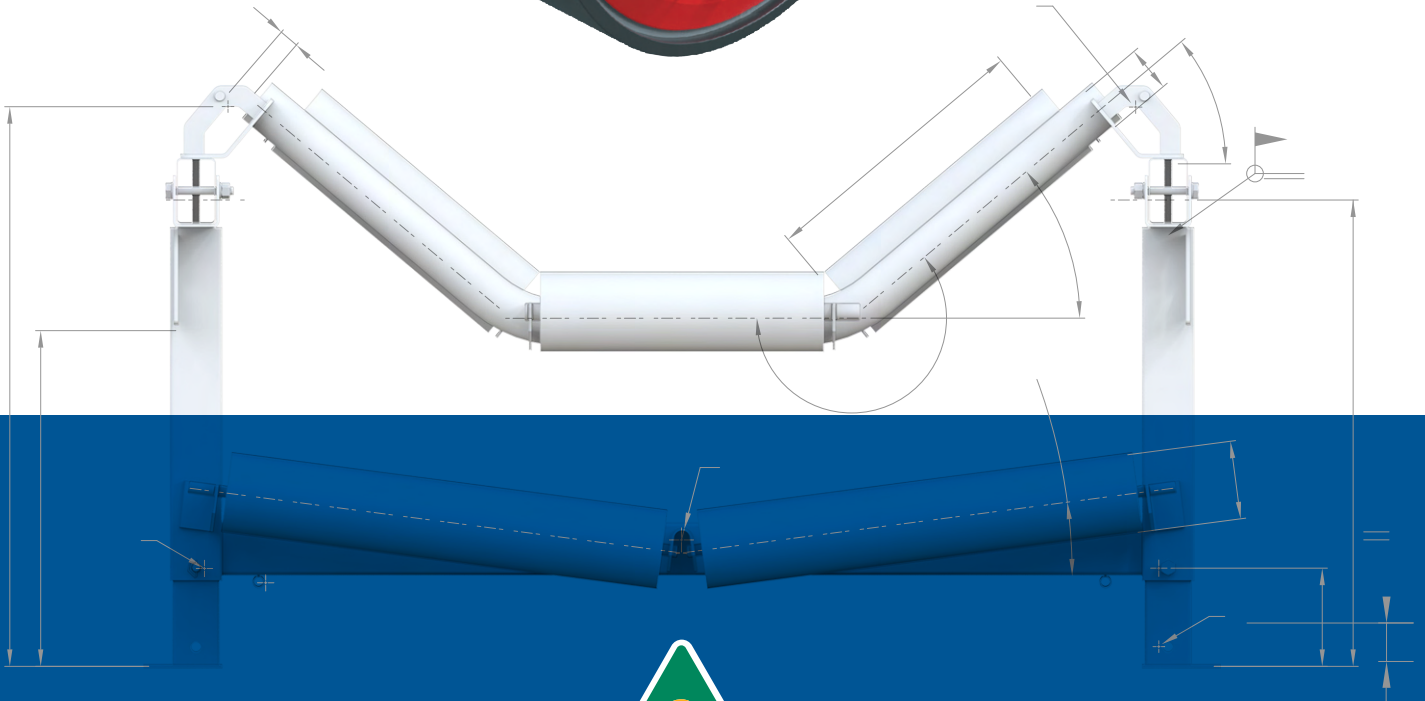
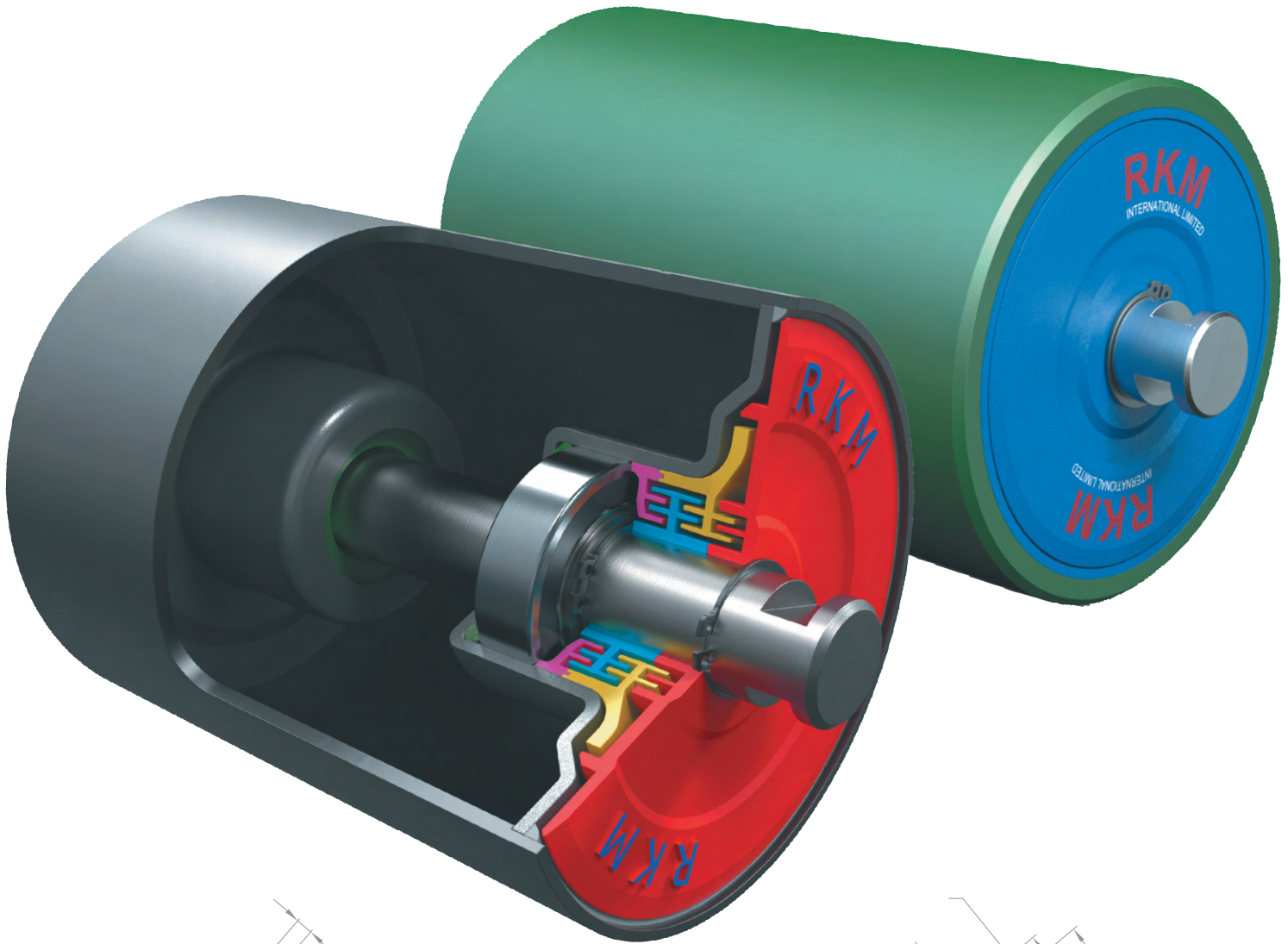


GLOBAL LEADERS IN DESIGN, MANUFACTURING  
AND SUPPLY OF HIGH SPEED CONVEYOR IDLERS  
AND STRUCTURE  
PRODUCT CATALOGUE



# Engineering Solutions & Continuous Improvements

With over 35 years engineering experience in the conveyor industry, RKM is well equipped to provide the ideal tailored engineering solution for you.

Combine this experience with our world class testing laboratory, our high-quality products, our in-house custom-built design calculation program, 3rd party independent

testing and our R&D projects, RKM has the knowledge and proven ability to support your needs.

Through total customer focus, RKM provides intelligent solutions that deliver our customers a genuine quality product at internationally competitive prices.



## We are focused

## Product Development

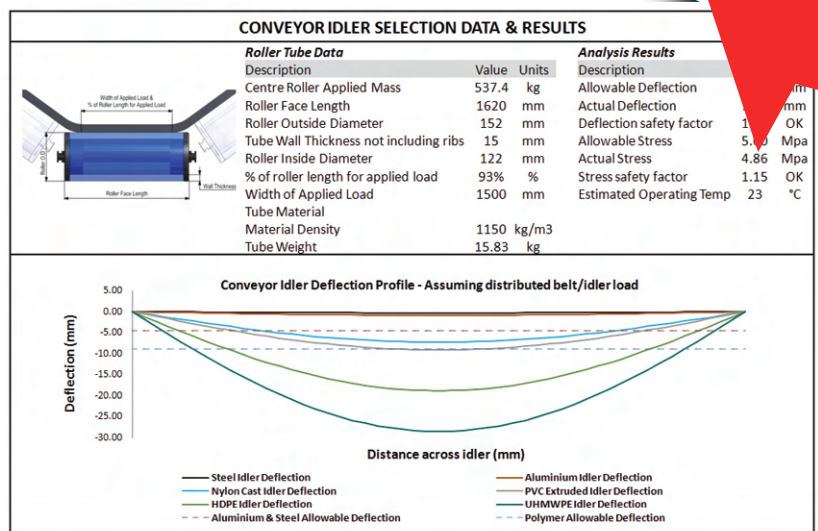
## Support Services

## Product Support Solutions

RKM offers engineering & technical support services for all its products. Our support staff have vast experience in the materials handling industry and are available to visit site upon request.

As well as engineering support RKM provide many site support services as listed below -

- Site auditing & inspections
- Idler database creation
- Idler failure mapping
- Failure analysis reporting
- RKM Smart Idler - live roller monitoring
- Product Trials
- Drafting services
- Product suitability checks
- On or off-site stocking and management





# Quality Management Systems

RKM is committed to manufacturing and supplying the highest quality products to our customers. By employing the following practices and gaining various certifications we guarantee our product is the world leader in quality.

- **Quality Tests**

- o In house testing laboratory
- o TUNRA Bulk Solids
- o SIRIM QAS International

- **Quality Control Documents**

- o RKM Quality Management Plan (QMP)
- o RKM Manufacturers Data Records (MDR)
- o Inspection Test Plan (ITP)

- **Quality Certifications**

- o ISO 9001:2015
- o SKF, NTN Bearing Handling & Installation Practices



## on your business



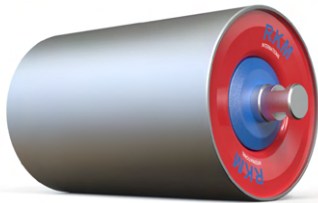
## Flexible Responsive Manufacturing

RKM combines advanced manufacturing equipment with streamlined manufacturing processes, to produce the highest quality products at internationally competitive prices. Our automated production lines enable us to consistently and accurately manufacture high quality products, while our semi-automated lines give us the flexibility to manufacture unique products to meet your specific situation.

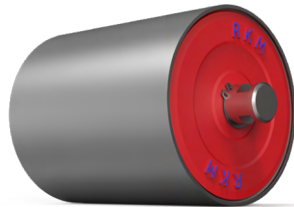
# RKM PRODUCT RANGE

Through extensive research and innovation RKM have developed a comprehensive product range that provides our clients with suitable rollers for any application.

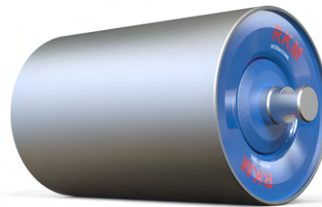
## STEEL



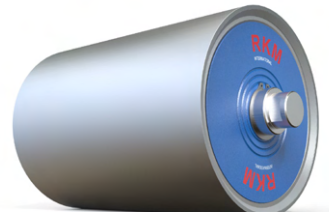
**Standard**



**RR Series Steel Roller**



**High Performance  
Low Noise**



**HD Low Noise**

## IMPACTS



**Rubber**

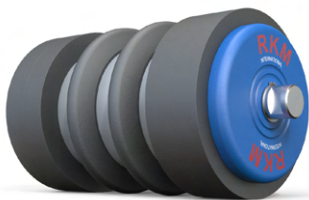


**Poly**

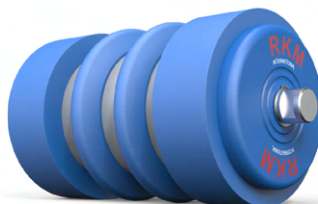


**HD Poly**

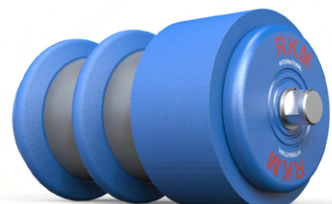
## RETURNS



**Flat Rubber Disc**



**Flat Poly Disc**



**Vee Poly Disc**

## SPECIALS



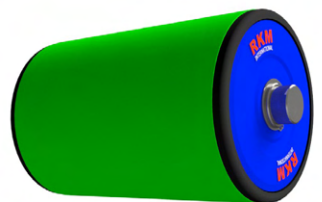
**Aluminium**



**Steel Hybrid**

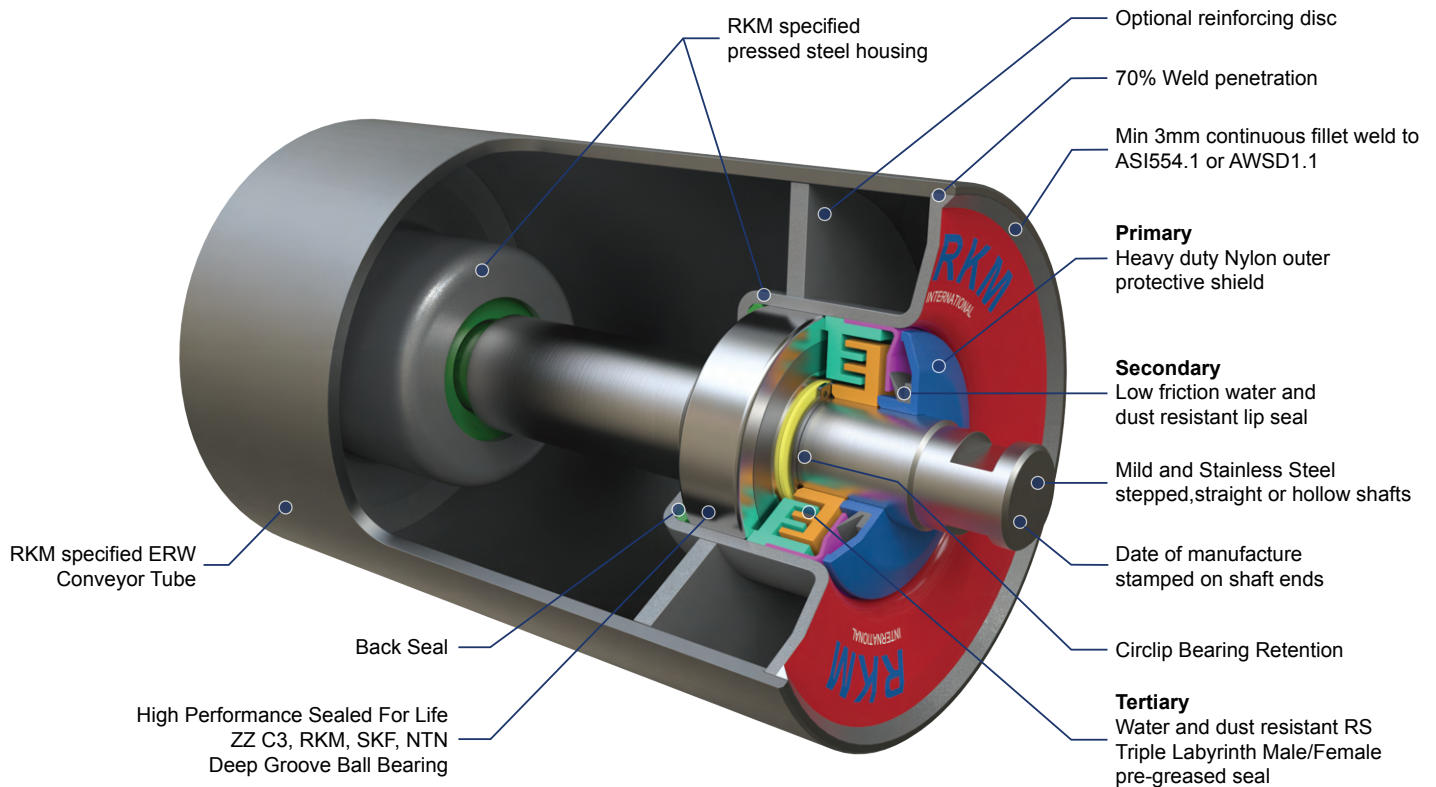


**Medium Duty PVC**



**HD Lightweight  
Composite**





## Seal Package

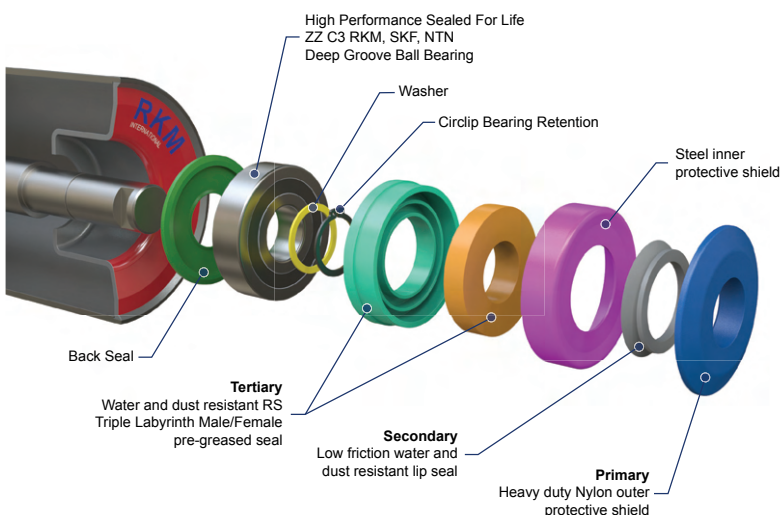


- Industry proven performance
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



