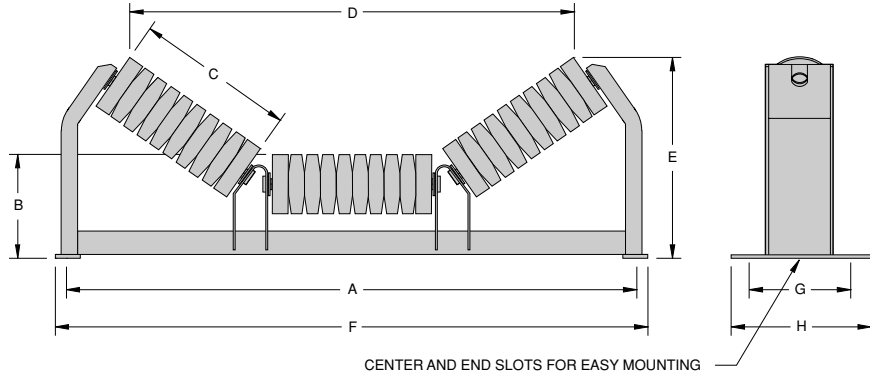
# CEMA-C 6" Diameter RUBBER DISC IMPACT TROUGHED IDLERS

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DCI-18-20-06

DCI-18	-20-	06	
Douglas CEMA-C Impact	Belt Width	Troughed Angle	Roll Diameter



## 20° RUBBER DISC TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCI-18-20-06	47	27	9	7 1/8	20 5/8	11 5/16	29	6	7 1/2	1/2	RCI-18-06
24	DCI-24-20-06	60	33	9	9 1/8	26 3/8	12	35	6	7 1/2	1/2	RCI-24-06
30	DCI-30-20-06	72	39	9	11 1/8	32 3/16	12 3/4	41	6	7 1/2	1/2	RCI-30-06
36	DCI-36-20-06	82	45	9	13 1/8	37 5/16	13 7/16	47	6	7 1/2	1/2	RCI-36-06
42	DCI-42-20-06	100	51	9 1/2	15 1/8	43 11/16	14 9/16	53	7 1/2	9	5/8	RCI-42-06
48	DCI-48-20-06	121	57	9 1/2	17 1/8	49 7/16	15 1/4	59	7 1/2	9	5/8	RCI-48-06
54	DCI-54-20-06	127	63	9 3/4	19 1/8	55 3/16	15 15/16	65 1/2	9	10 1/2	5/8	RCI-54-06
60	DCI-60-20-06	133	69	9 3/4	21 1/8	61	16 5/8	71 1/2	9	10 1/2	5/8	RCI-60-06

## 35° RUBBER DISC TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCI-18-35-06	50	27	9	7 1/8	18 7/16	12 15/16	29	6	8	1/2	RCI-18-06
24	DCI-24-35-06	63	33	9	9 1/8	23 11/16	14	35	6	8	1/2	RCI-24-06
30	DCI-30-35-06	75	39	9	11 1/8	29	15 1/4	41	6	8	1/2	RCI-30-06
36	DCI-36-35-06	85	45	9	13 1/8	34 1/4	16 3/8	47	6	8	1/2	RCI-36-06
42	DCI-42-35-06	102	51	9 1/2	15 1/8	39 9/16	18	53	6	9 1/2	5/8	RCI-42-06
48	DCI-48-35-06	126	57	9 1/2	17 1/8	44 13/16	19 1/8	59	6	9 1/2	5/8	RCI-48-06
54	DCI-54-35-06	131	63	9 3/4	19 1/8	50	20 5/16	65 1/2	9	11	5/8	RCI-54-06
60	DCI-60-35-06	135	69	9 3/4	21 1/8	55 3/8	21 7/16	71 1/2	9	11	5/8	RCI-60-06

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-C 5" and 6" Diameter RUBBER DISC RETURN IDLERS

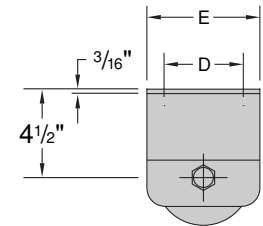
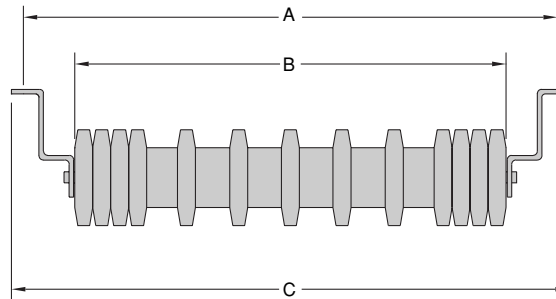


Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER  
IDENTIFICATION**

DCD - 18 - 05

Douglas CEMA-C Disc | Belt Width | Roll Diameter



Available in 4 1/2" Drop or 1 1/2" Drop Bracket

## RUBBER DISC RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCD-18-05	21	27	21 5/16	29	4	6	1/2
24	DCD-24-05	28	33	27 5/16	35	4	6	1/2
30	DCD-30-05	35	39	33 5/16	41	4	6	1/2
36	DCD-36-05	40	45	39 5/16	47	4	6	1/2
42	DCD-42-05	44	51	45 5/16	53	4	6	1/2
48	DCD-48-05	50	57	51 5/16	59	4	6	1/2
54	DCD-54-05	54	63	57 5/16	65	4	6	1/2
60	DCD-60-05	58	69	63 5/16	71	4	6	1/2

## RUBBER DISC RETURN IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCD-18-06	35	27	21 5/16	29	4	6	1/2
24	DCD-24-06	41	33	27 5/16	35	4	6	1/2
30	DCD-30-06	46	39	33 5/16	41	4	6	1/2
36	DCD-36-06	50	45	39 5/16	47	4	6	1/2
42	DCD-42-06	63	51	45 5/16	53	4	6	1/2
48	DCD-48-06	65	57	51 5/16	59	4	6	1/2
54	DCD-54-06	67	63	57 5/16	65	4	6	1/2
60	DCD-60-06	70	69	63 5/16	71	4	6	1/2

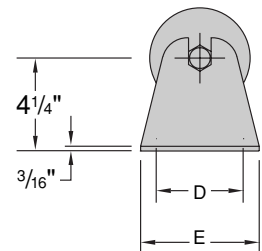
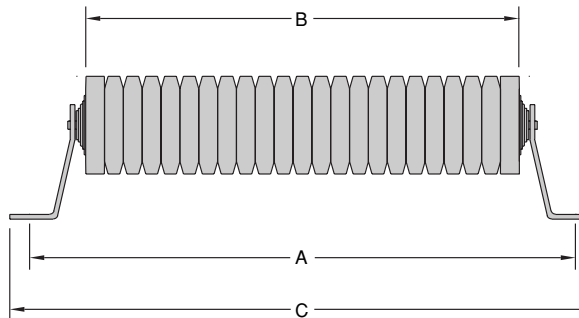
# CEMA-C 5" and 6" Diameter RUBBER CUSHION FLAT IDLERS

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER  
IDENTIFICATION**

DCC - 18 - 05

Douglas CEMA-C Cushion | Belt Width | Roll Diameter



## RUBBER CUSHION FLAT IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCC-18-05	36	27	21 5/16	29	4	6	1/2
24	DCC-24-05	41	33	27 5/16	35	4	6	1/2
30	DCC-30-05	47	39	33 5/16	41	4	6	1/2
36	DCC-36-05	53	45	39 5/16	47	4	6	1/2
42	DCC-42-05	61	51	45 5/16	53	4	6	1/2
48	DCC-48-05	68	57	51 5/16	59	4	6	1/2
54	DCC-54-05	74	63	57 5/16	65	4	6	1/2
60	DCC-60-05	80	69	63 5/16	71	4	6	1/2

## RUBBER CUSHION FLAT IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DCC-18-06	37	27	21 5/16	29	4	6	1/2
24	DCC-24-06	44	33	27 5/16	35	4	6	1/2
30	DCC-30-06	50	39	33 5/16	41	4	6	1/2
36	DCC-36-06	59	45	39 5/16	47	4	6	1/2
42	DCC-42-06	68	51	45 5/16	53	4	6	1/2
48	DCC-48-06	75	57	51 5/16	59	4	6	1/2
54	DCC-54-06	82	63	57 5/16	65	4	6	1/2
60	DCC-60-06	91	69	63 5/16	71	4	6	1/2

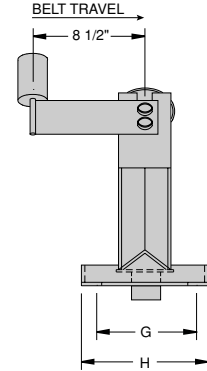
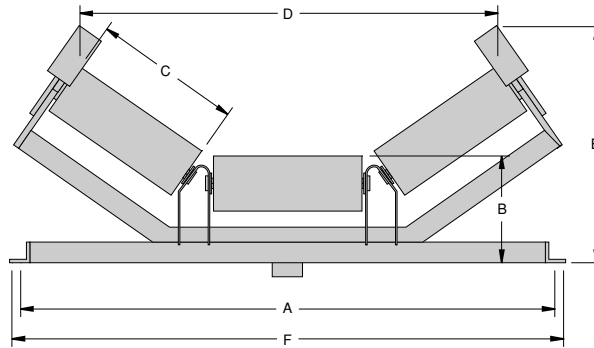
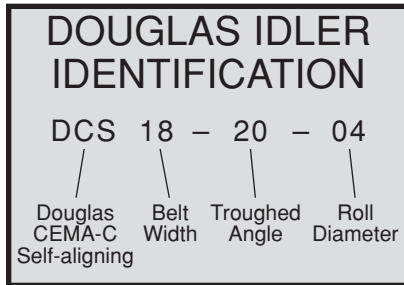
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.





# CEMA-C 4" Diameter SELF-ALIGNING TROUGHED IDLERS

Heavy 20mm (.787") Precision, Permanent Sealed Bearings



## 20° SELF-ALIGNING TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-20-04	80	27	9 1/16	7 1/8	23	13 7/16	29	6	9 1/2	1/2	RCT-18-04
24	DCS-24-20-04	89	33	9 1/16	9 1/8	28 3/4	14 1/8	35	6	9 1/2	1/2	RCT-24-04
30	DCS-30-20-04	98	39	9 1/8	11 1/8	34 1/4	14 13/16	41	6	9 1/2	1/2	RCT-30-04
36	DCS-36-20-04	107	45	9 1/8	13 1/8	40 5/16	15 1/2	47	6	9 1/2	1/2	RCT-36-04
42	DCS-42-20-04	129	51	9 7/16	15 1/8	46 1/16	16 1/2	53	7 1/2	11 1/2	5/8	RCT-42-04
48	DCS-48-20-04	139	57	9 7/16	17 1/8	51 13/16	17 3/16	59	7 1/2	11 1/2	5/8	RCT-48-04
54	DCS-54-20-04	150	63	9 7/16	19 1/8	57 9/16	17 15/16	65 1/2	9	14	5/8	RCT-54-04
60	DCS-60-20-04	162	69	9 7/16	21 1/8	63 5/16	18 9/16	71 1/2	9	14	5/8	RCT-60-04

## 35° SELF-ALIGNING TROUGHED IDLER 4" DIAMETER

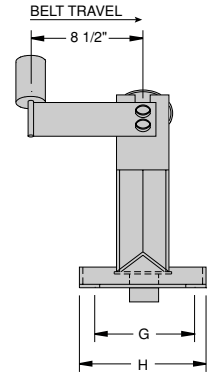
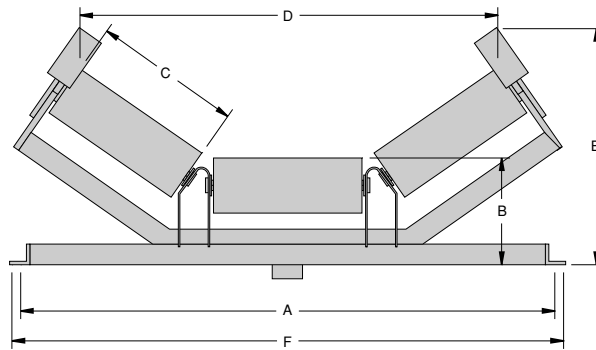
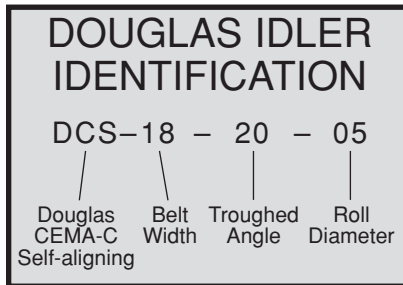
BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-35-04	83	27	9 1/16	7 1/8	20 1/8	15 1/4	29	6	9 1/2	1/2	RCT-18-04
24	DCS-24-35-04	90	33	9 1/16	9 1/8	25 7/16	16 3/8	35	6	9 1/2	1/2	RCT-24-04
30	DCS-30-35-04	99	39	9 1/8	11 1/8	30 11/16	17 9/16	41	6	9 1/2	1/2	RCT-30-04
36	DCS-36-35-04	109	45	9 1/8	13 1/8	36	18 11/16	47	6	9 1/2	1/2	RCT-36-04
42	DCS-42-35-04	131	51	9 7/16	15 1/8	41 1/4	20 3/16	53	7 1/2	11 1/2	5/8	RCT-42-04
48	DCS-48-35-04	141	57	9 7/16	17 1/8	46 1/2	21 5/16	59	7 1/2	11 1/2	5/8	RCT-48-04
54	DCS-54-35-04	154	63	9 7/16	19 1/8	51 13/16	22 1/2	65 1/2	9	14	5/8	RCT-54-04
60	DCS-60-35-04	166	69	9 7/16	21 1/8	57 13/16	23 5/8	71 1/2	9	14	5/8	RCT-60-04

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-C 5" Diameter SELF-ALIGNING TROUGHED IDLERS



Heavy 20mm (.787") Precision, Permanent Sealed Bearings



## 20° SELF-ALIGNING TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-20-05	82	27	9 9/16	7 1/8	22 11/16	13 7/8	29	6	9 1/2	1/2	RCT-18-05
24	DCS-24-20-05	91	33	9 9/16	9 1/8	28 7/16	14 9/16	35	6	9 1/2	1/2	RCT-24-05
30	DCS-30-20-05	100	39	9 5/8	11 1/8	33 15/16	15 5/16	41	6	9 1/2	1/2	RCT-30-05
36	DCS-36-20-05	110	45	9 5/8	13 1/8	39 15/16	16	47	6	9 1/2	1/2	RCT-36-05
42	DCS-42-20-05	131	51	9 15/16	15 1/8	45 11/16	17	53	7 1/2	11 1/2	5/8	RCT-42-05
48	DCS-48-20-05	142	57	9 15/16	17 1/8	51 7/16	17 11/16	59	7 1/2	11 1/2	5/8	RCT-48-05
54	DCS-54-20-05	153	63	9 15/16	19 1/8	57 3/16	18 3/8	65 1/2	9	14	5/8	RCT-54-05
60	DCS-60-20-05	166	69	9 15/16	21 1/8	63	19 1/16	71 1/2	9	14	5/8	RCT-60-05

## 35° SELF-ALIGNING TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-35-05	85	27	9 9/16	7 1/8	19 9/16	15 5/8	29	6	9 1/2	1/2	RCT-18-05
24	DCS-24-35-05	92	33	9 9/16	9 1/8	24 7/8	16 3/4	35	6	9 1/2	1/2	RCT-24-05
30	DCS-30-35-05	101	39	9 5/8	11 1/8	30 1/8	17 15/16	41	6	9 1/2	1/2	RCT-30-05
36	DCS-36-35-05	111	45	9 5/8	13 1/8	35 7/16	19 1/8	47	6	9 1/2	1/2	RCT-36-05
42	DCS-42-35-05	133	51	9 15/16	15 1/8	40 11/16	20 9/16	53	7 1/2	11 1/2	5/8	RCT-42-05
48	DCS-48-35-05	143	57	9 15/16	17 1/8	45 15/16	21 3/4	59	7 1/2	11 1/2	5/8	RCT-48-05
54	DCS-54-35-05	156	63	9 15/16	19 1/8	51 1/4	22 7/8	65 1/2	9	14	5/8	RCT-54-05
60	DCS-60-35-05	168	69	9 15/16	21 1/8	56 1/2	24 1/16	71 1/2	9	14	5/8	RCT-60-05

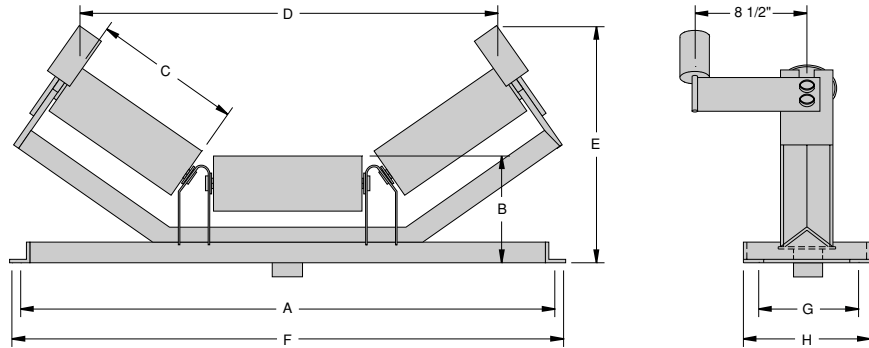
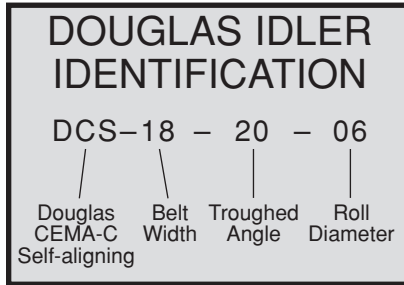
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# CEMA-C 6" Diameter SELF-ALIGNING TROUGHED IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications



## 20° SELF-ALIGNING TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-20-06	82	27	10 1/6	7 1/8	22 11/16	13 7/8	29	6	9 1/2	1/2	RCT-18-06
24	DCS-24-20-06	91	33	10 1/6	9 1/8	28 7/16	14 9/16	35	6	9 1/2	1/2	RCT-24-06
30	DCS-30-20-06	100	39	10 1/8	11 1/8	33 15/16	15 5/16	41	6	9 1/2	1/2	RCT-30-06
36	DCS-36-20-06	110	45	10 1/8	13 1/8	39 15/16	16	47	6	9 1/2	1/2	RCT-36-06
42	DCS-42-20-06	131	51	10 1/2	15 1/8	45 11/16	17	53	7 1/2	11 1/2	5/8	RCT-42-06
48	DCS-48-20-06	142	57	10 1/2	17 1/8	51 7/16	17 11/16	59	7 1/2	11 1/2	5/8	RCT-48-06
54	DCS-54-20-06	153	63	10 1/2	19 1/8	57 3/16	18 3/8	65 1/2	9	14	5/8	RCT-54-06
60	DCS-60-20-06	166	69	10 1/2	21 1/8	63	19 1/16	71 1/2	9	14	5/8	RCT-60-06

## 35° SELF-ALIGNING TROUGHED IDLER 6" DIAMETER

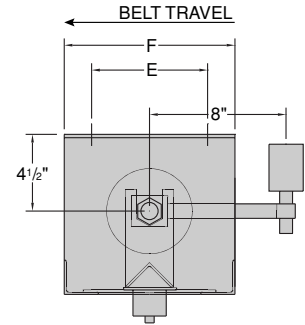
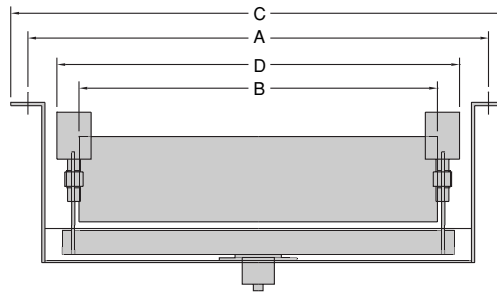
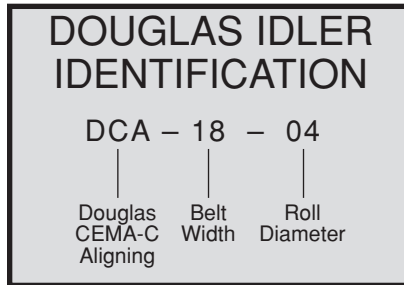
BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DCS-18-35-06	85	27	10 1/16	7 1/8	19 9/16	15 5/8	29	6	9 1/2	1/2	RCT-18-06
24	DCS-24-35-06	92	33	10 1/16	9 1/8	24 7/8	16 3/4	35	6	9 1/2	1/2	RCT-24-06
30	DCS-30-35-06	101	39	10 1/8	11 1/8	30 1/8	17 15/16	41	6	9 1/2	1/2	RCT-30-06
36	DCS-36-35-06	111	45	10 1/8	13 1/8	35 7/16	19 1/8	47	6	9 1/2	1/2	RCT-36-06
42	DCS-42-35-06	133	51	10 1/2	15 1/8	40 11/16	20 9/16	53	7 1/2	11 1/2	5/8	RCT-42-06
48	DCS-48-35-06	143	57	10 1/2	17 1/8	45 15/16	21 3/4	59	7 1/2	11 1/2	5/8	RCT-48-06
54	DCS-54-35-06	156	63	10 1/2	19 1/8	51 1/4	22 7/8	65 1/2	9	14	5/8	RCT-54-06
60	DCS-60-35-06	168	69	10 1/2	21 1/8	56 1/2	24 1/16	71 1/2	9	14	5/8	RCT-60-06

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-C 4", 5" and 6" Diameter SELF-ALIGNING RETURN IDLERS



4" and 5" Diameter Heavy 20mm (.787") Precision, Permanent Sealed Bearings  
6" Diameter Heavy 25mm (.984") Precision, Permanent Sealed Bearings



## SELF-ALIGNING RETURN IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	MTD BOLT
18	DCA-18-04	73	27	21	30	23 5/8	4	9 1/2	1/2
24	DCA-24-04	80	33	27	36	29 5/8	4	9 1/2	1/2
30	DCA-30-04	100	39	33	42	35 5/8	4	9 1/2	1/2
36	DCA-36-04	125	45	39	48	41 5/8	4	9 1/2	1/2
42	DCA-42-04	142	51	45	54	47 5/8	4	9 1/2	1/2
48	DCA-48-04	150	57	51	60	53 5/8	4	9 1/2	1/2
54	DCA-54-04	165	63	57	66	59 5/8	4	9 1/2	1/2
60	DCA-60-04	180	69	63	72	65 5/8	4	9 1/2	1/2

## SELF-ALIGNING RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	MTD BOLT
18	DCA-18-05	74	27	21	30	23 5/8	4	9 1/2	1/2
24	DCA-24-05	82	33	27	36	29 5/8	4	9 1/2	1/2
30	DCA-30-05	109	39	33	42	35 5/8	4	9 1/2	1/2
36	DCA-36-05	131	45	39	48	41 5/8	4	9 1/2	1/2
42	DCA-42-05	146	51	45	54	47 5/8	4	9 1/2	1/2
48	DCA-48-05	155	57	51	60	53 5/8	4	9 1/2	1/2
54	DCA-54-05	168	63	57	66	59 5/8	4	9 1/2	1/2
60	DCA-60-05	183	69	63	72	65 5/8	4	9 1/2	1/2

