

HOW IT WORKS

A belt rip or peeling bottom cover, dangles down and strikes the comb, flipping it over and tripping the proximity sensor. This signals the conveyor controller to alarm and/or stop.

To RE-SET, swing the comb back up to click the detent cam back into place. (Can do from either side of the conveyor).

If the belt wanders excessively ("tracks off") its edge strikes the wing tip, and trips the switch.

If the belt bounces excessively, ("belt flap") it will strike the comb and trip the switch.

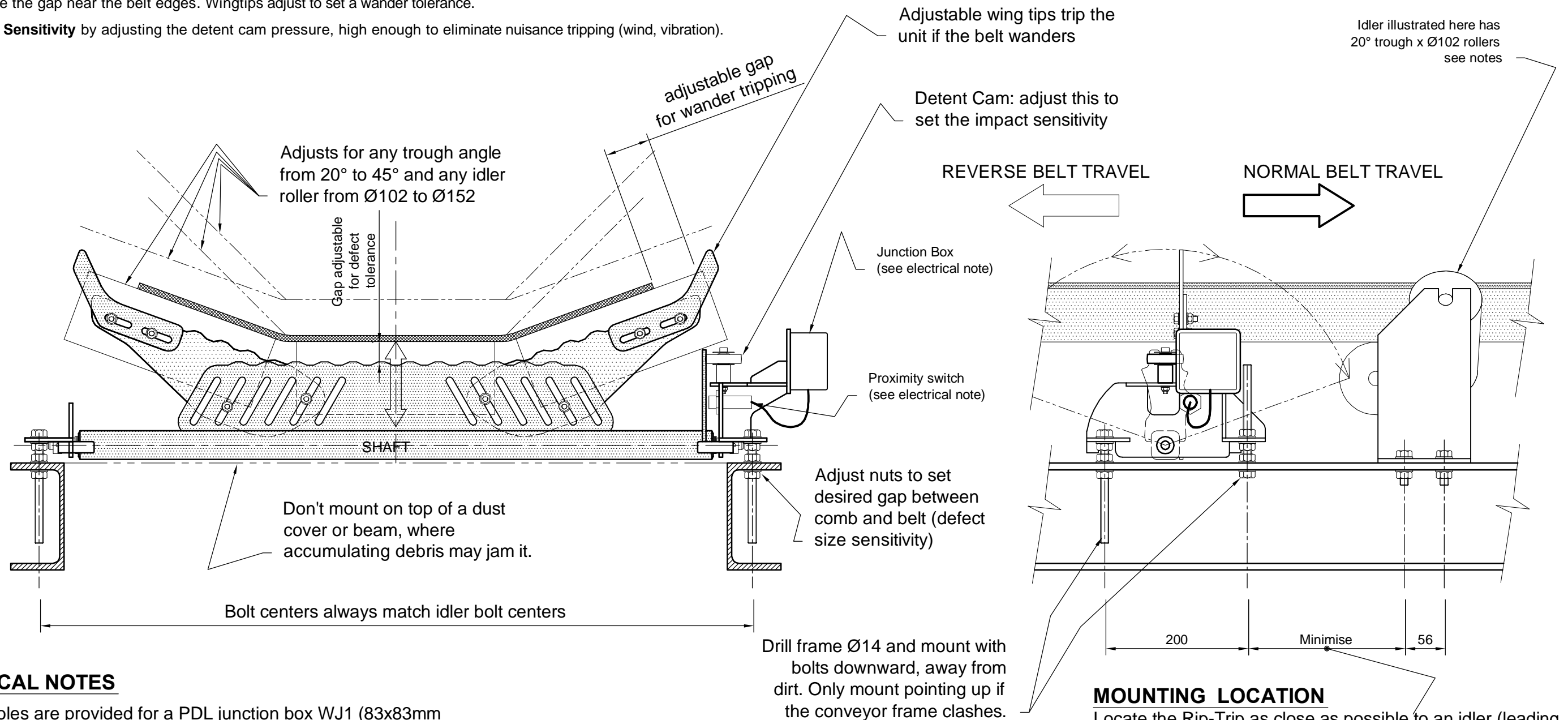
Adjust Size of defect and bounce tolerated by raising/lowering the unit on its mounting studs; comb wings may also tilt to reduce/increase the gap near the belt edges. Wingtips adjust to set a wander tolerance.

Set an Impact Sensitivity by adjusting the detent cam pressure, high enough to eliminate nuisance tripping (wind, vibration).

