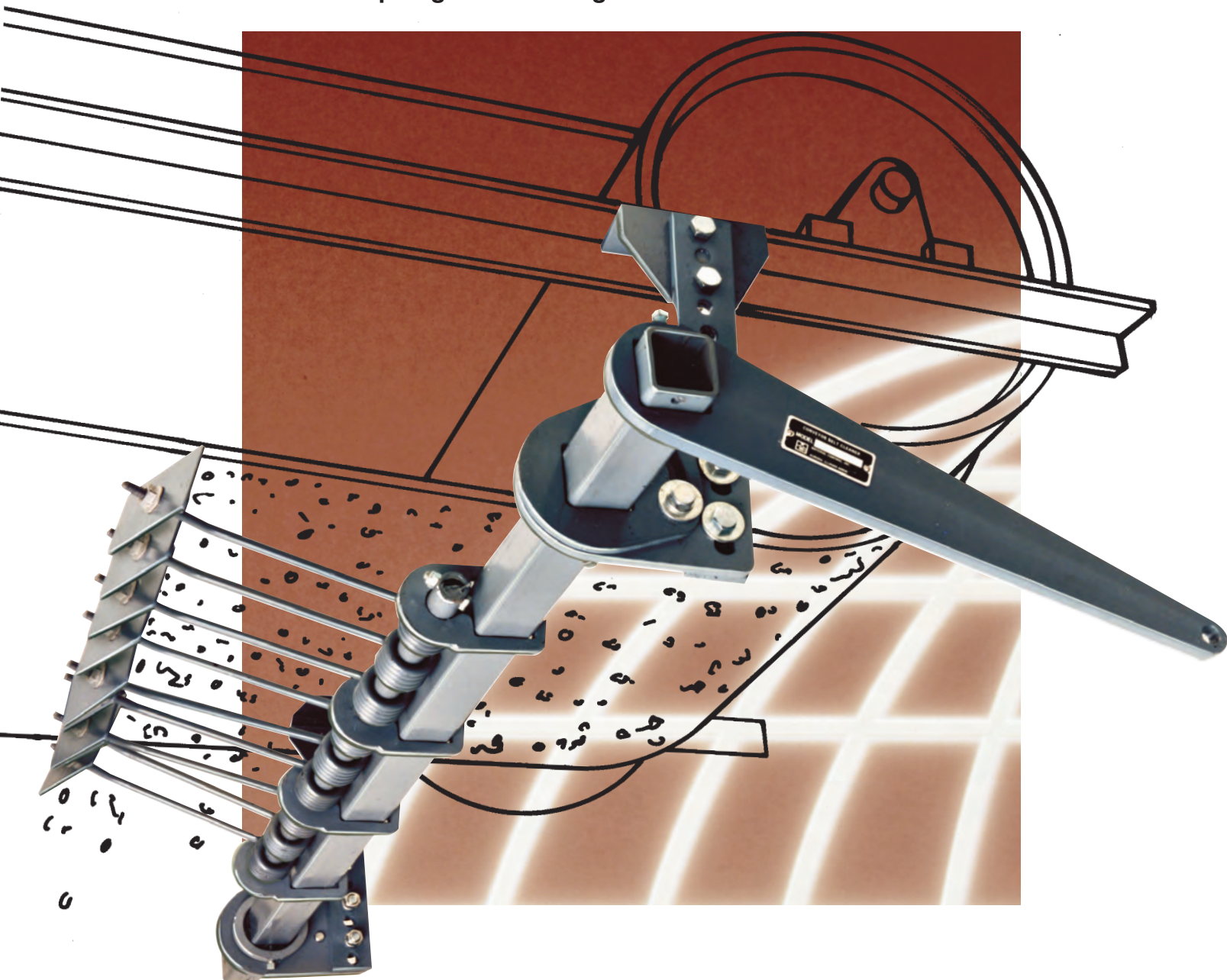


# coil spring type conveyor belt cleaner

no matter what the load, this heavy duty  
cleaner keeps right on working . . .



®



**MATERIAL CONTROL, INC**

197 POPLAR PL. • UNIT 3  
P.O. BOX 308  
NORTH AURORA, IL 60542-0308

**800-926-0376 • 630-892-4274 • FAX 630-892-4931**

WWW.MATERIALCONTROLINC.COM • EMAIL: SALES@MATERIALCONTROLINC.COM



# ready to install model 33 cleaner

## FRAME ASSEMBLY:

Main frame of heavy gauge square steel tubing for maximum strength and support. Pipe acts as coil spring arm holder and can easily be slid out of main frame retainers for servicing of arms.

