

IOM: K-Protector® Return Idler Guard

Kinder Australia Product:
Product Category:
Issue Date:
Revision:
Overview:

K-Protector® Return Idler Guard

Safety & Environmental

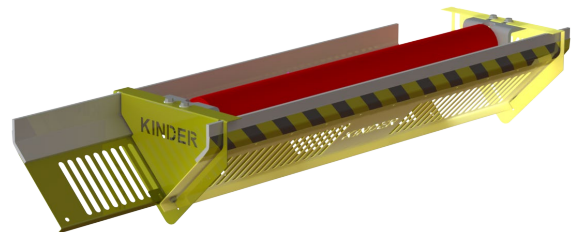
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The function of the K-Protector® Return Idler Guard is to provide nip point protection on conveyor rollers.

If the unit is installed correctly the Guard meets Australian Standard AS/NZS 4024.3610:2015

Modifying the unit in any way may render the unit unsafe and not fit for service.



Procedure:

1. The K-Protector® Return Roller Guard V2 is suitable for use on multiple roller diameters and shaft sizes.
2. Isolate, lock and danger tag the conveyor at the main positive isolator in accordance with the appropriate occupational health and safety regulations to prevent unauthorised starting.
3. Using a belt lifter or other site approved device, lift and secure the Conveyor Belt above the return roller.
4. Remove the existing Conveyor Return roller.
5. Loosen and remove the bolts on the existing return roller brackets. These brackets will no longer be required. You may also require longer bolts for the new adjustable return brackets (Bolts not included).

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6. Refer to either Name Tag-Keep Plate for Across Flat 14.5mm or Name Tag-Keep Plate Across Flat 22.5mm. Then select the appropriate bolt hole locations and assemble the Keep Plate to the Return Bracket (Item 2 to Item 3). This will ensure the correct profile of the Guard is achieved and the gap between the conveyor belt and Guard is set to $\leq 5\text{mm}$. (See photos.)
7. Then assemble the Return Bracket together with one of the End Plates, and secure to your conveyor stringer. The return bracket should be installed underneath the End plate and the End Plate installed underneath the stringer.
8. Repeat for the opposite end.
9. Re-install the Conveyor Return Roller.
10. The Return Bracket and Roller should be square and true to maintain correct belt alignment.
11. Slide both polymer/steel Guards into place and fit the bolts as per the drawing.
12. Check that the gap between your conveyor belt and polymer guard is $\leq 5\text{mm}$.
13. The installation is now complete; remove all tools, personnel danger tags and unlock main positive isolator.
14. Start conveyor belt on test or manual control; then return conveyor to service and observe performance.

Procedures for removal of the guards for cleaning / inspection:

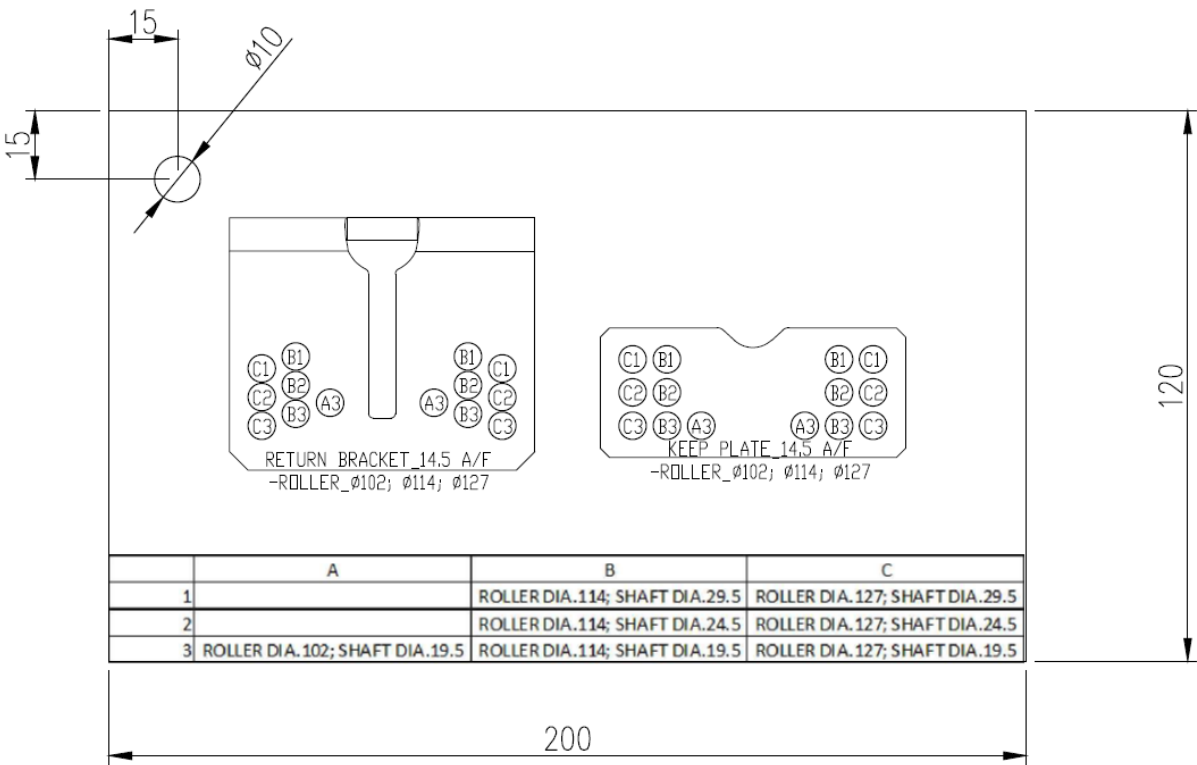
- a) Undo the bolts locating the Polymer/steel Guards.
- b) Retract out Polymer/steel Guards and clean.
- c) Re-install Guards and securing bolts.