## SELF-ALIGNING RETURN IDLER 6" DIAMETER

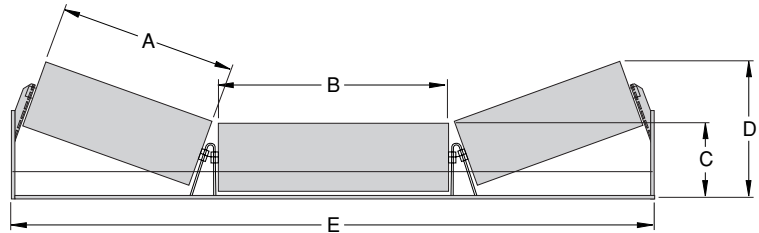
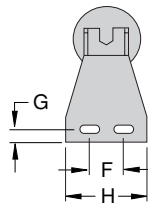
BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	MTD BOLT
18	DCA-18-06	78	27	21	30	23 5/8	4	9 1/2	1/2
24	DCA-24-06	86	33	27	36	29 5/8	4	9 1/2	1/2
30	DCA-30-06	113	39	33	42	35 5/8	4	9 1/2	1/2
36	DCA-36-06	135	45	39	48	41 5/8	4	9 1/2	1/2
42	DCA-42-06	150	51	45	54	47 5/8	4	9 1/2	1/2
48	DCA-48-06	159	57	51	60	53 5/8	4	9 1/2	1/2
54	DCA-54-06	172	63	57	66	59 5/8	4	9 1/2	1/2
60	DCA-60-06	187	69	63	72	65 5/8	4	9 1/2	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# 20° Low Profile Channel Mount Idler 4" Diameter

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications



- Bolts to inside of channel frames
- Space saving for use in limited space applications, as under portable crushers, conveyor transfer or loading points with limited space

## DOUGLAS IDLER IDENTIFICATION

DCL-24 - 20 - 04

Douglas | Belt Width | Troughed Angle | Roll Diameter

### 20° LOW PROFILE CHANNEL MOUNT IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLTS
24	DCL-24-20-04	50	7 1/16	11 1/16	4 1/2	7 1/16	29 3/4	2 1/2	1	6	1/2
30	DCL-30-20-04	54	9 1/16	13 1/16	4 1/2	7 3/4	35 3/4	2 1/2	1	6	1/2
36	DCL-36-20-04	58	11 1/16	15 1/16	4 1/2	8 7/16	41 3/4	2 1/2	1	6	1/2
42	DCL-42-20-04	64	13 1/16	17 1/16	4 1/2	9 3/32	47 3/4	2 1/2	1	6	1/2
48	DCL-48-20-04	70	15 1/16	19 1/16	4 1/2	9 9/16	53 3/4	2 1/2	1	6	1/2

### 20° LOW PROFILE CHANNEL MOUNT IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLTS
24	DCL-24-20-05	56	7 1/16	11 1/16	5 1/2	8 1/32	29 3/4	2 1/2	1	6	1/2
30	DCL-30-20-05	58	9 1/16	13 1/16	5 1/2	8 7/8	35 3/4	2 1/2	1	6	1/2
36	DCL-36-20-05	66	11 1/16	15 1/16	5 1/2	9 3/8	41 3/4	2 1/2	1	6	1/2
42	DCL-42-20-05	72	13 1/16	17 1/16	5 1/2	10 1/16	47 3/4	2 1/2	1	6	1/2
48	DCL-48-20-05	78	15 1/16	19 1/16	5 1/2	10 1/8	53 3/4	2 1/2	1	6	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

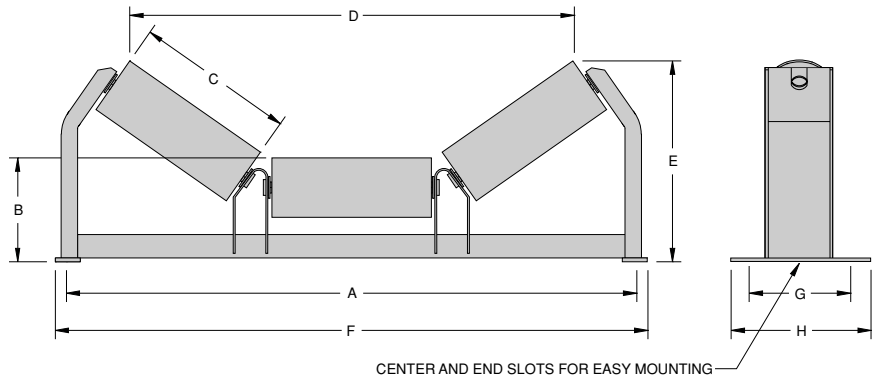


# UHMW TROUGHED IDLERS 4" Diameter Equal Length Rollers



Made From Solid Ultra High Molecular Material  
No Bearings, No Seals, For Conveyor Speeds Not Exceeding 350 FPM  
Corrosion Resistant, No Grease, Sanitary, Helps Prevent Premature Belt Wear

DOUGLAS IDLER IDENTIFICATION			
DBU-18	- 20	- 04	
Douglas Bulldog UHMW	Belt Width	Troughed Angle	Roll Diameter



## 20° TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBU-18-20-04	28	27	8	6 5/8	21	9 3/8	29	6	7 1/2	1/2	RBU-18-04
20	DBU-20-20-04	29	29	8	7 1/4	22 13/16	9 5/8	31	6	7 1/2	1/2	RBU-20-04
24	DBU-24-20-04	33	33	8	8 13/16	27 5/16	10 1/16	35	6	7 1/2	1/2	RBU-24-04
30	DBU-30-20-04	41	39	8	11	33 5/8	10 15/16	41	6	7 1/2	1/2	RBU-30-04
36	DBU-36-20-04	47	45	8	13 1/8	39 11/16	11 5/8	47	6	7 1/2	1/2	RBU-36-04
42	DBU-42-20-04	57	51	8 1/2	15 1/8	45 1/2	12 11/16	53	7 1/2	9	5/8	RBU-42-04
48	DBU-48-20-04	67	57	8 1/2	17 1/4	51 5/8	13 3/8	59	7 1/2	9	5/8	RBU-48-04

## 35° TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBU-18-35-04	30	27	8	6 5/8	19 1/4	11	29	6	7 1/2	1/2	RBU-18-04
20	DBU-20-35-04	32	29	8	7 1/4	20 7/8	11 3/8	31	6	7 1/2	1/2	RBU-20-04
24	DBU-24-35-04	36	33	8	8 13/16	25	12 5/16	35	6	7 1/2	1/2	RBU-24-04
30	DBU-30-35-04	44	39	8	11	30 3/4	13 9/16	41	6	7 1/2	1/2	RBU-30-04
36	DBU-36-35-04	50	45	8	13 1/8	36 3/8	14 13/16	47	6	7 1/2	1/2	RBU-36-04
42	DBU-42-35-04	60	51	8 1/2	15 1/8	41 5/8	16 3/8	53	7 1/2	9	5/8	RBU-42-04
48	DBU-48-35-04	71	57	8 1/2	17 1/4	47 1/4	17 5/8	59	7 1/2	9	5/8	RBU-48-04

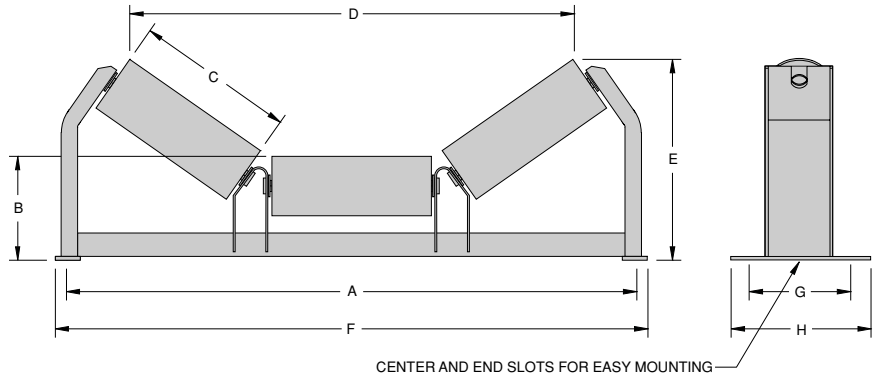
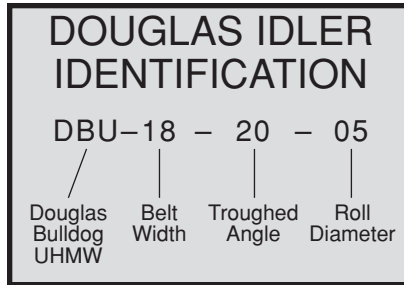
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# UHMW TROUGHED IDLERS

## 5" Diameter Equal Length Rollers

Made From Solid Ultra High Molecular Material  
 No Bearings, No Seals, For Conveyor Speeds Not Exceeding 350 FPM  
 Corrosion Resistant, No Grease, Sanitary, Helps Prevent Premature Belt Wear



### 20° TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBU-18-20-05	32	27	8 1/2	6 5/8	20 11/16	9 1/2	29	6	7 1/2	1/2	RBU-18-05
20	DBU-20-20-05	35	29	8 1/2	7 1/4	22 1/2	10 1/16	31	6	7 1/2	1/2	RBU-20-05
24	DBU-24-20-05	39	33	8 1/2	8 13/16	27	10 5/8	35	6	7 1/2	1/2	RBU-24-05
30	DBU-30-20-05	49	39	8 1/2	11	33 1/4	11 3/8	41	6	7 1/2	1/2	RBU-30-05
36	DBU-36-20-05	55	45	8 1/2	13 1/8	39 3/8	12 1/8	47	6	7 1/2	1/2	RBU-36-05
42	DBU-42-20-05	76	51	9	15 1/8	45 3/16	13 1/8	53	7 1/2	9	5/8	RBU-42-05
48	DBU-48-20-05	81	57	9	17 1/4	51 1/4	13 7/8	59	7 1/2	9	5/8	RBU-48-05

### 35° TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
18	DBU-18-35-05	35	27	8 1/2	6 5/8	18 5/8	11 7/16	29	6	7 1/2	1/2	RBU-18-05
20	DBU-20-35-05	37	29	8 1/2	7 1/4	20 5/16	11 13/16	31	6	7 1/2	1/2	RBU-20-05
24	DBU-24-35-05	41	33	8 1/2	8 13/16	24 7/16	12 11/16	35	6	7 1/2	1/2	RBU-24-05
30	DBU-30-35-05	52	39	8 1/2	11	30 3/16	14	41	6	7 1/2	1/2	RBU-30-05
36	DBU-36-35-05	58	45	8 1/2	13 1/8	35 13/16	14 3/16	47	6	7 1/2	1/2	RBU-36-05
42	DBU-42-35-05	77	51	9	15 1/8	41 3/16	16 13/16	53	7 1/2	9	5/8	RBU-42-05
48	DBU-48-35-05	82	57	9	17 1/4	46 1/4	18	59	7 1/2	9	5/8	RBU-48-05

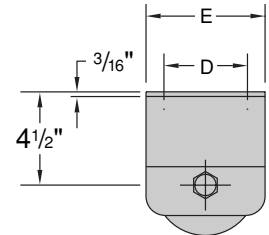
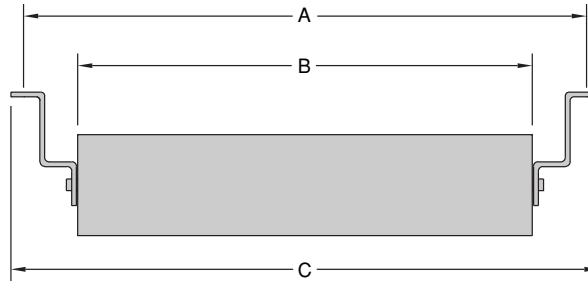
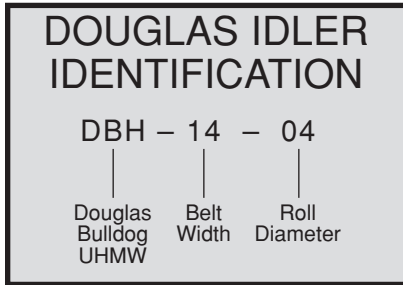
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# UHMW RETURN IDLERS

## 4" and 5" Diameter



Made From Solid Ultra High Molecular Material  
 No Bearings, No Seals, For Conveyor Speeds Not Exceeding 350 FPM  
 Corrosion Resistant, No Grease, Sanitary, Helps Prevent Premature Belt Wear



Available in 4 1/2" Drop  
 or 1 1/2" Drop Bracket

### RETURN IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
14	DBH-14-04	14	23	17	25	4	6	1/2
16	DBH-16-04	15	25	19	27	4	6	1/2
18	DBH-18-04	16	27	21	29	4	6	1/2
20	DBH-20-04	17	29	23	31	4	6	1/2
24	DBH-24-04	20	33	27	35	4	6	1/2
30	DBH-30-04	22	39	33	41	4	6	1/2
36	DBH-36-04	25	45	39	47	4	6	1/2
42	DBH-42-04	32	51	45	53	4	6	1/2
48	DBH-48-04	34	57	51	59	4	6	1/2

### RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
14	DBH-14-05	17	23	17	25	4	6	1/2
16	DBH-16-05	19	25	19	27	4	6	1/2
18	DBH-18-05	21	27	21	29	4	6	1/2
20	DBH-20-05	22	29	23	31	4	6	1/2
24	DBH-24-05	25	33	27	35	4	6	1/2
30	DBH-30-05	30	39	33	41	4	6	1/2
36	DBH-36-05	34	45	39	47	4	6	1/2
42	DBH-42-05	39	51	45	53	4	6	1/2
48	DBH-48-05	42	57	51	59	4	6	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# IDLERS CEMA-D

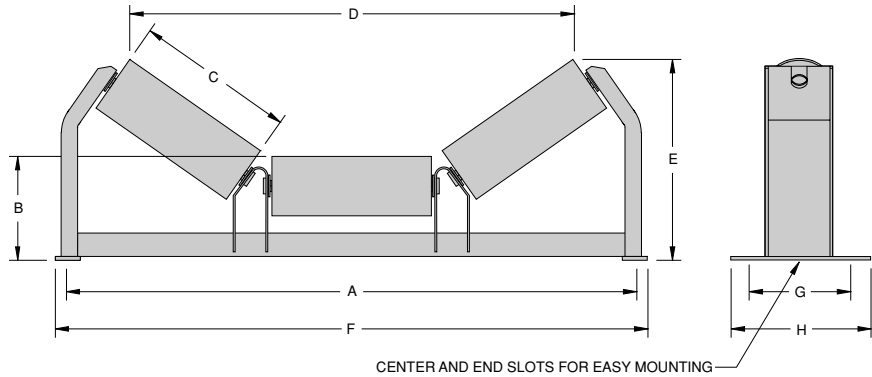
Troughed Idlers 5" Diameter	
Equal Length Rollers .....	57
Troughed Idlers 6" Diameter	
Equal Length Rollers .....	58
Rubber Disc Impact Troughed Idlers	
6" Diameter .....	59
Rubber Disc Impact Troughed Idlers	
5" Diameter .....	60
Self-Aligning Return Idlers	
5" and 6" Diameter .....	61
Rubber Disc Flat Idlers	
5" and 6" Diameter .....	62
Rubber Disc Return Idlers	
5" and 6" Diameter .....	63
Self-Aligning Troughed Idlers	
Equal Length Rollers 5" Diameter .....	64
Self-Aligning Troughed Idlers	
Equal Length Rollers 6" Diameter .....	65
Flat Idlers 5" and 6" Diameter .....	66
Return Idlers 5" and 6" Diameter	
Drop Brackets 1 1/2", 4" and 6" .....	66

# CEMA-D TROUGHED IDLERS 5" Diameter Equal Length Rollers



Heavy 25mm (.984") Precision, Permanent Sealed Bearings

DOUGLAS IDLER IDENTIFICATION			
DDT-24	- 20	- 05	
Douglas CEMA-D Troughing	Belt Width	Troughing Angle	Roll Diameter



## 20° TROUGHING IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDT-24-20-05	50	33	8 1/2	9 1/8	28 1/2	12	35	6	7 1/2	1/2	RDT-24-04
30	DDT-30-20-05	60	39	8 1/2	11 1/8	34 1/2	12 3/4	41	6	7 1/2	1/2	RDT-30-04
36	DDT-36-20-05	68	45	8 1/2	13 1/8	40 1/2	13 1/2	47	6	7 1/2	1/2	RDT-36-04
42	DDT-42-20-05	75	51	9	15 1/8	46 1/2	14 1/2	53	7 1/2	9	5/8	RDT-42-04
48	DDT-48-20-05	86	57	9	17 1/8	52 1/2	15 1/2	59	7 1/2	9	5/8	RDT-48-04
54	DDT-54-20-05	97	63	9 1/4	19 1/8	58 1/2	16 1/2	65	9	10 1/2	5/8	RDT-54-04
60	DDT-60-20-05	107	69	9 1/4	21 1/8	64 1/2	18 1/2	71	9	10 1/2	5/8	RDT-60-04

## 35° TROUGHING IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDT-24-35-05	53	33	8 1/2	9 1/8	26 1/2	14 1/4	35	6	7 1/2	1/2	RDT-24-04
30	DDT-30-35-05	61	39	8 1/2	11 1/8	32	15 1/2	41	6	7 1/2	1/2	RDT-30-04
36	DDT-36-35-05	73	45	8 1/2	13 1/8	37 1/2	16 3/4	47	6	7 1/2	1/2	RDT-36-04
42	DDT-42-35-05	81	51	9	15 1/8	43	18 1/4	53	7 1/2	9	5/8	RDT-42-04
48	DDT-48-35-05	93	57	9	17 1/8	48 1/2	19 3/4	59	7 1/2	9	5/8	RDT-48-04
54	DDT-54-35-05	106	63	9 1/4	19 1/8	54	21	65	9	10 1/2	5/8	RDT-54-04
60	DDT-60-35-05	118	69	9 1/4	21 1/8	59 1/2	22 1/4	71	9	10 1/2	5/8	RDT-60-04

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.





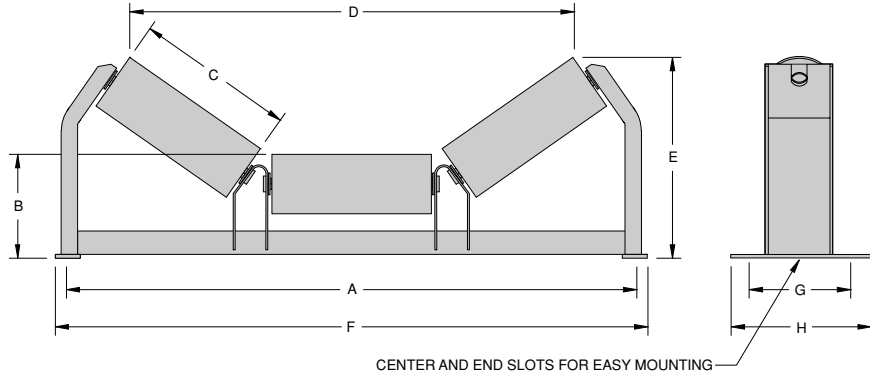
# CEMA-D TROUGHED IDLERS 6" Diameter Equal Length Rollers

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DDT-24 - 20 - 06

Douglas CEMA-D Troughing
Belt Width
Troughing Angle
Roll Diameter



### 20° TROUGHING IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDT-24-20-06	61	33	9	9 1/8	27 1/2	12 3/4	35	6	7 1/2	1/2	RDT-24-06
30	DDT-30-20-06	67	39	9	11 1/8	33 1/2	13 1/2	41	6	7 1/2	1/2	RDT-30-06
36	DDT-36-20-06	74	45	9	13 1/8	39 1/2	14 1/4	47	6	7 1/2	1/2	RDT-36-06
42	DDT-42-20-06	86	51	9 1/2	15 1/8	45 1/2	15 1/4	53	7 1/2	9	5/8	RDT-42-06
48	DDT-48-20-06	96	57	9 1/2	17 1/4	51 1/2	16 1/4	59	7 1/2	9	5/8	RDT-48-06
54	DDT-54-20-06	109	63	9 3/4	19 1/8	57 1/2	17 1/4	65	9	10 1/2	5/8	RDT-54-06
60	DDT-60-20-06	121	69	9 3/4	21 1/8	63 1/2	19 1/4	71	9	10 1/2	5/8	RDT-60-06

### 35° TROUGHING IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDT-24-35-06	63	33	9	9 1/8	25	14 3/4	35	6	7 1/2	1/2	RDT-24-06
30	DDT-30-35-06	72	39	9	11 1/8	30 1/2	16	41	6	7 1/2	1/2	RDT-30-06
36	DDT-36-35-06	82	45	9	13 1/8	36	17 1/4	47	6	7 1/2	1/2	RDT-36-06
42	DDT-42-35-06	94	51	9 1/2	15 1/8	41 1/2	18 3/4	53	7 1/2	9	5/8	RDT-42-06
48	DDT-48-35-06	105	57	9 1/2	17 1/4	47	20	59	7 1/2	9	5/8	RDT-48-06
54	DDT-54-35-06	119	63	9 3/4	19 1/8	52 1/2	21 1/4	65	9	10 1/2	5/8	RDT-54-06
60	DDT-60-35-06	134	69	9 3/4	21 1/8	58	22 1/2	71	9	10 1/2	5/8	RDT-60-06

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-D 6" Diameter RUBBER DISC IMPACT TROUGHED IDLERS

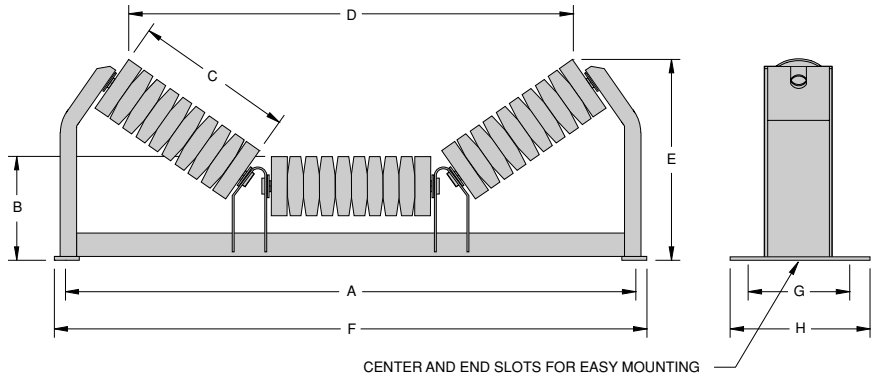


Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DDI-24 - 20 - 06

Douglas CEMA-D Impact    Belt Width    Troughing Angle    Roll Diameter



## 20° RUBBER CUSHION IMPACT TROUGHING IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDI-24-20-06	64	33	9	9 1/8	26 3/8	12	35	6	7 1/2	1/2	RDI-24-06
30	DDI-30-20-06	73	39	9	11 1/8	32 3/16	12 3/4	41	6	7 1/2	1/2	RDI-30-06
36	DDI-36-20-06	80	45	9	13 1/8	38 5/16	13 7/16	47	6	7 1/2	1/2	RDI-36-06
42	DDI-42-20-06	88	51	9 1/2	15 1/8	43 11/16	14 9/16	53	7 1/2	9	5/8	RDI-42-06
48	DDI-48-20-06	101	57	9 1/2	17 1/8	49 7/16	15 1/4	59	7 1/2	9	5/8	RDI-48-06
54	DDI-54-20-06	115	63	9 3/4	19 1/8	55 3/16	15 15/16	65 1/2	9	10 1/2	5/8	RDI-54-06
60	DDI-60-20-06	126	69	9 3/4	21 1/8	61	16 5/8	71 1/2	9	10 1/2	5/8	RDI-60-06