## MOUNTING:

Equipped with hanger mounts (mount to conveyor frame or flange mounts (for mounting on chutes). Loosen set screws in collar, remove lock plate cap screw, and unit will lift out for quick and easy maintenance.

## LARGE STURDY HANDLE:

Can be adjusted to four mounting positions on either side of the cleaner. Units 42" and larger are supplied with a handle on both sides to aid in applying proper pressure. Hole in handle end allows for use of turnbuckle or counter-weight if desired

## LOCK COLLARS:

Collars on each end lock frame assembly in place and prevent frame from sliding.

## BLADES:

Six types available to clean any material – wet, dry, or sticky. Standard blade is of spring steel with urethane, stainless steel, tungsten carbide, long life nickel alloy, and ceramic wiper blades also available. Blade angle fixed for maximum cleaning effectiveness.

## COIL SPRING:

The patented "heart" of our unit. So durable they're guaranteed not to break – some have been in use over five years without failures. Fabricated from tempered steel for maximum life and top field performance. Spring steel assures firm pressure on belt without bending or breakage. Also available in stainless steel.

## NO MATTER WHAT THE LOAD, THIS CLEANER KEEPS RIGHT ON WORKING. . .

Here's the cleaner that's been engineered for the toughest conditions. Even under the most severe conditions this cleaner will give a year or more of the best possible belt cleaning with little or no maintenance.

SEE PRICE SHEET FOR PRICES

## MODELS AND ORDERING INFORMATION:

BELT WIDTH	NO. OF BLADES	NET WEIGHT LBS.	BLADE STYLE				
			STANDARD	STAINLESS STEEL	URETHANE	STAINLESS STEEL WITH NICKEL ALLOY	TUNGSTEN CARBIDE
6"	1	32					
12"	3	41					
18"	4	46					
20"	5	52					
24"	5	57					
30"	8	69					
36"	9	78					
42"	11	85					
48"	13	94					
54"	14	101					
60"	16	106					
72"	20	126					

When ordering complete Belt Cleaner please specify Model Number, Belt Width, Blade Type and mounting type desired. Mounts are not included in above prices or weights.

## REPLACEMENT PARTS

PART NO.	BLADES	PRICE
210	Standard	
220	Urethane	
230	Stainless Steel	
240	Stainless Steel Nickel Alloy	
250	Ceramic Blade in S.S. Holder	
260	Tungsten Carbide	

## SPRING ARMS

660	Standard	
685S	Stainless Steel	

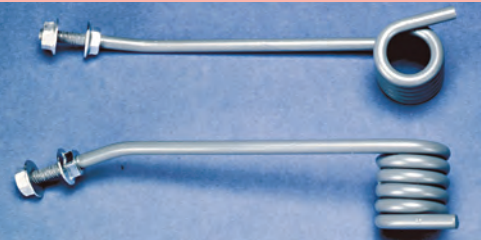
## MOUNTING TYPE

Flange Mounts	6 lbs.	
Hanger Mounts	18 lbs.	

## CLEANER PARTS SELECTION

### HEAVY DUTY COIL SPRING ARM MC 660 –

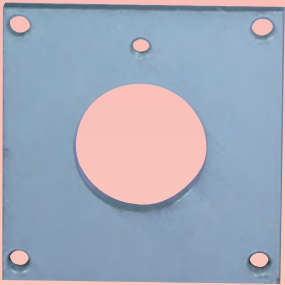
The patented spring arm is forged from highest quality 3/8" round spring steel. This prevents arm bending or breakage, thus increasing spring arm life. Rounded shape inhibits material build up and specially engineered "angle" delivers maximum cleaning effectiveness. Arms are also available in stainless steel, if so desired.



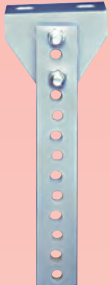
BELT WIDTH IN INCHES	6	12	18	20	24	30	36	42	48	54	60	72
NUMBER OF WIPER BLADES	1	3	4	5	6	8	9	11	13	14	16	20

This is the finest, most durable belt scraper arm on the market. We'll match the MC-660 with any other type for performance and durability.

## MOUNTS



**FLANGE MOUNT**  
For mounting on chutes.



**HANGER MOUNT**  
For mounting off of conveyor frames.

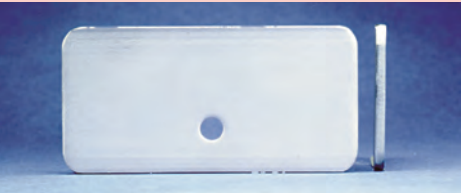
## CHOOSE FROM SIX BLADE TYPES

A wide variety of blade styles to fit your particular needs. Effectively clean any material – wet, dry, or sticky. All have been field tested and proven through years of service in all types of industries.