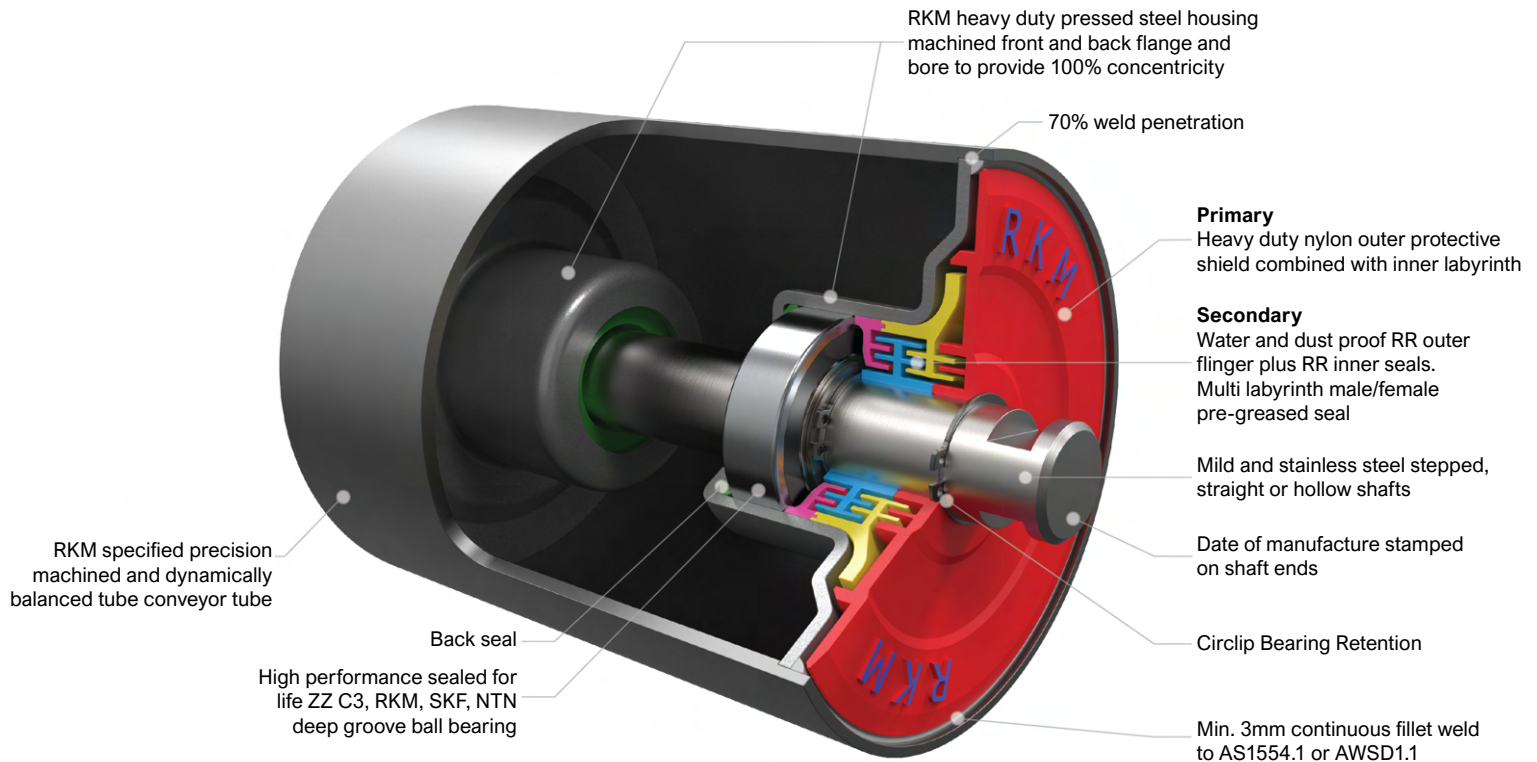
- Balanced to ISO 1940-1:2016-G40
- Minimal TIR & MIS
- Reduced vibration, noise and belt flap
- Increased bearing life
- Precision bearing alignment
- Fully sealed weld - bearing housing to tube



## Upgrades



- Surface Protection – Galvanised or Dacromet
- Rubber Lagging
- FRAS Seals
- Rock Jam Prevention Cover
- Reinforced Bearing Housing
- Name Brand Bearings
- Hollow Shaft
- RKM Smart Idler - Live Roller Monitoring
- Stainless Steel



## Seal Package

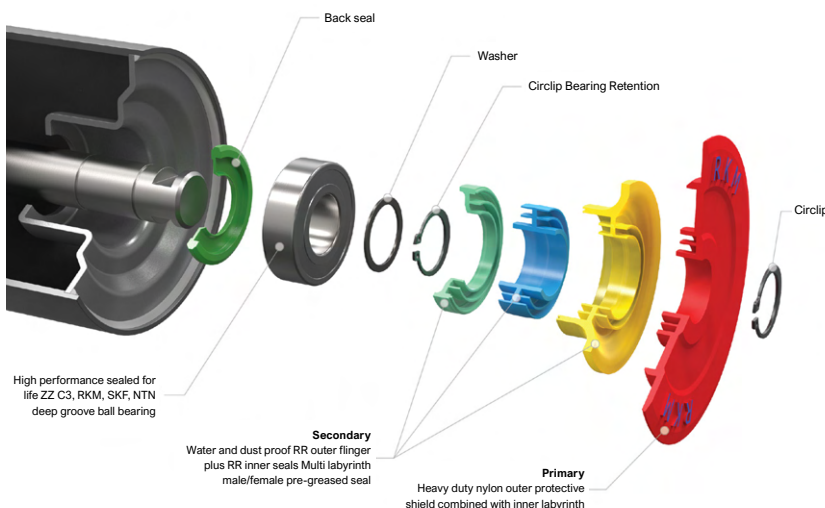


- Industry proven performance
- The outer protective shield, flinger seal and multi labyrinth sealing arrangement provides exclusive bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



- Balanced to ISO 1940-1:2016-G40
- Minimal TIR & MIS
- Reduced vibration, noise and belt flap
- Increased bearing life
- Precision bearing alignment
- Fully sealed weld – bearing housing to tube

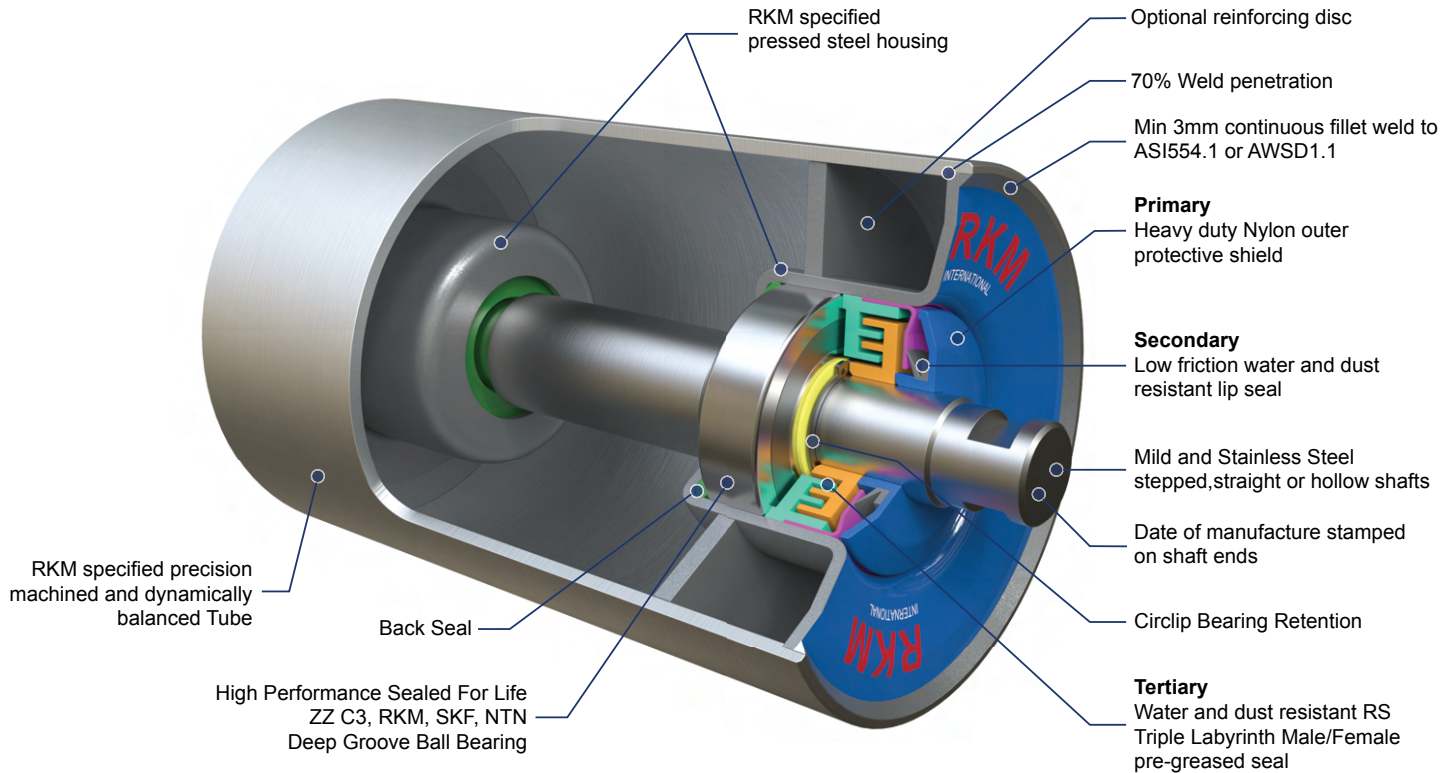


## Upgrades



- Surface Protection – Galvanised or Dacromet
- Rubber Lagging
- FRAS Seals
- Reinforced Bearing Housing
- Name Brand Bearings
- Hollow Shaft
- RKM Smart Idler – Live Roller Monitoring
- Stainless Steel





## Seal Package



- Industry proven performance
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly

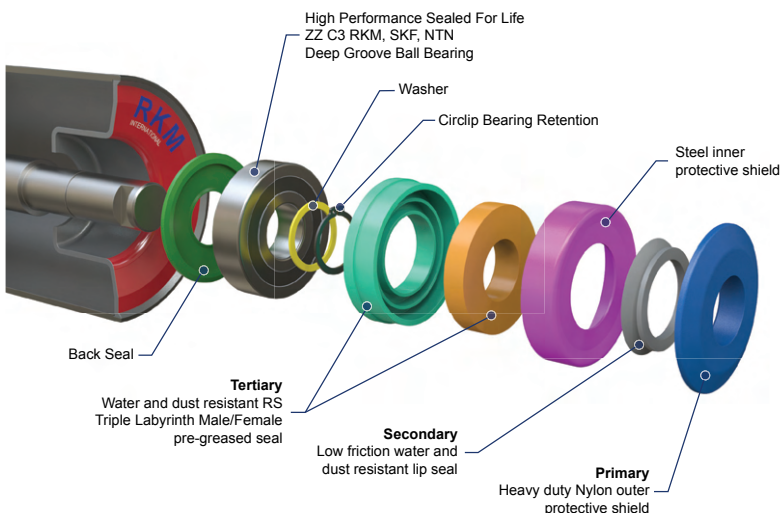


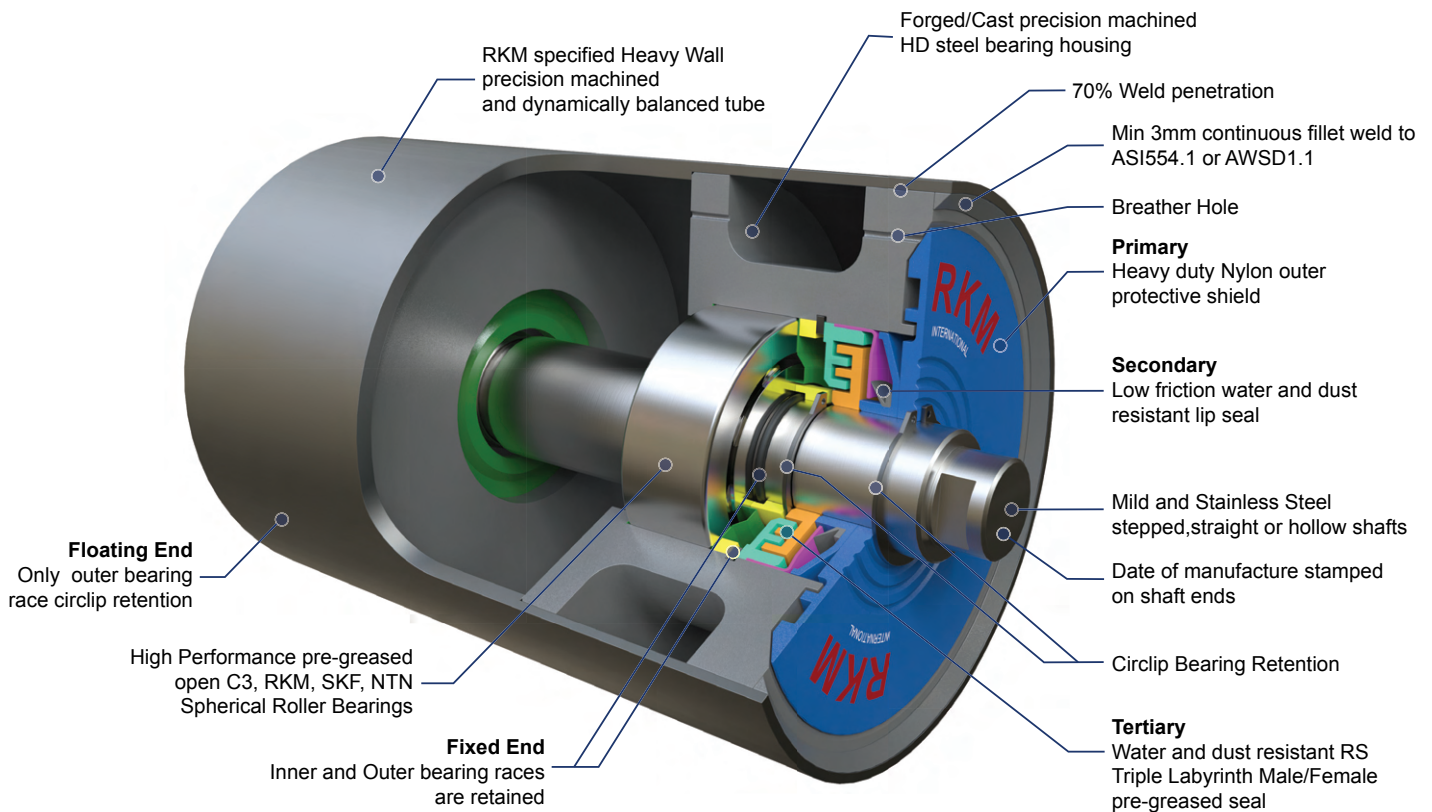
- 10dBA reduction in noise levels compared to an equivalent standard steel roller
- Balanced to ISO 1940-1:2016 - G16
- Minimal TIR (<0.13mm) & MIS (<0.1)
- Reduced vibration and belt flap
- Increased bearing life
- Fully sealed weld - bearing housing to tube

## Upgrades



- Surface Protection – Galvanised or Dacromet
- Rubber Lagging
- FRAS Seals
- Anti-Rock Jam Cover
- Stainless Steel
- Reinforced Bearing Housing
- Name Brand Bearings
- Hollow Shaft
- RKM Smart Idler - Live Roller Monitoring
- Weigh Roller – Jacking Screws





## Seal Package



- Industry proven performance
- Fixed and floating spherical roller bearings for high speed, high load applications
- 3 layers of bearing protection preventing the ingress of foreign material
- Additional anti-rock jam cover
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Custom designed bearing shields prevent ingress, with no effect on frictional resistance

## Roller Assembly

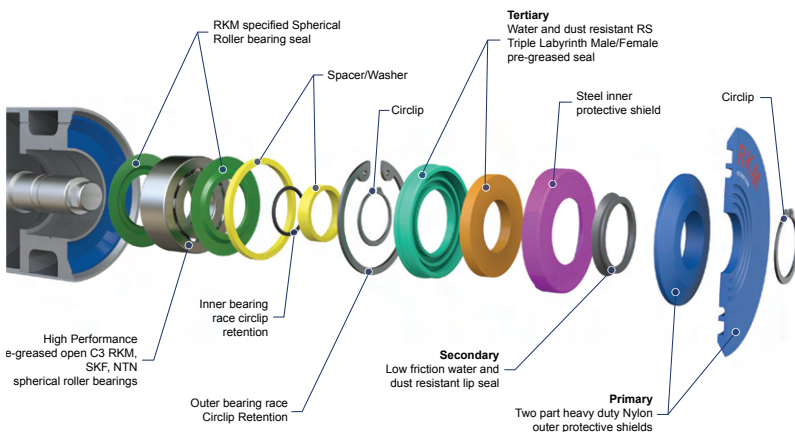


- 10dBA reduction in noise levels compared to an equivalent standard steel roller
- Dynamically balanced to ISO 1940-1:2016 - G16
- Minimal TIR (<0.13mm) & MIS (<0.1)
- Reduced vibration and belt flap
- Increased bearing life
- Fully sealed weld - bearing housing to tube