WHY BUY A *MARSDEZYN RIP-TRIP* ?

Instead of industry standard rip and wander detection switchgear?

- Only one circuit to wire on site instead of four; simple and economic.
- Re-set from either side of the conveyor, and without crawling underneath.
- No loose trip-cable to retrieve or untangle from downstream idlers, as with other devices.
- A complete solution in one compact package, just drill four holes, no brackets to make.
- Separate adjustment for defect size and sensitivity, to optimize trip setting.



ELECTRICAL NOTES

Mounting holes are provided for a PDL junction box WJ1 (83x83mm rated IP56). No electrical hardware is supplied unless requested.

Proximity switch: Any make/model/type may be used that has 8mm sensing distance, and maximum Ø20 size. Example: Telemecanique Osiconcept XS618B1. It must be wired with normally closed contacts when sensing metal (i.e. "fail safe")

For safety, the conveyor must not restart automatically after the comb is set back in place. The system may be "enabled" but only restarted by pressing a start button.

UNITS AVAILABLE

Belts 400 wide to 1350 wide, 3-roll trough 20° to 45°, Ø102 to Ø152 idlers
Return strand of belt, 400 to 1350 wide
Larger sizes and Flat-belt units are under development.

MOUNTING LOCATION

Locate the Rip-Trip as close as possible to an idler (leading is preferred, as shown); swing the comb to its stops to confirm free travel. At the idler, the belt best conforms to the true trough geometry. Mounting further away where the belt sags and bulges will require setting the comb further down from the belt surface to avoid nuisance tripping, and this will reduce effectiveness.

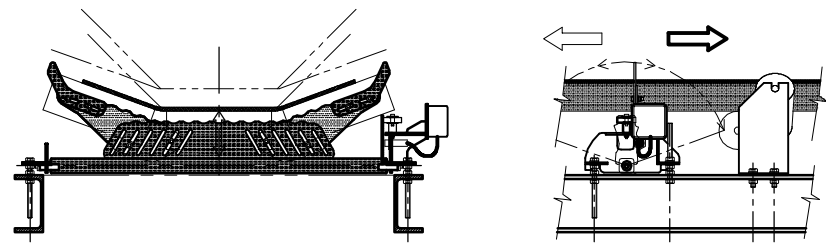
Caution: Due to ongoing development, some features on this promotional illustration may not exactly match the product being sold. !

Marsden Engineering Presents The *Marsdezyn*
RIP - TRIP
CONVEYOR BELT RIP AND WANDER DETECTOR

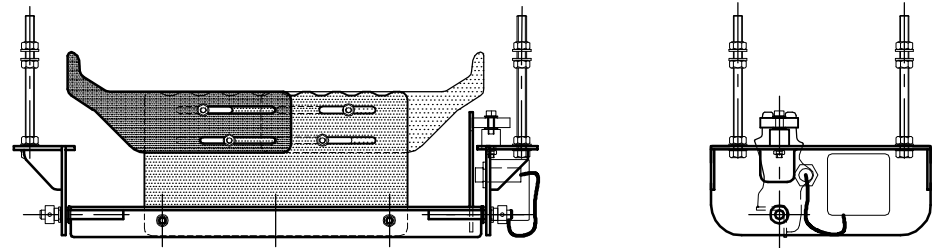


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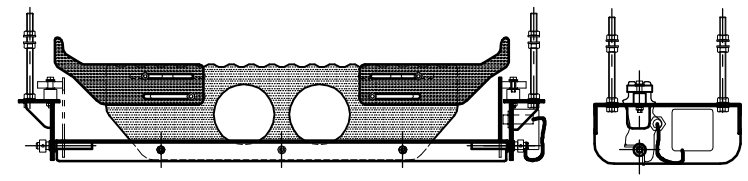
Caution: Due to ongoing development, some features on this sales illustration may not exactly match actual hardware



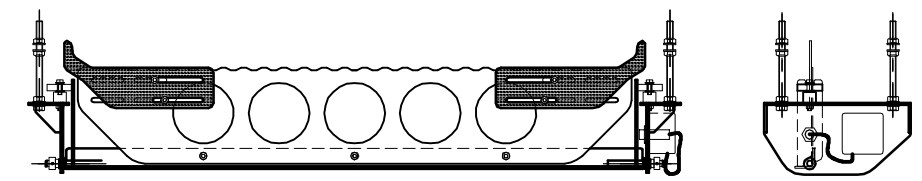
**SALES PROMOTION AND INSTALLATION DRAWING
MBE-RIP-000 Sheet 2**