## 35° RUBBER CUSHION IMPACT TROUGHING IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDI-24-35-06	65	33	9	9 1/8	23 11/16	14	35	6	7 1/2	1/2	RDI-24-06
30	DDI-30-35-06	75	39	9	11 1/8	29	15 1/4	41	6	7 1/2	1/2	RDI-30-06
36	DDI-36-35-06	86	45	9	13 1/8	34 1/4	16 3/8	47	6	7 1/2	1/2	RDI-36-06
42	DDI-42-35-06	97	51	9 1/2	15 1/8	39 9/16	18	53	7 1/2	9	5/8	RDI-42-06
48	DDI-48-35-06	108	57	9 1/2	17 1/8	44 13/16	19 1/8	59	7 1/2	9	5/8	RDI-48-06
54	DDI-54-35-06	123	63	9 3/4	19 1/8	50	20 5/16	65 1/2	9	10 1/2	5/8	RDI-54-06
60	DDI-60-35-06	138	69	9 3/4	21 1/8	55 3/8	21 7/16	71 1/2	9	10 1/2	5/8	RDI-60-06

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



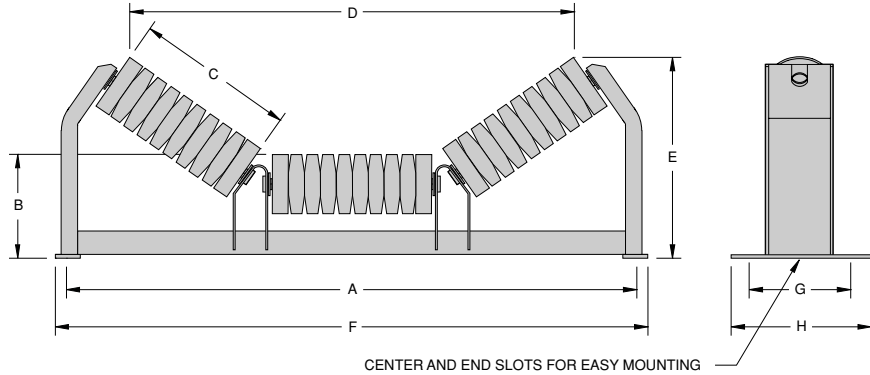
# CEMA-D 5" Diameter RUBBER DISC IMPACT TROUGHED IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DDI-24-20-05

Douglas CEMA-D Impact
Belt Width
Troughing Angle
Roll Diameter



## 20° RUBBER CUSHION IMPACT TROUGHING IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDI-24-20-05	53	33	8 1/2	9 1/8	26 3/4	11 9/16	35	6	7 1/2	1/2	RBI-24-05
30	DDI-30-20-05	64	39	8 1/2	11 1/8	32 1/2	12 1/4	41	6	7 1/2	1/2	RBI-30-05
36	DDI-36-20-05	72	45	8 1/2	13 1/8	38 1/4	12 15/16	47	6	7 1/2	1/2	RBI-36-05
42	DDI-42-20-05	79	51	9	15 1/8	44	14 1/16	53	7 1/2	9	5/8	RBI-42-05
48	DDI-48-20-05	90	57	9	17 1/4	49 13/16	14 3/4	59	7 1/2	9	5/8	RBI-48-05
54	DDI-54-20-05	102	63	9 1/4	19 1/8	55 9/16	15 1/2	65 1/2	9	10 1/2	5/8	RBI-54-05
60	DDI-60-20-05	113	69	9 1/4	21 1/8	61 5/16	16 3/16	71 1/2	9	10 1/2	5/8	RBI-60-05

## 35° RUBBER CUSHION IMPACT TROUGHING IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDI-24-35-05	56	33	8 1/2	9 1/8	24 1/4	13 11/16	35	6	7 1/2	1/2	RBI-24-05
30	DDI-30-35-05	64	39	8 1/2	11 1/8	29 9/16	14 11/16	41	6	7 1/2	1/2	RBI-30-05
36	DDI-36-35-05	76	45	8 1/2	13 1/8	34 13/16	16	47	6	9	5/8	RBI-36-05
42	DDI-42-35-05	85	51	9	15 1/8	40 1/8	17 9/16	53	7 1/2	9	5/8	RBI-42-05
48	DDI-48-35-05	98	57	9	17 1/4	45 3/8	18 3/4	59	7 1/2	9	5/8	RBI-48-05
54	DDI-54-35-05	108	63	9 1/4	19 1/8	50 11/16	19 7/8	65 1/2	9	10 1/2	5/8	RBI-54-05
60	DDI-60-35-05	122	69	9 1/4	21 1/8	55 15/16	21 1/16	71 1/2	9	10 1/2	5/8	RBI-60-05

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-D 5" and 6" Diameter SELF-ALIGNING RETURN IDLERS

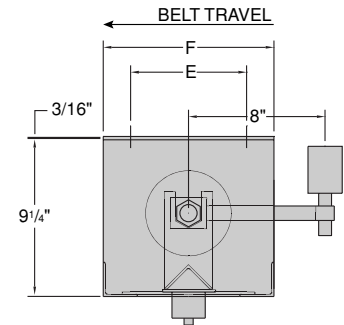
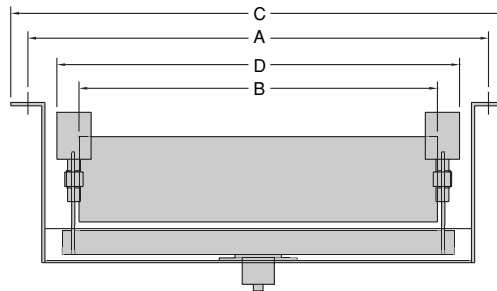


Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER  
IDENTIFICATION**

DDA - 24 - 05

Douglas CEMA-D Aligning	Belt Width	Roll Diameter
-------------------------------	---------------	------------------



## SELF-ALIGNING RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	MTD BOLT
24	DDA-24-05	92	33	27	36	29 5/8	4	9 3/8	1/2
30	DDA-30-05	119	39	33	42	35 5/8	4	9 3/8	1/2
36	DDA-36-05	141	45	39	48	41 5/8	4	9 3/8	1/2
42	DDA-42-05	156	51	45	54	47 5/8	4	9 3/8	1/2
48	DDA-48-05	165	57	51	60	53 5/8	4	9 3/8	1/2
54	DDA-54-05	178	63	57	66	59 5/8	4	9 3/8	1/2
60	DDA-60-05	193	69	63	72	65 5/8	4	9 3/8	1/2

## SELF-ALIGNING RETURN IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	MTD BOLT
24	DDA-24-06	92	33	27	36	29 5/8	4	9 3/8	1/2
30	DDA-30-06	119	39	33	42	35 5/8	4	9 3/8	1/2
36	DDA-36-06	141	45	39	48	41 5/8	4	9 3/8	1/2
42	DDA-42-06	156	51	45	54	47 5/8	4	9 3/8	1/2
48	DDA-48-06	165	57	51	60	53 5/8	4	9 3/8	1/2
54	DDA-54-06	178	63	57	66	59 5/8	4	9 3/8	1/2
60	DDA-60-06	193	69	63	72	65 5/8	4	9 3/8	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



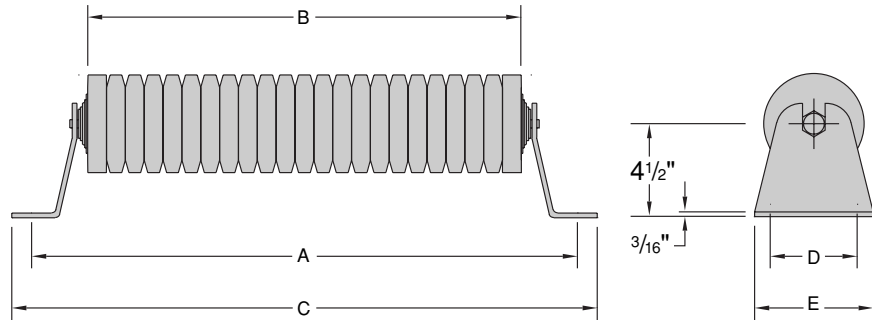
# CEMA-D 5" and 6" Diameter RUBBER DISC FLAT IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER  
IDENTIFICATION**

DDC – 24 – 05

Douglas CEMA-D Cushion	Belt Width	Roll Diameter
------------------------------	---------------	------------------



## FLAT IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDC-24-05	45	33	27 5/16	35	4	6	1/2
30	DDC-30-05	51	39	33 5/16	41	4	6	1/2
36	DDC-36-05	57	45	39 5/16	47	4	6	1/2
42	DDC-42-05	65	51	45 5/16	53	4	6	1/2
48	DDC-48-05	73	57	51 5/16	59	4	6	1/2
54	DDC-54-05	78	63	57 5/16	65	4	6	1/2
60	DDC-60-05	84	69	63 5/16	71	4	6	1/2

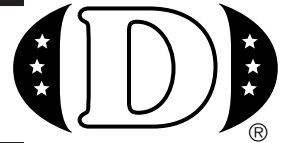
## FLAT IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDC-24-06	47	33	27 5/16	35	4	6	1/2
30	DDC-30-06	53	39	33 5/16	41	4	6	1/2
36	DDC-36-06	59	45	39 5/16	47	4	6	1/2
42	DDC-42-06	67	51	45 5/16	53	4	6	1/2
48	DDC-48-06	75	57	51 5/16	59	4	6	1/2
54	DDC-54-06	80	63	57 5/16	65	4	6	1/2
60	DDC-60-06	86	69	63 5/16	71	4	6	1/2

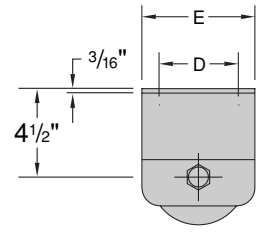
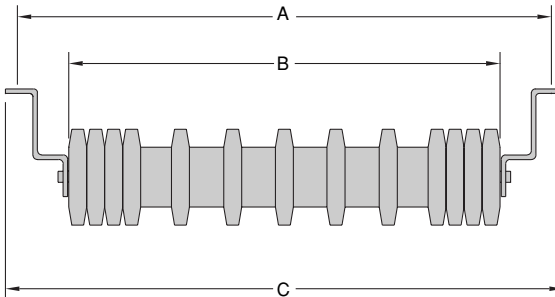
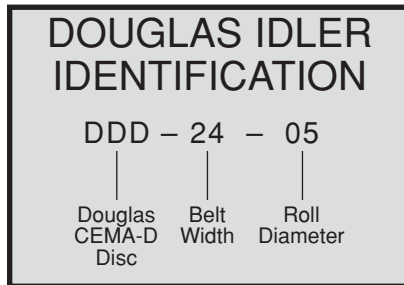
Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# CEMA-D 5" and 6" Diameter RUBBER DISC RETURN IDLERS



Heavy 25mm (.984") Precision, Permanent Sealed Bearings



## RUBBER DISC RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDD-24-05	32	33	27 5/16	35	4	6	1/2
30	DDD-30-05	36	39	33 5/16	41	4	6	1/2
36	DDD-36-05	40	45	39 5/16	47	4	6	1/2
42	DDD-42-05	44	51	45 5/16	53	4	6	1/2
48	DDD-48-05	48	57	51 5/16	59	4	6	1/2
54	DDD-54-05	54	63	57 5/16	65	4	6	1/2
60	DDD-60-05	59	69	63 5/16	71	4	6	1/2

## RUBBER DISC RETURN IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDD-24-06	36	33	27 5/16	35	4	6	1/2
30	DDD-30-06	40	39	33 5/16	41	4	6	1/2
36	DDD-36-06	44	45	39 5/16	47	4	6	1/2
42	DDD-42-06	46	51	45 5/16	53	4	6	1/2
48	DDD-48-06	53	57	51 5/16	59	4	6	1/2
54	DDD-54-06	57	63	57 5/16	65	4	6	1/2
60	DDD-60-06	62	69	63 5/16	71	4	6	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



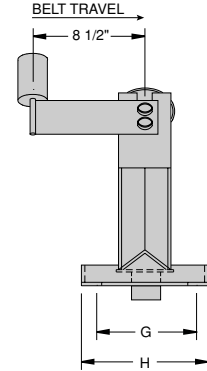
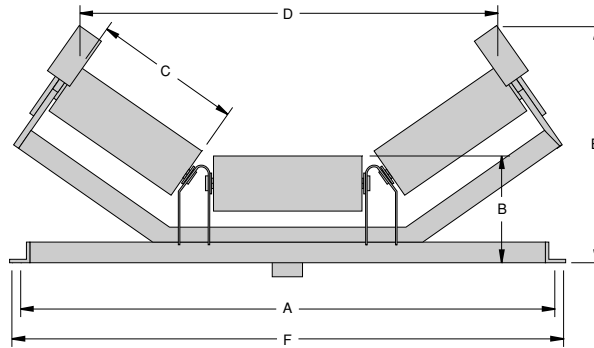
# CEMA-D 5" Diameter Equal Lengths SELF-ALIGNING TROUGHED IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DDS-24 - 20 - 05

Douglas CEMA-D Self-aligning Belt Width Troughing Angle Roll Diameter



## 20° SELF-ALIGNING TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDS-24-20-05	123	33	9 9/16	9 1/8	28 7/16	14 9/16	35	6	9 1/2	1/2	RDS-24-05
30	DDS-30-20-05	135	39	9 5/8	11 1/8	33 15/16	15 5/16	41	6	9 1/2	1/2	RDS-30-05
36	DDS-36-20-05	150	45	9 5/8	13 1/8	39 15/16	16	47	6	9 1/2	1/2	RDS-36-05
42	DDS-42-20-05	166	51	9 15/16	15 1/8	45 11/16	17	53	7 1/2	11 1/2	5/8	RDS-42-05
48	DDS-48-20-05	180	57	9 15/16	17 1/8	51 7/16	17 11/16	59	7 1/2	11 1/2	5/8	RDS-48-05
54	DDS-54-20-05	195	63	9 15/16	19 1/8	57 3/16	18 3/8	65 1/2	9	14	5/8	RDS-54-05
60	DDS-60-20-05	209	69	9 15/16	21 1/8	63	19 1/16	71 1/2	9	14	5/8	RDS-60-05

## 35° SELF-ALIGNING TROUGHED IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDS-24-35-05	124	33	9 9/16	9 1/8	24 7/8	16 3/4	35	6	9 1/2	1/2	RDS-24-05
30	DDS-30-35-05	138	39	9 5/8	11 1/8	30 1/8	17 15/16	41	6	9 1/2	1/2	RDS-30-05
36	DDS-36-35-05	152	45	9 5/8	13 1/8	35 7/16	19 1/8	47	6	9 1/2	1/2	RDS-36-05
42	DDS-42-35-05	169	51	9 15/16	15 1/8	40 11/16	20 9/16	53	7 1/2	11 1/2	5/8	RDS-42-05
48	DDS-48-35-05	185	57	9 15/16	17 1/8	45 15/16	21 3/4	59	7 1/2	11 1/2	5/8	RDS-48-05
54	DDS-54-35-05	200	63	9 15/16	19 1/8	51 1/4	22 7/8	65 1/2	9	14	5/8	RDS-54-05
60	DDS-60-35-05	216	69	9 15/16	21 1/8	56 1/2	24 1/16	71 1/2	9	14	5/8	RDS-60-05

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# CEMA-D 6" Diameter Equal Lengths SELF-ALIGNING TROUGHED IDLERS

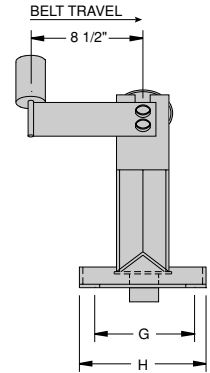
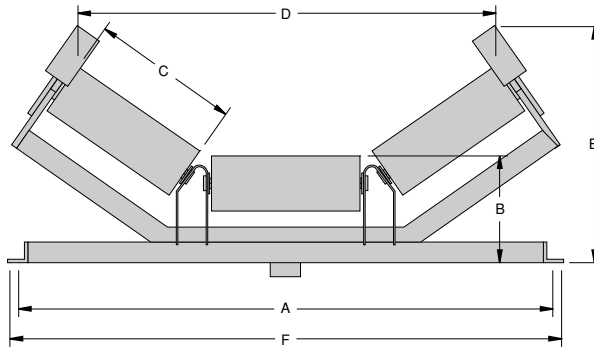


Heavy 25mm (.984") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

DDS-24 - 20 - 06

Douglas CEMA-D Self-aligning    Belt Width    Troughing Angle    Roll Diameter



## 20° SELF-ALIGNING TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDS-24-20-06	134	33	10 1/16	9 1/8	28 7/16	14 9/16	35	6	9 1/2	1/2	RDS-24-06
30	DDS-30-20-06	148	39	10 1/8	11 1/8	33 15/16	15 5/16	41	6	9 1/2	1/2	RDS-30-06
36	DDS-36-20-06	164	45	10 1/8	13 1/8	39 15/16	16	47	6	9 1/2	1/2	RDS-36-06
42	DDS-42-20-06	179	51	10 1/2	15 1/8	45 11/16	17	53	7 1/2	11 1/2	5/8	RDS-42-06
48	DDS-48-20-06	195	57	10 1/2	17 1/8	51 7/16	17 11/16	59	7 1/2	11 1/2	5/8	RDS-48-06
54	DDS-54-20-06	210	63	10 1/2	19 1/8	57 3/16	18 3/8	65 1/2	9	14	5/8	RDS-54-06
60	DDS-60-20-06	226	69	10 1/2	21 1/8	63	19 1/16	71 1/2	9	14	5/8	RDS-60-06

## 35° SELF-ALIGNING TROUGHED IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT	REPLACEMENT ROLL NO.
24	DDS-24-35-06	136	33	10 1/16	9 1/8	24 7/8	16 3/4	35	6	9 1/2	1/2	RDS-24-06
30	DDS-30-35-06	151	39	10 1/8	11 1/8	30 1/8	17 15/16	41	6	9 1/2	1/2	RDS-30-06
36	DDS-36-35-06	166	45	10 1/8	13 1/8	35 7/16	19 1/8	47	6	9 1/2	1/2	RDS-36-06
42	DDS-42-35-06	171	51	10 1/2	15 1/8	40 11/16	20 9/16	53	7 1/2	11 1/2	5/8	RDS-42-06
48	DDS-48-35-06	197	57	10 1/2	17 1/8	45 15/16	21 3/4	59	7 1/2	11 1/2	5/8	RDS-48-06
54	DDS-54-35-06	213	63	10 1/2	19 1/8	51 1/4	22 7/8	65 1/2	9	14	5/8	RDS-54-06
60	DDS-60-35-06	229	69	10 1/2	21 1/8	56 1/2	24 1/16	71 1/2	9	14	5/8	RDS-60-06

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



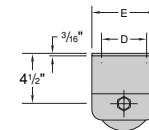
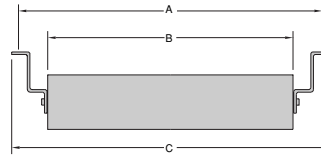
# CEMA-D 5" and 6" Diameter RETURN IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

## DOUGLAS IDLER IDENTIFICATION

DDR - 24 - 05

Douglas CEMA-D Return      Belt Width      Roll Diameter



Available in 6", 4 1/2", and 1 1/2" Drop Bracket

### RETURN IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDR-24-05	27	33	27 5/16	35	4	6	1/2
30	DDR-30-05	31	39	33 5/16	41	4	6	1/2
36	DDR-36-05	35	45	39 5/16	47	4	6	1/2
42	DDR-42-05	38	51	45 5/16	53	4	6	1/2
48	DDR-48-05	44	57	51 5/16	59	4	6	1/2
54	DDR-54-05	49	63	57 5/16	65	4	6	1/2
60	DDR-60-05	53	69	63 5/16	71	4	6	1/2

### RETURN IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	DDR-18-06	26	27	21 5/16	29	4	6	1/2
24	DDR-24-06	31	33	27 5/16	35	4	6	1/2
30	DDR-30-06	35	39	33 5/16	41	4	6	1/2
36	DDR-36-06	39	45	39 5/16	47	4	6	1/2
42	DDR-42-06	42	51	45 5/16	53	4	6	1/2
48	DDR-48-06	48	57	51 5/16	59	4	6	1/2
54	DDR-54-06	53	63	57 5/16	65	4	6	1/2
60	DDR-60-06	57	69	63 5/16	71	4	6	1/2

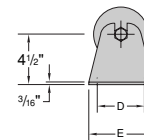
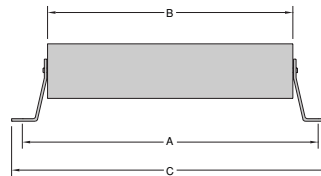
# CEMA-D 5" and 6" Diameter FLAT IDLERS

Heavy 25mm (.984") Precision, Permanent Sealed Bearings

## DOUGLAS IDLER IDENTIFICATION

DDF - 30 - 05

Douglas CEMA-D Flat      Belt Width      Roll Diameter



### FLAT IDLER 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDF-24-05	35	33	27 5/16	35	4	6	1/2
30	DDF-30-05	41	39	33 5/16	41	4	6	1/2
36	DDF-36-05	47	45	39 5/16	47	4	6	1/2
42	DDF-42-05	53	51	45 5/16	53	4	6	1/2
48	DDF-48-05	60	57	51 5/16	59	4	6	1/2
54	DDF-54-05	66	63	57 5/16	65	4	6	1/2
60	DDF-60-05	72	69	63 5/16	71	4	6	1/2

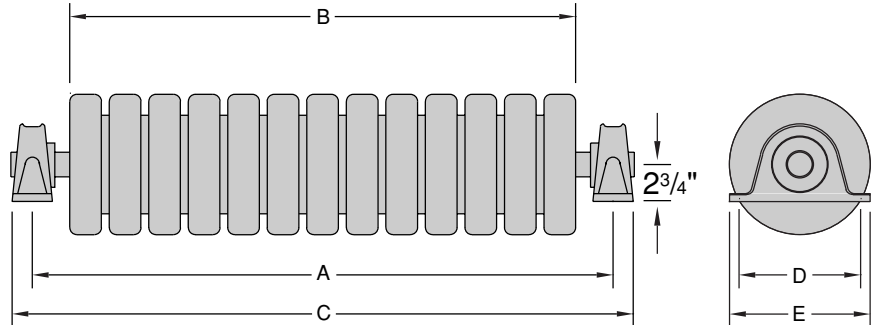
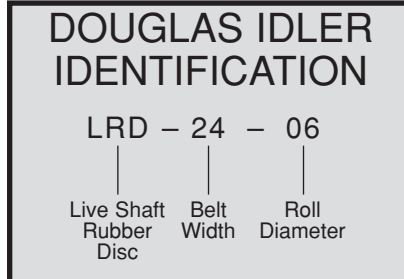
### FLAT IDLER 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	DDF-24-06	38	33	27 5/16	35	4	6	1/2
30	DDF-30-06	44	39	33 5/16	41	4	6	1/2
36	DDF-36-06	50	45	39 5/16	47	4	6	1/2
42	DDF-42-06	56	51	45 5/16	53	4	6	1/2
48	DDF-48-06	63	57	51 5/16	59	4	6	1/2
54	DDF-54-06	69	63	57 5/16	65	4	6	1/2
60	DDF-60-06	75	69	63 5/16	71	4	6	1/2

# LIVE SHAFT RUBBER DISC IDLERS 5" and 6" Diameter



Includes 2 1/4" Diameter Shaft and Ball Bearing Pillow Blocks



## 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	LRD-24-05	104	33	27	35 1/2	7 1/2	9 1/2	5/8
30	LRD-30-05	118	39	33	41 1/2	7 1/2	9 1/2	5/8
36	LRD-36-05	134	45	39	47 1/2	7 1/2	9 1/2	5/8
42	LRD-42-05	148	51	45	53 1/2	7 1/2	9 1/2	5/8
48	LRD-48-05	165	57	51	59 1/2	7 1/2	9 1/2	5/8
54	LRD-54-05	179	63	57	65 1/2	7 1/2	9 1/2	5/8
60	LRD-60-05	195	69	63	71 1/2	7 1/2	9 1/2	5/8

## 6" DIAMETER

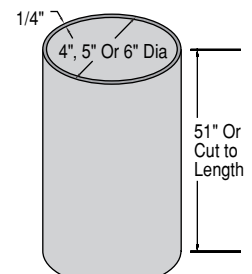
BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
24	LRD-24-06	109	33	27	37	7 1/2	9 1/2	5/8
30	LRD-30-06	124	39	33	43	7 1/2	9 1/2	5/8
36	LRD-36-06	140	45	39	49	7 1/2	9 1/2	5/8
42	LRD-42-06	155	51	45	55	7 1/2	9 1/2	5/8
48	LRD-48-06	172	57	51	61	7 1/2	9 1/2	5/8
54	LRD-54-06	187	63	57	67	7 1/2	9 1/2	5/8
60	LRD-60-06	204	69	63	73	7 1/2	9 1/2	5/8

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# URETHANE IDLER ROLL COVERS 4", 5", 6"

1/4" Thick Pliable, Urethane Tube

- Rebuilds Old Rolls.
- Helps Prevent Material Buildup.
- Extend Roll Life Up To 8 Times.
- Easy To Install, Cut To Length or Order Cut, Tap On With Rubber Mallet.
- 4", 5" and 6" Idler Roller Covers Fits All CEMA Manufactured Rollers.
- Available in 51" Tube Length or Cut To Length.