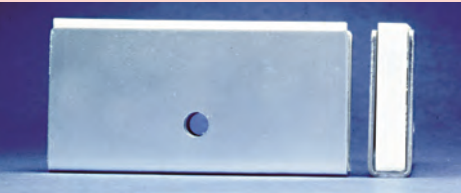
### PART NO. 210 – STANDARD WIPER BLADE

High quality painted spring steel. Reversible for double life. For belt speeds up to 350 feet per minute.



### PART NO. 230 – STAINLESS STEEL WIPER BLADE

Particularly useful for highly corrosive material. For belt speeds up to 350 feet per minute.



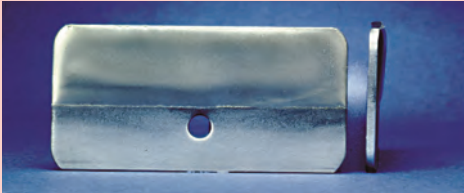
### PART NO. 225 – CERAMIC WIPER BLADE IN STAINLESS STEEL HOLDER

Top quality ceramic blade for extra wear. Stainless steel holder protects ceramic from belt fastener chipping, resists impact. Use on high speed continuous duty conveyor. Gives 12-15 times standard blade life. For belt speeds of 350-850 feet per minute.



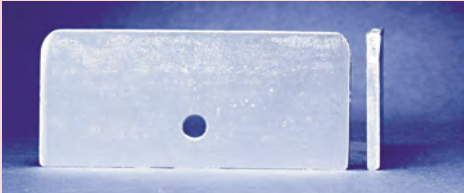
### PART NO. 220 – URETHANE WIPER BLADE

Compounded to correct hardness for most effective belt cleaning. Inexpensive and long lasting. For belt speeds up to 450 feet per minute.



### PART NO. 240 – STAINLESS STEEL WIPER BLADE WITH LONG LIFE NICKEL ALLOY WEARING SURFACE

Special long life alloy applied to heavy duty stainless steel wiper blade. recommended for high speed, heavily used conveyors. Gives 6-8 times standard blade life. For belt speeds of 350-750 feet per minute.



### PART NO. 260 – TUNGSTEN CARBIDE WIPER BLADE

Tungsten carbide strip encased and brazed in steel offers MAXIMUM life and cleaning life and cleaning effectiveness. Use on high speed continuous duty conveyors carrying abrasive sticky material. Gives 12-15 times standard blade life. For belt speeds of 350-850 feet per minute. May be used with mechanical belt fasteners.





# INSTALLATION INSTRUCTIONS

1. For maximum cleaning effectiveness position cleaner at a point where the belt is flat and free from vibration. The best mounting position is several inches behind the head pulley at a point where the belt leaves the pulley. If this is not practical, the cleaner will clean effectively at any point where the belt is flat and free from vibration. To best assure this, mount a return idler on top of the belt, several inches in front of the point of blade/belt contact. This will both flatten the belt and prevent vibration. The spring arm holder (8) should be positioned so that it is parallel to the head pulley (if located under head pulley) and centered  $4\frac{1}{2}"$  to  $5\frac{1}{2}"$  below the belt.

2. We suggest you provide a generous access door for both inspection and service should the unit be installed in the area of a bin or discharge chute. This will permit inspection and service without belt shut-down. (see sketch A)

3. Install either flange mounts (3A) or hanger mount (1,2 and 3), as you prefer, to locate the spring arm holder (8) in its correct position. Important. The blades (10) must be behind the spring arm holder. If properly positioned, the blades will lean back towards the direction of belt travel.

4. Make certain the drilled side of the spring arm holder faces the round hole in assembly retainers (5). The assembly retainers will vary depending on the conveyor belt width. For example — A 24" conveyor belt uses three arm assembly retainers and six spring arms (9) and six wiper blades.

5. Place short straight end of spring arms in holes located along length of spring arm holder. Slide tube (6) through arm assembly retainers and coils of spring arms. Spring arms are locked in place by putting hex head cap screws (16) through end holes in tube and tightening two hex nuts (18) to each.

6. Place collar (45) on each end of spring arm holder with smallest O.D. toward end of the tube. The spring arm assembly may now be placed into either the flange mounts or the hanger mount plates.