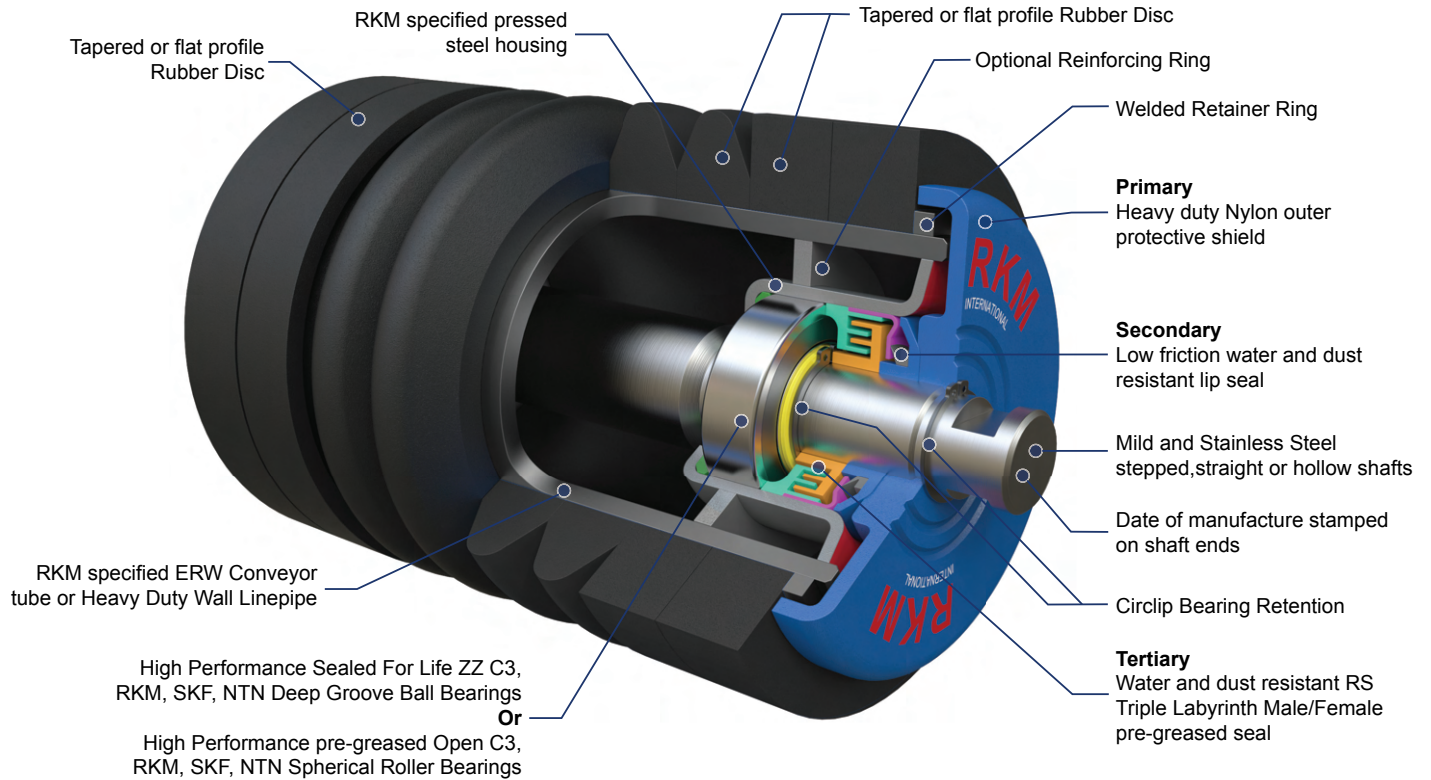
## Upgrades



- Surface Protection – Galvanised or Dacromet
- Rubber Lagging
- FRAS Seals
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring
- Stainless Steel







## Seal Package



- Industry proven performance
- Large outer shield for extra rock jam protection from skirt spillage
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Ball bearings or spherical roller bearings can be fitted for high impact applications
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly

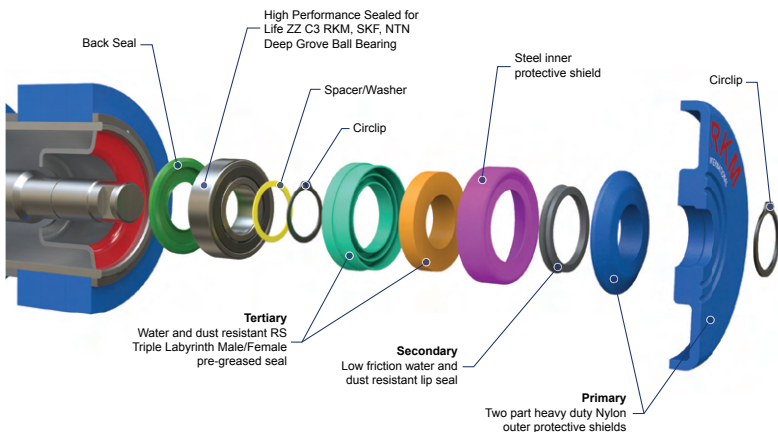


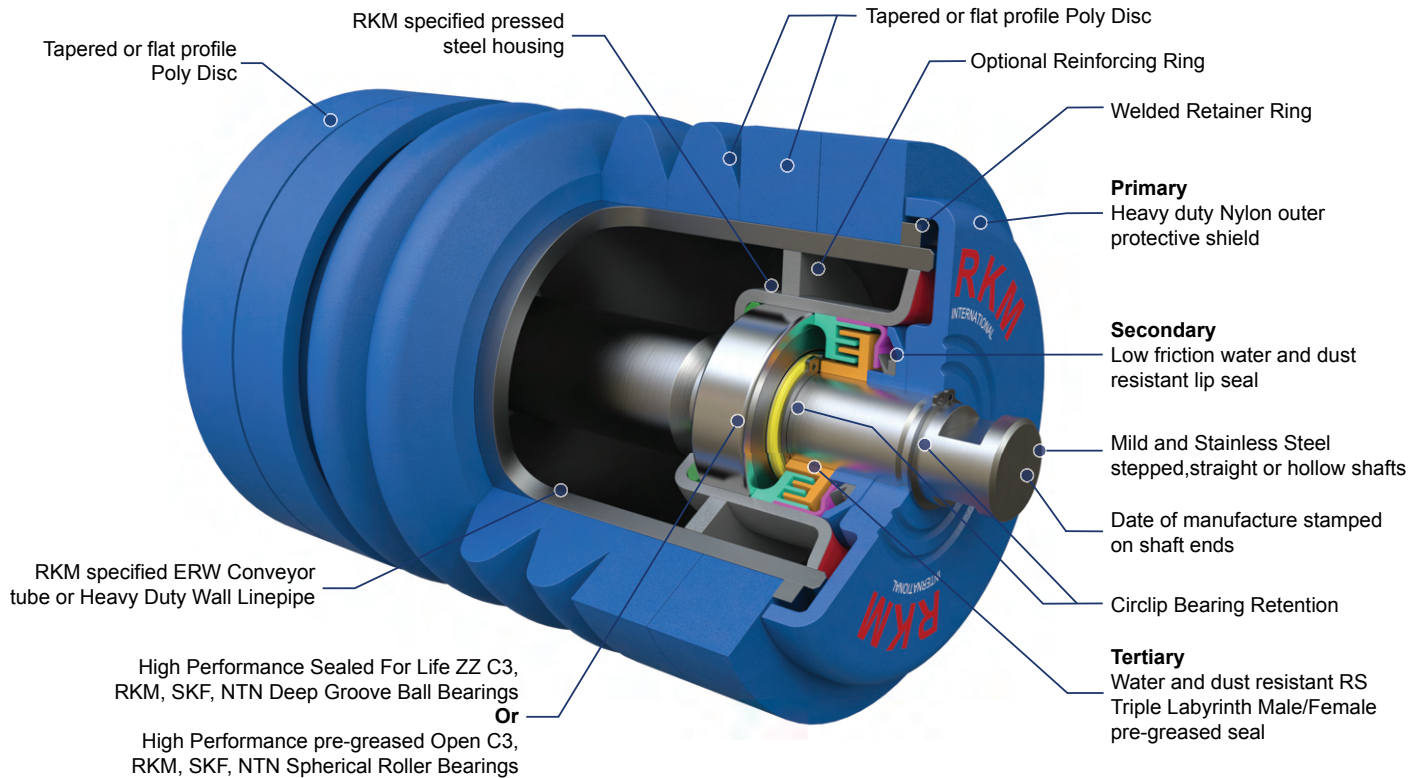
- Balanced to ISO 1940-1:2016-G40
- Excellent impact load dampening
- 2 x disc profiles for various applications or preferences
- Press fitted rubber discs and welded end retainers ensure positive retention during operation

## Upgrades



- FRAS Rubber Discs
- FRAS Seals
- Spherical Roller Bearings
- Reinforced Bearing Housing
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring





## Seal Package

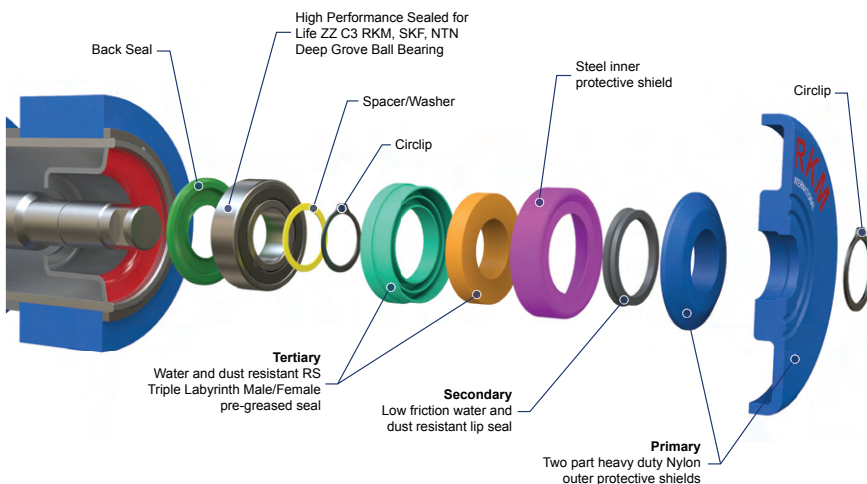


- Industry proven performance
- Large outer shield for extra rock jam protection from skirt spillage
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Ball bearings or spherical roller bearings can be fitted for high impact applications
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



- Balanced to ISO 1940-1:2016-G40
- Excellent impact load dampening
- 2 x disc profiles for various applications or preferences
- Press fitted poly discs and welded end retainers ensure positive retention during operation
- Excellent abrasion resistance

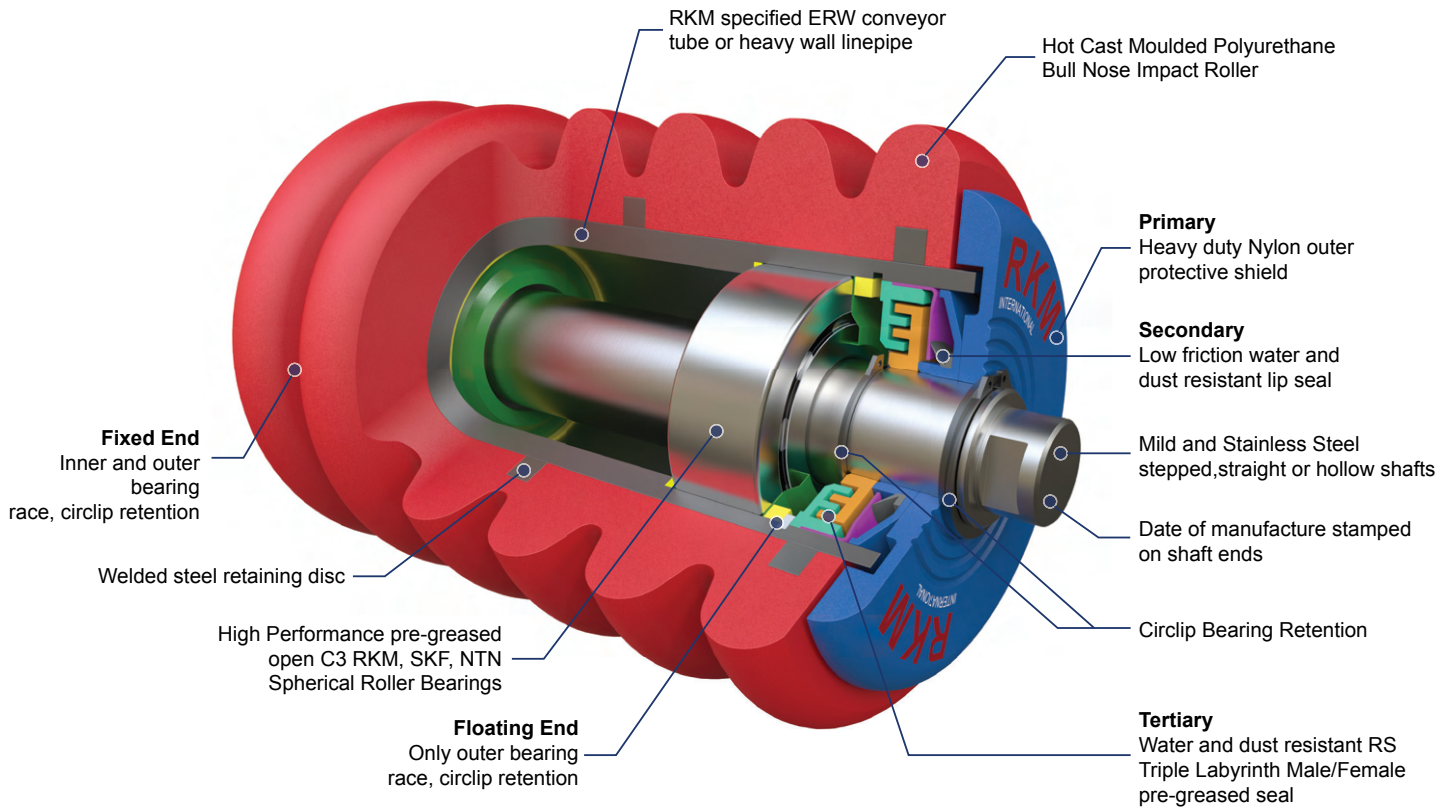


## Upgrades



- FRAS Poly Discs
- FRAS Seals
- Spherical Roller Bearings
- Reinforced Bearing Housing
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring





## Seal Package



- Industry proven performance
- Fixed and floating spherical roller bearings for high speed, high load applications
- Large outer shield for extra rock jam protection from skirt spillage
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Custom designed bearing shields prevent ingress, with no effect on frictional resistance

## Roller Assembly

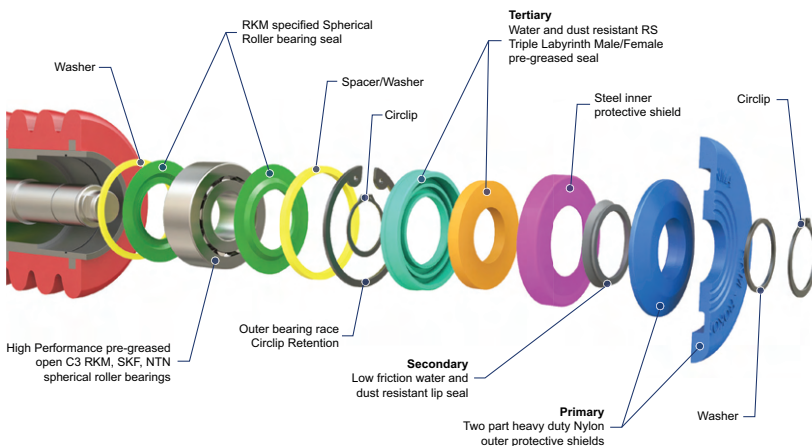


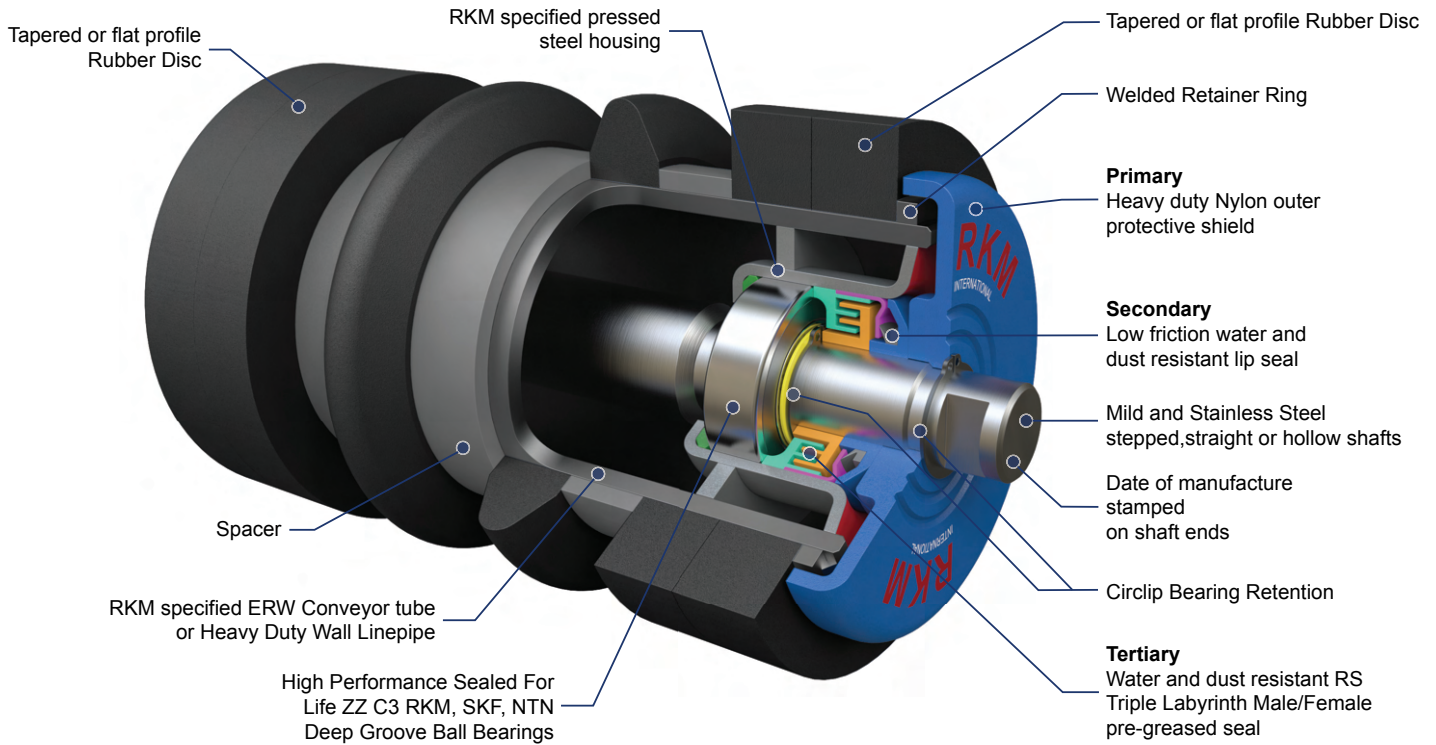
- Balanced to ISO 1940-1:2016-G40
- Superior impact load dampening for extreme conditions
- One piece hot cast poly, mechanically locked to the tube assembly ensures positive retention during heavy duty impact loading conditions
- Excellent abrasion resistance

## Upgrades



- FRAS Poly
- FRAS Seals
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring





## Seal Package

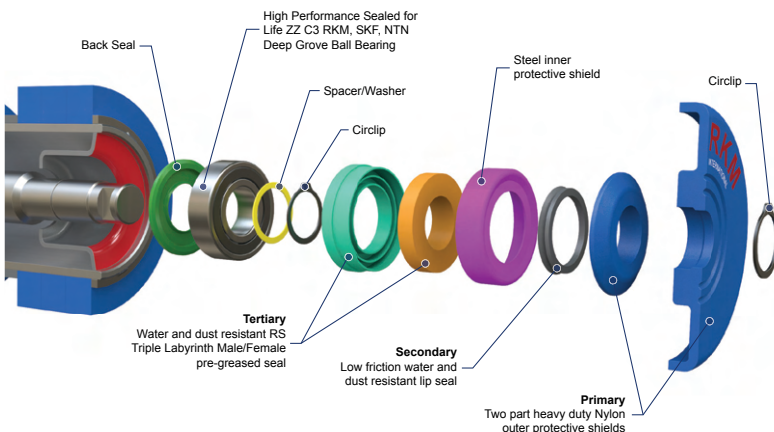


- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



- Balanced to ISO 1940-1:2016-G40
- Reduced roller surface area, which helps shed material build up on the roller surface and prolongs roller life
- 2 x disc profiles. Flat discs are used on the ends and tapered discs in between. The flat discs reduce wear issues when the belt is tracking across the roller face
- Press fitted rubber discs and welded end retainers ensure positive retention during operation