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Name Tag - Keep Plate

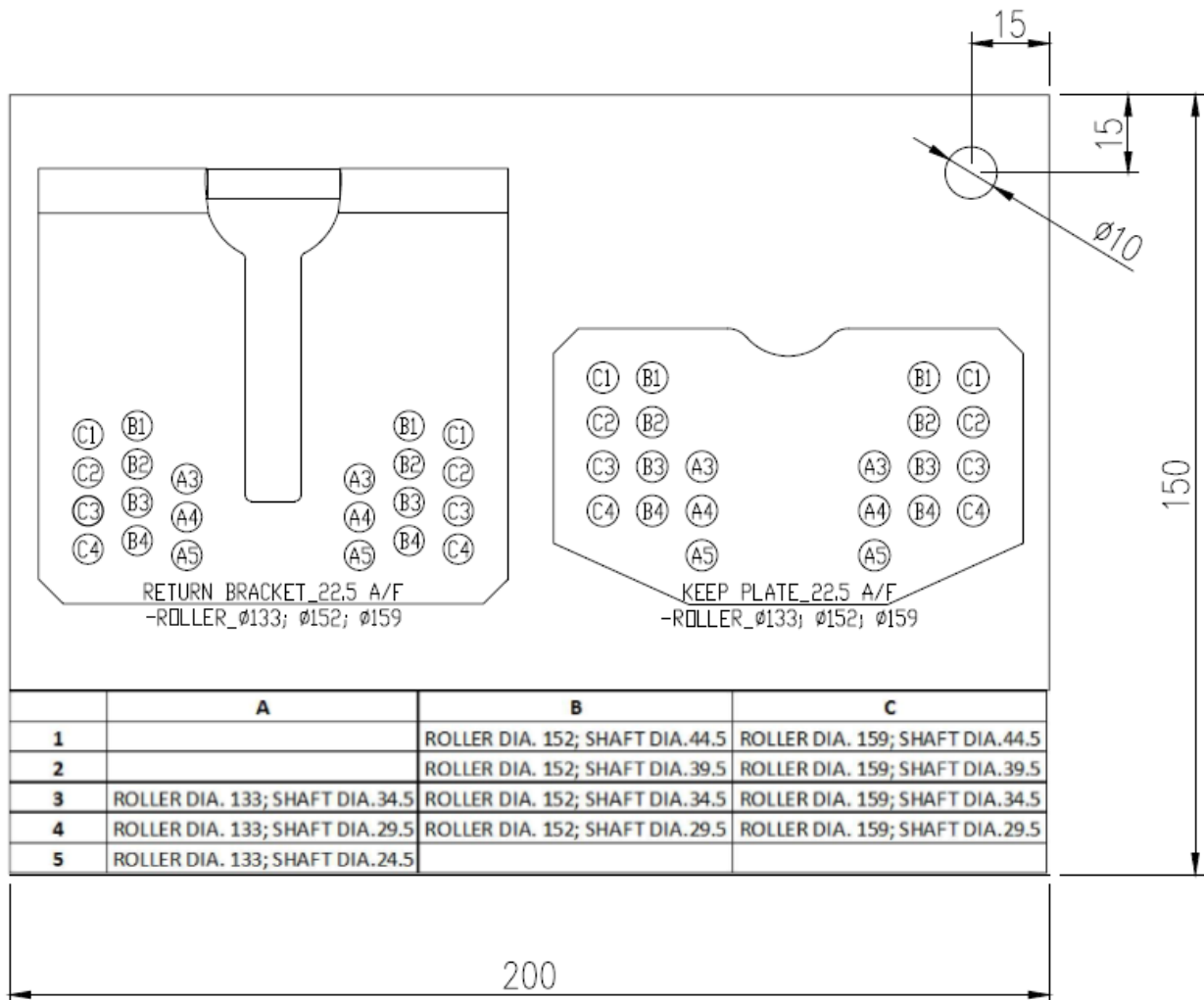
Across Flat 14.5mm



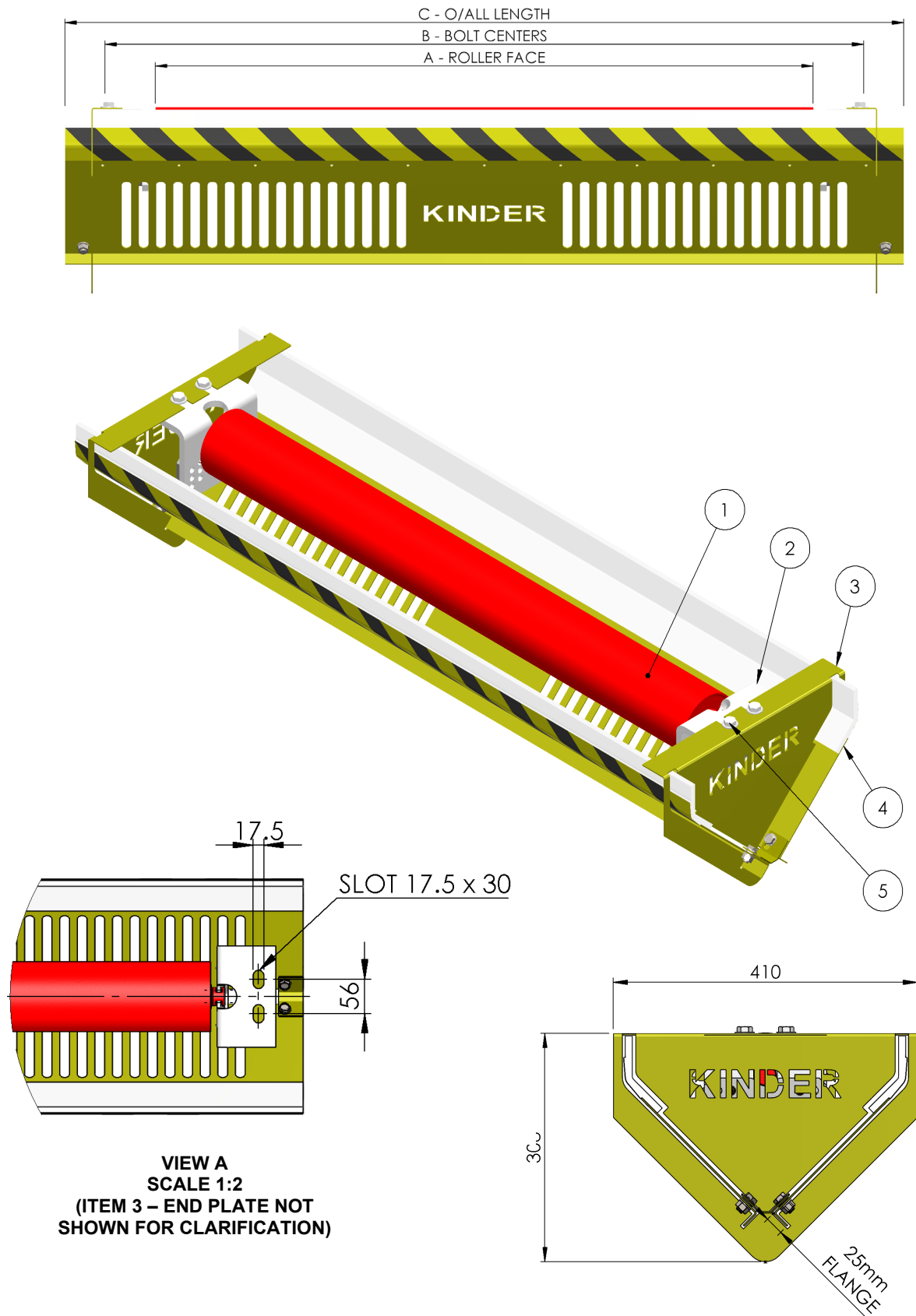
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Name Tag - Keep Plate

Across Flat 22.5mm



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Belt Width	Part Number (Across Flat 14.5mm)	A (Roller Face)	B (Bolt Centres)	C (O/A Length)
450	RRP-0450-102-127-AS	544	700	845
500	RRP-0500-102-127-AS	594	750	895
600	RRP-0600-102-127-AS	694	850	995
650	RRP-0650-102-127-AS	744	900	1045
750	RRP-0750-102-127-AS	844	1000	1145
800	RRP-0800-102-127-AS	894	1050	1195
900	RRP-0900-102-127-AS	994	1150	1295
1000	RRP-1000-102-127-AS	1094	1250	1395
1050	RRP-1050-102-127-AS	1144	1300	1445
1200	RRP-1200-102-127-AS	1294	1450	1595
1400	RRP-1400-102-127-AS	1544	1650	1795
1500	RRP-1500-102-127-AS	1644	1750	1895

Belt Width	Part Number (Across Flat 22.5mm)	A (Roller Face)	B (Bolt Centres)	C (O/A Length)
450	RRP-0450-133-159-AS	544	700	845
500	RRP-0500-133-159-AS	594	750	895
600	RRP-0600-133-159-AS	694	850	995
650	RRP-0650-133-159-AS	744	900	1045
750	RRP-0750-133-159-AS	844	1000	1145
800	RRP-0800-133-159-AS	894	1050	1195
900	RRP-0900-133-159-AS	994	1150	1295
1000	RRP-1000-133-159-AS	1094	1250	1395
1050	RRP-1050-133-159-AS	1144	1300	1445
1200	RRP-1200-133-159-AS	1294	1450	1595
1400	RRP-1400-133-159-AS	1544	1650	1795
1500	RRP-1500-133-159-AS	1644	1750	1895