# DOUGLAS SIDE GUIDE ROLLER

Heavy 20mm Precision, Permanent Sealed Bearings

**SIDE GUIDE ROLLER IDENTIFICATION**

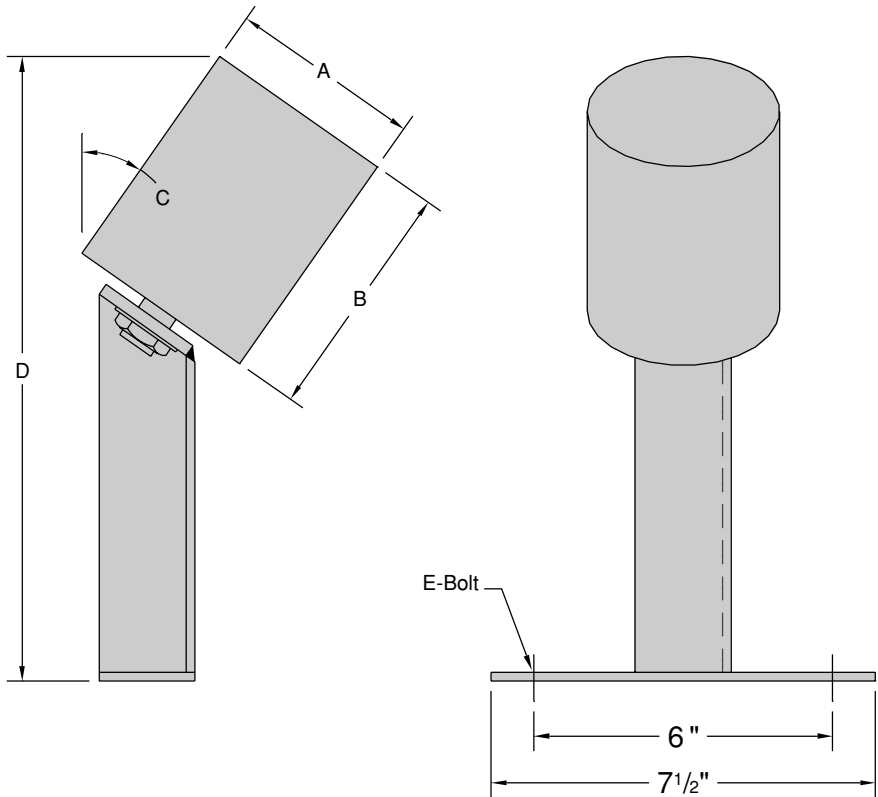
SGR - 4 - 4

Side Guide Roll
Roll Diameter
Roll Length

---

SGF - 20 - 1

Side Guide Frame
Idler Angle
Frame Type



## 20° SIDE GUIDE ROLLER

FRAME NO.	ROLL NO.	BELT WIDTH	A	B	C	D	E
SGF-20-1	SGR-4-4	14~20	4	4	20	12 1/2	1/2
SGF-20-1	SGR-4-5	14~20	4	5	20	13	1/2
SGF-20-1	SGR-5-5	14~20	5	5	20	13 5/16	1/2
SGF-20-2	SGR-4-4	24~36	4	4	20	13 7/8	1/2
SGF-20-2	SGR-4-5	24~36	4	5	20	14 3/8	1/2
SGF-20-2	SGR-5-5	24~36	5	5	20	14 11/16	1/2
SGF-20-3	SGR-4-4	42~48	4	4	20	15 1/4	1/2
SGF-20-3	SGR-4-5	42~48	4	5	20	15 3/4	1/2
SGF-20-3	SGR-5-5	42~48	5	5	20	16 1/16	1/2

## 35° SIDE GUIDE ROLLER

FRAME NO.	ROLL NO.	BELT WIDTH	A	B	C	D	E
SGF-35-1	SGR-4-4	14~20	4	4	35	16 1/4	1/2
SGF-35-1	SGR-4-5	14~20	4	5	35	16 3/4	1/2
SGF-35-1	SGR-5-5	14~20	5	5	35	17 1/16	1/2
SGF-35-2	SGR-4-4	24~36	4	4	35	17 3/4	1/2
SGF-35-2	SGR-4-5	24~36	4	5	35	18 1/4	1/2
SGF-35-2	SGR-5-5	24~36	5	5	35	18 9/16	1/2
SGF-35-3	SGR-4-4	42~48	4	4	35	19 3/4	1/2
SGF-35-3	SGR-4-5	42~48	4	5	35	20 1/4	1/2
SGF-35-3	SGR-5-5	42~48	5	5	35	20 9/16	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.



# MAGNETIC SEPARATORS



Permanent Magnetic Conveyor Pulleys .....	70
Self Cleaning Permanent Magnetic Separators .....	71
Manual Cleaning Permanent Magnetic Separators .....	72
Electro-Magnetic Separator – Self Cleaning .....	73
Electro-Magnetic Separator – Manual Cleaning .....	74



# SELF CLEANING PERMANENT MAGNETIC SEPARATORS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

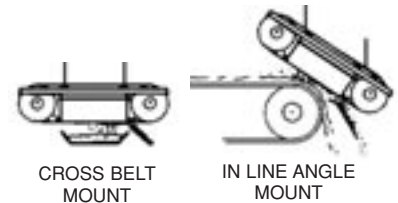
## Benefits

- Reduce operating expenses:
  - Remove potentially harmful tramp ferrous metal before it damages expensive processing equipment
  - Automatically discharge tramp metal away from the main conveyor
- Improve product purity
- Permanent magnets operate without electrical hook-ups
- Lifetime warranty on the performance of the magnetic field strength



## Construction

- Heavy grade structural steel frame complete with crown face heavy duty lagged head pulley, crown face heavy duty tail pulley and slide tube belt take-ups
- Heavy duty rubber cover belt standard with stainless steel cleats
- Head and tail pulley guards
- Shipped complete, factory test run and ready for installation
- CLASS II shaft mount gear drive with TEFC motor for long trouble free service life



## Options

- Heavy duty rubber cover belt available with hot vulcanized cleats on request
- Two mounting options: across the belt or in-line at the discharge point of the conveyor

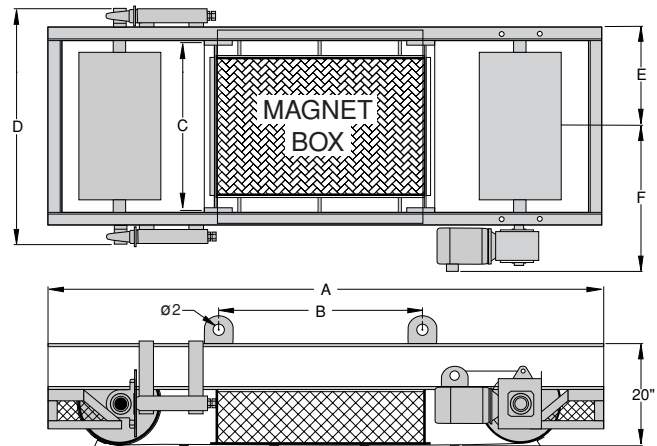
**DOUGLAS MAGNET IDENTIFICATION**

Cross Belt    CBM – 24

/

Model #    Belt Width

Cross Belt Permanent Magnetic Separator



### HEAVY DUTY CROSS BELT DIMENSIONS

MODEL NO.	BELT WIDTH	A	B	C	D	E	F	Weight
CBM-24	24	75	24	35	40	18	30	2100
CBM-30	30	80	30	35	40	18	30	2400
CBM-36	36	85	36	35	40	18	30	2500
CBM-42	42	90	42	35	40	18	30	2800
CBM-48	48	100	48	35	40	18	30	3100
CBM-54	54	105	54	35	40	18	30	3300
CBM-60	60	110	60	35	40	18	30	3600
CBM-72	72	120	72	35	40	18	30	3900

### HEAVY DUTY INLINE DIMENSIONS

MODEL NO.	BELT WIDTH	A	B	C	D	E	F	Weight
ILM-24	24	85	36	35	40	18	30	3000
ILM-30	30	85	36	41	46	21	33	3750
ILM-36	36	85	36	47	52	24	36	4650
ILM-42	42	85	36	53	58	27	39	5200
ILM-48	48	85	36	59	64	30	42	5750
ILM-54	54	85	36	65	70	33	45	6800
ILM-60	60	85	36	71	76	36	48	7650
ILM-72	72	85	36	83	88	42	54	9250

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

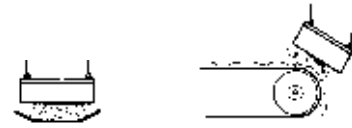


# MANUAL CLEANING PERMANENT MAGNETIC SEPARATORS

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Reduce operating expenses:
  - Remove potentially harmful tramp ferrous metal before it damages expensive processing equipment
  - Performs similar to Cross Belt Magnet except manual cleaning of ferrous metal is required
  - Improve product purity
- Permanent magnets operate without electrical hook-ups
- Lifetime warranty on the performance of the magnetic field strength
- No exposed or moving parts to wear or damage gives trouble-free service and longer life

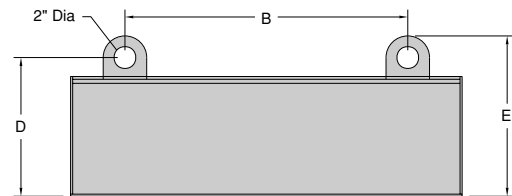
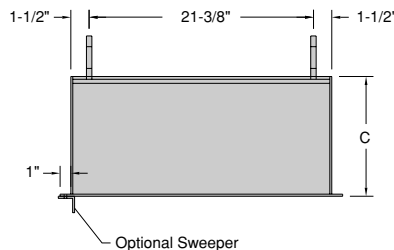


IN LINE HORIZONTAL MOUNT

ANGLE MOUNT

## Construction

- Magnetic box constructed of heavy grade first quality structural grade steel with permanent ceramic magnets
- Shipped complete and ready for installation



## Options

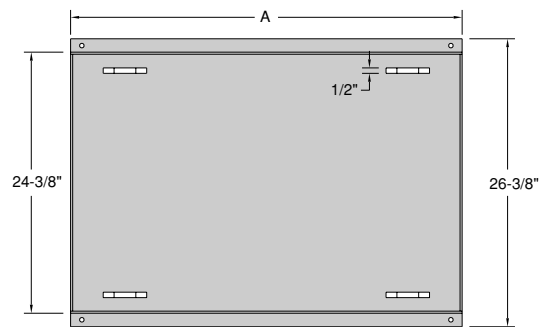
- Pivot arm available for easy cleaning
- Two mounting options: across the belt or in-line at the discharge point of the conveyor

### DOUGLAS MAGNET IDENTIFICATION

Standard Duty SMG - 24

Model # Belt Width

Permanent Magnetic Separator



## STANDARD HEAVY DUTY SUSPENDED DIMENSIONS AND WEIGHT

MODEL NO.	BELT WIDTH	A	B	C	D	E	WEIGHT
SMG-24	24	24-3/8	14	6-3/16	7-3/4	9-3/4	620
SMG-30	30	30-3/8	20	6-3/16	7-3/4	9-3/4	770
SMG-36	36	36-3/8	26	6-3/16	7-3/4	9-3/4	925
SMG-42	42	42-3/8	32	6-3/16	7-3/4	9-3/4	1080
SMG-48	48	48-3/8	38	6-3/16	7-3/4	9-3/4	1235
SMG-54	54	54-3/8	44	6-3/16	7-3/4	9-3/4	1390
SMG-60	60	60-3/8	50	6-3/16	7-3/4	9-3/4	1543
SMG-72	72	72-3/8	62	6-3/16	7-3/4	9-3/4	1850

## EXTRA HEAVY DUTY SUSPENDED DIMENSIONS AND WEIGHT

MODEL NO.	BELT WIDTH	A	B	C	D	E	WEIGHT
HMG-24	24	24-3/8	14	8-3/16	9-3/4	11-3/4	764
HMG-30	30	30-3/8	20	8-3/16	9-3/4	11-3/4	955
HMG-36	36	36-3/8	26	8-3/16	9-3/4	11-3/4	1146
HMG-42	42	42-3/8	32	8-3/16	9-3/4	11-3/4	1337
HMG-48	48	48-3/8	38	8-3/16	9-3/4	11-3/4	1528
HMG-54	54	54-3/8	44	8-3/16	9-3/4	11-3/4	1719
HMG-60	60	60-3/8	50	8-3/16	9-3/4	11-3/4	1910
HMG-72	72	72-3/8	62	8-3/16	9-3/4	11-3/4	2292

# SELF CLEANING ELECTRO-MAGNETIC SEPARATORS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Engineered to Remove Large Quantities of Tramp Ferrous Metals from Tough Applications
- Protects Expensive Processing Equipment from Potentially Damaging Ferrous Metals by Removing and Discharging Tramp Metal Automatically
- Electro Magnets Produce Maximum Magnetic Force
- Self Cleaning Feature Automatically Discharges Tramp Metal Away From the Conveyor Saving Labor Costs

## Construction

- Meets ANSI/CEMA Specifications and are Constructed from First Quality Materials
- Crown Face Head and Tail Pulleys Standard
- Heavy Duty Conveyor Belt with Stainless Steel Cleats Standard
- Oil Cooled Coil Dissipates Heat and Helps to Provide Trouble Free Service
- TEFC Class II Drive for Long Trouble Free Service Life

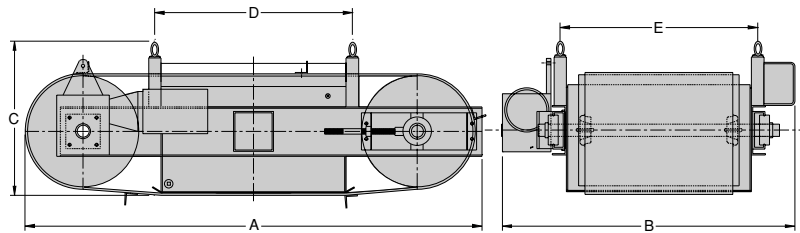
**DOUGLAS SEPARATOR  
IDENTIFICATION**

Electro-Magnetic Self Cleaning ESH – 36  
Rectifier RPS – 36

Belt Width

## Options

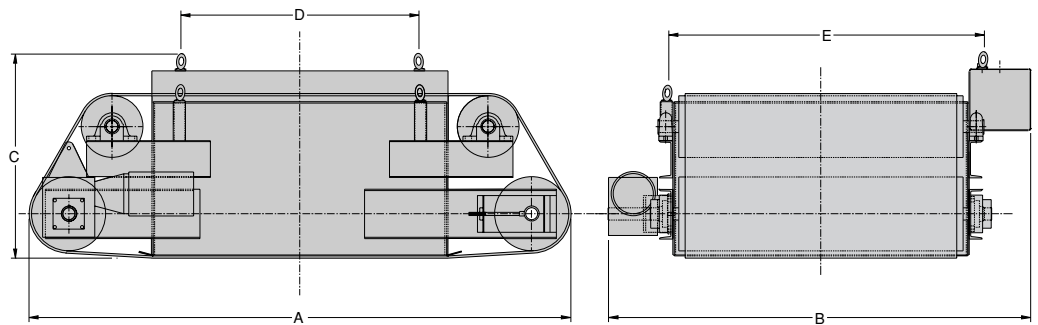
- Hot Vulcanized Rubber Cleats Optional
- Armor Clad Belt Optional
- Can be Mounted Cross Belt (Standard) or In-Line (Optional)



36" Belt Width and Below

## Warranty

- Douglas Self Cleaning Electro Magnetic Separators Carry a One Year Warranty from the Date of Shipment on Parts and Labor.\*



42" Belt Width and Above

### SELF CLEANING ELECTRO-MAGNET DIMENSIONS

MODEL NUMBER	BELT WIDTH	A	B	C	D	E
ESH-18	18	54	30	16	20	20
ESH-24	24	60	36	20	26	26
ESH-30	30	74	43	25	32	32
ESH-36	36	78	48	29	38	38
ESH-42	42	84	55	31	44	44
ESH-48	48	87	63	34	50	50
ESH-54	54	93	70	38	56	56
ESH-60	60	100	75	40	62	62
ESH-72	72	130	100	54	74	74

\*Warranty Void if the Electro-Magnetic Separator has not been properly maintained or has been damaged. The oil chambers must be filled and maintained properly to ensure proper operation and maintain the warranty. See Terms and Conditions in the back of this catalog.





# MANUAL CLEANING ELECTRO-MAGNETIC SEPARATORS

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Engineered to remove large quantities of tramp ferrous metals from tough applications
- Protects expensive processing equipment from potentially damaging ferrous metals by removing tramp metal
- Electro magnets produce maximum magnetic force
- Simple to operate and maintain — no moving parts to wear out or fail
- Easy to clean — turn off the power source and the collected material falls away

## Construction

- Meets ANSI/CEMA specifications, constructed from first quality materials
- Oil cooled coil dissipates heat and helps to provide trouble free service

## Options

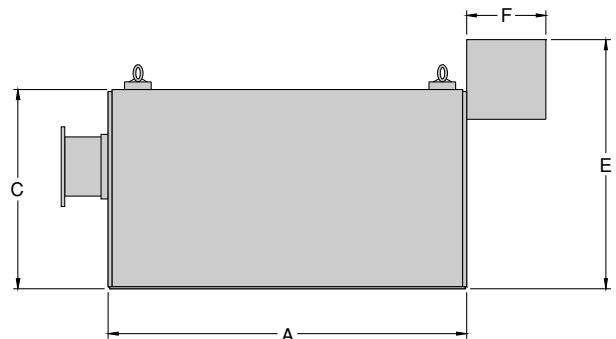
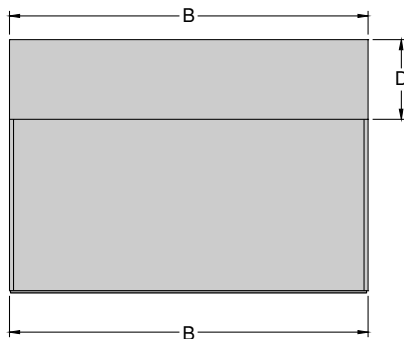
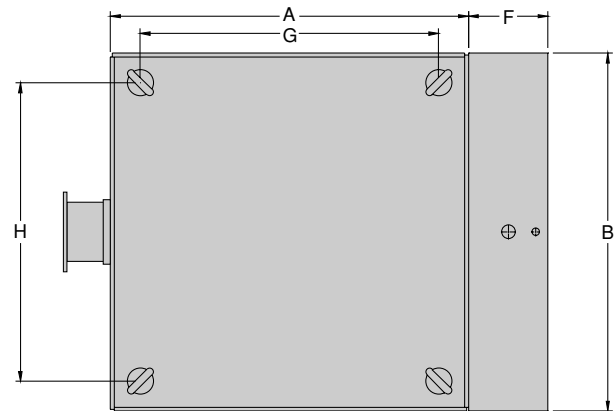
- Can be mounted cross belt (standard) or in-line (optional)

## Warranty

- Douglas manual cleaning electro-magnetic separators carry a one year warranty from the date of shipment on parts and labor.\*

### DOUGLAS SEPARATOR IDENTIFICATION

Electro-Magnetic Manual Cleaning **EMH - 36**  
 Rectifier **RPS - 36**  
| Belt Width



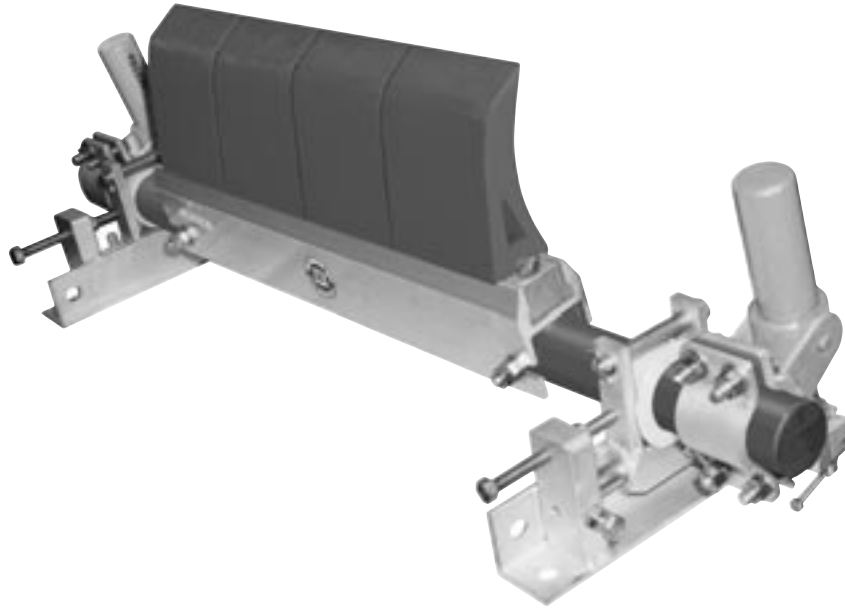
**MANUAL CLEANING ELECTRO-MAGNET DIMENSIONS**

MODEL NUMBER	BELT WIDTH	A	B	C	D	E	F	G	H
EMH-18	18	18	18	10	4	13	4	12	12
EMH-24	24	24	24	14	6	17	6	18	18
EMH-30	30	30	30	17	8	20	8	24	24
EMH-36	36	36	36	20	8	24	8	30	30
EMH-42	42	42	42	22	10	27	10	36	36
EMH-48	48	48	48	25	10	30	10	42	42
EMH-54	54	54	54	28	12	34	12	48	48
EMH-60	60	60	60	30	12	36	12	54	54
EMH-72	72	72	72	38	14	45	14	66	66

\*Warranty Void if the Electro-Magnetic Separator has not been properly maintained or has been damaged. The oil chambers must be filled and maintained properly to ensure proper operation and maintain the warranty. See Terms and Conditions in the back of this catalog.