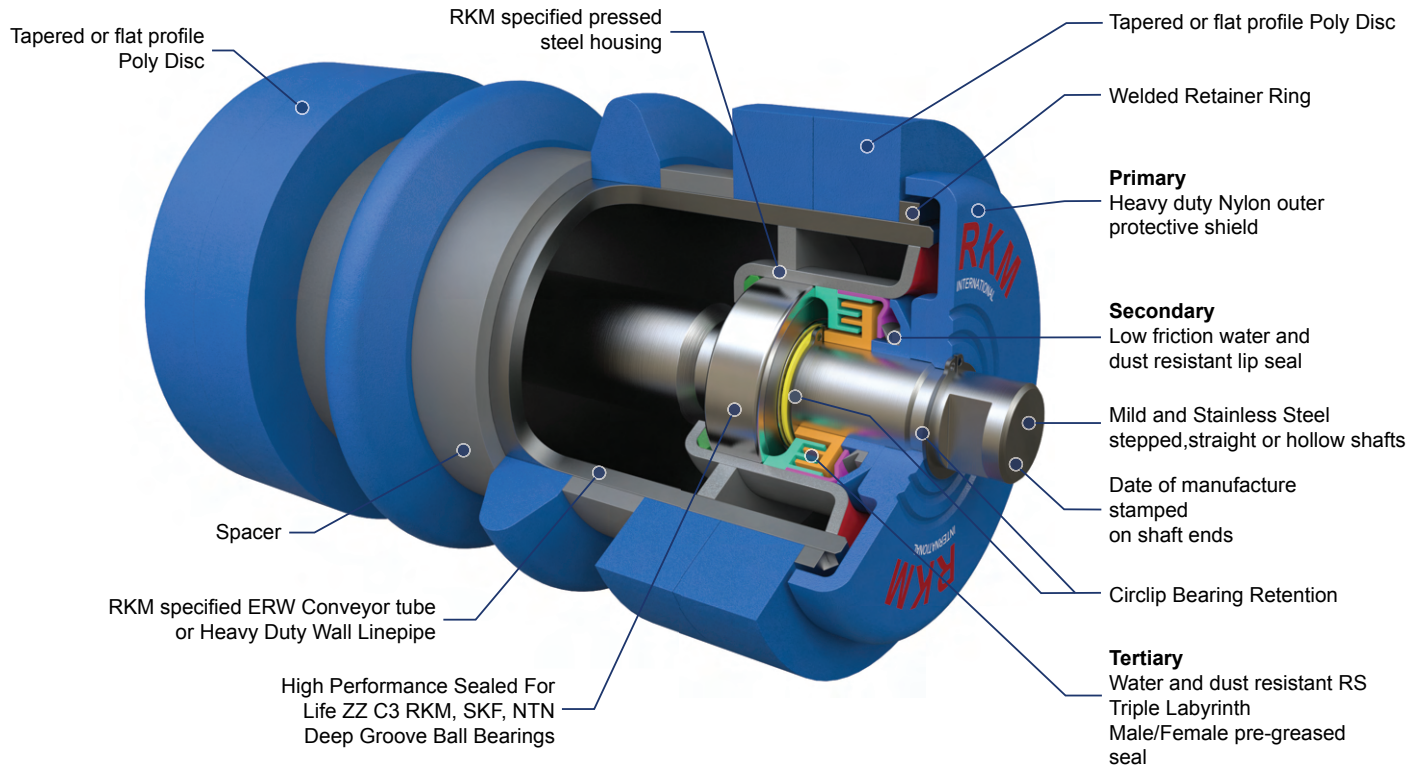


## Upgrades



- FRAS Rubber
- FRAS Seals
- Hollow Shafts
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring
- Reinforced Bearing Housings

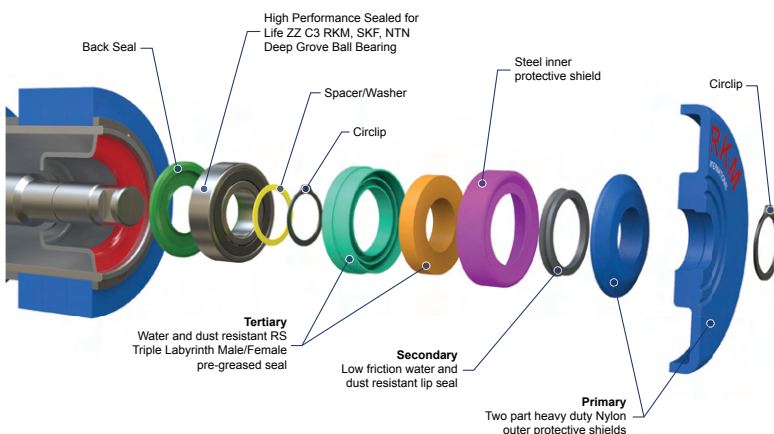




## Seal Package



- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications



## Roller Assembly

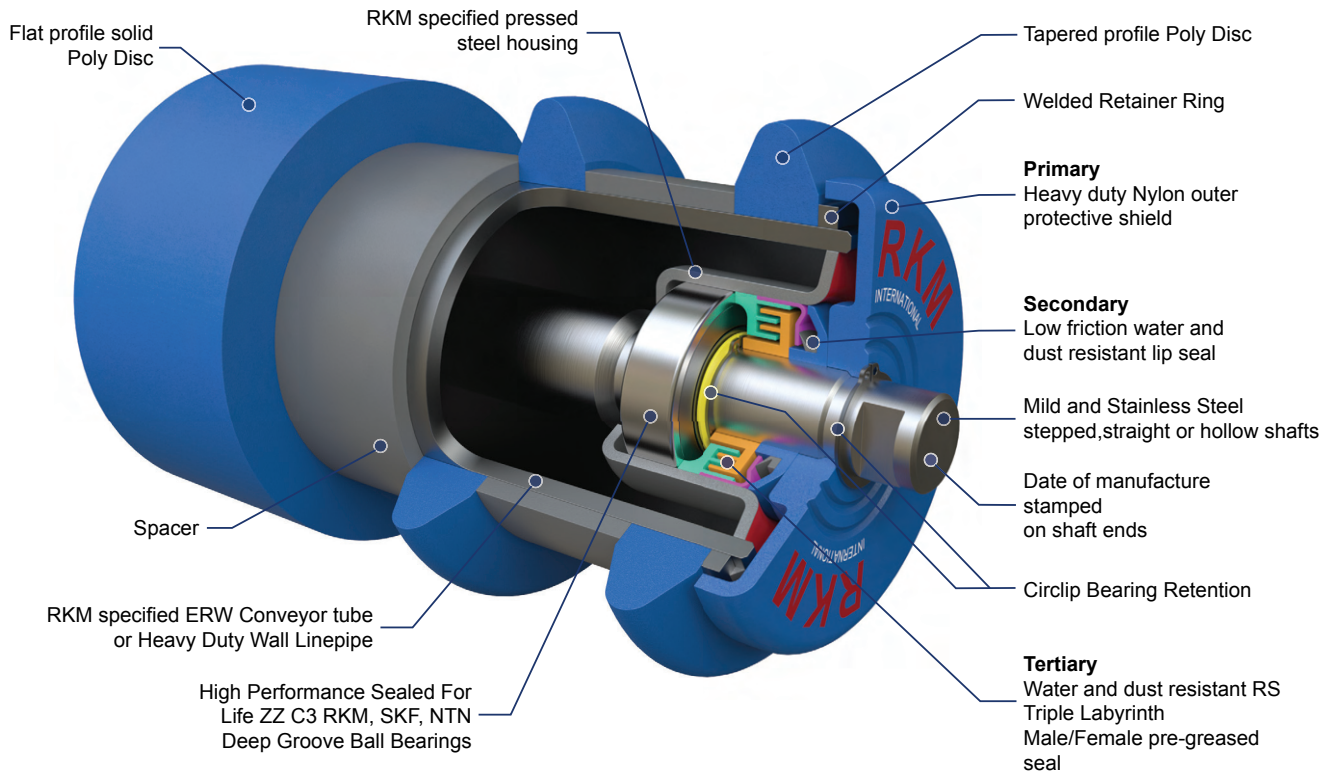


- Balanced to ISO 1940-1:2016-G40
- Reduced roller surface area, which helps shed material build up on the roller surface and prolongs roller life
- 2 x disc profiles. Flat discs are used on the ends and tapered discs in between. The flat discs reduce wear issues when the belt is tracking across the roller face
- Press fitted poly discs and welded end retainers ensure positive retention during operation
- Excellent abrasion resistance

## Upgrades



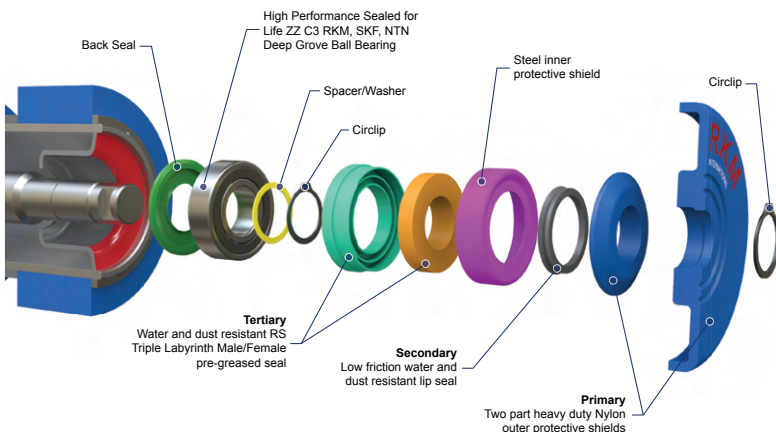
- FRAS Poly
- FRAS Seals
- Hollow Shafts
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring
- Reinforced Bearing Housings



## Seal Package



- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications



## Roller Assembly

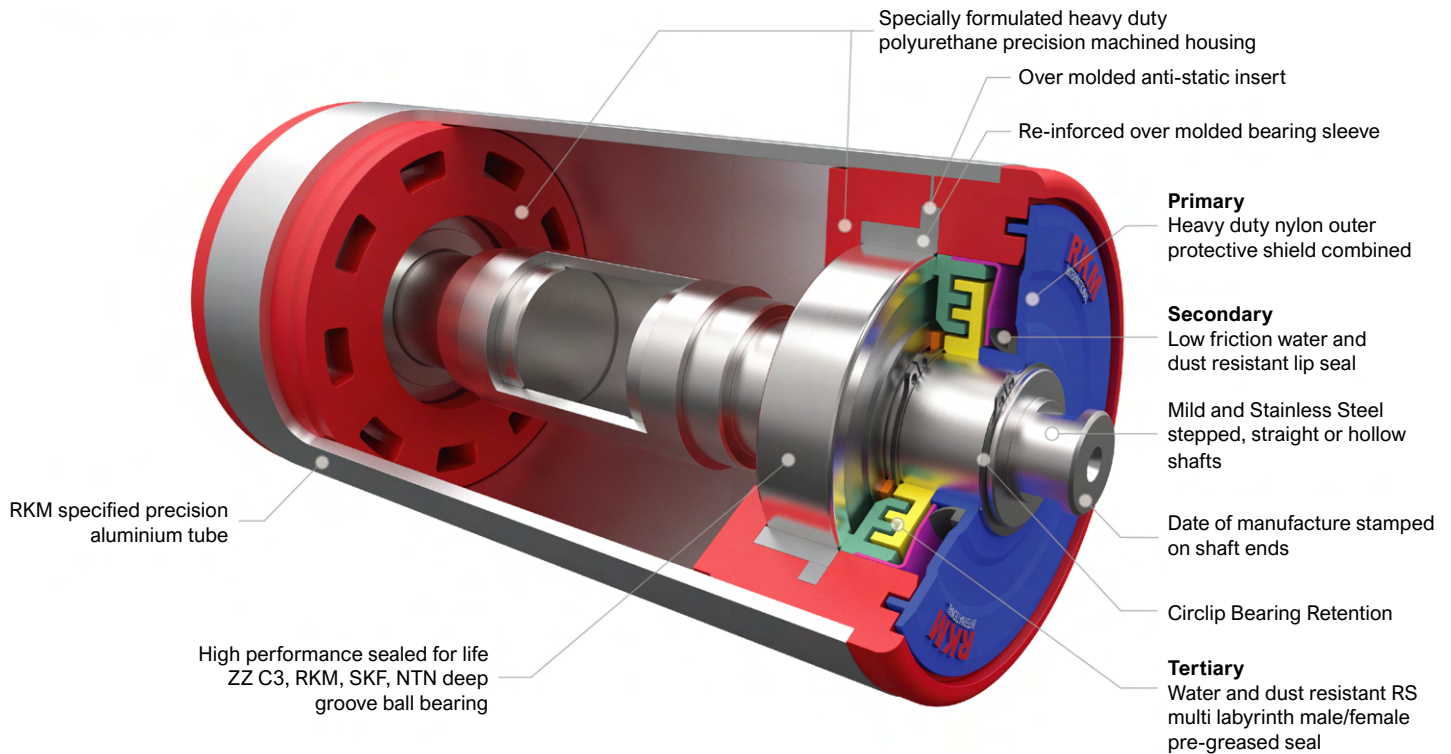


- Balanced to ISO 1940-1:2016-G40
- Reduced roller surface area, which helps shed material build up on the roller surface and prolongs roller life
- 2 x disc profiles. Flat discs are used on the ends and tapered discs in between. The flat discs reduce wear issues when the belt is tracking across the roller face
- Press fitted poly discs and welded end retainers ensure positive retention during operation
- Excellent abrasion resistance

## Upgrades



- FRAS Rubber
- FRAS Seals
- Hollow Shafts
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring
- Reinforced Bearing Housings



## Seal Package

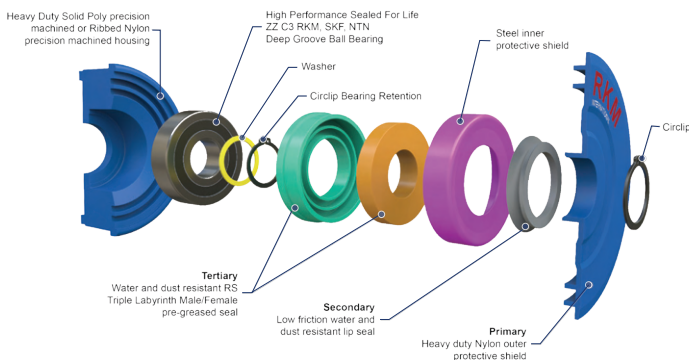


- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



- 10dBA reduction in noise levels compared to an equivalent standard steel roller
- Balanced to ISO 1940-1:2016 - G16
- Meets Australian Industry Standard of minimum TIR & MIS (<0.1)
- Corrosion resistant
- 30% reduction in weight compared to an equivalent steel roller
- Reduced vibration and belt flap
- Belt friendly
- Increased bearing life

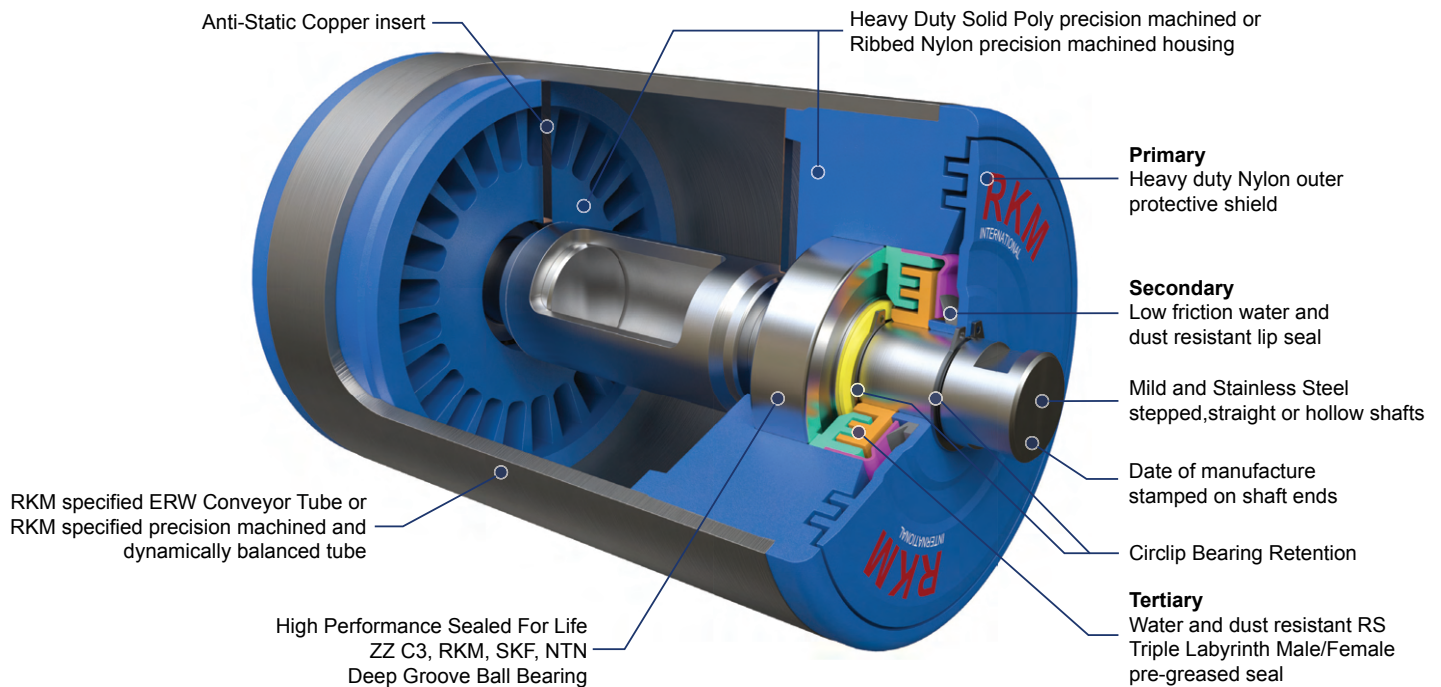


## Upgrades



- Hollow Shafts
- Heavy Duty Solid Bearing Housing
- Stainless Steel
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring
- Weigh Roller – Jacking Screws





