

Martin® Impact Cradles

Installed under a belt conveyor loading zone, the **Martin® Impact 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.

MD Impact Cradle



LD Impact Cradle



BENEFITS

- Metric Design**
 The Martin® MD Impact Cradle and Martin® LD Impact Cradle are dimensionally adapted to metric conveyor systems and can be combined with European Martin® Slider Cradles and Martin® Trac-Mount™ Idlers.
- Versatile**
 Fits conveyors with trough angles from 10° to 45°. Upgrade from light to medium duty possible, due to its modular design.
- Easy Maintenance**
 3-piece construction allows to remove outer parts easily to enable a simple and safe maintenance and repair work.
- Engineered to Fit Your Conveyor**
 Adjustment options for height (by using shims of different sizes) width (by slotted holes on the bottom side of the cross beams) and troughing angle eliminate the need for customisation for most applications.
- Accommodates Most Belt Speeds**
 Suitable for use with belts traveling up to 3.3 m/s. For belts traveling faster than 3.3 m/s Martin Engineering recommends using a Martin® High Speed Impact Cradle.

SPECIFICATIONS

| Belt Width (mm) | Trough Angles | Maximum Belt Speed (m/sec.) | Operating Temperature (°C) | Reversing operation |
|-----------------|---------------|-----------------------------|----------------------------|---------------------|
| 500 - 1800 | 10° - 45° | 3,3 | -30 - +80 | Yes |

NOMENCLATURE 41800 - XXX X X

P/N Prefix

Belt Width (cm)

Type

L - Light Duty acc. To CEMA 575

M - Medium Duty acc. To CEMA 575

Material option

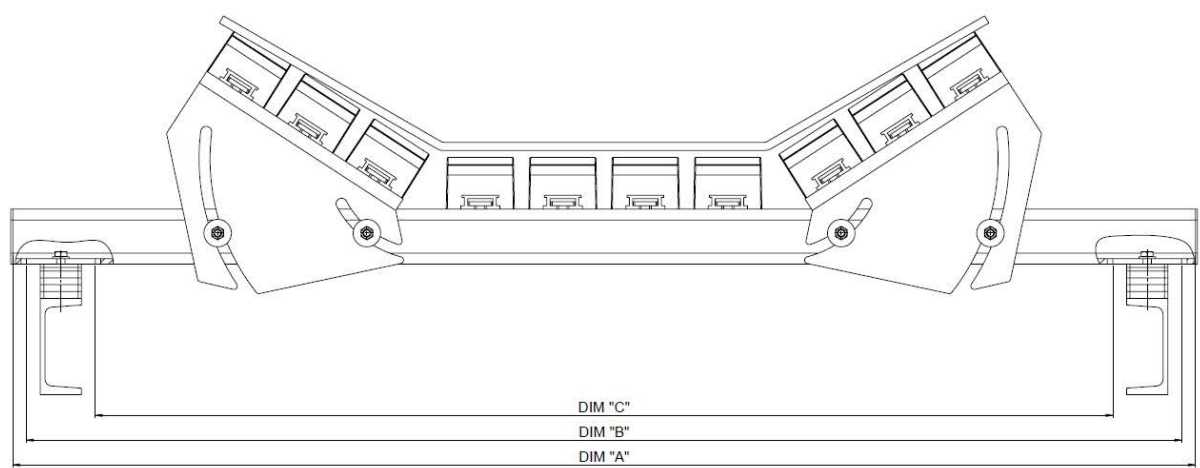
P - Painted Steel (1.0038 / RAL 2004)

S - Stainless Steel (1.4571)

TECHNICAL DATA SHEET

DIMENSIONS (MM)

| Belt Width in mm | Type | Frame Width (mm) Dim. A | max. Mounting Centers (mm) Dim. B | min. Mounting Centers (mm) Dim. C | Bars (pcs.) |
|---------------------|---------|-------------------------------|---|---|----------------|
| 500 | MD / LD | 920 | 880 | 580 | 6 |
| 650 | MD / LD | 1070 | 1030 | 730 | 6 |
| 800 | MD / LD | 1270 | 1230 | 930 | 7 |
| 1000 | MD / LD | 1470 | 1430 | 1130 | 9 |
| 1200 | MD / LD | 1720 | 1680 | 1380 | 10 |
| 1400 | MD / LD | 1920 | 1880 | 1580 | 12 |
| 1600 | MD | 2170 | 2130 | 1830 | 13 |
| 1800 | MD | 2370 | 2330 | 2030 | 15 |



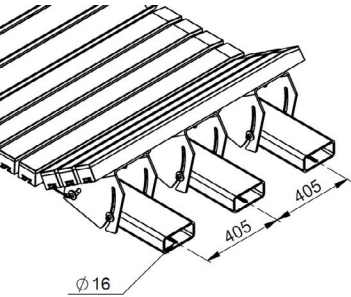
NOTES

Make sure impact cradle surface is approx. 13 mm below troughed belt and approx. 6 mm below flat belt in empty condition.

