Martin® Combination Cradle

Installed under a belt conveyor loading zone, the **Martin® Combination Cradles** absorb the force of falling material to prevent damage to the belt and structure. The impact cradles stabilize the belt line to prevent material escape.

BENEFITS

- **Adjustable Supports Make Installation Easy**
  Wings adjust to match any standard trough angle.
- **Allows Compensation for Wear**
  Eccentrics in wing supports allow outer bars five degrees of wear adjustment.
- **Simple Bar Replacement**
  Impact bars are each secured with two bolts.
- **Engineered to Fit Your Conveyor**
  The Martin® Combination Cradle is available for belts from 24 to 72 inches (500 to 2000 mm) wide.
- **Rugged Structure Stands Up to Abuse**
  Sturdy cradle base is constructed from four formed channels.
- **Available with Center Rolls**
  Center rolls reduce friction and require less conveyor drive horsepower than bars.
- **Accommodates Most Belt Speeds**
  Suitable for use with belts traveling up to 1000 ft/min (5 m/s).

NOTES

Martin® Combination Cradles are installed so that bars in the center of the cradle are set slightly below—1/2 in. (13 mm)—the unloaded belt's line of travel. This allows the belt to absorb impact while avoiding continuous friction and wear if the belt is running empty. The wing bars on the sides of the cradle are installed in line with the idlers to allow effective sealing of the transfer point.

When installing one or more Martin® Combination Cradles, it is necessary to verify there is adequate power in the conveyor drive to compensate for the additional frictional drag. Consult Martin Engineering for additional information.

Standard base stringer width is the belt width plus 12 in. (305 mm).
Mounting centers width is the belt width plus 9 in. (229 mm).
Wide base stringer width is the belt width plus 18 in. (457 mm).
Mounting centers width is belt width plus 15 in. (381 mm).

NOMENCLATURE — UCGBX-XX X XX X X X X X _

1 2 3 4 5 6 7 8 9 10

1. Part Number Prefix:
   UCGBB = Cradle with Impact Bars
   UCGBR = Cradle with Center Rolls
2. The first XX indicates belt width.
3. The next X indicates stringer spacing:
   S = Standard Base
   W = Wide Base
4. The next XX indicates trough angle:
   20 = 20 degree
   35 = 35 degree
   45 = 45 degree
5. The next X indicates duty rating:
   M = Medium-Duty
6. The next X indicates bar type:
   U = Rubber
7. The next X indicates material type:
   P = Painted
8. The next X indicates shipping options:
   A = Assembled
9. The next X indicates stringer type:
   S = Standard
10. On UCGBR products:
    R = Optional Roller Kit Added
    Blank = Without Optional Roller

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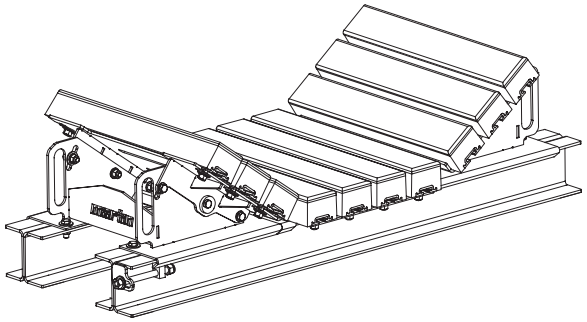
TECHNICAL DATA SHEET

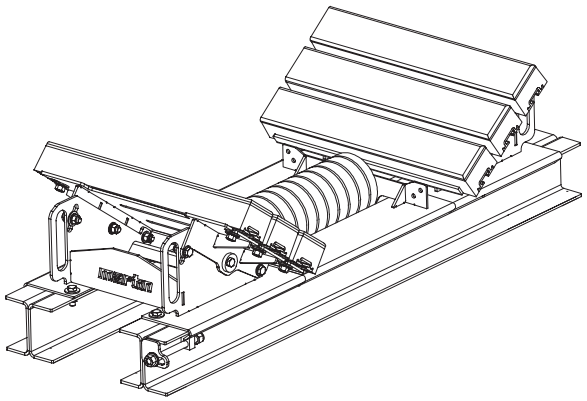
MARTIN® COMBINATION CRADLE

Belt Width† in. (mm)	# of Bars	Impact Cradle Part Number	Standard Base Cradle	
			Stringer Width in. (mm)	Mounting Centers in. (mm)
24 (600)	6	UCGBB-24SXXMXPAX	36 (914)	33 (838)
30 (750)	7	UCGBB-30SXXMXPAX	42 (1066)	39 (991)
36 (900)	7	UCGBB-36SXXMXPAX	48 (1219)	45 (1143)
42 (1050)	9	UCGBB-42SXXMXPAX	54 (1317)	51 (1295)
48 (1200)	10	UCGBB-48SXXMXPAX	60 (1529)	57 (1448)
54 (1350)	12	UCGBB-54SXXMXPAX	66 (1676)	63 (1600)
60 (1500)	13	UCGBB-60SXXMXPAX	72 (1829)	69 (1752)
72 (1800)	16	UCGBB-72SXXMXPAX	84 (2133)	81 (2057)



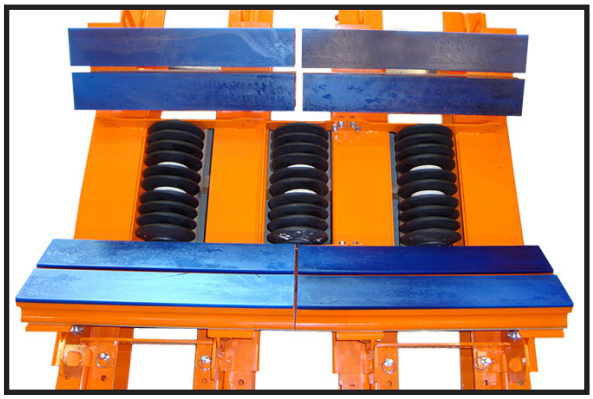
MARTIN® COMBINATION CRADLE WITH CENTER ROLLS

Belt Width† in. (mm)	# of Bars	Impact Cradle Part Number	Standard Base Cradle	
			Stringer Width in. (mm)	Mounting Centers in. (mm)
24 (600)	4	UCGBR-24SXXMXPAX	36 (914)	33 (838)
30 (750)	4	UCGBR-30SXXMXPAX	42 (1066)	39 (991)
36 (900)	4	UCGBR-36SXXMXPAX	48 (1219)	45 (1143)
42 (1050)	6	UCGBR-42SXXMXPAX	54 (1317)	51 (1295)
48 (1200)	6	UCGBR-48SXXMXPAX	60 (1529)	57 (1448)
54 (1350)	8	UCGBR-54SXXMXPAX	66 (1676)	63 (1600)
60 (1500)	8	UCGBR-60SXXMXPAX	72 (1829)	69 (1752)
72 (1800)	10	UCGBR-72SXXMXPAX	84 (2133)	81 (2057)



IMPACT BAR MATERIALS AND SPECIFICATIONS

Characteristics	
Coefficient of Friction	0.5
Service Temperature	-20 to 160°F (-29 to 70°C)
Bearing Layer	UHMW Polyethylene
Absorption Layer	60A Durometer SBR Rubber
T-Slot	Aluminum
Fasteners	0.5-in. dia. T-Bolts



Note: *When installing two impact cradles with center rolls back-to-back, order Roller Cradle Roller Kit, P/N UC-001670-XX*

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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