## Seal Package

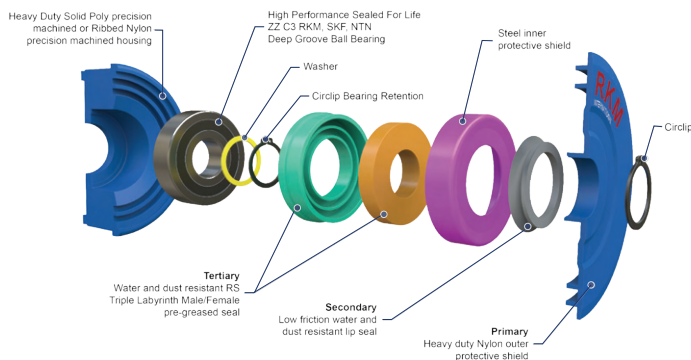


- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



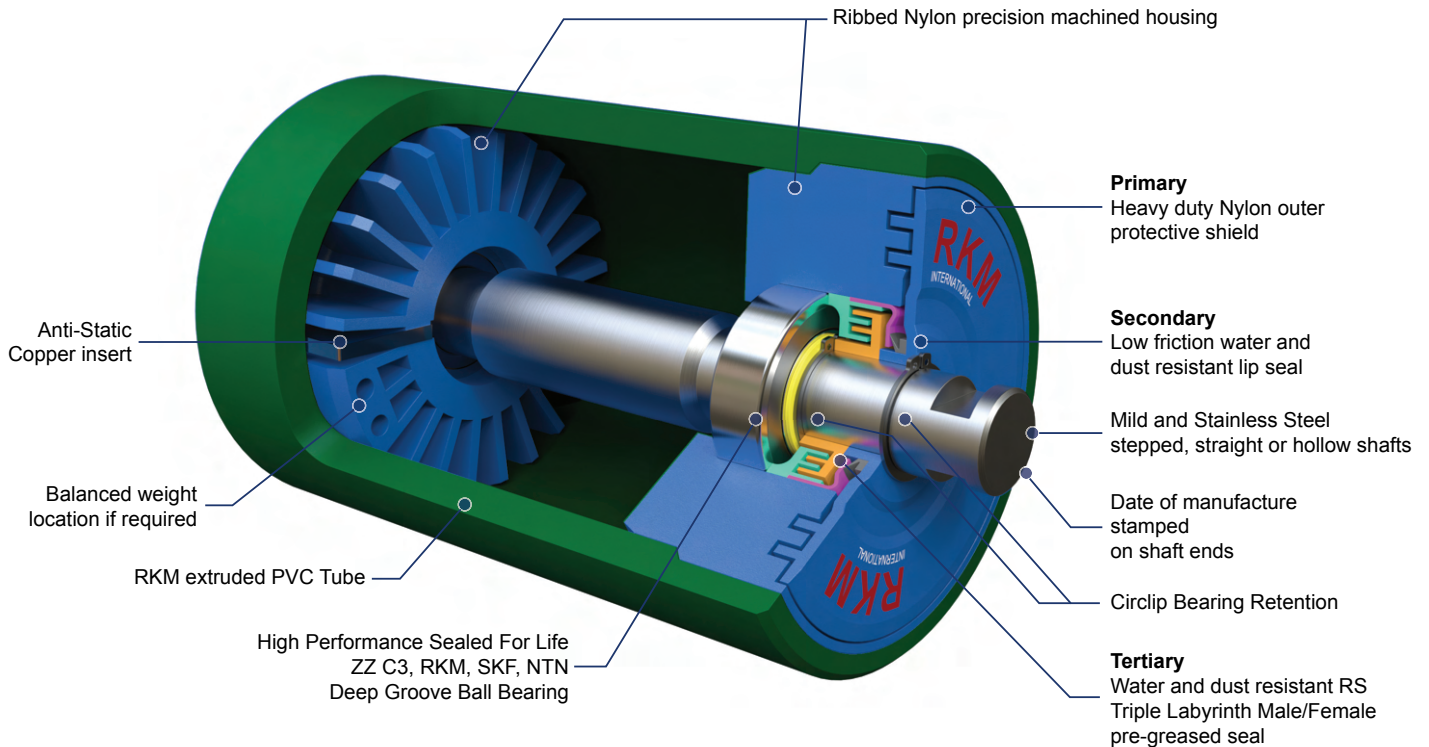
- Balanced to ISO 1940-1:2016-G40
- Minimal TIR & MIS
- Reduced vibration, noise and belt flap
- Increased bearing life
- Precision bearing alignment



## Upgrades



- Surface Protection – Galvanised or Dacromet
- Hollow Shafts
- Heavy Duty Solid Bearing Housing
- Rubber Lagging
- Stainless Steel
- Machined & Dynamically Balanced
- Name Brand Bearings
- RKM Smart Idler – Live Roller Monitoring
- Weigh Roller – Jacking Screws



## Seal Package

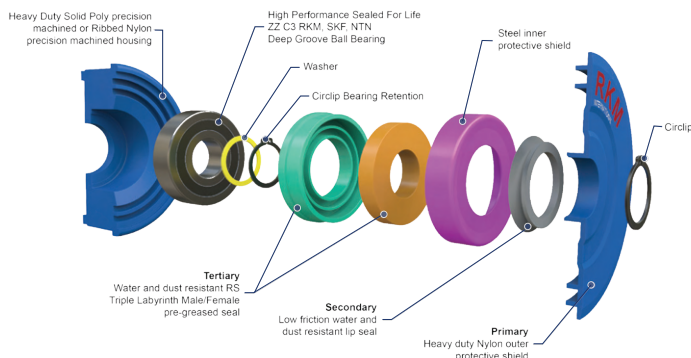


- Industry proven performance
- Large outer shield for extra rock jam protection
- 3 layers of bearing protection preventing the ingress of foreign material
- Optimal balance between sealing protection and low frictional resistance
- Water & dust resistant
- Bearing end float adjusted to meet your specifications

## Roller Assembly



- Reduced noise levels
- Excellent co-efficient of friction, prevents material build up on the roller surface
- Balanced to ISO 1940-1:2016-G40
- Minimal TIR & MIS
- Corrosion resistant
- 40% reduction in weight compared to an equivalent steel roller
- Reduced vibration and belt flap
- Belt friendly



## Upgrades



- Machined & Dynamically Balanced
- Hollow Shafts
- Heavy Duty Solid Bearing Housing
- Name Brand Bearings
- RKM Smart Idler - Live Roller Monitoring

# FEATURES AND BENEFITS



**RPM Monitoring**



**Real-Time 24/7  
Wireless Monitoring**



Gateway



Office



## **Reduced Downtime**

Accurately monitor your rollers "health" 24/7, predict failures, hence reducing downtime.



## **Reduced Damage**

Monitor your rollers in real-time alerting you before roller failure.



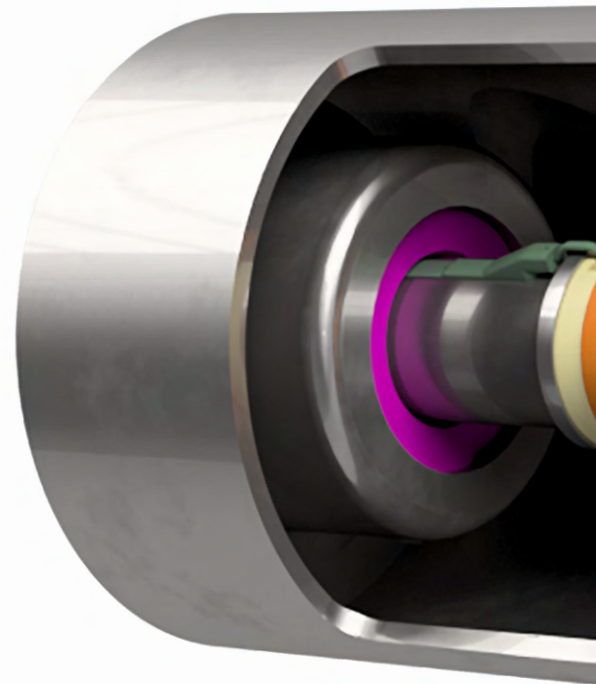
## **Simplify Maintenance**

Reduce the need for visual inspections. Eliminate bulk roller change outs and reduce site roller stock levels.



## **Improve Safety**

Roller maintenance information is gathered from the control room, hence removing personnel from the conveyor environment. Reduced risk of roller related fires.



**Smart Roller**

**in conjunction with VAYERON® Technology**



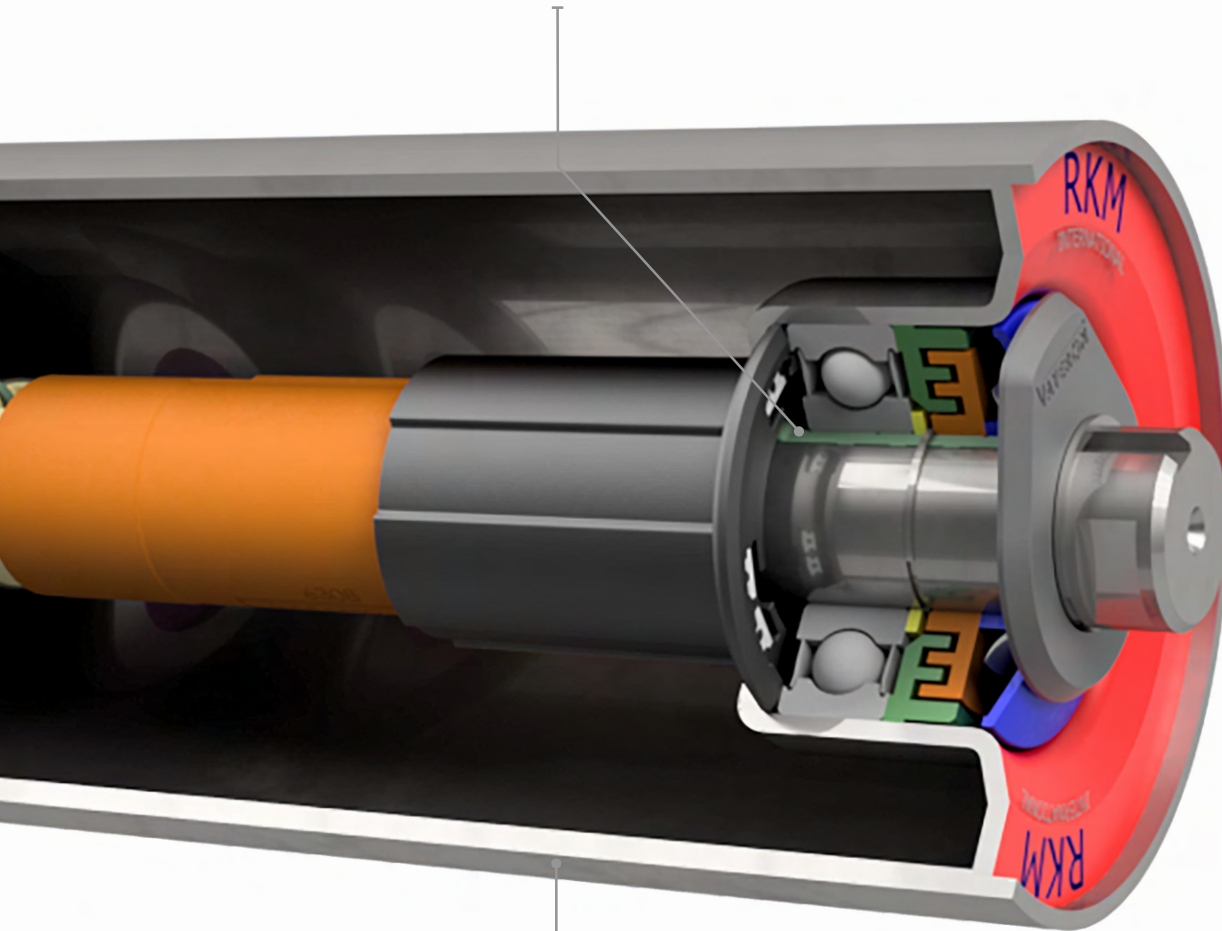
# OVERVIEW



Bearing Temperature Monitoring



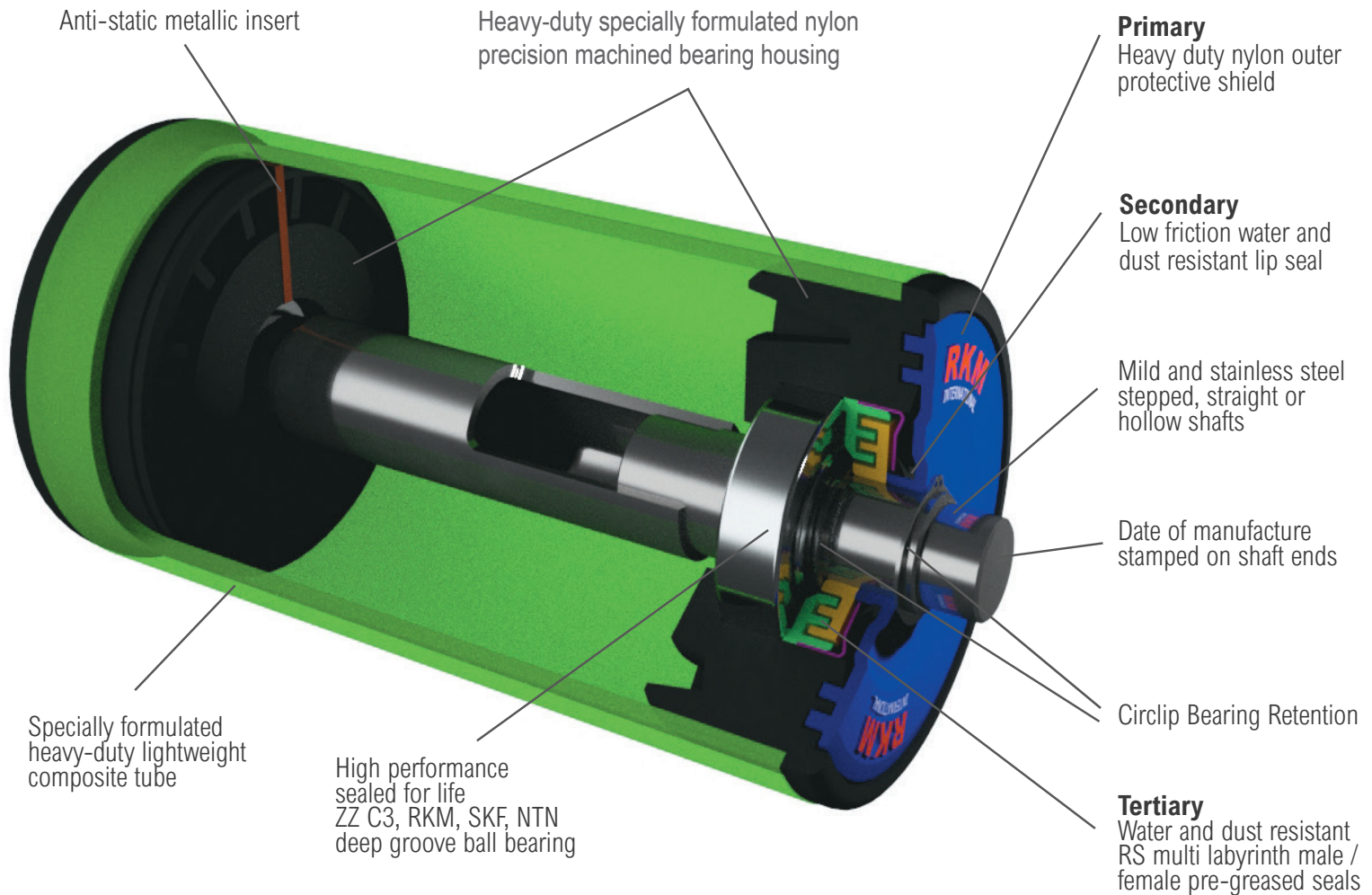
Bearing Vibration Monitoring



Shell Wear  
Detection



# RKM Heavy Duty Lightweight Composite Roller



By using a unique pull-winding process, high grade glass reinforcement and resin to bind the fibers together, it provides superior flexural strength and stiffness comparable to Steel.

This combination has been used in • Power Pole Cross arms • Boardwalks • Foot Bridges • Road Bridges • Pontoons • Jetties • Various Mine Structures • Piping, Casing & Tubing • Reinforcing (Rebar)

#### KEY FEATURES:

- Up to 50 % lighter than Steel
- Advanced wear properties
- Superior Stiffness and Flexural Strength, comparable to Steel
- Low Noise
- High Performance Sealing package
- HD Bearing Housing

The RKM Heavy Duty Light Weight Composite Roller provides low weight and less noise in comparison to the normal plain steel rollers. The specially formulated composite shell is as strong as steel but 50% lighter. We have designed into the housing our proven RS seal package along with a primary heavy-duty nylon protective outer dual labyrinth shield, which will eliminate any rock jamming & provides additional protection against the ingress of contaminants. Computerized dynamic balancing machines enable us to produce a dynamically balanced roller which meets AS3709 G16 and achieves the best possible TIR and MIS, reducing any noise generated from the belt running across the surface of the roller.

As a solution driven Idler manufacture, RKM continues to innovate products suitable for today's heavy mining applications.

# PRODUCT SUPPORT SERVICES

RKM provides a variety of support services to our customers to ensure product satisfaction is achieved from conception to end of life.

## RKM provides the following Product Support Services –

---



### ENGINEERING SUPPORT

- Tailored Engineering Solutions
  - Product Design Checks & Analysis
  - Technical Product Training & Awareness
  - Technical On-Site Support
  - Product Drawings
  - In-house testing laboratory
  - Troubleshooting & Product Improvements
- 



### SITE SUPPORT

- Total Idler Management System
    - Product Implementation Planning
    - Conveyor Audits
    - Product Database
    - Roller Tracking
      - PDS Asset Management
      - Vayeron Smart Idler
    - Data Analysis & Reporting
  - Troubleshooting & Product Improvements
  - Product Trials, Monitoring & Reporting
- 



### PRODUCT AVAILABILITY

- Product Stock Management
    - On-site
    - Australian and global warehouses
    - China Warehouse
-



## ENGINEERING SUPPORT

## Tailored Engineering Solutions

RKM has an experienced engineering team with an extensive knowledge of the materials handling industry. We can tailor an engineered solution to suit your needs. Whether it be a specific type of roller issue, a manual handling safety concern or poor access to an elevated gantry or a heavy-duty application we have the team, the commitment and the focus to deliver your solution.