# MATERIAL CONTROL PRODUCTS



## **BELT CLEANING SYSTEMS**

Mudcutter™ Primary Belt Cleaner .....	76
Earthscraper™ Secondary .....	77
Bulldog™ Belt Plow .....	78
Beater Rolls 5" and 6" Diameter .....	79
Squirrel Cage Rolls Heavy and Medium Duty 5" and 6" Diameter .....	80

## **IMPACT BED ASSEMBLIES**

Heavy Duty Impact Bed Assemblies .....	81
Trailblazer™ Heavy Duty Sectional Impact Bed Assemblies .....	82
Floater™ – Spring Shock Absorber Sectional Impact Bed Assemblies .....	83

## **GUARDIAN™ RETURN ROLL GUARD**

Galvanized Conveyor Covers .....	85
----------------------------------	----

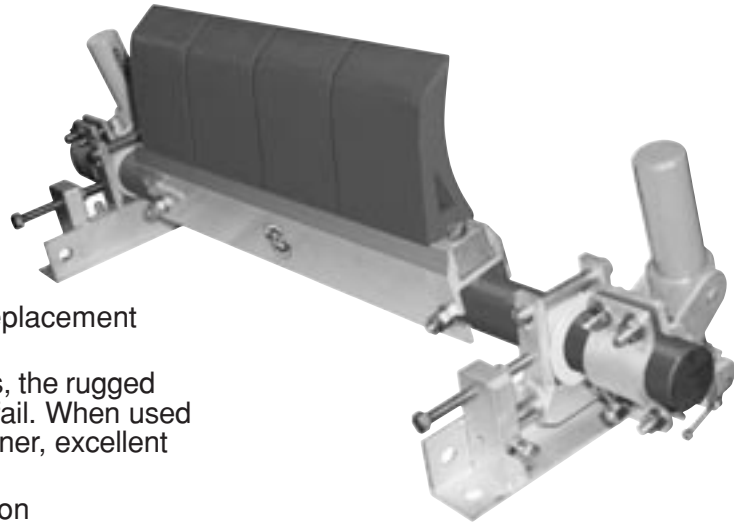


# MUDCUTTER™ PRIMARY BELT CLEANER

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

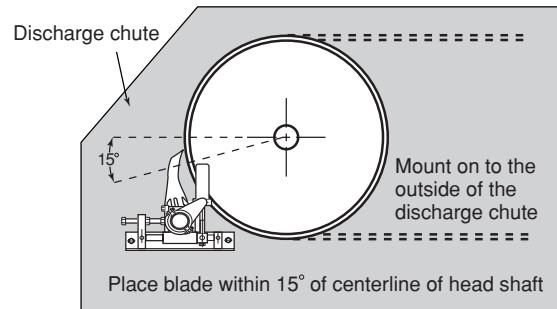
## Benefits

- Solid heavy duty urethane blade provides efficient, first stage cleaning. Design helps prevent material buildup
- The Mudcutter™ cleans at the most efficient point on the conveyor – the belt head section
- Fast and easy one bolt, slide out blade replacement saves time and money
- Designed specifically for harsh applications, the rugged design can succeed where other cleaners fail. When used with a Douglas heavy duty secondary cleaner, excellent belt cleaning is obtained.
- Simple design offers quick, easy installation



## Construction

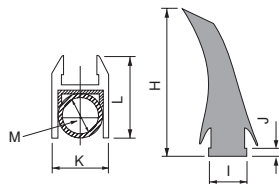
- Extra heavy segmented molded urethane blades
- Adjustable spring tension turret for simple adjustable blade tension; site gauge gives confirmation of optimal tension
- Cast aluminum frames



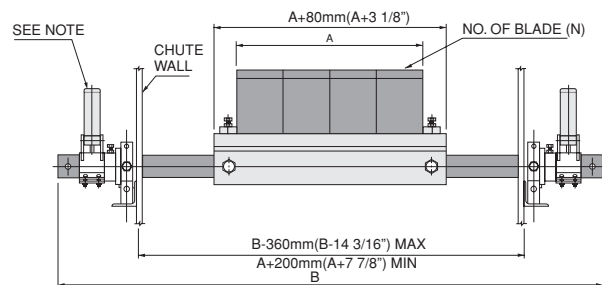
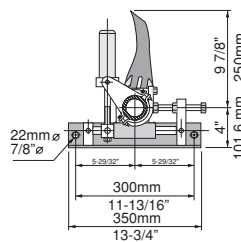
**DOUGLAS SCRAPER IDENTIFICATION**

**MPC – 201 – UR**

Primary Belt Scraper	Belt Width & Model	Urethane Blade
----------------------	--------------------	----------------



Blade Profile



## CLEANER DIMENSIONS

Part #	Belt Width	A	B	C	N	WT
MPC-201-UR	500mm(20")	450mm(17-11/16")	1500mm(59-1/16")	247mm(9-3/4")	3	80lb
MPC-241-UR	600mm(24")	450mm(17-11/16")	1650mm(64-15/16")	247mm(9-3/4")	3	82lb
MPC-301-UR	750mm(30")	600mm(23-5/8")	1800mm(70-7/8")	247mm(9-3/4")	4	90lb
MPC-361-UR	900mm(36")	750mm(29-1/2")	1950mm(76-3/4")	247mm(9-3/4")	5	97lb
MPC-421-UR	1050mm(42")	900mm(35-7/16")	2150mm(84-5/8")	247mm(9-3/4")	6	105lb
MPC-481-UR	1200mm(48")	1050mm(41-5/16")	2250mm(88-9/16")	247mm(9-3/4")	7	112lb
MPC-541-UR	1400mm(54")	1200mm(47-1/4")	2450mm(96-7/16")	310mm(12-3/16")	8	120lb
MPC-601-UR	1500mm(60")	1350mm(53-1/8")	2600mm(102-3/8")	310mm(12-3/16")	9	128lb
MPC-721-UR	1800mm(72")	1650mm(64-15/16")	2950mm(116-1/8")	310mm(12-3/16")	11	140lb

NOTE: BELT WIDTH 1200MM(48") AND UNDER

NOTE: FOR CLEANER WITH TUNGSTEN CARBIDE/RUBBER BLADE DESIGNATE TC IN PLACE OF UR IN

# EARTHSCRAPER™ SECONDARY BELT CLEANER



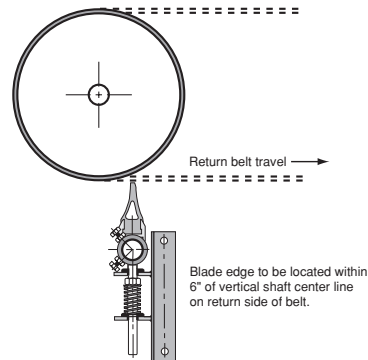
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Segmented urethane blades give long wear with simple one bolt slide out replacement
- Heavy cast aluminum frame construction provides long life in all applications
- Special spring tensioner automatically adjusts blades for maximum cleaning efficiency
- Horizontal and vertical adjustment allows for easy installation
- Saves up to 50% on replacement blades

## Construction

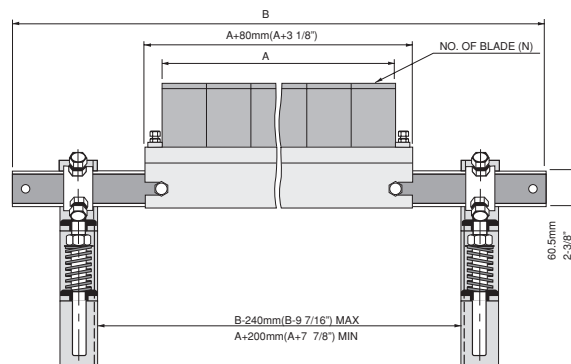
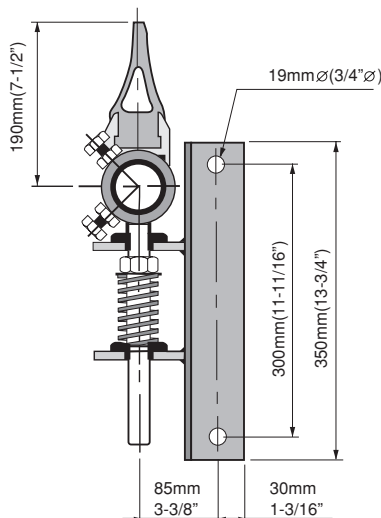
- Extra heavy segmented molded urethane blades
- Heavy duty coil springs
- Extruded aluminum frames



**DOUGLAS SCRAPER IDENTIFICATION**

ESC - 181 - UR

Secondary Scraper	Belt Width & Model	Urethane Blade
----------------------	-----------------------	-------------------



## CLEANER DIMENSIONS

Part #	Belt Width	A	B	N	WT.
ESC-181-UR	450mm(18")	381mm(15")	1500mm(59-1/16")	5	74lb
ESC-201-UR	500mm(20")	457mm(18")	1550mm(61")	6	80lb
ESC-241-UR	600mm(24")	533mm(21")	1650mm(64-15/16")	7	82lb
ESC-301-UR	750mm(30")	686mm(27")	1800mm(70-7/8")	9	90lb
ESC-361-UR	900mm(36")	838mm(33")	1950mm(76-3/4")	11	97lb
ESC-421-UR	1050mm(42")	991mm(39")	2150mm(84-5/8")	13	105lb
ESC-481-UR	1200mm(48")	1143mm(45")	2250mm(88-9/16")	15	112lb
ESC-541-UR	1400mm(54")	1295mm(51")	2450mm(96-7/16")	17	120lb
ESC-601-UR	1500mm(60")	1448mm(57")	2600mm(102-3/8")	19	128lb

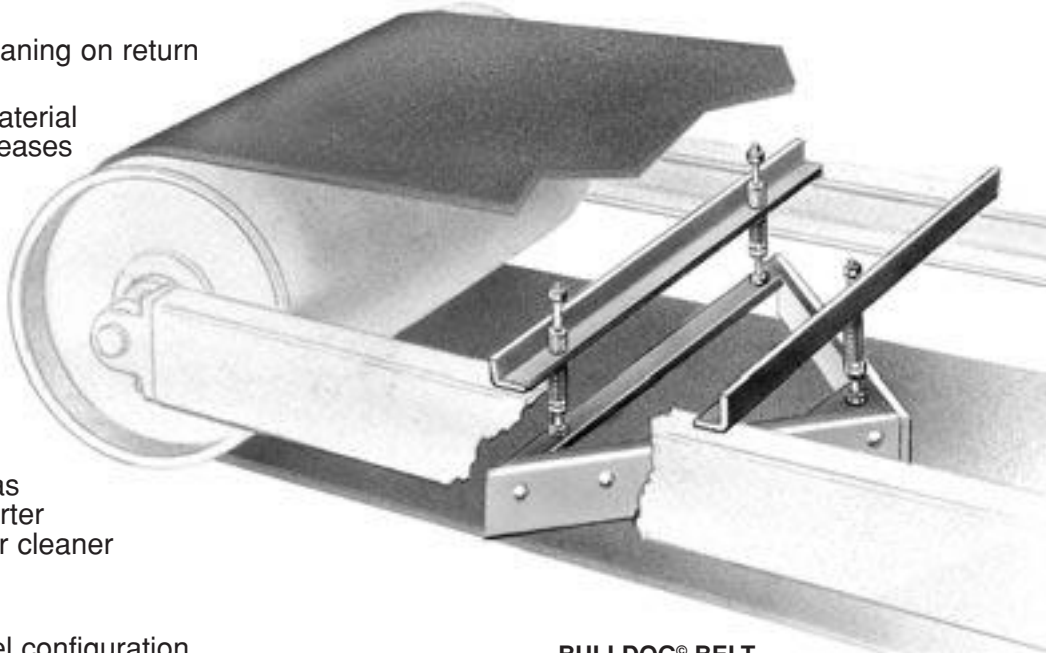


# BULLDOG™ BELT PLOW

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Maximum level of cleaning on return side of belt  
Prevents foreign material build up and decreases resultant belt and roller damage
- Diverts material when mounted on the top side of the belt, discharging material to one or both sides of conveyor belt
- Protects tail pulley and belt when used in front of tail pulley as a tramp material diverter and bottom belt cover cleaner



## Construction

- Standard carbon steel configuration
- Heavy duty construction with 1" thick urethane wiper blades for long life and efficient cleaning

## Options

- Stainless steel frame

**DOUGLAS PLOW IDENTIFICATION**

CBP - 12

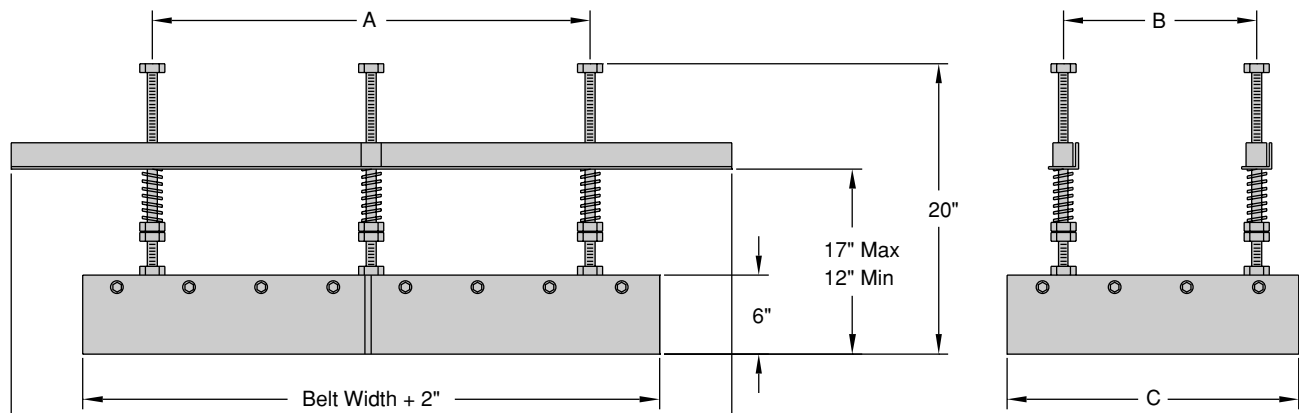
Conveyor  
Belt  
Plow

Belt  
Width



## BULLDOG® BELT PLOW DIMENSIONS

Model No.	Belt Width	A	B	C
CBP-12	12	8	5	7
CBP-16	16	12	7	9
CBP-18	18	14	8	10
CBP-20	20	16	9	11
CBP-24	24	20	11	13
CBP-30	30	13	6-1/2	16
CBP-36	36	19	9-1/2	19
CBP-42	42	25	12-1/2	22
CBP-48	48	31	15-1/2	25
CBP-54	54	37	18-1/2	28
CBP-60	60	43	21-1/2	31
CBP-72	72	55	27-1/2	37



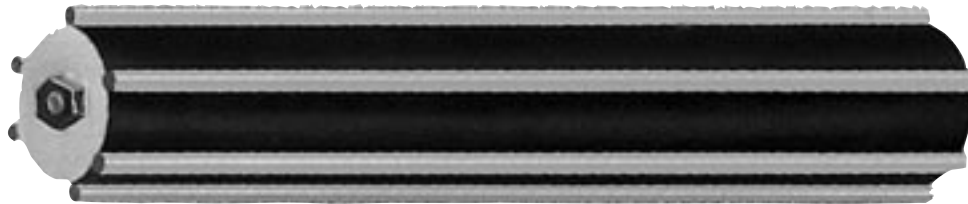
# BEATER ROLLS

## 5" and 6" Diameter



**Heavy 20mm (.787") Precision, Permanent Sealed Bearings  
Only Effective Belt Cleaner for Side Wall and Cleated Belts  
For Best Results Install Immediately Behind Head Pulley**

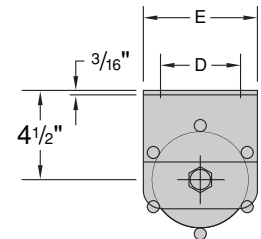
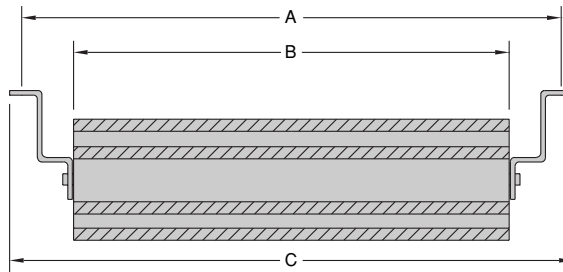
- Irregular roll face causes beating action dislodging material on belt



**DOUGLAS IDLER IDENTIFICATION**

BRI - 05 - 18

Beater Rolls Idler	Roll Diameter	Belt Width
--------------------------	------------------	---------------



### BEATER ROLL 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	BRI-05-18	17	27	21	29	4	6	1/2
20	BRI-05-20	18	29	23	31	4	6	1/2
24	BRI-05-24	21	33	27	35	4	6	1/2
30	BRI-05-30	24	39	33	41	4	6	1/2
36	BRI-05-36	27	45	39	47	4	6	1/2
42	BRI-05-42	34	51	45	53	4	6	1/2
48	BRI-05-48	37	57	51	59	4	6	1/2
54	BRI-05-54	40	63	57	65	4	6	1/2

### BEATER ROLL 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTD BOLT
18	BRI-06-18	22	27	21	29	4	6	1/2
20	BRI-06-20	23	29	23	31	4	6	1/2
24	BRI-06-24	26	33	27	35	4	6	1/2
30	BRI-06-30	32	39	33	41	4	6	1/2
36	BRI-06-36	36	45	39	47	4	6	1/2
42	BRI-06-42	41	51	45	53	4	6	1/2
48	BRI-06-48	45	57	51	59	4	6	1/2
54	BRI-06-54	48	63	57	65	4	6	1/2

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.





# HEAVY-DUTY SQUIRREL CAGE ROLLS

## 5" and 6" Diameter

Includes 1 7/16" Diameter Shaft and Ball Bearing Pillow Blocks

### Benefits

- No material build up
- Belt cleaning from belt vibration
- Use as a return idler for horizontal cleated belting
- 7" Diameter is available

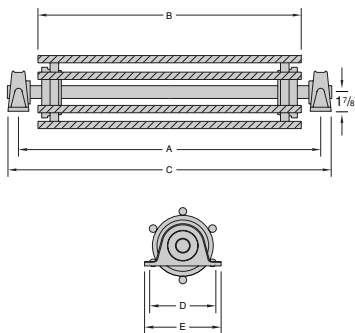
### DOUGLAS IDLER IDENTIFICATION

SCH - 24 - 05

Squirrel Cage  
Heavy-Duty

Belt  
Width

Roll  
Diameter



### SQUIRREL CAGE ROLL 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTG BOLT
24	SCH-24-05	22	33	27	35	4	5 1/2	3/8
30	SCH-30-05	24	39	33	41	4	5 1/2	3/8
36	SCH-36-05	27	45	39	47	4	5 1/2	3/8
42	SCH-42-05	35	51	45	53	4	5 1/2	3/8
48	SCH-48-05	37	57	51	59	4	5 1/2	3/8
54	SCH-54-05	41	63	57	65	4	5 1/2	3/8
60	SCH-60-05	45	69	63	71	4	5 1/2	3/8
72	SCH-72-05	51	81	75	83	4	5 1/2	3/8

### SQUIRREL CAGE ROLL 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTG BOLT
24	SCH-24-06	24	33	27	35	4	5 1/2	3/8
30	SCH-30-06	26	39	33	41	4	5 1/2	3/8
36	SCH-36-06	30	45	39	47	4	5 1/2	3/8
42	SCH-42-06	38	51	45	53	4	5 1/2	3/8
48	SCH-48-06	40	57	51	59	4	5 1/2	3/8
54	SCH-54-06	45	63	57	65	4	5 1/2	3/8
60	SCH-60-06	49	69	63	71	4	5 1/2	3/8
72	SCH-72-06	55	81	75	83	4	5 1/2	3/8

CAUTION: IF USED ON BELT WITH HORIZONTAL CLEATS CHECK FOR CLEARANCE ON CLEAT LENGTH AND HEIGHT.

Note: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# MEDIUM-DUTY SQUIRREL CAGE ROLLS

## 5" and 6" Diameter

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

### Benefits

- No material build up
- Belt cleaning from belt vibration
- Use as a return idler for horizontal cleated belting

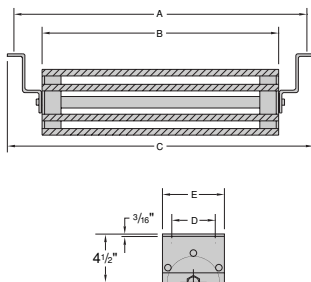
### DOUGLAS IDLER IDENTIFICATION

SCM - 18 - 05

Squirrel Cage  
Medium-Duty

Belt  
Width

Roll  
Diameter



### SQUIRREL CAGE ROLL 5" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTG BOLT
14	SCM-14-05	15	23	17	25	4	6	1/2
16	SCM-16-05	16	25	19	27	4	6	1/2
18	SCM-18-05	17	27	21	29	4	6	1/2
20	SCM-20-05	19	29	23	31	4	6	1/2
24	SCM-24-05	22	33	27	35	4	6	1/2
30	SCM-30-05	24	39	33	41	4	6	1/2

### SQUIRREL CAGE ROLL 6" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	MTG BOLT
14	SCM-14-06	18	23	17	25	4	6	1/2
16	SCM-16-06	20	25	19	27	4	6	1/2
18	SCM-18-06	22	27	21	29	4	6	1/2
20	SCM-20-06	24	29	23	31	4	6	1/2
24	SCM-24-06	27	33	27	35	4	6	1/2
30	SCM-30-06	32	39	33	41	4	6	1/2

CAUTION: IF USED ON BELT WITH HORIZONTAL CLEATS CHECK FOR CLEARANCE ON CLEAT LENGTH AND HEIGHT.