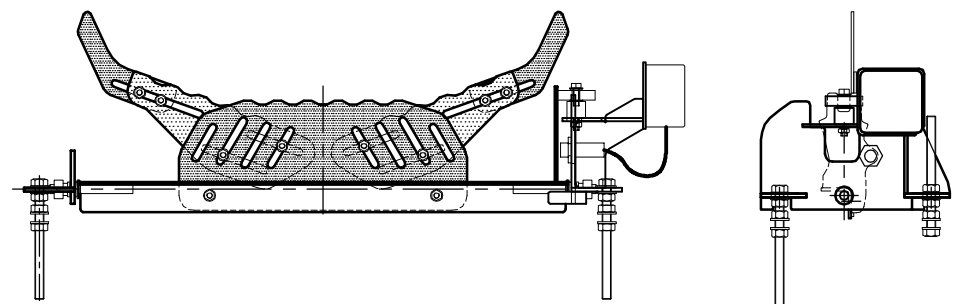
400 to 500 Belt Width, Flat Return Belt
MBE-RIP-004



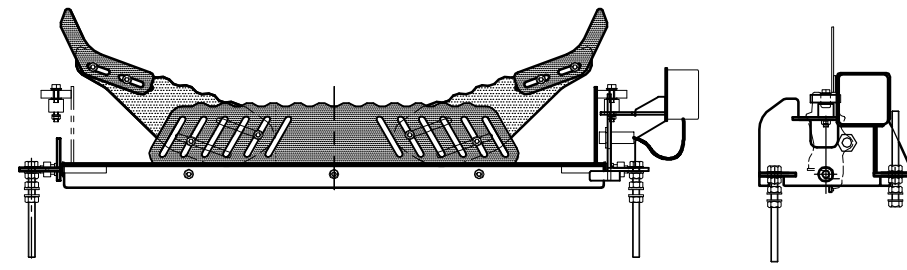
600 to 900 Belt Width, Flat Return Belt
MBE-RIP-005



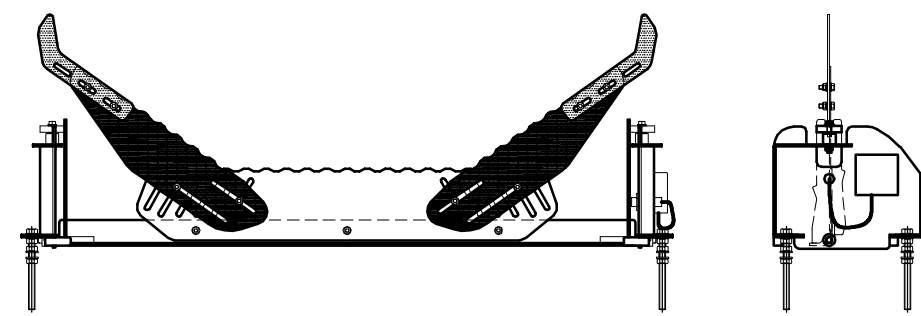
1000 to 1350 Belt Width, Flat Return Belt
MBE-RIP-006



400 to 500 Belt Width, 20° to 45° 3-Roll Trough
MBE-RIP-001



600 to 900 Belt Width, 20° to 45° 3-Roll Trough
MBE-RIP-002



1000 to 1350 Belt Width, 20° to 45° 3-Roll Trough
MBE-RIP-003

REV	DATE	DESCRIPTION	BY
B	2014-11-05	General revision	IM
A	2014-08-13	Issued for pricing, review, & promotion	IM



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UNLESS OTHERWISE STATED All dimensions are in millimeters, "typical", and symmetrical about centerlines. Tolerance ± 1 on last digit if < 3000 mm; ± 2 mm if < 10 m, and ± 3 mm thereafter. Remove all sharp features "handsafe". Minimum weld FPBW or 5 continuous fillet

DESIGNER / DATE
IM 2014-08-06
3rd L Projection

NOT TO SCALE

MB = MATERIAL HANDLING, BELT CONVEYOR
ELECTRICAL DEVICES - RIP & WANDER TRIP
GENERAL CATALOGUE
TRUE SCALE BAR
CORRECT AT ANY PRINT SIZE

CLIENT
Marsden Engineering Ltd
MARSDEZYN STANDARD DESIGNS

DRAWING NUMBER
MBE-RIP-000

SHEET
1 of 3

REVISION
B