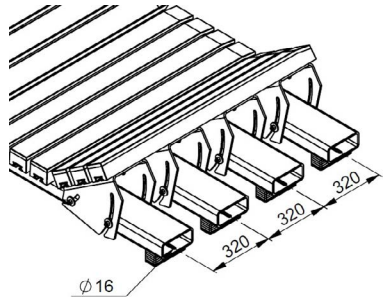
This allows the belt to absorb impact while avoiding continuous friction and wear if the belt is running empty.

When installing one or more Martin® Impact 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.

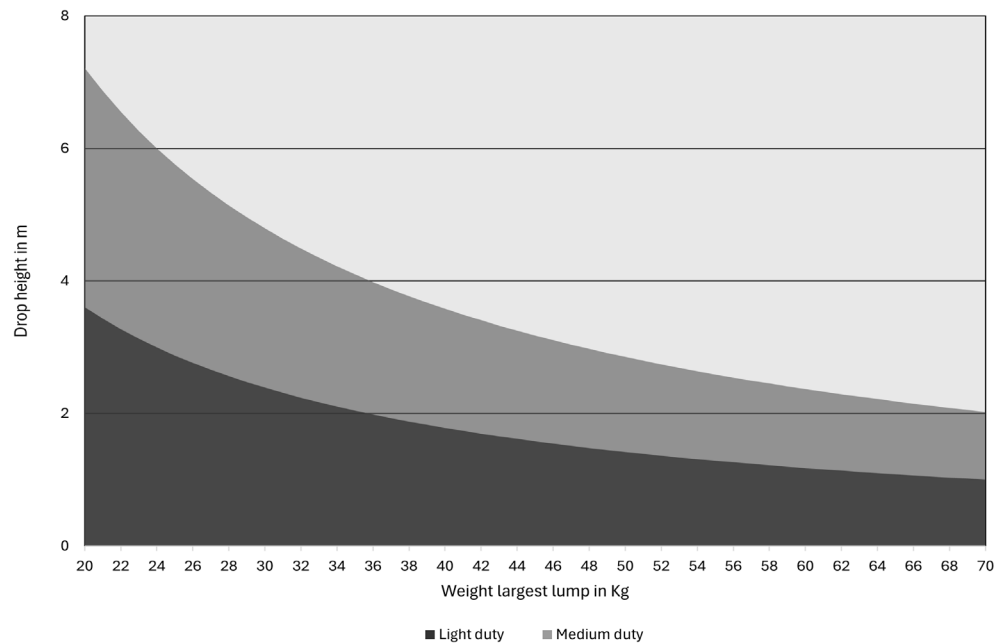
LD Cradle



MD Cradle



Impact Cradle Selection Guide



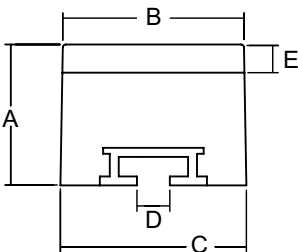
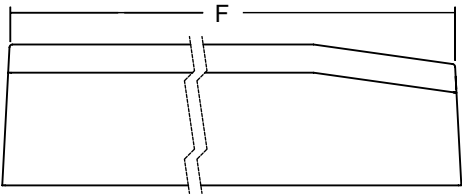
MARTIN® IMPACT BAR

| Characteristics | |
|-------------------------|--------------------------|
| Coefficient of Friction | 0.5 |
| Bar Construction | |
| Bearing Layer | UHMW Polyethylene |
| Absorption Layer | 60A Durometer SBR Rubber |
| T-Slot | Aluminum |
| Fasteners | T-Bolts |

Martin® Impact Bars absorb the punishment of loading zone impact, preventing damage to equipment and stabilizing the belt line to control fugitive material. Each bar is anchored with four bolts for Martin® MD Impact Cradle and three bolts for Martin® LD Impact Cradle for easy replacement.

IMPACT BAR DIMENSIONS - mm

| | A | B | C | D | E | F | P/N |
|------------|----|----|-----|----|----|------|-------|
| Rubber Bar | 75 | 97 | 102 | 18 | 12 | 1220 | 31617 |



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