## Product Design Checks & Analysis

RKM can provide complete product analysis. From our in-house custom-built design program, to our world class testing laboratory, to the use of 3rd party independent testing from TUNRA Bulk Solids, allows us to calculate, test and confirm designs before engaging in site trials.

[illegible]

**CONVEYOR IDLER SELECTION DATA & RESULTS**

CLIENT: BHP FRAMMO

PROJECT: CUMULI ROLLER TRAIL

CONVEYOR: 10000

ROLLER TYPE: TROGGLIDERS

QUOTE REF: 190221-14

DATE: 26/02/2014

REV: A

BY: STE

**NOTES:**

**Roller Tube Data**

Description	Value	Units
Centre Roller Support Mass	244	kg
Roller Face Length	537	mm
Roller Outside Diameter	192	mm
Roller Wheel Thickness not including ribs	15	mm
Roller Inside Diameter	222	mm
Roller Weight (w/ribbed load)	100	kg
Weight of Applied Load	500	kg
Number of Idlers	5	
Tube Material	Nippon (C45)	
Roller Density	7.85	kg/m <sup>3</sup>
Tube Weight	1100	kg

**Analysis Results**

Description	Value	Units
Allowable Deflection	2.57	mm
Actual Deflection	0.94	mm
Deflection after Factor	10.40	mm
Allowable Stress	0.18	MPa
Actual Stress	0.18	MPa
Actual Stress Factor	1.00	
Estimated Operating Temp	25	°C

## Technical Product Training & Awareness

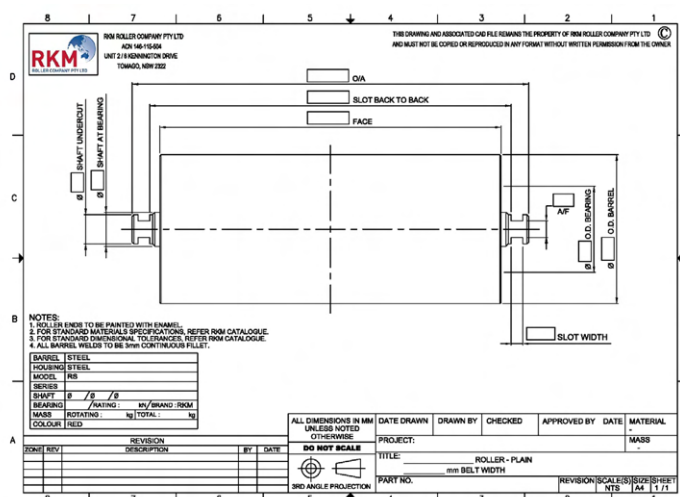
RKM can provide product training to your staff members to ensure a basic understanding of the product range supplied is achieved. This would also include issues such as correctly identifying products, key dimensions and dimensional checks, identifying and recording failure modes.

## Technical On-Site Support

RKM will provide technical engineering support for any on-site trouble shooting or product related concerns. Whether it be a tracking issue or a heavily loaded application we have the team and expertise to support you.

## Product Drawings

We have a dedicated drafting team to create custom drawings for client approval. We also have an extensive database of template drawings available for client mark-up and communications.

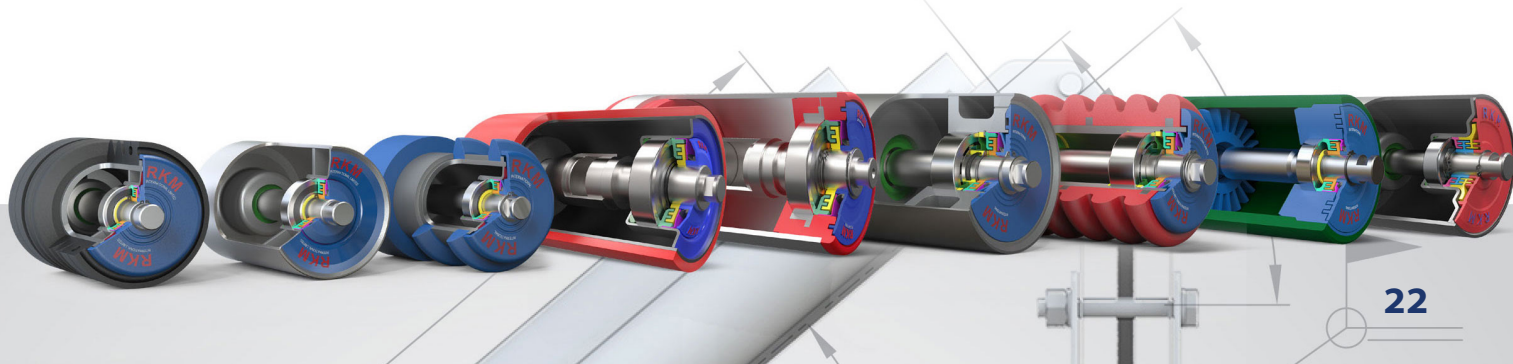


## In-house Testing Laboratory

Our world class testing laboratory allows our products to be put through rigorous testing before commencing site trials. Our R&D program utilises our lab to confirm design development before progressing the design further.

## Troubleshooting & Product Improvements

Following on from our technical site support, RKM provides remote troubleshooting via phone, email or diagrammatic solutions. This includes product improvement suggestions to reduce the likelihood of the issue occurring again. We have an extensive range of industry proven products available or we can design an appropriate solution for you.



## Total Idler Management System

The RKM Total Idler Management System is a road map designed to coordinate, document and analyse the life of a roller.

## System Overview



- **Product Implementation Planning** – What are the outcomes we want from the system? E.g reduced downtime and improved safety. Once the outcomes are defined a plan can then be formed and resources allocated.
- **Conveyor Audits** – Understanding the existing products, quantities and locations is essential to product development and improved conveyor availability.
- **Product Database** – From the audits a database is formed which allows any opportunities from rationalisation to take place. The database is also a snap shot to compare to once the system is fully implemented.

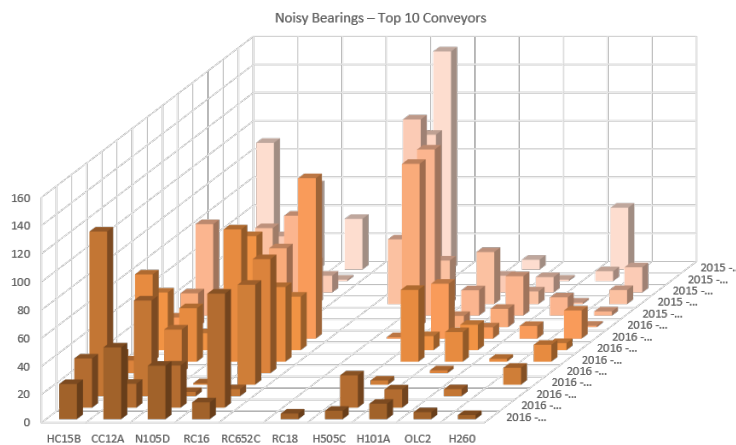
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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- **Roller Tracking** – RKM utilises two forms of roller tracking. The first being visual conveyor inspections when the conveyor is both on and off line. The inspections are entered via a tablet at the time of the inspection, into our **PDS** program which captures the data for detailed analysis. See the following pages for more information on the PDS system.

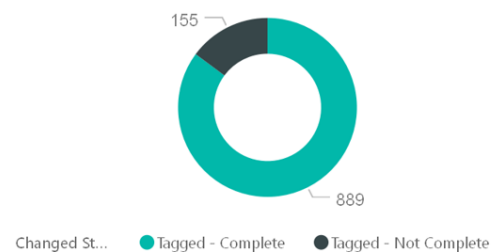
The second roller tracking method is the RKM smart roller in conjunction with the **Vayeron Technology**. This system allows for remote monitoring of the rollers critical failure modes. This information is then used to determine a rollers life expectancy and can be scheduled for an appropriate replacement date. See pages 18 and 19 for more information on the RKM smart roller in conjunction with Vayeron Technology.

# SITE SUPPORT

- **Data Analysis & Reporting** – Both the PDS and Vayeron tracking systems allow for the data collected to be analysed into useful information. Hot spots where rollers have been failing consistently compared to other nearby rollers can be identified and a possible solution formed. Scheduled roller change outs through predictive data analysis, allow for improved conveyor availability and simplified maintenance.

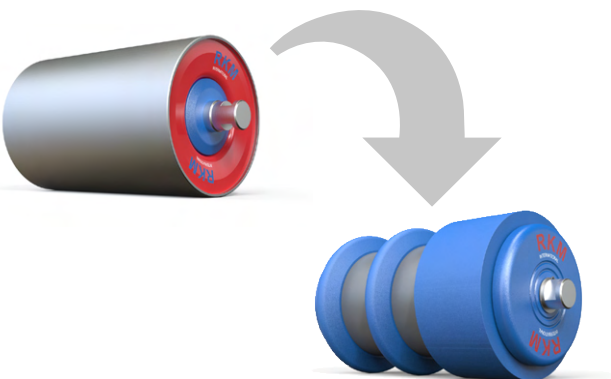


ROLLERS - COMPLETE AND NOT COMPLETE - LAST MONTH



## Trouble Shooting & Product Improvements

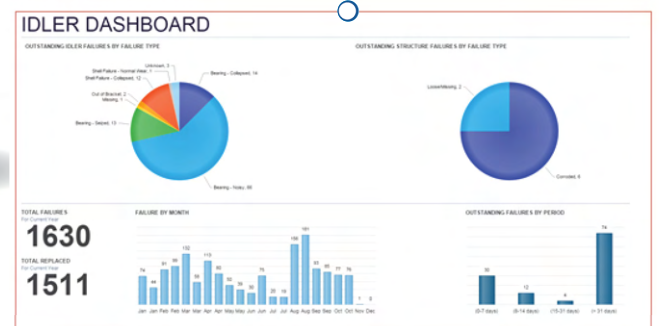
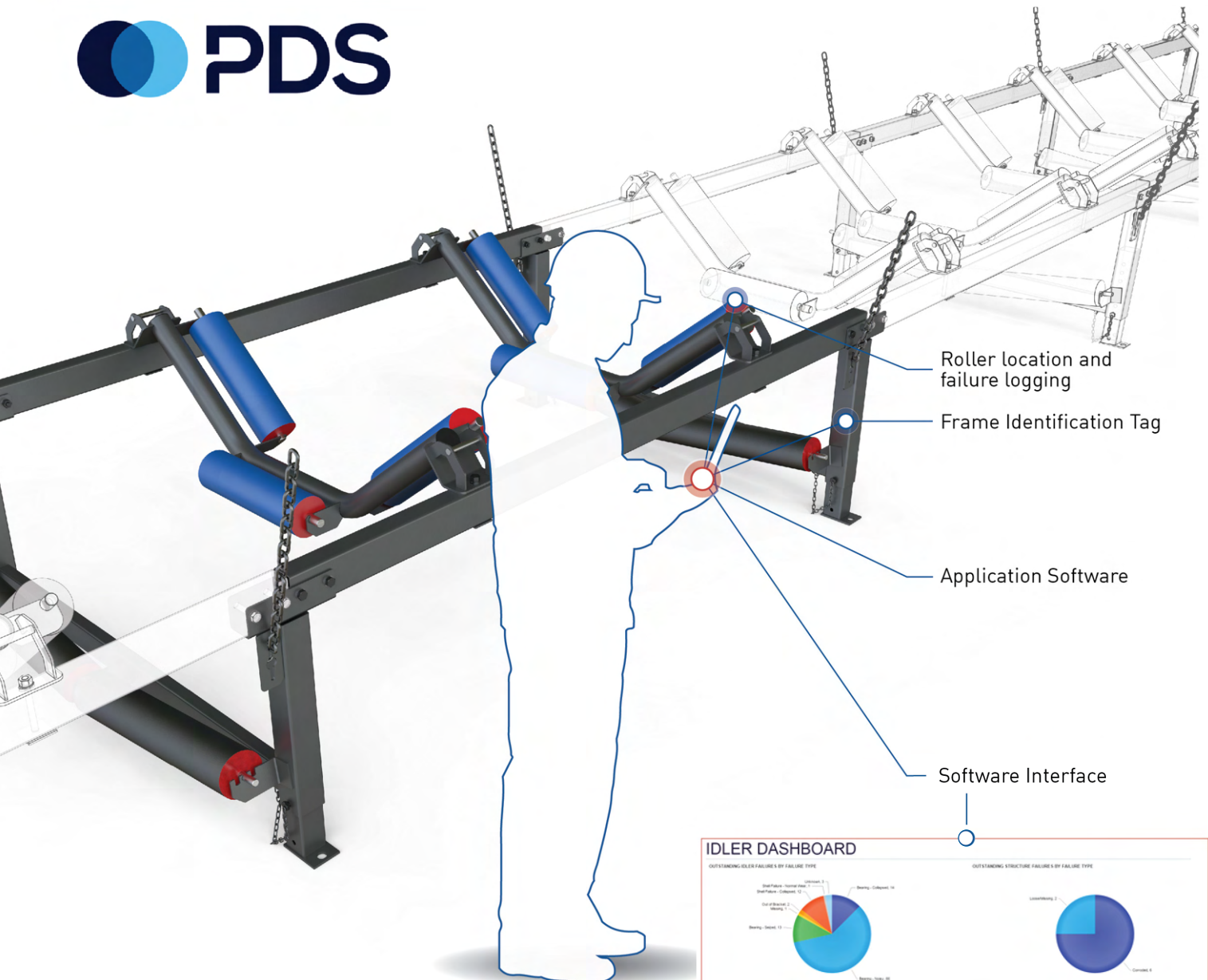
RKM are available to provide trouble shooting assistance where required. Ideally RKM will be involved with any issues when they first arise as it not only reduces the time taken to resolve but it also allows rapid and accurate product development. Although some problems are a common occurrence, others require focused product development to arrive at an effective solution.



## Product Trials, Monitoring & Reporting

All product trials are supported by RKM personnel, who will monitor and report on the progress of the trial. It is important to have a predefined objective for the trial to ensure the outcomes can be measured - successful, not successful or further development required.





## Reduces unplanned downtime

Improves inspections, planning, execution, and failure analysis.



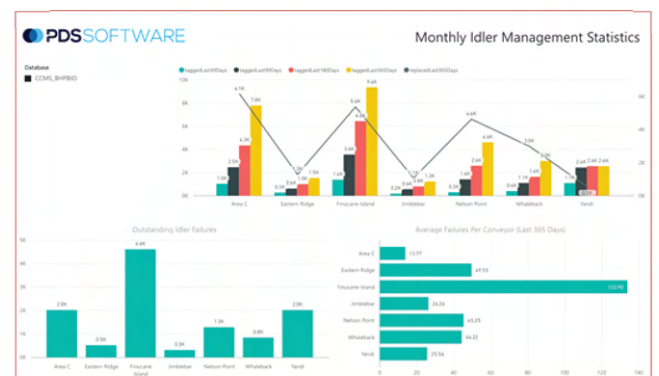
## Maximises Productivity

Data analysis enables improved prediction and management of idler failures.



## Increase Profitability

Reduced unplanned downtime = Increased Productivity and Increased Profitability.



# UNDERGROUND STRUCTURE

Our factory is flexible and responsive to your needs. We design and manufacture all types of structure. Our world-class facilities and practices ensure a quality product is consistently manufactured.

## We are the Global Leaders for



**Quality**



**Innovation**



**Manufacturing**

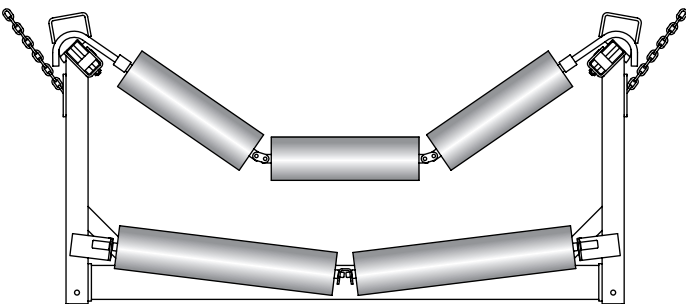
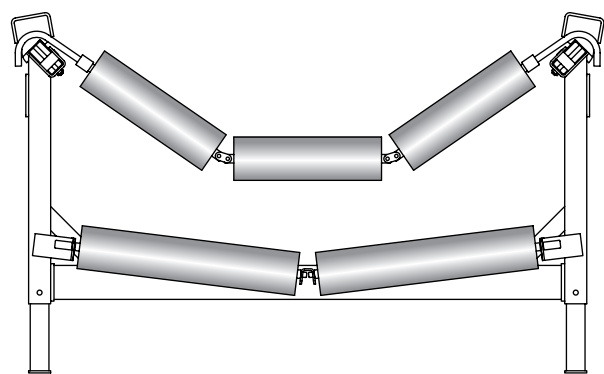


**Performance**



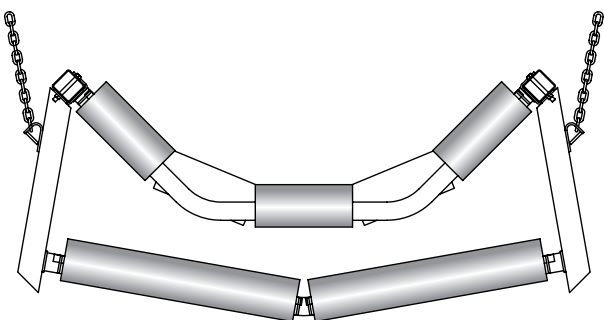
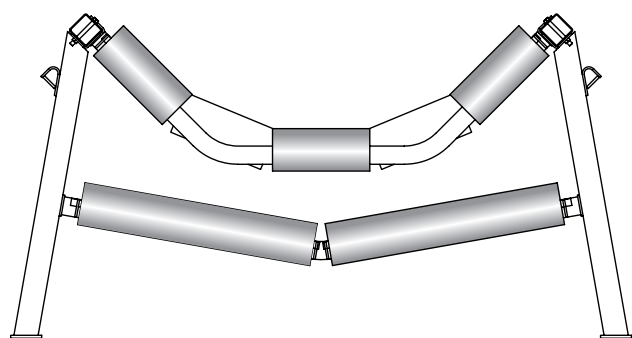
MAINGATE