# HEAVY DUTY CEMA C & D IMPACT BED ASSEMBLIES



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

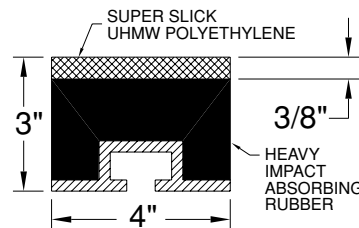
## Benefits

- Absorbs shock loads and helps prevent belt damage by supporting the full width of the conveyor belt
- Provides near perfect seal between conveyor belt and skirt boards
- Eliminates the cost of idler maintenance and failure, no bent idler shafts, frames or worn rollers to replace
- Support arms adjustable from flat to 20° and 35°
- Easy installation



## Construction

- Frame constructed of heavy grade structural steel
- Impact bars constructed of shock absorbing rubber with friction reducing UHMW caps (see inset)
- Replacement Impact Bars mount using field proven T-Bolt locking system
- Shipped complete and ready for installation



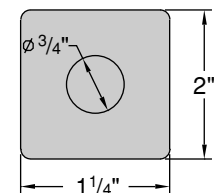
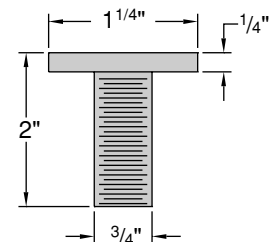
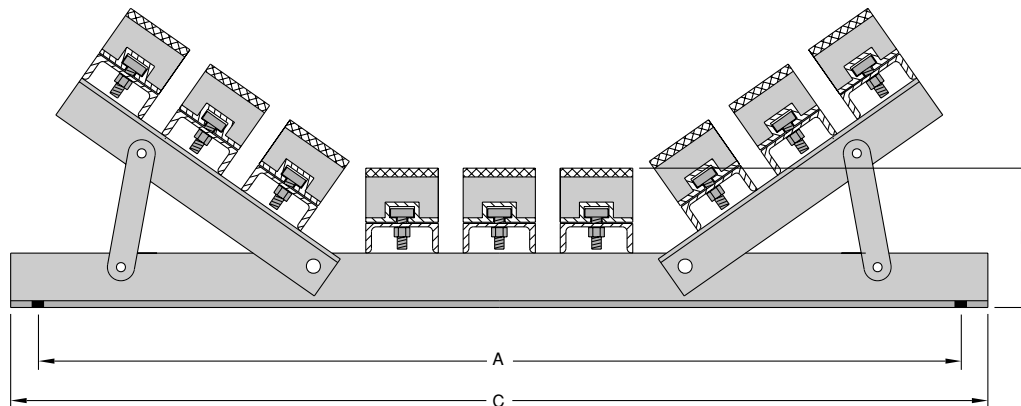
## DOUGLAS IMPACT BED IDENTIFICATION

IBA - 24 - 55  
Impact Bed Assemblies      Belt Width      Length

IBB - 48  
Replacement Bar      Length

## Options

- Bar and bed length available in 48", 55" and 60" lengths
- Replacement Bars available
- "T" Bolts available



Standard "T" Bolt

## HEAVY DUTY IMPACT BED DIMENSIONS

BELT WIDTH	MODEL NO.	A	C	B	Number of Bars	Mounting Bolts	48" Weight	60" Weight
24	IBA-24-00	33	36	7-13/16	6	5/8	510	570
30	IBA-30-00	39	42	7-13/16	6	5/8	520	590
36	IBA-36-00	45	48	7-13/16	7	5/8	585	675
42	IBA-42-00	51	54	8-7/16	9	5/8	735	850
48	IBA-48-00	57	60	8-7/16	9	5/8	745	860
54	IBA-54-00	63	66	8-7/16	10	5/8	850	977
60	IBA-60-00	69	72	8-7/16	12	5/8	940	1093



# TRAILBLAZER™ HEAVY DUTY SECTIONAL IMPACT BED ASSEMBLIES

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

Acceptable for CEMA-E impact ratings.

## Benefits

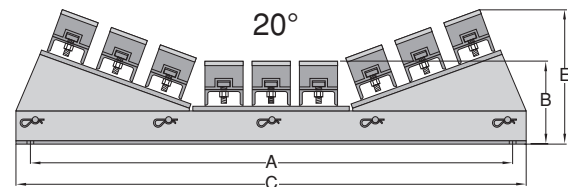
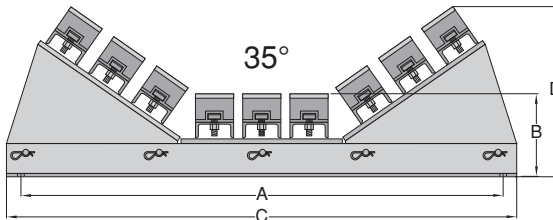
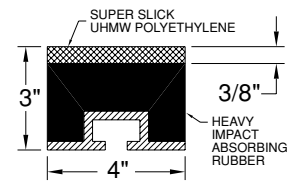
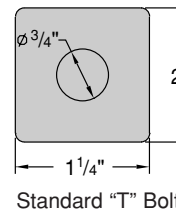
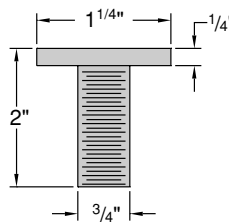
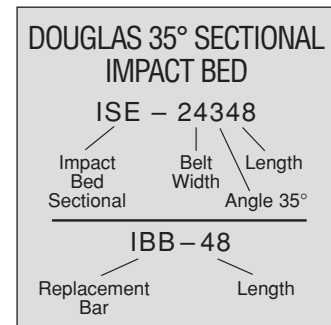
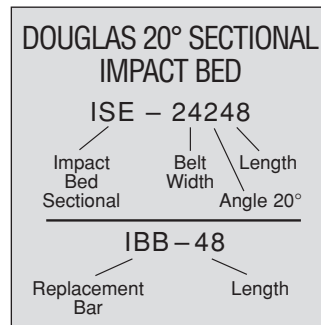
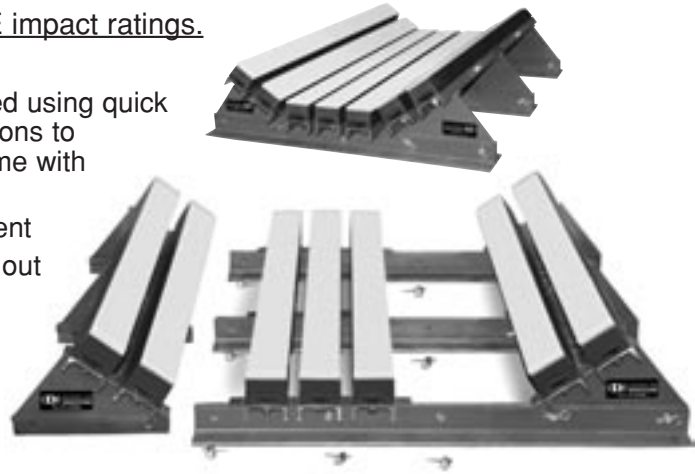
- Three (3) piece sectional "Trailblazer" impact bed using quick release hitch pins allows each of the three sections to slide in either direction for removal from the frame with the conveyor belt in place, reducing down time.
- Removable sections allow simple bar replacement
- Sections allow for ease of installation in tight or out of the way applications
- Absorbs shock loads and helps prevent belt damage by supporting the full width of the conveyor belt
- Provides near perfect seal between conveyor belt and skirt boards
- Eliminates the cost of idler maintenance and failure, no bent idler shafts, frames or worn rollers to replace

## Construction

- Frame constructed of heavy grade structural steel
- Impact bars constructed of shock absorbing rubber with friction reducing UHMW caps (see inset)
- Replacement Impact Bars mount using field proven T-Bolt locking system

## Options

- Bar and bed length available in 48" and 60" lengths
- 20° and 35° troughs
- Replacement bars available
- "T" Bolts, hitch pins and clips available



SECTIONAL HEAVY DUTY IMPACT BED DIMENSIONS

BELT WIDTH	MODEL NO. 20° SIDE ARMS	MODEL NO. 35° SIDE ARMS	A	B	C	D	E	Number of Bars	Mounting Bolts	48" Weight	60" Weight
24	ISE-24200	ISE-24300	33	7-13/16	36	13-1/2	11-5/16	6	5/8	580	640
30	ISE-30200	ISE-30300	39	7-13/16	42	13-5/8	11-3/8	6	5/8	593	653
36	ISE-36200	ISE-36300	45	7-13/16	48	13-5/8	11-1/8	7	5/8	655	725
42	ISE-42200	ISE-42300	51	8-7/16	54	18	14-3/16	9	5/8	805	895
48	ISE-48200	ISE-48300	57	8-7/16	60	18	14-9/16	9	5/8	825	915
54	ISE-54200	ISE-54300	63	8-7/16	66	19-1/8	15	10	5/8	900	1000
60	ISE-60200	ISE-60300	69	8-7/16	72	21	16	12	5/8	1010	1130

# FLOATER™ SECTIONAL IMPACT BED ASSEMBLY



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

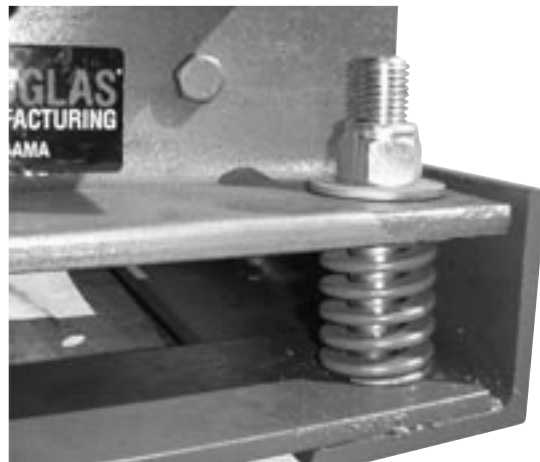
## Benefits

- Engineered spring shock absorber constantly adjusts to shock loads and helps to prevent belt damage by supporting the full width of the conveyor belt
- Removable bars employs field tested T-Bolt design for simple bar replacement and maintenance saving time and money
- Provides near perfect seal between the conveyor belt and skirt boards
- Belt rides on low friction UHMW plastic with deformable rubber under the sliding surface to help absorb impact
- Sturdy construction will accommodate up to CEMA E impact ratings
- Helps eliminate the cost of idler maintenance and failure – no bent idler shafts or worn rollers to replace



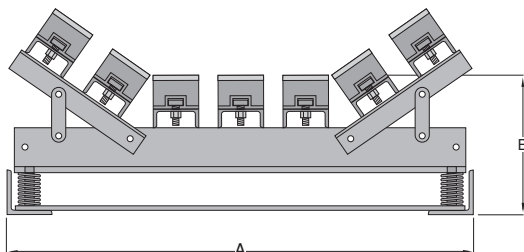
## Construction

- Shock absorber constructed of heavy gauge spring for virtually trouble-free operation
- Frame and rails constructed of heavy grade structural steel and full depth welds
- Impact bars constructed of low friction UHMW plastic with specially engineered shock absorbing rubber
- Replacement of impact bars is easy with field proven T-Bolt locking system
- Shipped complete and ready for installation



## Options

- Bar and bed lengths available in 48" and 60" lengths
- Beds designed for 18"-72" belt widths
- 20° and 35° trough available
- Support arms adjustable from flat to 20° and 35°
- Replacement bars and t-bolts available for shipment from stock



## DOUGLAS FLOATER™ IDENTIFICATION

IFC – 30 – 48  
 |                    |                    |  
 Impact          Belt                  Length  
 Bed                Width  
 Assembly

## SECTIONAL IMPACT BED DIMENSIONS

BELT WIDTH	MODEL NO.	A	B	Number of Bars	48" Weight	60" Weight
30	IFC-30-00	35 1/2	11 9/16	6	650	710
36	IFC-36-00	41 1/2	11 9/16	7	726	795
42	IFC-42-00	47 1/2	12 9/16	9	880	970
48	IFC-48-00	53 1/2	12 9/16	9	905	995
54	IFC-54-00	59 1/2	12 9/16	10	1010	1110
60	IFC-60-00	65 1/2	12 9/16	12	1120	1240



# GUARDIAN™ RETURN ROLL GUARD

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

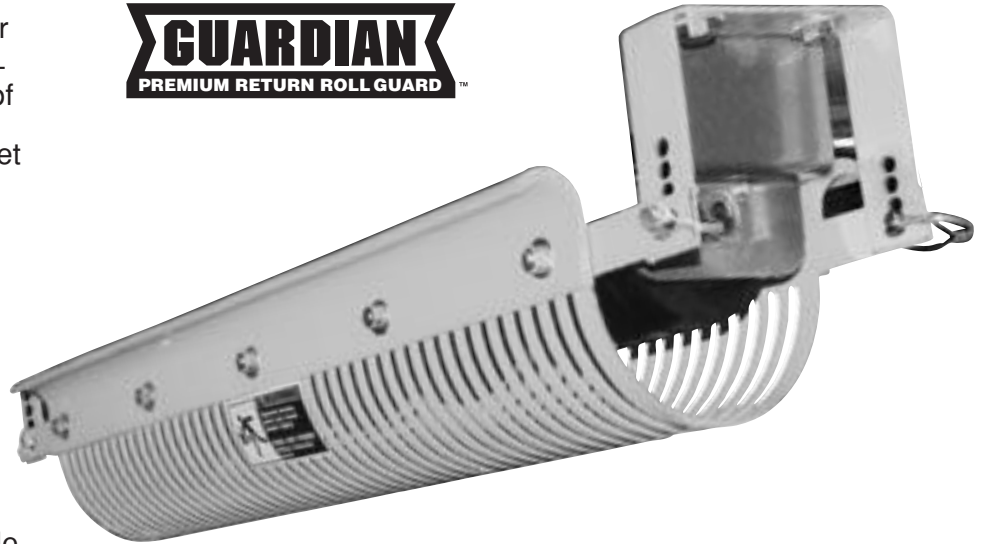
- Enhance safety on belt conveyor
- 180° design helps to protect personnel from the front and back of roller and catches the roll if it should fall from the return bracket
- Specially designed slotted steel cage helps prevent material build-up
- Hinged design allows either end to be dropped for easy cleaning
- Can be used with CEMA\* B, C & D idlers
- Can be used with other CEMA\* manufacturers' return idlers

## Construction

- Hitchpin clip design allows simple installation and easiest possible clean-out
- Universal mounting brackets work with 4", 5" and 6" idlers for 1 1/2" to 4 1/2" drop brackets
- Comes complete with safety warning labels, easy to install instructions and special mounting brackets
- Profiled urethane to rubber contact points help ensure long life and enhance safety

## Options

- Optional End Shield available
- Bolts available where clips are not desired

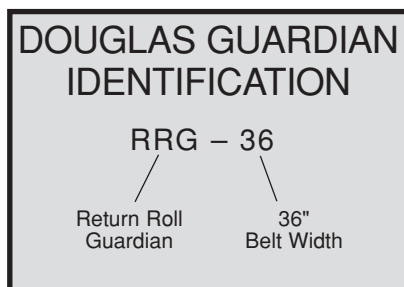
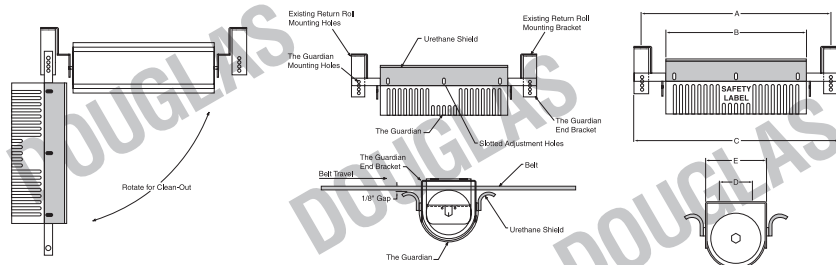


## DIMENSIONS AND SPECIFICATIONS

The Guardian™— Return Idler Guard Dimensions

Model No.	Belt Width in (mm)	Wt. lb	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	Mounting Bolt
RRG-18	18 (457)	12	27 (686)	21-5/16 (541)	29 (737)	4 (102)	7 3/8 (187)	1/2"
RRG-24	24 (610)	14	33 (838)	27-5/16 (694)	35 (889)	4 (102)	7 3/8 (187)	1/2"
RRG-30	30 (762)	15	39 (991)	33-5/16 (846)	41 (1041)	4 (102)	7 3/8 (187)	1/2"
RRG-36	36 (914)	17	45 (1143)	39-5/16 (999)	47 (1194)	4 (102)	7 3/8 (187)	1/2"
RRG-42	42 (1067)	18	51 (1295)	45-5/16 (1151)	53 (1346)	4 (102)	7 3/8 (187)	1/2"
RRG-48	48 (1219)	20	57 (1448)	51-5/16 (1303)	59 (1499)	4 (102)	7 3/8 (187)	1/2"
RRG-54	54 (1372)	21	63 (1600)	57-5/16 (1456)	65 (1651)	4 (102)	7 3/8 (187)	1/2"
RRG-60	60 (1524)	23	69 (1753)	63-5/16 (1608)	71 (1803)	4 (102)	7 3/8 (187)	1/2"

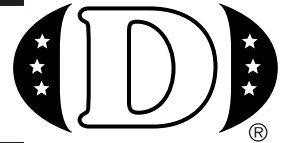
## GENERAL ARRANGEMENT AND LOCATION OF THE GUARDIAN™



**IMPORTANT:** Designed to be installed with a 1/8 inch gap between the guard and the belt. ALWAYS FOLLOW OSHA, STATE AND OWNER REQUIRED SAFETY GUIDELINES/REGULATIONS DURING THE INSTALLATION OR OPERATION OF A CONVEYOR SYSTEM. Douglas Manufacturing Co., Inc. strongly recommends that any safety program be supplemented by the use of ANSI B20 that refers to conveyor systems. Never operate, adjust or install equipment on a moving conveyor. Always follow lock out and tag out procedures when working on conveyor systems. Personnel who work on or around conveyor systems must be safety trained and familiar with conveyor systems. The Guardian must be inspected periodically to determine if the unit is in proper working order by inspecting and replacing the urethane seal, inspecting to see if material build-up has occurred and ensuring proper adjustment and tightness of all adjustable bolts. Failure to do so may result in serious injury or death. No idler guard can protect against potential danger in all situations or against all hazards. The Guardian™ is designed to help minimize the potential for danger but cannot guarantee protection in all situations or applications. If you have questions or need assistance please call 205-884-1200 or fax 205-884-1206.



# GALVANIZED CONVEYOR COVERS



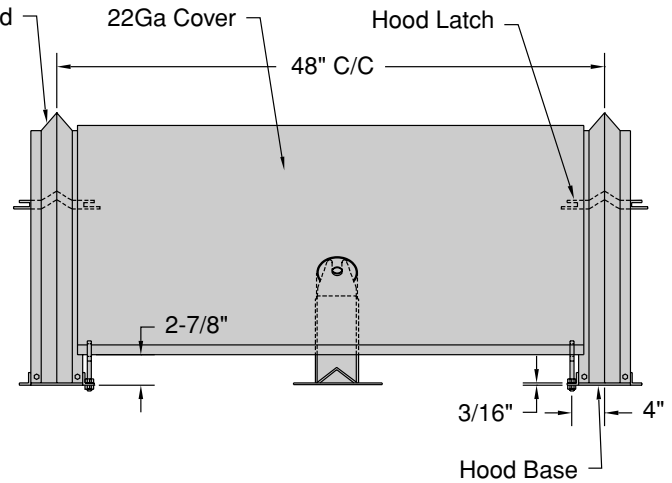
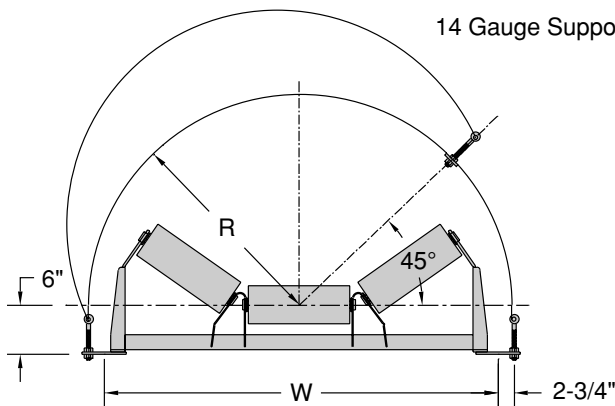
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Helps decrease operating expenses
  - Protects conveyed material from natural elements
  - Protects idlers, belts and other components from natural elements
- Offers increased safety factor to personnel
- Special design allows for hoods to be secured in two different positions to allow easy access for maintenance and inspection
- Suitable for practically all environmental conditions
- Shipped complete less mounting bolts



Shown in open position



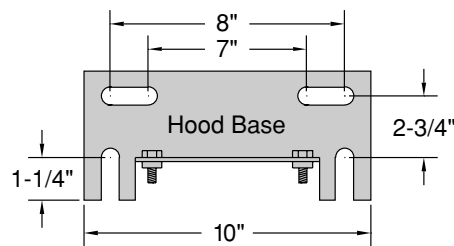
**DOUGLAS COVER IDENTIFICATION**

CVR - 24  
Cover Belt Width

---

CSB - 24  
Support Band Belt Width

**3/4**  
COVERS  
AVAILABLE



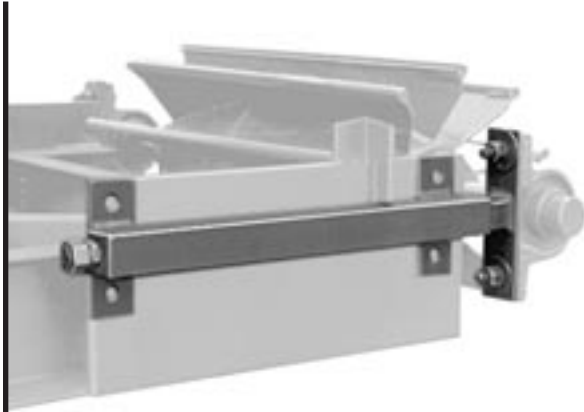
## GALVANIZED CONVEYOR COVER DIMENSIONS

Model #	Model #	Belt Width	R	W	Mounting Bolt	Weight
CVR-18	CSB-18	18	16-1/4	27	5/8	53
CVR-20	CSB-20	20	17-1/4	29	5/8	55
CVR-24	CSB-24	24	19-1/4	33	5/8	59
CVR-30	CSB-30	30	22-1/4	39	5/8	66
CVR-36	CSB-36	36	25-1/4	45	5/8	72
CVR-42	CSB-42	42	28-1/4	51	5/8	79
CVR-48	CSB-48	48	31-1/4	57	5/8	85
CVR-54	CSB-54	54	34-1/4	63	5/8	91
CVR-60	CSB-60	60	37-1/4	69	5/8	98
CVR-72	CSB-72	72	43-1/4	81	5/8	110





# BELT TENSIONING SYSTEMS



Slide Tube® Take-Ups .....	88
Top Angle Protected Screw Take-Ups .....	89
Heavy Duty Center Pull Take-Ups .....	90
Top Mount Heavy Duty Take-Ups .....	91
Scissor Pivot Gravity™ Take-Up Assemblies .....	92