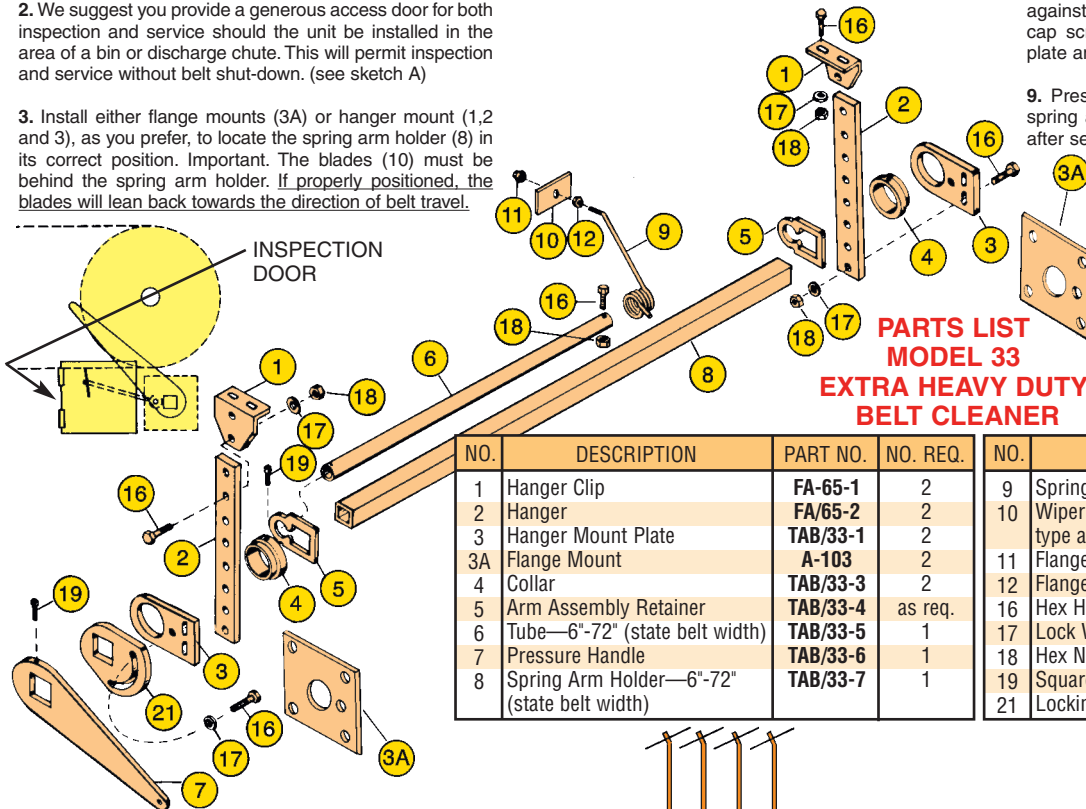
7. **CAUTION** — Do not allow wiper blades to extend beyond belt edges, as belt damage may eventually occur. Also, do not use Model 33 Belt Cleaner on reversing belts as it may cause possible spring and belt damage.

8. Make certain collars are in place in either flange mounts or hanger mount plates. Tighten set screws (10) in collars. Place locking plate (21) on spring arm holder, and up against the flange mount or hanger mount plate. Insert cap screw with lockwasher (17) through arc in locking plate and screw into flange mount or hanger mount plate.

9. Pressure handle (7) may now be positioned on the spring arm holder. Tighten set screw in pressure handle after selecting desired position.

10. Any excess tube extending beyond the pressure handle may be cut off. Do not cut until positive belt cleaner is properly positioned.