Floor Mounted | Roof Mounted | 2 Roll | 3 Roll | 4 Roll | 5 Roll | Galvanised



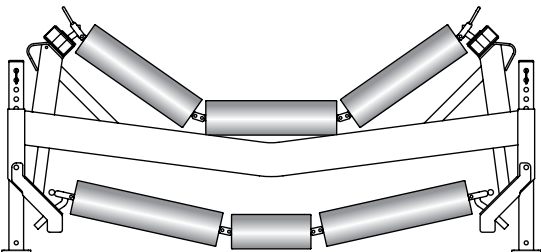
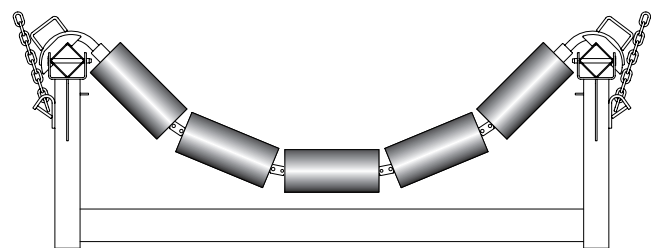
TRUNK

Floor Mounted | Roof Mounted | 2 Roll | 3 Roll | 4 Roll | 5 Roll | Galvanised



SPECIALS

Loop Take-up | Specialised | Floor Mounted | Roof Mounted  
2 Roll | 3 Roll | 4 Roll | 5 Roll | Galvanised



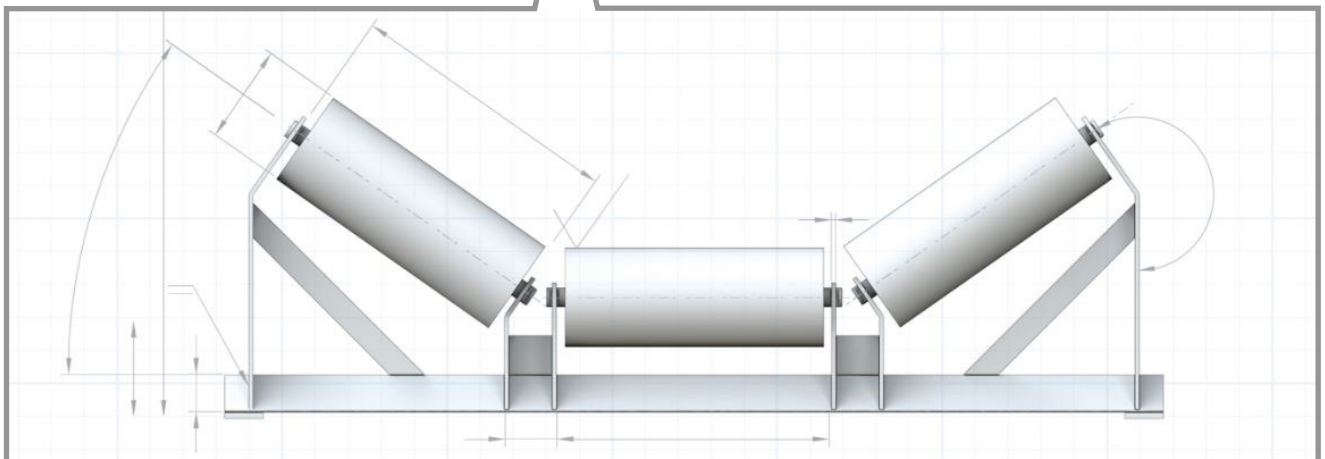
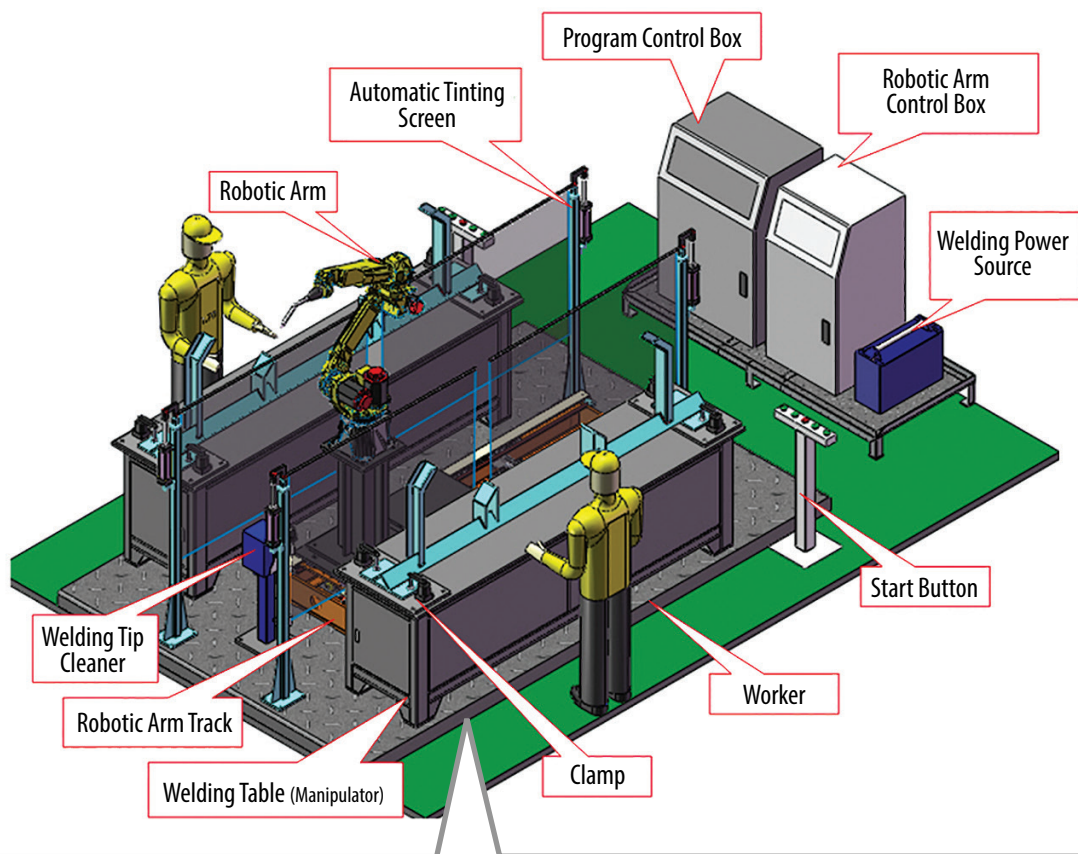


# IDLER FRAMES

We use the latest robotic welding technology as part of our commitment to ensuring a first-class weld is performed time after time. We conform to all international welding code specifications.

We use precision welding tables to assure our manufacturing tolerances are kept to the required standards, and that each jig is millimetre perfect. Our procedure also takes into account, the stress relieving process caused by the heat generated through the welding process, along with the stress caused by the hot dip galvanizing.

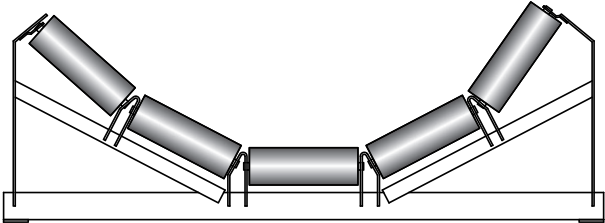
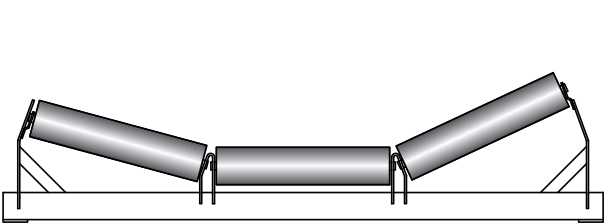
Steel is made to AS NZS-3679 or equivalent Asian standard. Jig welding of the base frames ensures slotted mounting brackets are accurately aligned. All frames and brackets are hot dip galvanised to AS NZS-4680, which gives effective resistance to a wide range of surface and underground environments.



# IDLER FRAME VARIATIONS

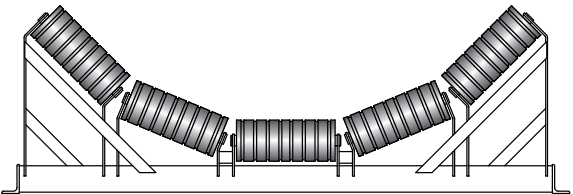
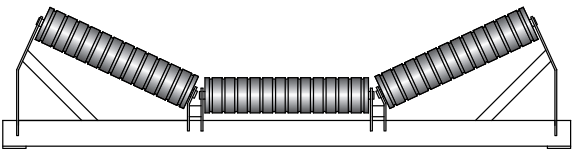
## TRANSITION

Inline | Offset | Angle Transom | Tubular Transom | 2 Roll | 3 Roll | 4 Roll  
5 Roll | 6 Roll | 10 Roll | Retractable | Galvanised | Stainless Steel



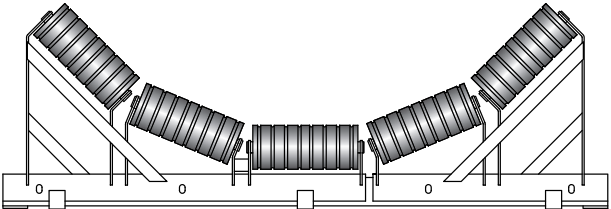
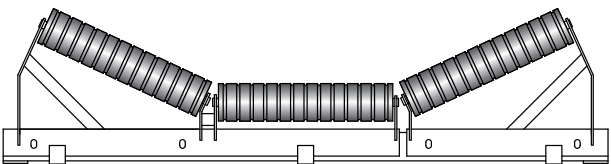
## IMPACT

Inline | Offset | Angle Transom | Tubular Transom | 2 Roll | 3 Roll | 4 Roll  
5 Roll | Galvanised | Stainless Steel



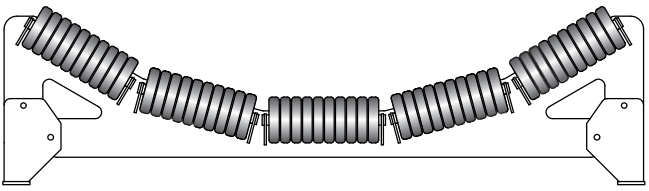
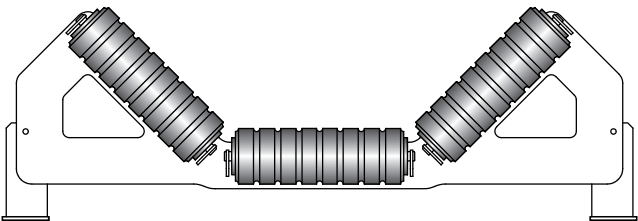
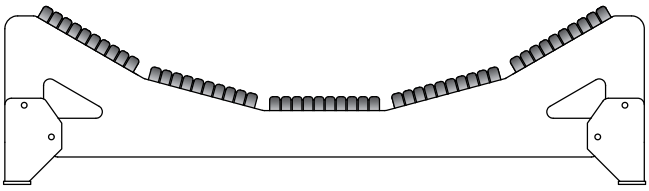
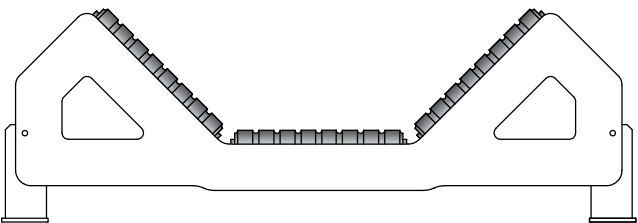
## RETRACTABLE IMPACT

Inline | Offset | Angle Transom | 2 Roll | 3 Roll | 4 Roll | 5 Roll  
Galvanised | Stainless Steel



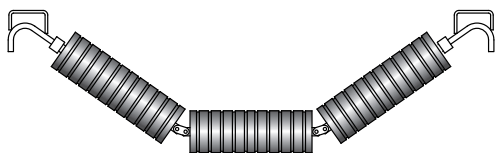
## DROP DOWN IMPACT

Inline | Offset | 3 Roll | 4 Roll | 5 Roll | 6 Roll | 10 Roll  
Galvanised | Stainless Steel



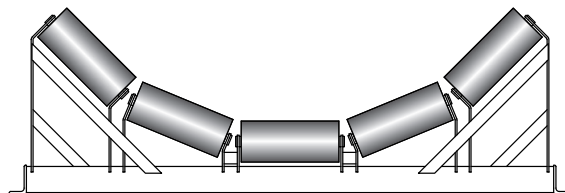
## SUSPENDED IMPACT

3 Roll | 4 Roll | 5 Roll | 6 Roll | Handles | Dampeners  
Galvanised | Stainless Steel



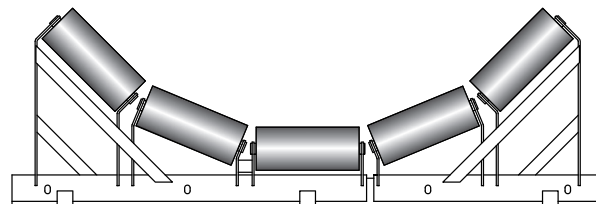
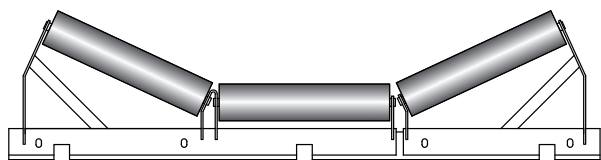
## TROUGH

Inline | Offset | Angle Transom | Tubular Transom | 2 Roll | 3 Roll | 4 Roll  
5 Roll | Galvanised | Stainless Steel



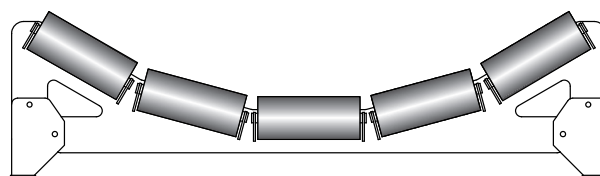
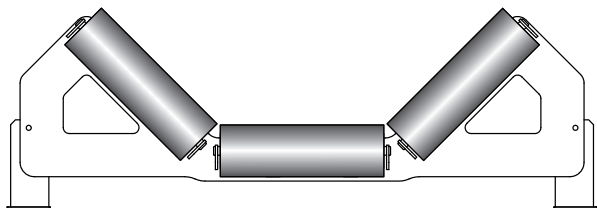
## RETRACTABLE TROUGH

Inline | Offset | Angle Transom | 2 Roll | 3 Roll | 4 Roll | 5 Roll  
Galvanised | Stainless Steel



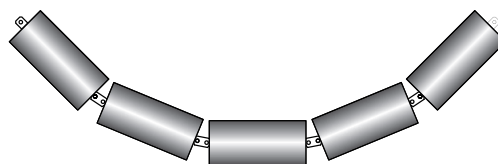
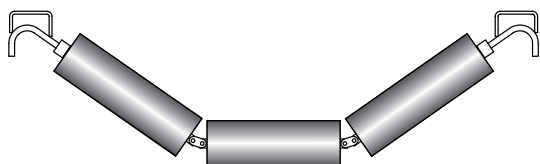
## DROP DOWN TROUGH

Inline | Offset | 3 Roll | 4 Roll | 5 Roll | 6 Roll | 10 Roll  
Galvanised | Stainless Steel



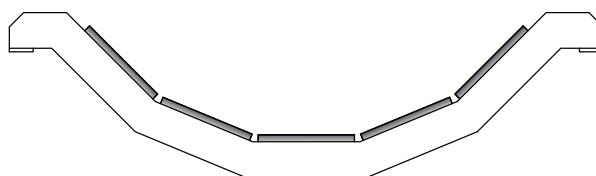
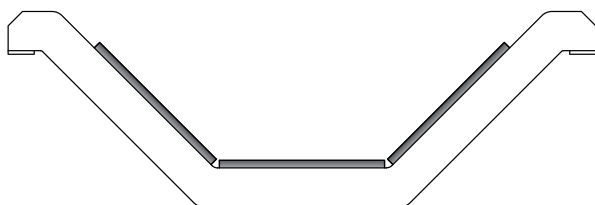
## SUSPENDED TROUGH

3 Roll | 4 Roll | 5 Roll | 6 Roll | Handles | Galvanised | Stainless Steel



## RIGID SUSPENDED TROUGH

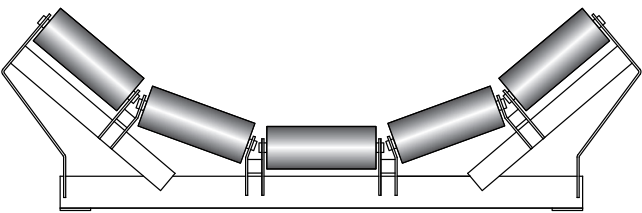
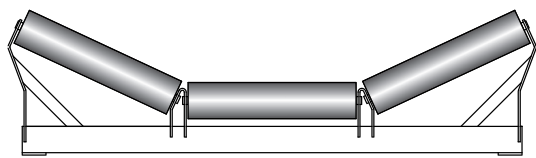
Inline | 3 Roll | 4 Roll | 5 Roll | Galvanised | Stainless Steel





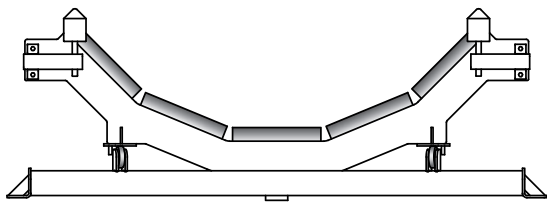
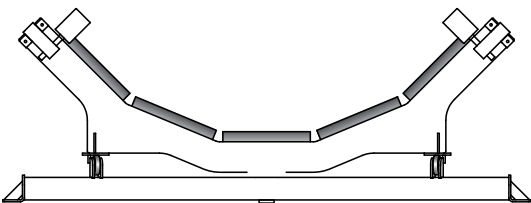
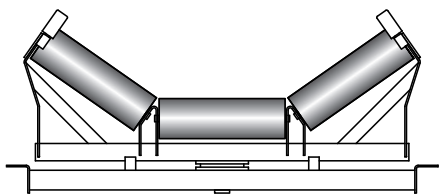
**WEIGH TROUGH**