# SLIDE TUBE TAKE-UPS™

Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

### Benefits

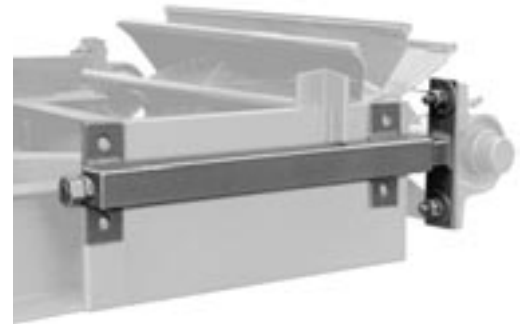
- Eliminates the need for additional take-up frame supports
- Even load distribution
- Use in conjunction with easy to find and inexpensive pillow block assemblies
- Cuts labor time in half
- Easiest frame to retrofit
- Space saving

### Construction

- Enclosed housing helps prevent material from fouling the threaded rod
- Increased strength and performance resulting from design features
- Standard construction to accept ball bearing pillow block
- ACME square threaded rod in all models
- Consult factory if roller bearing pillow blocks are used

### Options

- Optional grease zerk fitting available
- Ball or roller bearing pillow blocks



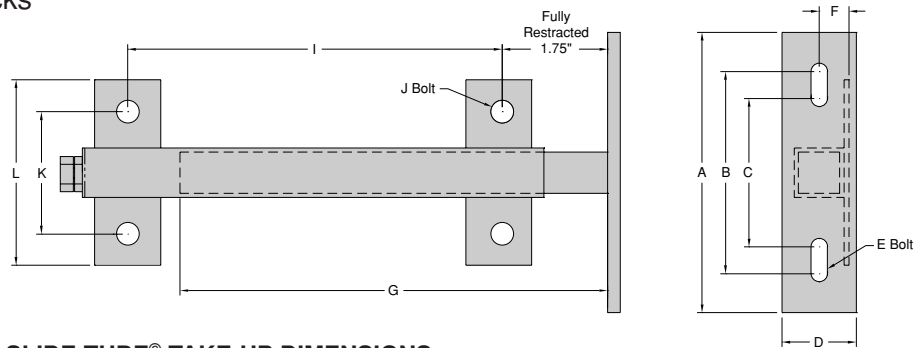
### DOUGLAS OPTIONAL PILLOW BLOCK IDENTIFICATION

PBB – 1 <sup>15</sup> / <sub>16</sub>	PBR – 2 <sup>15</sup> / <sub>16</sub>
Ball Bearing	Roller Bearing
Shaft Size	Shaft Size

### DOUGLAS TAKE-UP IDENTIFICATION

STT – 2018

Slide Tube Take-Up    Model #    Travel



SLIDE TUBE® TAKE-UP DIMENSIONS

Model	Travel	Bore	Part#	A	B	C	D	E	F	G	I	J	K	L	Wt
20	9	1-3/16"-2"	STT-2009	8-1/2	6-1/16	4-9/16	2-1/4	1/2	1-1/16	10	8-1/4	5/8	3-11/16	5-5/8	11
	12		13							11-1/4	12				
	18		19							17-1/4	14				
30	12	2-3/16"-3"	STT-3009	12	10-3/8	5-3/4	3-1/2	3/4	1-1/2	14	9-1/4	5/8	4-7/16	6-3/8	12
	12		14							12-1/4	16				
	18		20							18-1/4	20				
	24		26							24-1/4	24				
	24		26							24-1/4	24				
35	12	3-7/16"	STT-3512	14	11-11/16	8-9/16	3-1/2	7/8	1-15/16	14	11-3/4	3/4	5-13/16	8-1/8	28
	18		20							17-3/4	36				
	24		26							23-3/4	44				
45	18	4-7/16"	STT-4518	14	11-11/16	8-9/16	4	7/8	2	20	17-3/8	3/4	8	11	48
	24		26							23-3/8	52				
	30		32							29-3/4	56				
	36		38							35-3/4	60				
	48		50							47-3/4	64				
55	18	4-15/16"	STT-5518	16-1/2	*	*	5	*	2-1/2	21	18-3/8	3/4	11	14	68
	24		27							24-3/8	72				
	30		33							30-3/4	76				
	36		39							36-3/4	80				
	48		51							48-3/4	84				

\*Bearing plate hole pattern made to order – 2 or 4 hole.

# TOP ANGLE PROTECTED SCREW TAKE-UPS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Protected screw allows for smooth adjustment in most applications
- Bolted top angle protects threaded rod and allows for simple bearing removal and replacement

## Construction

- Standard unit includes\* Link-Belt®\*\* 22400 series roller bearings with set screw mounting

\*\*Registered Trademark Rexnord Corp.



**DOUGLAS TAKE-UP IDENTIFICATION**

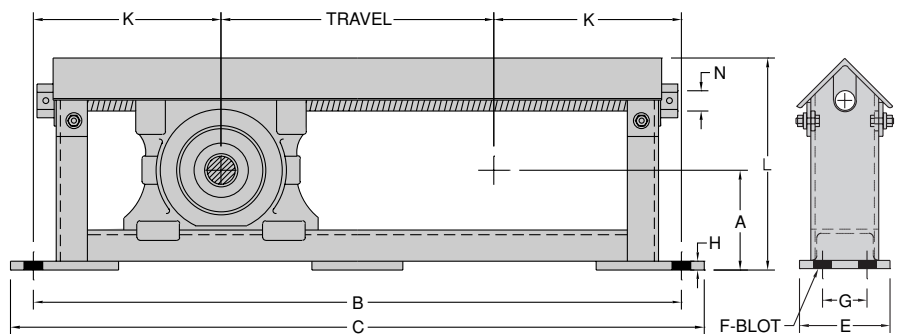
Frame TAF – 200 – 12  
Top Angle Model # Travel  
Frame

---

TPR – 27/16  
Top Angle Take-Up Bore  
Roller Bearing

---

TPB – 1 15/16  
Top Angle Take-Up Bore  
Ball Bearing



Note: Models 200-207 have one mounting bolt on each end of the frame.

## TOP ANGLE PROTECTED SCREW TAKE-UPS DIMENSIONS

Model	Travel	Bore	Part#	A	B	C	E	F	G	H	K	L	N	Wt
200	12	1-15/16	TAF-200-12	3-15/16	26-1/2	28-1/2	4	5/8	-	3/8	7-1/4	8-1/4	3/4	35
	18		TAF-200-18		32-1/2	34-1/2								40
	24		TAF-200-24		38-1/2	40-1/2								46
	30		TAF-200-30		44-1/2	46-1/2								52
	36		TAF-200-36		50-1/2	54-1/2								58
203	12	2-3/16	TAF-203-12	4-3/16	27-1/2	29-1/2	4	5/8	-	3/8	7-3/4	8-5/8	3/4	39
	18		TAF-203-18		33-1/2	35-1/2								44
	24		TAF-203-24		39-1/2	41-1/2								50
	30		TAF-203-30		45-1/2	47-1/2								55
	36		TAF-203-36		51-1/2	53-1/2								60
207	12	2-7/16	TAF-207-12	4-3/8	28-1/2	30-1/2	4	3/4	-	3/8	8-1/4	9-3/8	7/8	40
	18		TAF-207-18		34-1/2	36-1/2								45
	24		TAF-207-24		40-1/2	42-1/2								50
	30		TAF-207-30		46-1/2	48-1/2								55
	36		TAF-207-36		52-1/2	54-1/2								60
300	12	2-15/16	TAF-300-12	4-15/16	30-1/2	32-1/2	5	5/8	2	1/2	9-1/4	10-7/16	1	42
	18		TAF-300-18		36-1/2	38-1/2								48
	24		TAF-300-24		42-1/2	44-1/2								53
	30		TAF-300-30		48-1/2	50-1/2								60
	36		TAF-300-36		54-1/2	56-1/2								65
307	12	3-7/16	TAF-307-12	5-7/16	32	34-1/4	5	3/4	2	1/2	10	12-9/16	1-1/8	73
	18		TAF-307-18		38	40-1/4								83
	24		TAF-307-24		44	46-1/4								92
	30		TAF-307-30		50	52-1/4								102
	36		TAF-307-36		56	58-1/4								111



# HEAVY DUTY CENTER PULL TAKE-UPS

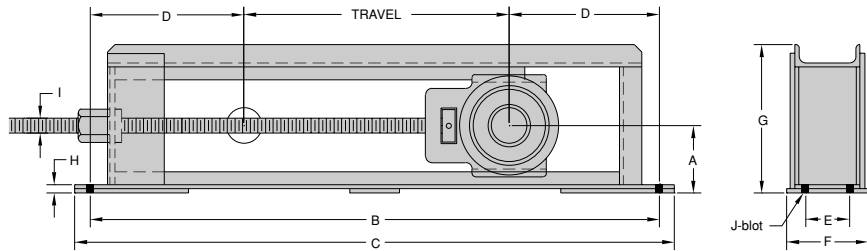
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

### Benefits

- Simple bearing removal and replacement design

### Construction

- Standard unit includes wide slot take-up roller bearing



## DOUGLAS TAKE-UP IDENTIFICATION

CPT - 200 - 12  
Center Pull Take-Up Frame      Model #      Travel

---

Bearing CPR - 2<sup>7</sup>/<sub>16</sub>  
Center Pull Take-Up Bearing      Bore

Model	Travel	Bore	Part#	A	B	C	D	E	F	G	H	I	J	Wt
200	12	1-15/16	CPT-200-12	3-15/16	27-1/2	29-1/2	7-3/4	-	4	8-3/8	7/8	1	5/8	56
	18		CPT-200-18		33-1/2	35-1/2								66
	24		CPT-200-24		39-1/2	41-1/2								76
	30		CPT-200-30		45-1/2	47-1/2								86
	36		CPT-200-36		51-1/2	53-1/2								96
203	12	2-3/16	CPT-203-12	4-7/16	27-1/2	29-1/2	7-3/4	-	4	9-1/16	1-1/4	1-1/4	5/8	63
	18		CPT-203-18		33-1/2	35-1/2								74
	24		CPT-203-24		39-1/2	41-1/2								84
	30		CPT-203-30		45-1/2	47-1/2								94
	36		CPT-203-36		51-1/2	53-1/2								103
208	12	2-7/16	CPT-208-12	4-3/8	28-1/2	30-1/2	8-1/4	-	4	9-3/8	3/4	1-1/4	3/4	59
	18		CPT-208-18		34-1/2	36-1/2								69
	24		CPT-208-24		40-1/2	42-1/2								79
	30		CPT-208-30		46-1/2	48-1/2								89
	36		CPT-208-36		52-1/2	54-1/2								99
300	12	2-15/16	CPT-300-12	5-1/8	30-1/2	32-1/2	9-1/4	2	5	10-3/4	7/8	1-1/2	5/8	88
	18		CPT-300-18		36-1/2	38-1/2								103
	24		CPT-300-24		42-1/2	44-1/2								118
	30		CPT-300-30		48-1/2	50-1/2								123
	36		CPT-300-36		54-1/2	56-1/2								128
308	12	3-7/16	CPT-308-12	5-5/8	32	34-1/4	10	2	5	11-13/16	15/16	1-3/4	3/4	108
	18		CPT-308-18		38	40-1/4								126
	24		CPT-308-24		44	46-1/4								143
	30		CPT-308-30		50	52-1/4								160
	36		CPT-308-36		56	58-1/4								177
400	12	3-15/16	CPT-400-12	7	36	38-1/2	12	2-1/2	6	15-1/8	11/16	2	3/4	165
	18		CPT-400-18		42	44-1/2								185
	24		CPT-400-24		48	50-1/2								205
	30		CPT-400-30		54	56-1/2								225
	36		CPT-400-36		60	62-1/2								245
408	12	4-7/16	CPT-408-12	7-1/2	40-3/4	45-3/4	14-3/8	5	9	15-1/2	1	2	1-1/8	231
	18		CPT-408-18		46-3/4	51-3/4								261
	24		CPT-408-24		52-3/4	57-3/4								291
	30		CPT-408-30		58-3/4	63-3/4								321
	36		CPT-408-36		64-3/4	69-3/4								351
500	12	4-15/16	CPT-500-12	8-1/2	44-1/2	49-1/2	16-1/4	5-1/2	10	16-13/16	1	2-1/4	1-1/8	265
	18		CPT-500-18		50-1/2	55-1/2								295
	24		CPT-500-24		56-1/2	61-1/2								325
	30		CPT-500-30		62-1/2	67-1/2								355
	36		CPT-500-36		68-1/2	73-1/2								385

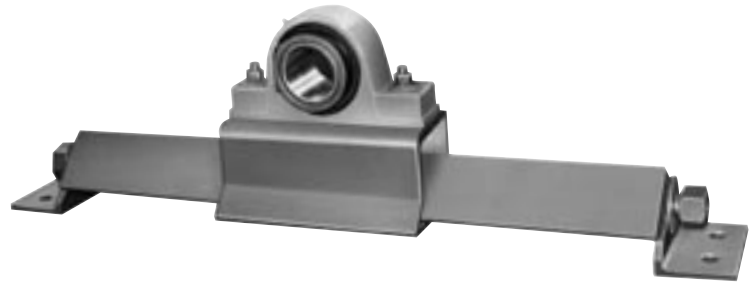
# HEAVY DUTY TOP MOUNT TAKE-UPS



Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

## Benefits

- Engineered for severe applications
- Mounting plate designed for most major manufacturers' bearings. Please specify bearing style. Other hole punch patterns available (bearing optional)



\*Registered Trademark Rexnord Corp.

**DOUGLAS TAKE-UP IDENTIFICATION**

HDT - 2012

Heavy Duty Top Mount      Model #      Travel

---

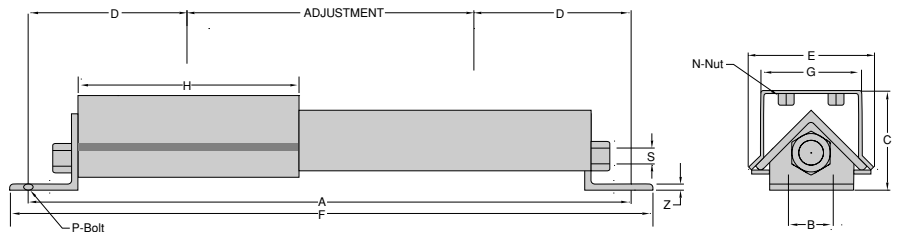
Optional Roller Bearing Pillow Block

PBR - 2<sup>15/16</sup>

Roller Bearing      Shaft Size

## Construction

- Extra heavy welded steel construction allows for high tensions and impact loading
- Designed with ACME threaded rod to allow smooth adjustment under high tension applications
- Custom designed frames available for specific applications



HEAVY DUTY TOP MOUNT TAKE-UP DIMENSIONS

Model	Travel	Bore	Part#	A	B	C	D	E	F	G	H	N	P	S	Z	Wt
20	12	1 7/16	HDT-2012	28	2	5 1/4	8	6 3/4	31	4	11	5/8	5/8	1	3/8	48
	18	1 15/16	HDT-2018	34					37							54
	24	2 3/16	HDT-2024	40					43							60
	30		HDT-2030	46					49							66
	36		HDT-2036	52					55							72
25	18	2 3/16	HDT-2518	38 1/4	3	6 1/4	10 1/8	8 1/4	41 1/4	5	13 1/4	3/4	3/4	1 1/4	1/2	93
	24	2 7/16	HDT-2524	44 1/4					47 1/4							104
	30	3	HDT-2530	50 1/4					53 1/4							115
	36		HDT-2536	56 1/4					59 1/4							126
30	18	2 15/16	HDT-3018	41-1/2	3	7	10 5/8	8 1/8	42 1/4	6	14 1/4	3/4	3/4	1 1/4	1/2	98
	24		HDT-3024	47-1/2					48 1/4							107
	30		HDT-3030	53-1/2					54 1/4							116
	36		HDT-3036	59-1/2					60 1/4							125
	48		HDT-3048	71-1/2					72 1/4							134
35	18	3 7/16	HDT-3518	43-1/4	3	7	11 1/2	8 1/8	44	6	16	3/4	3/4	1 1/4	1/2	102
	24	3 1/2	HDT-3524	49-1/4					50							111
	30		HDT-3530	55-1/4					56							120
	36		HDT-3536	61-1/4					62							129
	48		HDT-3548	73-1/4					74							138
40	18	3 15/16	HDT-4018	47-1/4	3 1/2	7	13 1/2	9 5/8	48	7	20	-	7/8	1 1/2	1/2	144
	24	4 1/2	HDT-4024	53-1/4					54							157
	30		HDT-4030	59-1/4					60							170
	36		HDT-4036	65-1/4					66							183
	48		HDT-4048	77-1/4					78							196



# SCISSOR PIVOT™ GRAVITY TAKE-UP ASSEMBLIES

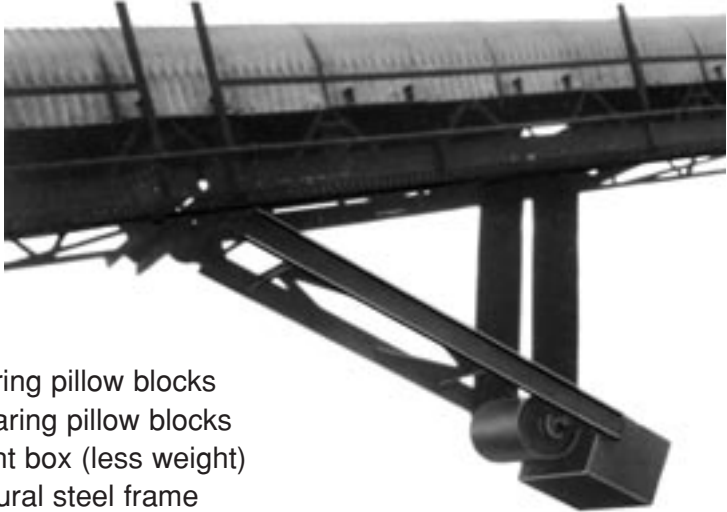
Call Douglas (205) 884-1200 or Fax (205) 884-1206  
for engineered solutions to your special applications

### Benefits

- Automatically adjusts for belt stretch
- Engineered for proper belt tension
- Suitable for conveyors with high elevation
- Does not require ground support
- 30% less weight with lever arm design increases component life

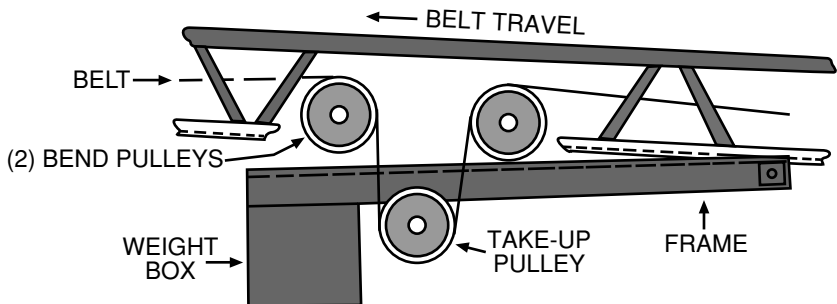
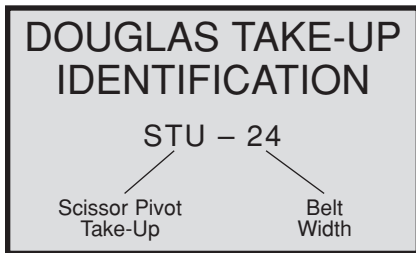
### Construction

- Standard assembly consists of:
  - 2 - Drum bend pulleys, shaft and ball bearing pillow blocks
  - 1 - Drum take-up pulley, shaft and ball bearing pillow blocks
  - 1 - Lever arm frame, pivot shaft and weight box (less weight)
- Constructed with first quality, heavy structural steel frame
- Pulleys are preassembled with shafting and bearings to expedite installation



### Options

- Can be custom designed for your application if conveyor specifications are supplied
- Lagged Pulleys
- Mine Duty Pulleys
- Roller Bearing Pillow Blocks



Note: Safety chain both sides to be supplied by customer based on take-up weight. Set at 45° max pivot angle.

FOR FAST QUOTE SERVICE ON GRAVITY TAKE-UPS  
PHOTOCOPY, FILL IN INFORMATION REQUESTED AND FAX  
TO DOUGLAS MANUFACTURING, 205/884-1206.