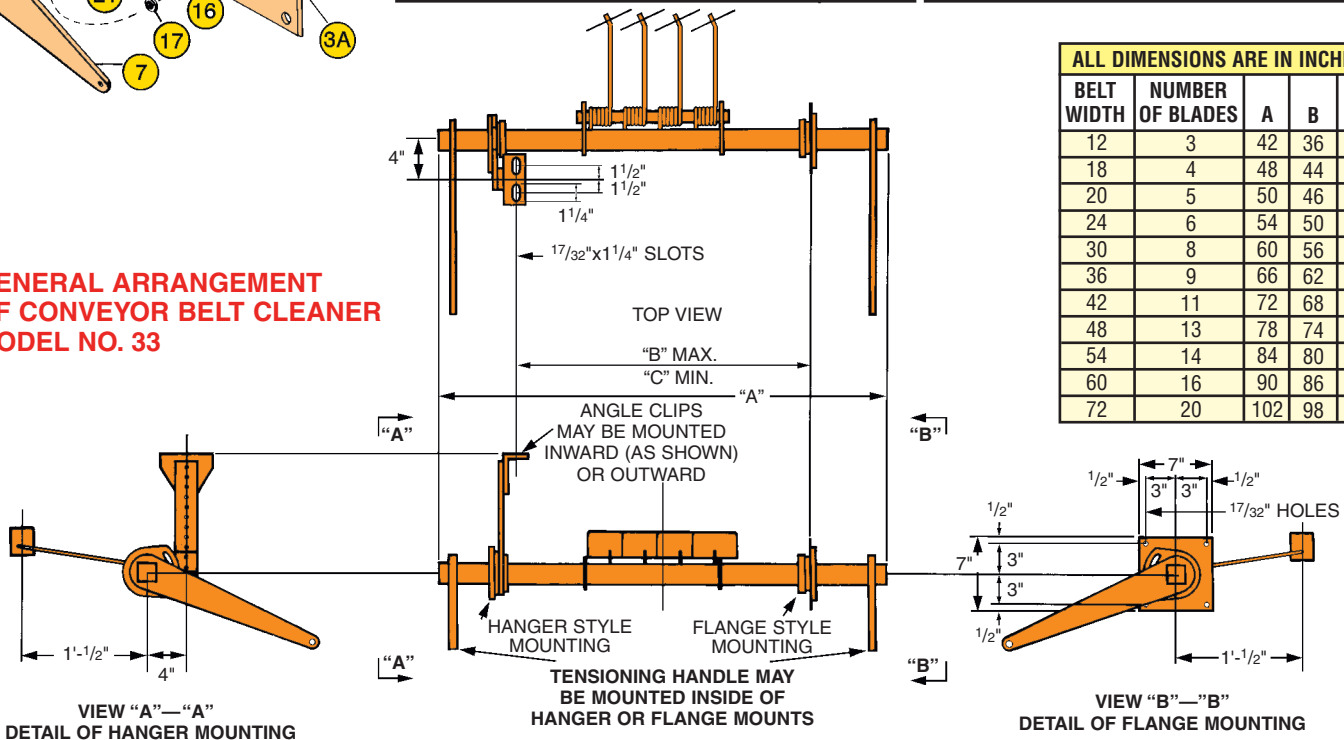
11. Proper blade pressure against belt is applied by pushing down on pressure handle until satisfactory cleaning is obtained. Then tighten cap screw locking plate. Never use more pressure than is required to clean belt properly. Excess pressure will shorten wiper blade life.



## PARTS LIST MODEL 33 EXTRA HEAVY DUTY BELT CLEANER

NO.	DESCRIPTION	PART NO.	NO. REQ.	NO.	DESCRIPTION	PART NO.	NO. REQ.
1	Hanger Clip	FA-65-1	2	9	Spring Arm	MC-660	as req.
2	Hanger	FA/65-2	2	10	Wiper Blade—See page 3 for type and quantity required		
3	Hanger Mount Plate	TAB/33-1	2	11	Flange Lock Nut	A-107	as req.
3A	Flange Mount	A-103	2	12	Flange Nut	A-108	as req.
4	Collar	TAB/33-3	2	16	Hex Hd. Cap Screw	A-109	as req.
5	Arm Assembly Retainer	TAB/33-4	as req.	17	Lock Washer	A-110	as req.
6	Tube—6"-72" (state belt width)	TAB/33-5	1	18	Hex Nut	A-111	12
7	Pressure Handle	TAB/33-6	1	19	Square Hd. Set Screw	A-112	3
8	Spring Arm Holder—6"-72" (state belt width)	TAB/33-7	1	21	Locking Plate	A-114	1

## GENERAL ARRANGEMENT OF CONVEYOR BELT CLEANER MODEL NO. 33



VIEW "A"—"A"  
DETAIL OF HANGER MOUNTING

TENSIONING HANDLE MAY  
BE MOUNTED INSIDE OF  
HANGER OR FLANGE MOUNTS

VIEW "B"—"B"  
DETAIL OF FLANGE MOUNTING

ALL DIMENSIONS ARE IN INCHES				
BELT WIDTH	NUMBER OF BLADES	A	B	C
12	3	42	36	15
18	4	48	44	21
20	5	50	46	23
24	6	54	50	27
30	8	60	56	33
36	9	66	62	39
42	11	72	68	45
48	13	78	74	51
54	14	84	80	57
60	16	90	86	63
72	20	102	98	75

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www.materialcontrolinc.com • email: sales@materialcontrolinc.com



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