Inline | 3 Roll | 4 Roll | 5 Roll | Galvanised | Stainless Steel



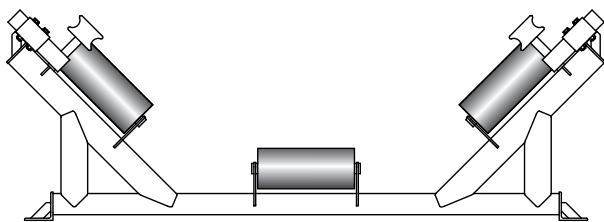
**TROUGH TRAINER – PIVOTING**

Inline | Offset | Angle Transom | Tubular Transom | Heavy Duty Guide Rollers | 3 Roll | 4 Roll | 5 Roll | Galvanised | Stainless Steel



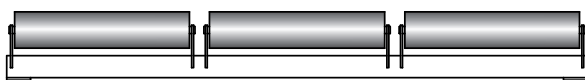
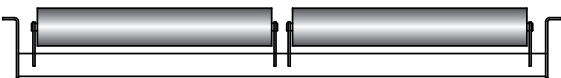
**TROUGH TRAINER – FIXED**

Inline | Offset | Angle Transom | Tubular Transom | Heavy Duty Guide Rollers | 3 Roll | 4 Roll | 5 Roll | Galvanised | Stainless Steel



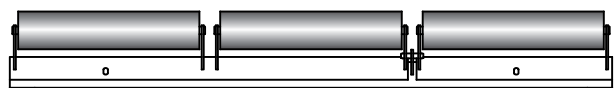
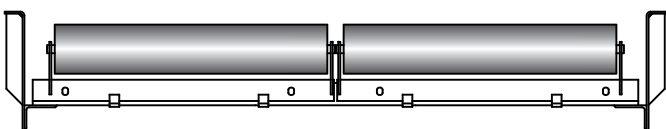
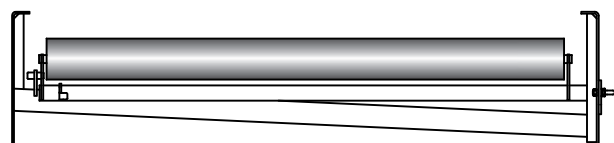
**FLAT RETURNS**

Inline | Offset | Angle Transom | Tubular Transom | 1 Roll | 2 Roll | 3 Roll | 4 Roll | Galvanised | Stainless Steel



**FLAT RETURN RETRACTABLES**

Inline | Offset | Angle Transom | 1 Roll | 2 Roll | 3 Roll | 4 Roll | Galvanised | Stainless Steel | Dropdown



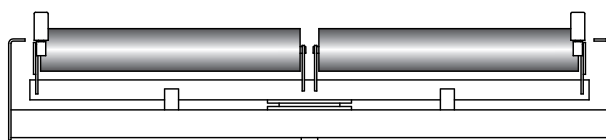
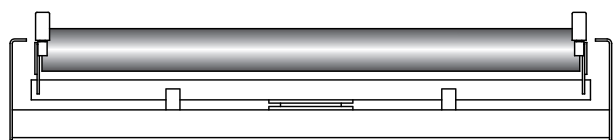
## FLAT RETURN SUSPENDED

1 Roll | Handles | Galvanised | Stainless Steel



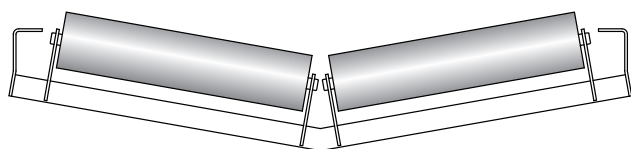
## FLAT RETURN TRAINER

Inline | Offset | Angle Transom | Tubular Transom | Heavy Duty  
Guide Rollers | 1 Roll | 2 Roll | 3 Roll | 4 Roll | Galvanised | Stainless Steel



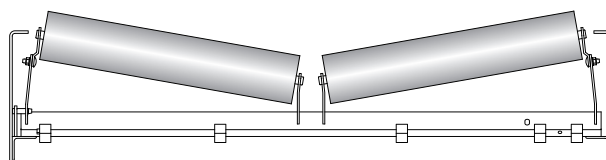
## VEE RETURN

Inline | Offset | Angle Transom | Tubular Transom  
2 Roll | 4 Roll | Galvanised | Stainless Steel



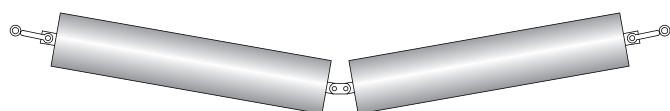
## VEE RETURN RETRACTABLE

Inline | Offset | Angle Transom | 2 Roll | 4 Roll  
Galvanised | Stainless Steel



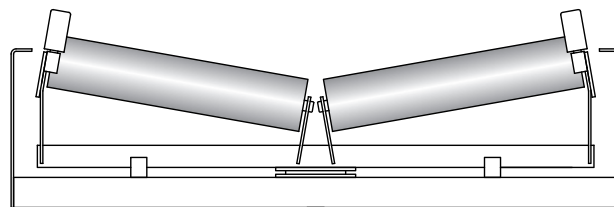
## VEE RETURN SUSPENDED

2 Roll | 4 Roll | Handles | Galvanised | Stainless Steel



## VEE RETURN TRAINER

Inline | Offset | Angle Transom | Tubular Transom  
Heavy Duty | Guide Rollers | 2 Roll | 4 Roll  
Galvanised | Stainless Steel



## INVERTED VEE RETURN TRAINER

Inline | Offset | Angle Transom | Tubular Transom  
2 Roll | 4 Roll | Galvanised | Stainless Steel



## TROUGH RETURN

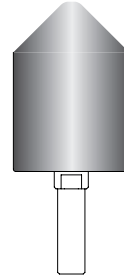
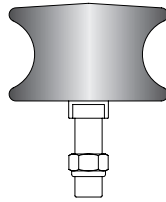
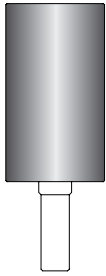
Inline | Offset | Angle Transom | Tubular Transom  
3 Roll | Retractable | Suspended | Galvanised | Stainless Steel



# ACCESSORIES

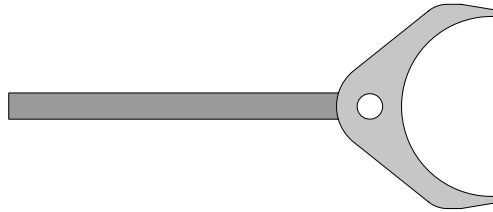
## GUIDE ROLLERS

STRAIGHT SHAFT | THREADED SHAFT | HEAVY DUTY | SPECIALISED



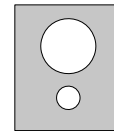
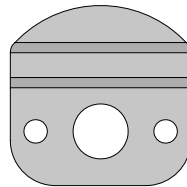
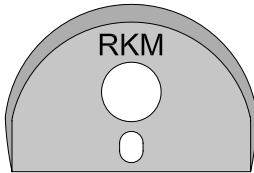
## ROLLER WEAR MEASUREMENT

DIA 114 | DIA 127 | DIA 152 | DIA 178 | SPECIALISED



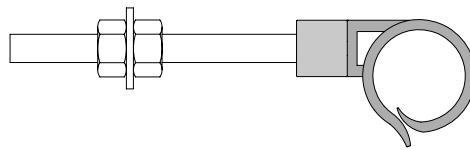
## STONE GUARDS & KEEPER PLATES

STANDARD | HEAVY DUTY | SPECIALISED



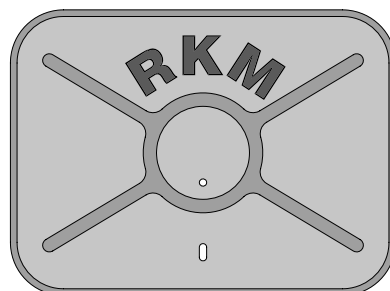
## LANYARD WIRE SUPPORT

STANDARD | SPECIALISED



## WIND GUARDS

LARGE | SMALL | SPECIALISED





# PRODUCT AVAILABILITY

## Stock Management

### • On-Site Stocking

- o RKM can provide consignment stock on-site, which is monitored and maintained by RKM personnel. All information collected is shared with the customer and products are only invoiced once removed from the con-stock area. RKM will assist with organising the appropriate storage and identification for the various products.
- o RKM can provide vendor managed stock to site, whereby the customer purchases and manages their own stock on-site. RKM will provide assistance storage and identification as required.

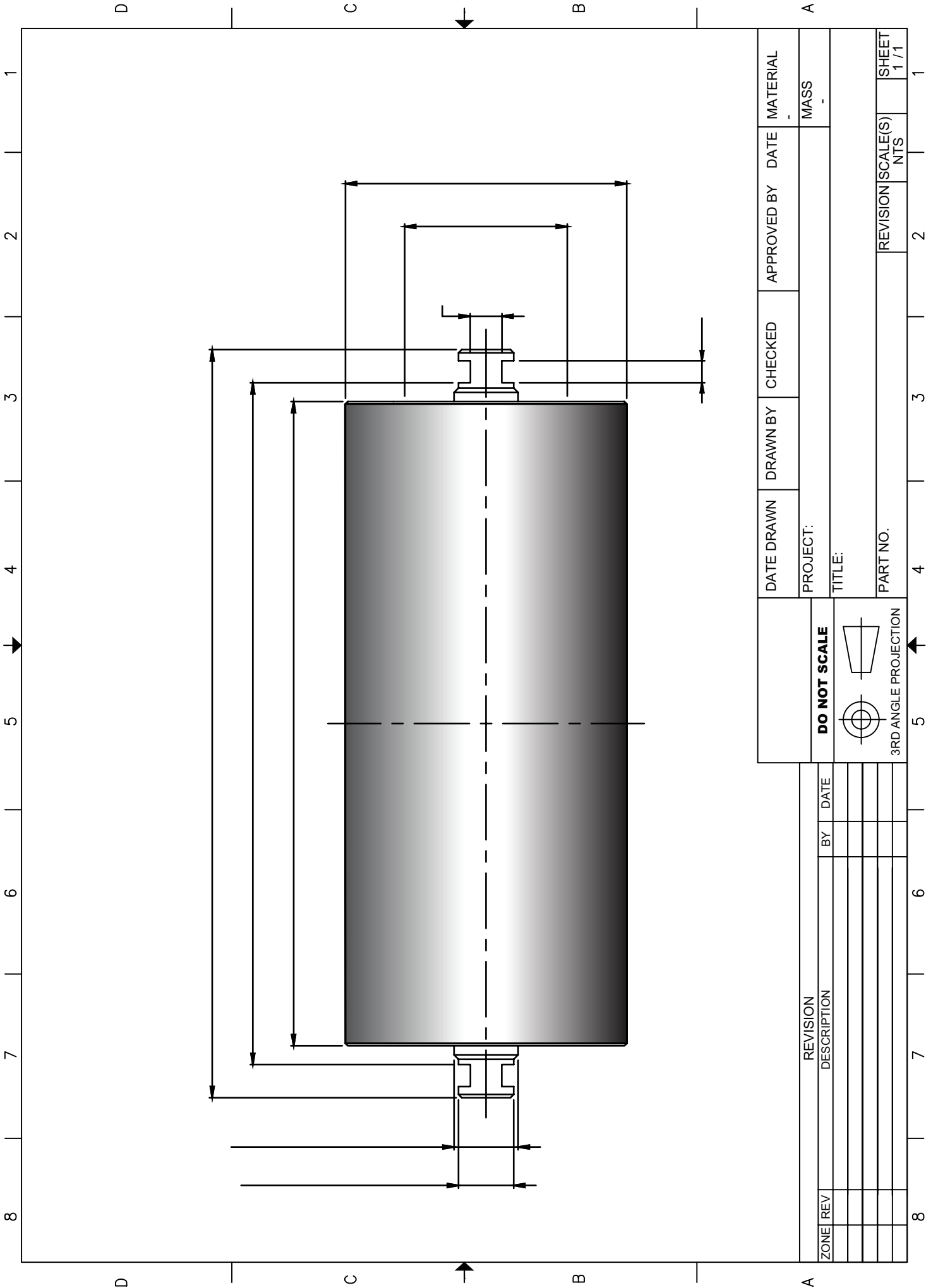
### • Australian and Global Warehouses

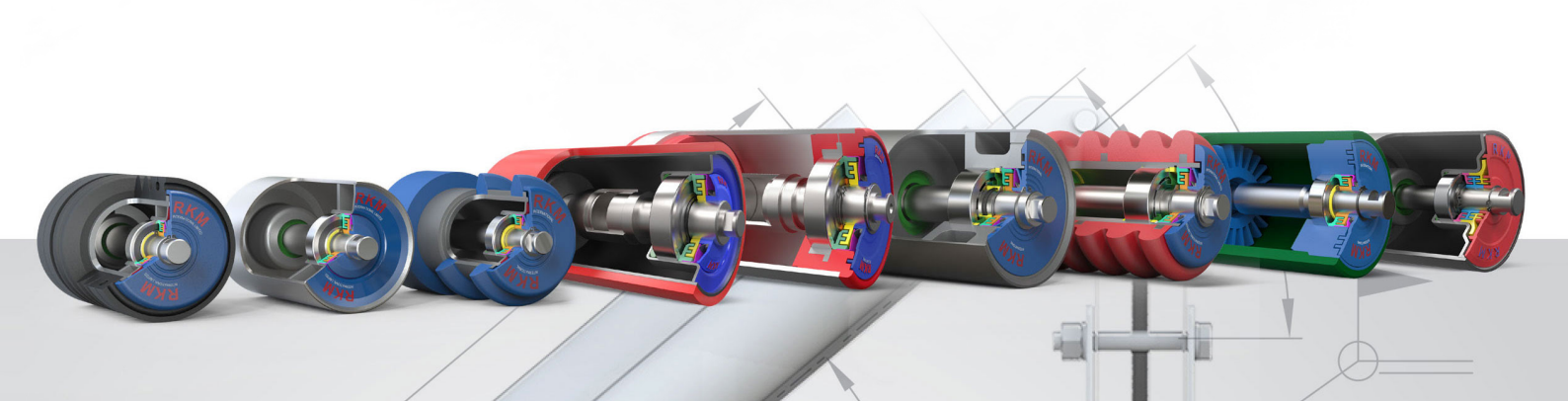
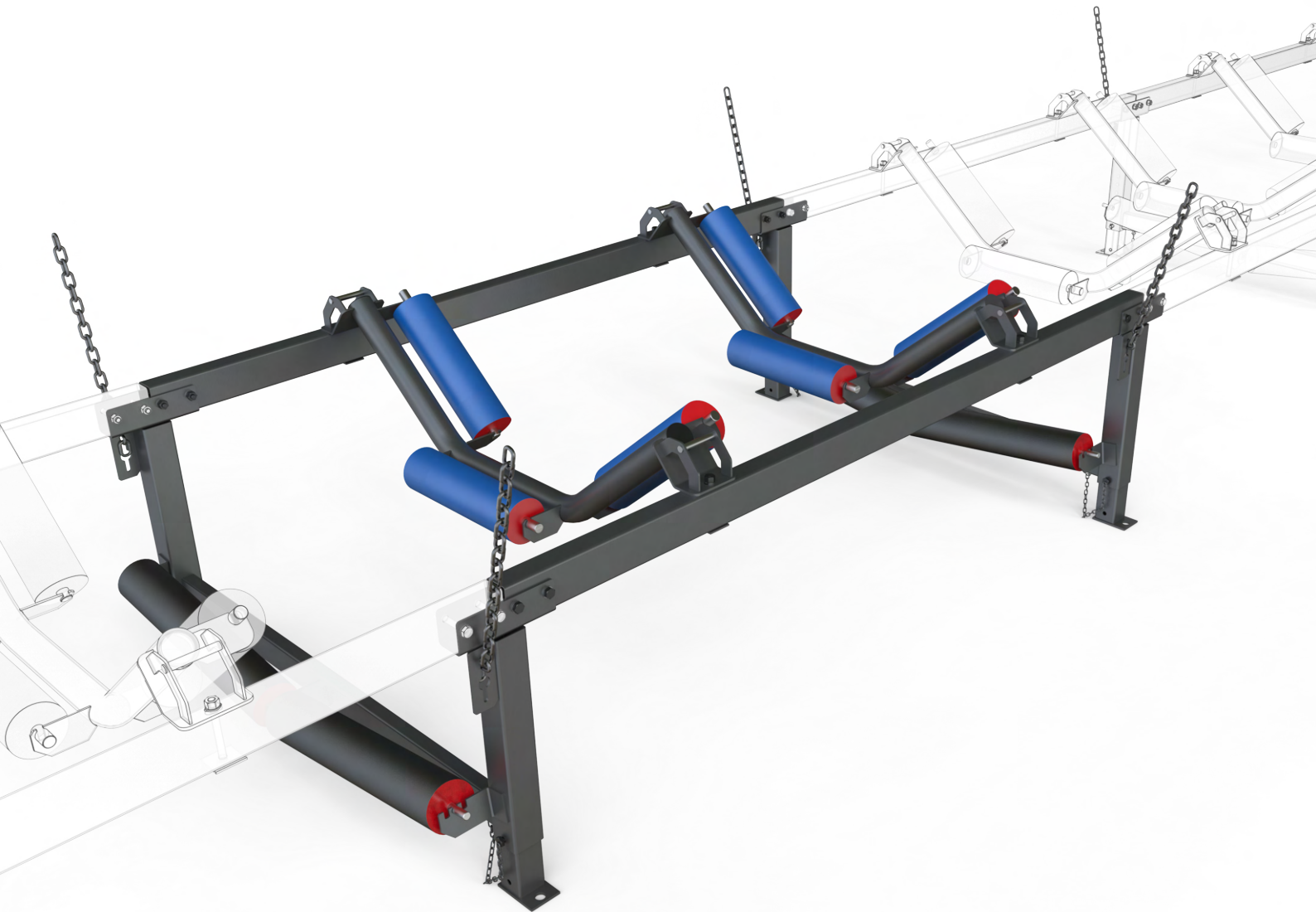
- o RKM has access to numerous warehouses located throughout the globe, where customer replenishment stock can be held.

### • China Warehouse

- o As well as global warehouses RKM can further reduce replenishment leads times with stocking products at our China warehouse. This removes manufacturing lead times and just leaves transportation lead times.







[www.rkmrollers.com.au](http://www.rkmrollers.com.au)



[sales@rkmrollers.com.au](mailto:sales@rkmrollers.com.au)



WA - 08 6558 1287  
NSW - 02 4964 9846



### Perth Manufacturing Facility

Unit 5, 5 Orchard Road  
Maddington WA 6109  
Australia



### Manufacturing Facility

No 1 Building,  
No. 4 Fazhan Road,  
Mowu Village  
Qishi Town, Dongguan City  
Guangdong China