\_\_\_\_\_  
Your Company

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Your Phone Number

\_\_\_\_\_  
Your Fax Number

\_\_\_\_\_  
Your Name

CONVEYOR LENGTH (PULLEY CENTER TO CENTER) \_\_\_\_\_

TYPE OF MATERIAL CONVEYED \_\_\_\_\_ TPH

AMOUNT OF CONVEYOR LIFT \_\_\_\_\_

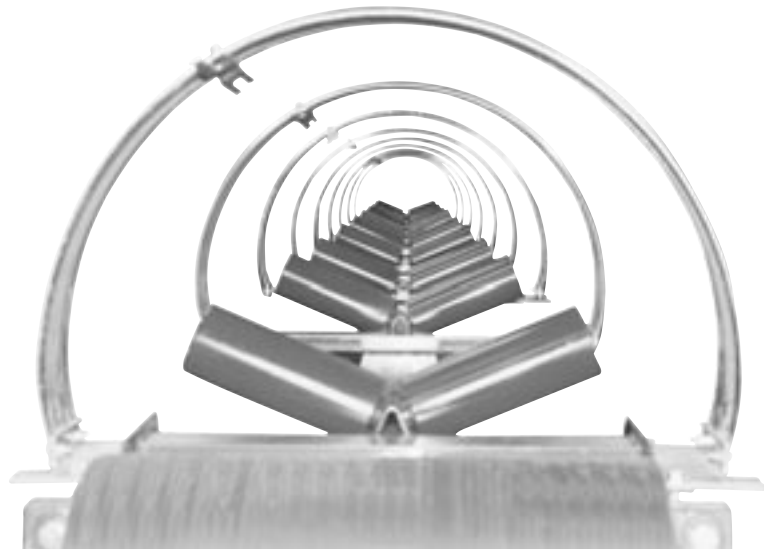
HORSEPOWER \_\_\_\_\_

BELT WIDTH \_\_\_\_\_

MODEL NUMBER	DESCRIPTION
STU-24	Scissor Pivot Take-up for 24" Belt
STU-30	Scissor Pivot Take-up for 30" Belt
STU-36	Scissor Pivot Take-up for 36" Belt
STU-42	Scissor Pivot Take-up for 42" Belt
STU-48	Scissor Pivot Take-up for 48" Belt
STU-54	Scissor Pivot Take-up for 54" Belt
STU-60	Scissor Pivot Take-up for 60" Belt
STU-72	Scissor Pivot Take-up for 72" Belt



# CONVEYOR ACCESSORIES AND INFORMATION



2 Roll™ Troughed Idlers 4" Diameter 22° .....	94
Screen Tube Covers (Vibrating Screens) .....	94
2 Roll™ I-Beam Frame Econo-Conveyor Kit™ .....	95
Conveyor Design Wizard Program™ .....	96
Warranty – Terms and Conditions .....	98



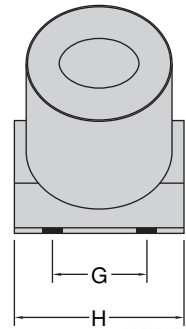
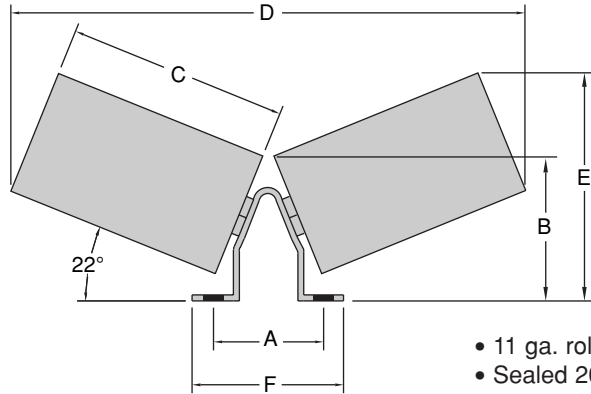
# 2 ROLL TROUGHED IDLERS 4" Diameter 22°

Heavy 20mm (.787") Precision, Permanent Sealed Bearings

**DOUGLAS IDLER IDENTIFICATION**

2RI - 18

2 Roll Idler      Belt Width



- 11 ga. roller
- Sealed 20mm ball bearings ea. end
- 7/8" dia. thru shaft



- Compact – space saving design
- Single mounting point can use 6" wide Flange beam for main conveyor frame
- Offers ideal and economical way to move crushed, medium weight materials
- Heavy duty roll, 7/8" diameter thru shaft with 20mm precision ball bearings, contact seals

## 22° TROUGHED IDLER 4" DIAMETER

BELT WIDTH	IDLER MODEL NO.	WT	A	B	C	D	E	F	G	H	MOUNTING BOLT
12	2RI-12	13	3 7/16	4 1/16	6 15/16	15 1/2	7 1/8	4 7/16	3 15/16	4 15/16	3/8
14	2RI-14	14	3 7/16	4 1/16	7 15/16	17 1/2	7 5/8	4 7/16	3 15/16	4 15/16	3/8
16	2RI-16	15	3 7/16	4 1/16	9 1/16	21	7 1/2	4 7/16	3 15/16	4 15/16	3/8
18	2RI-18	16	3 7/16	4 1/16	9 15/16	21 1/2	8 1/2	4 7/16	3 15/16	4 15/16	3/8
20	2RI-20	17	3 7/16	4 1/16	10 15/16	23 1/2	9 1/8	4 7/16	3 15/16	4 15/16	3/8
24	2RI-24	18	3 7/16	4 1/16	13	27 1/2	9 7/8	4 7/16	3 15/16	4 15/16	3/8
30	2RI-30	19	3 7/16	4 1/16	15 15/16	33 1/2	10	4 7/16	3 15/16	4 15/16	3/8

NOTE: All dimensions are in inches. Dimensions subject to change. Certified dimensions of ordered material furnished on request.

# SCREEN TUBE COVERS (VIBRATING SCREENS)

### Benefits

- Helps prevent damage to eccentric shafts, shaft casings and bearings
- Fits easily on top of the shaft pipe casing by either tack welds or the use of clamps (not furnished) (ground required if welding)
- Rugged design is suitable for the toughest of applications
- Field tested and proven in years of reliable service

### Construction

- Full length one piece heavy steel backing plate
- 3/4" 60 durometer "impact absorbing" rubber, cushions and protects
- Available in a variety of diameters: 8 5/8", 10 3/4", 12 3/4", 14" and 16"

Screen Tube Cover



Vibrating Screen



**DOUGLAS IDLER IDENTIFICATION**

STC - 8 - 6

Screen Tube Cover      Pipe Diameter      Length in Feet

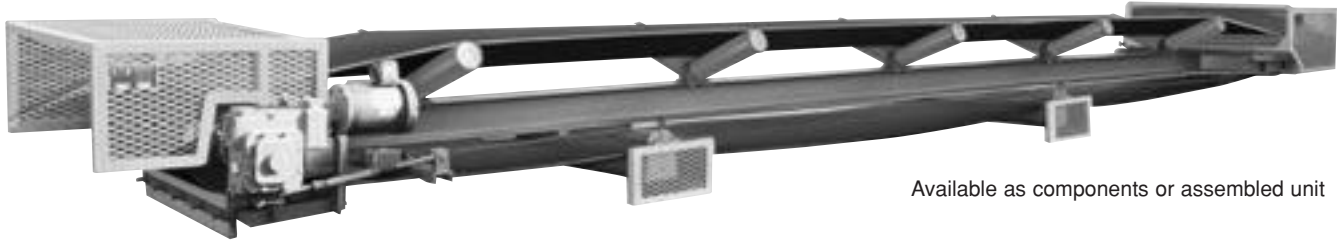
# 2 ROLL I-BEAM FRAME ECONO-CONVEYOR KIT



## Light Duty To Medium Duty Conveyor Component Packages

(Available in 12" through 30" belt widths)

- Reduce initial labor costs and material expenses with preassembled components from Douglas
- Ideal for conditions requiring maximum efficiency, portability and adaptability
- Hundreds of units in operation



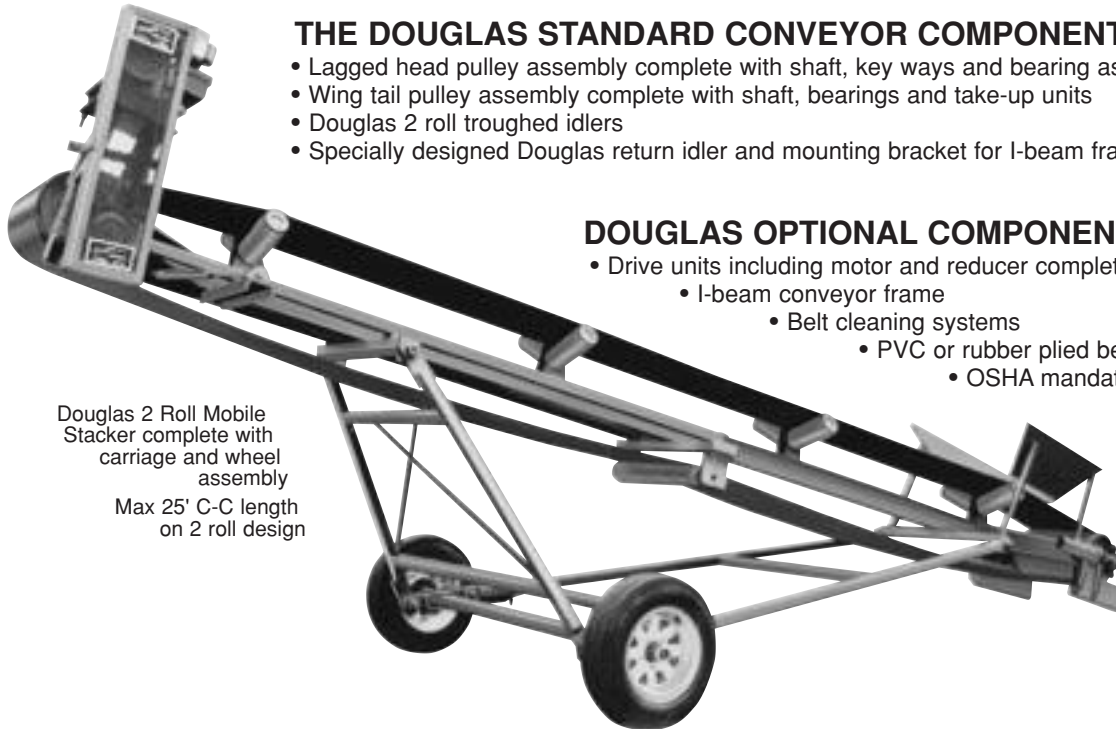
Available as components or assembled unit

### THE DOUGLAS STANDARD CONVEYOR COMPONENT PACKAGE

- Lagged head pulley assembly complete with shaft, key ways and bearing assemblies
- Wing tail pulley assembly complete with shaft, bearings and take-up units
- Douglas 2 roll troughed idlers
- Specially designed Douglas return idler and mounting bracket for I-beam frames

### DOUGLAS OPTIONAL COMPONENTS

- Drive units including motor and reducer completely assembled
  - I-beam conveyor frame
    - Belt cleaning systems
      - PVC or rubber plied belting
      - OSHA mandated guards



Douglas 2 Roll Mobile  
Stacker complete with  
carriage and wheel  
assembly  
Max 25' C-C length  
on 2 roll design

FOR FAST QUOTE SERVICE: PHOTOCOPY, FILL IN INFORMATION REQUESTED  
AND FAX TO DOUGLAS MANUFACTURING. 205/884-1206

Your Company _____	City _____	State _____	Zip _____
Your Name _____	Your Phone Number _____	Your Fax Number _____	
CONVEYOR LENGTH (PULLEY CENTER TO CENTER) _____	SCRAPER <input type="checkbox"/> YES <input type="checkbox"/> NO		
TYPE OF MATERIAL CONVEYED _____	LAG HEAD PULLEY <input type="checkbox"/> YES <input type="checkbox"/> NO		
TONS PER HOUR _____	TAIL PULLEY <input type="checkbox"/> WING <input type="checkbox"/> DRUM		
AMOUNT OF CONVEYOR LIFT _____	BELT COVERS <input type="checkbox"/> YES <input type="checkbox"/> NO		
PREFERRED HORSEPOWER _____			
PREFERRED IDLER SPACING _____			
PREFERRED BELT WIDTH _____			



**A Design and Problem Solving Program for Belt Conveyor Systems.**



## **CONVEYOR DESIGN**

**(see overleaf for actual document)**

- Instant view comparison of changing solutions for different calculations
- Fast & easy incline calculator in feet or degrees
- CEMA based calculations determine pulley and shaft sizes, belt width, length and drive solution, number and type of idlers and many other components in milliseconds
- Print any screen or save your work in a title index for future reference
- Well organized and designed forms can be used with sales presentations, quotes and proposals
- Includes representative drawing capabilities

The CONVEYOR DESIGN WIZARD 3.0® is a user friendly WINDOWS® based design and trouble shooting program for belt conveyor systems. The program helps to eliminate the need for manual calculations and guesswork. Available for WINDOWS® 3.1, '95, '97, 98, 2000 and NT in easy to use 3.5" Floppy Disks and CD-ROM. Contact your Douglas Technical Sales Representative for more information.

## **BELT SURVEY**

**(see overleaf for actual document)**

- Record components of any conveyor system on your desktop or laptop
- Provides instant access to identify components for conveyors
- Compare existing conveyor components for changes and to provide suggestions to your customer in seconds
- Print blank field forms for field surveys
- Print completed forms for parts books, records and proposals

## **Bulk Materials Handling Components and Technology for Belt Conveyors**

**CALL 205-884-1200**

VISA & MASTER CHARGE ACCEPTED

**DOUGLAS MANUFACTURING CO. INC.**

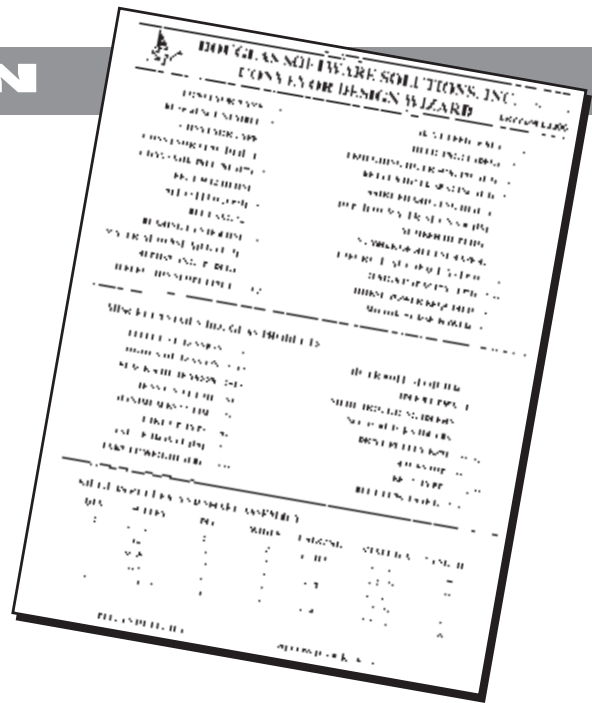
**GOODYEAR**  
RUBBER PRODUCTS, INC.

 **+1.727.342.5087**

También puede enviarnos un correo electrónico a [ventas@goodyearrubberproducts.com](mailto:ventas@goodyearrubberproducts.com)

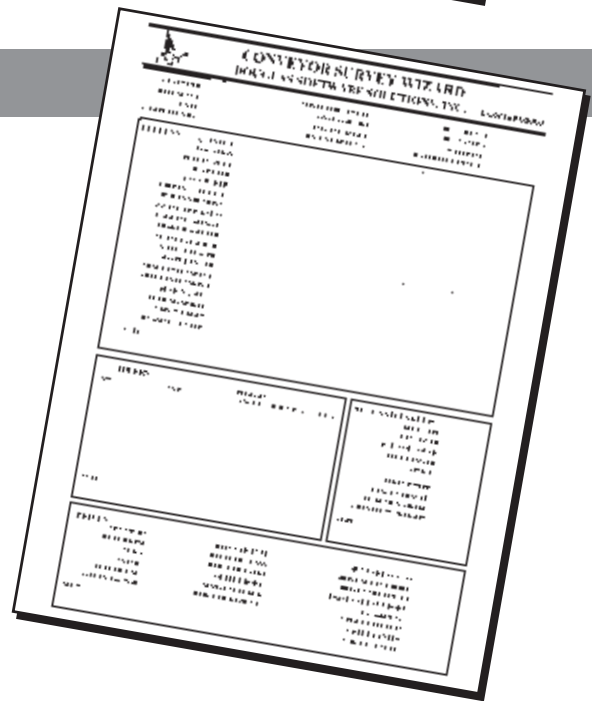
# CONVEYOR DESIGN

- Instant view comparison of changing solutions for different calculations
- Fast & easy incline calculator in feet or degrees
- CEMA based calculations determine pulley and shaft sizes, belt width, length and drive solution, number and type of idlers and many other components in milliseconds
- Print any screen or save your work in a title index for future reference
- Well organized and designed forms can be used with sales presentations, quotes and proposals



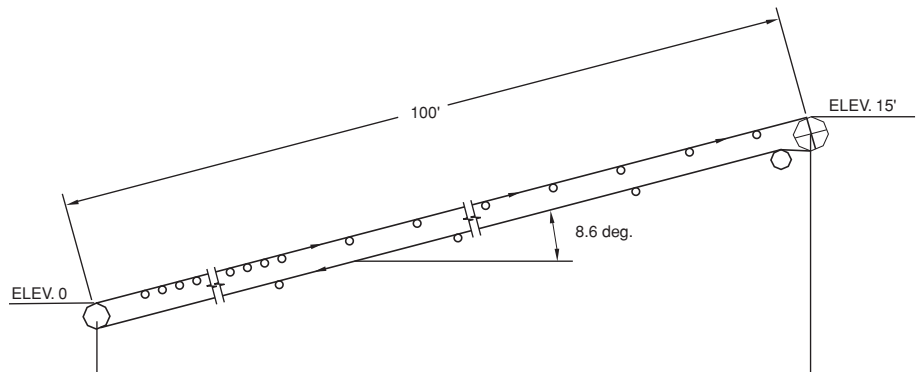
# BELTSURVEY

- Record components of any conveyor system on your desktop or laptop
- Provides instant access to identify components for conveyors
- Compare existing conveyor components for changes and to provide suggestions to your customer in seconds
- Print blank field forms for field surveys
- Print completed forms for parts books, records and proposals



# REPRESENTATIVE DRAWING CAPABILITY

Tight Side Tension: 2538  
 Slack Side Tension: 1218  
 Effective Tension: 1320  
 Tension At Tail: 1083  
 Max PIW: 71  
 Belt Speed: 250  
 Design Capacity: 250  
 Motor Horse Power: 10





---

# TERMS AND CONDITIONS

---

**WARRANTY:** Douglas Manufacturing Co., Inc. warrants, to the original purchaser, that any standard product it manufactures is free from defects in materials and workmanship. The duration of this warranty is ninety days from the date of shipment. In the event that the purchaser discovers the products to be defective in materials or workmanship it must notify Douglas Manufacturing in writing. This notification must be received no later than 120 days from the date of shipment. After notification in writing Douglas Manufacturing, at its sole discretion, will correct any defect in materials or workmanship by repair or replacement of the defective product or refund the purchase price of the defective product. These remedies are the exclusive remedies for the breach of the foregoing warranty. This warranty covers only such products that are manufactured by Douglas Manufacturing and does not extend to such products used as component parts in equipment. Douglas Manufacturing specifically excludes all other warranties whether expressed or implied. This warranty is void for products which operate under other than design load ratings and operating conditions.

**WARRANTY AND LIABILITY DISCLAIMER:** Douglas Manufacturing Co., Inc.'s liability shall in no case exceed the purchase price of the product or products which gave rise to the claim. Expenses and delays associated with the removal of any defective product shall be borne by the Purchaser. Douglas Manufacturing hereby disclaims any liability for injuries which may result from the use of our products contrary to our instructions. We specifically exclude any and all warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. DOUGLAS MANUFACTURING SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES. There is no liability, expressed or implied, on the structural soundness or design of equipment not supplied by Douglas Manufacturing Co., Inc. or products that are inconsistent with CEMA or ANSI standards.

**RETURNS:** Douglas Manufactured products may not be returned without prior written authorization and must be accompanied by an assigned Return Goods Authorization (RGA) number. Products returned without prior written authorization and not clearly marked with our assigned RGA number will not be accepted. If requested by Douglas Manufacturing products shall be returned prepaid. Expenses which result from the return of goods must be borne by the Purchaser. Return goods are subject to restocking charges of not less than 20% of the value of the order and not less than \$25.00 plus outgoing and incoming freight charges. NO CASH REFUNDS. CREDIT APPLIED TO FUTURE ORDERS.

**SHIPPING:** All shipments will be shipped F.O.B. Pell City, Alabama, freight collect unless other arrangements have been made in advance of the order and are confirmed in writing. Douglas Manufacturing's responsibility for damage or loss ceases after delivery to the freight carrier of the goods. All claims for merchandise lost or damaged must be handled by the Purchaser. Douglas Manufacturing will make every attempt to accommodate shipping instructions provided by the Purchaser provided they do not conflict with any of the terms and conditions set herein. Requests for specific methods of transportation must be made at the time of order placement. Under no circumstances will Douglas Manufacturing accept responsibility nor may it be held responsible for additional charges which may result from failure to accommodate specific shipping instructions.

**CANCELLATION:** Cancellation requests from the Purchaser require the written consent of Douglas Manufacturing. The Purchaser shall be liable for reasonable costs and expenses incurred by Douglas Manufacturing prior to notice of cancellation. This amount shall not be less than 20% of the value of the goods ordered and not less than \$25.00.

**VENUE:** Purchaser agrees that any claim, dispute or controversy arising out of or relating to this transaction shall be made or brought solely and exclusively in the state or federal court having jurisdiction over Pell City, Alabama, which is in St. Clair County, Alabama. Purchaser hereby consents to personal jurisdiction in said forum.

**STANDARD CONDITIONS OF SALE AND ORDER ACCEPTANCE:** Purchaser assents to the terms and conditions contained herein and acceptance of this order is expressly limited to same. Any additional terms and conditions, including those contained in the buyer's purchase order or order acceptance will not be binding upon Douglas Manufacturing unless such terms and conditions are specifically agreed to in writing by an authorized representative of the seller.

All past due accounts shall be assessed a service charge equivalent to 1-1/2% per month (18% annual rate). In the event that Douglas Manufacturing hires an attorney to assert any of its rights or defenses in connection herewith or to collect amounts due, Purchaser agrees to be responsible for all of Douglas Manufacturing's legal fees and expenses as well as costs of collection.

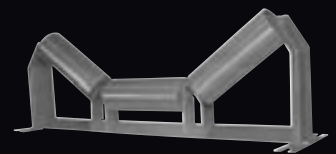
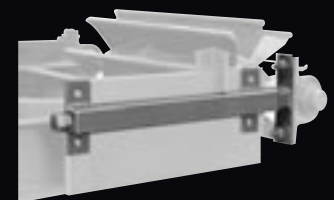
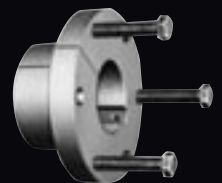
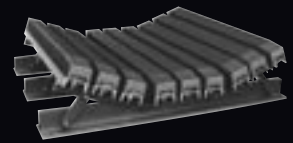
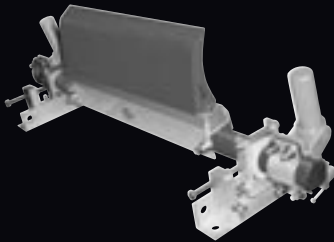
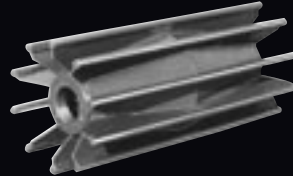
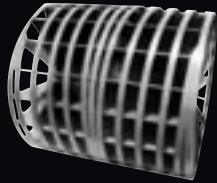
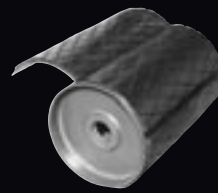
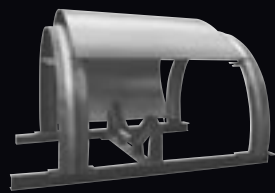
**SAFETY:** Douglas Manufacturing disclaims any liability and Purchaser agrees to fully indemnify Douglas Manufacturing and its employees for all loss and expense, including attorney's fees, relating to any claim or liability or injury resulting from product misuse, product alteration, or the use of the product contrary to written instructions. Douglas Manufacturing provides only those safety products and devices identified on the invoice. Douglas Manufacturing insists that all OSHA, State, and Owner required safety regulations be adhered to during installation and operation. Douglas Manufacturing strongly recommends supplementing federal, state and owner safety programs with ANSI B20.1a-1985, "Safety Standards for Conveyors and Related Equipment," and ANSI spec z244.1, "Lockout/Tagout Procedures." NEVER, NEVER OPERATE, ADJUST OR INSTALL EQUIPMENT ON A MOVING CONVEYOR. Remember, safety is everyone's responsibility.

**WEIGHTS AND DIMENSIONS:** All weights shown are approximate or average weights and are intended for the purpose of estimating only. Dimensions shown are subject to change without notification. Certified prints of ordered material are available on request.









Phone 205-884-1200 • Fax 205-884-1206  
300 Industrial Park Drive • Pell City, Alabama 35125

[sales@douglasmanufacturing.com](mailto:sales@douglasmanufacturing.com) [www.douglasmanufacturing.com](http://www.douglasmanufacturing.com)

**GOODYEAR**  
RUBBER PRODUCTS, INC.

+1.727.342.5087

También puede enviarnos un correo electrónico a [ventas@goodyearrubberproducts.com](mailto:ventas@goodyearrubberproducts.com)