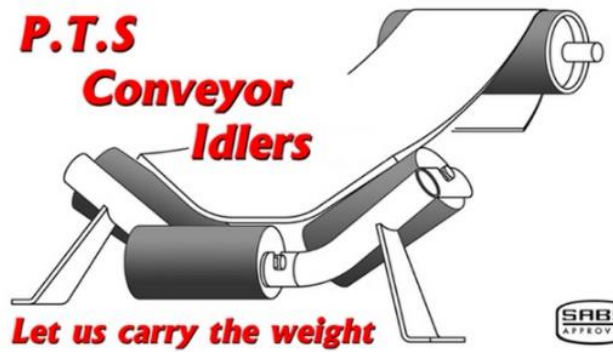


C A T A L O G U E

P.T.S
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Idlers

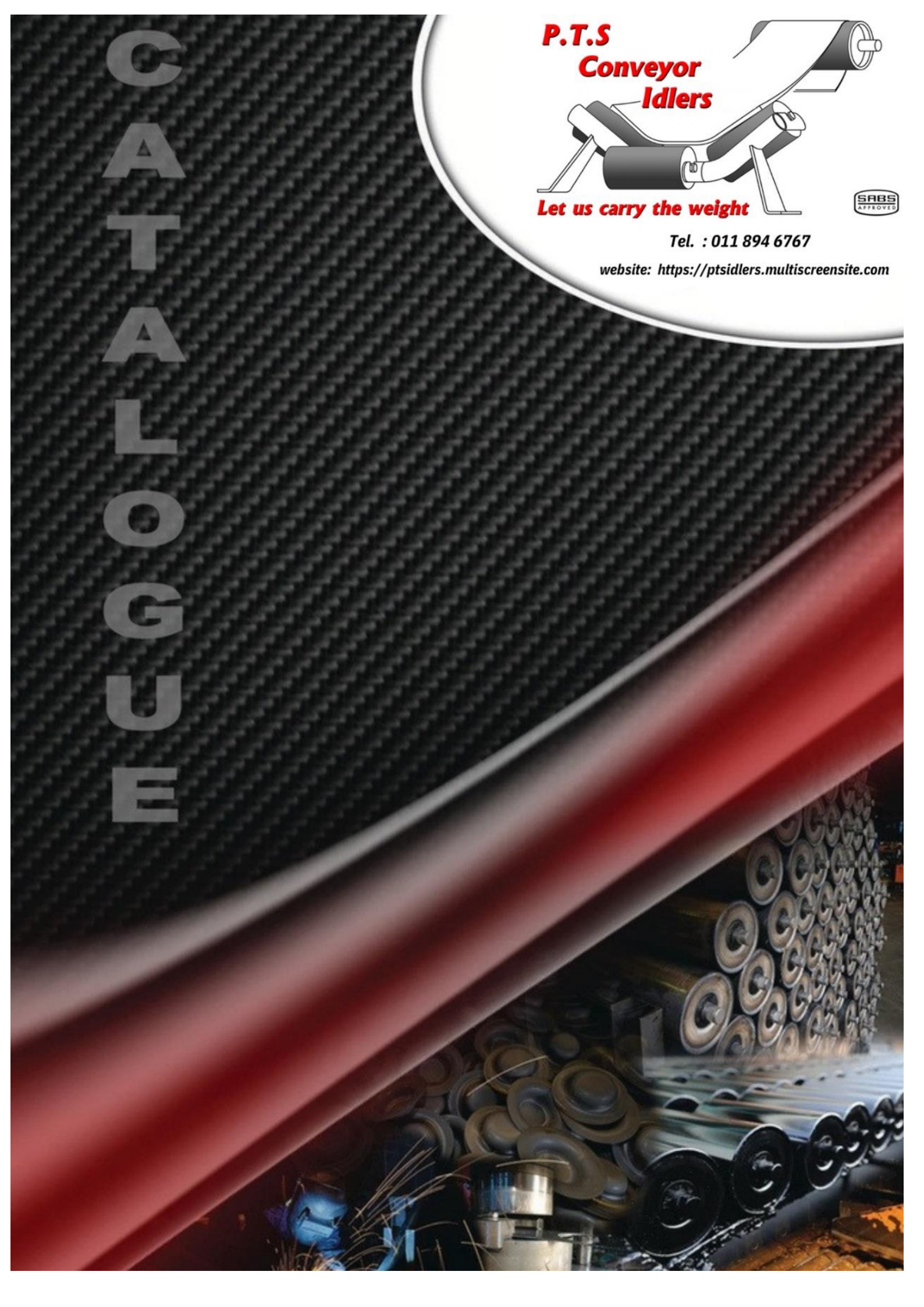


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Tel. : 011 894 6767

website: <https://ptsidlers.multiscreensite.com>





***P.T.S Conveyor Idlers Pty [Ltd] is committed to
benefiting their valued clients through:***

- An unwavering commitment to supply a quality product and value added service.*
- Technical expertise and advisory services.*
- Reliability and consistency of supply.*
- Product development.*
- Customized solutions and demand planning.*
- Excellent customer service.*

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QUALITY POLICY

IT IS THE POLICY AND OBJECTIVE OF PTS CONVEYOR IDLERS Pty Ltd TO MAINTAIN AN EFFECTIVE QUALITY MANAGEMENT SYSTEM BASED ON SABS ISO 9001.

THE POLICY OF PTS CONVEYOR IDLERS Pty Ltd IS TO PROVIDE THEIR CUSTOMERS WITH PRODUCTS CONFIRMING TO THE REQUIRED QUALITY, AND MAINTAIN BEST DELIVERY, SERVICE TO MEET THEIR SPECIFICATION REQUIREMENTS.

THE MANagements PHILOSOPHY IS THAT QUALITY IS OF THE UTMOST IMPORTANCE AND THUS, I, AND ALL EMPLOYEES ARE HEREBY COMMITTED TO PRODUCING QUALITY PRODUCTS, AND TO OPERATE

IN ACCORDANCE WITH THE P.T.S. CONVEYOR IDLERS Pty Ltd QUALITY MANAGEMENT SYSTEM AS DEFINED IN THE QUALITY POLICY AND QUALITY PROCEDURES MANUAL.

SABS

SANS 1313 - 3 : 2022

SABS

SANS 1313 - 3 : 2022

**C M A
MEMBER**

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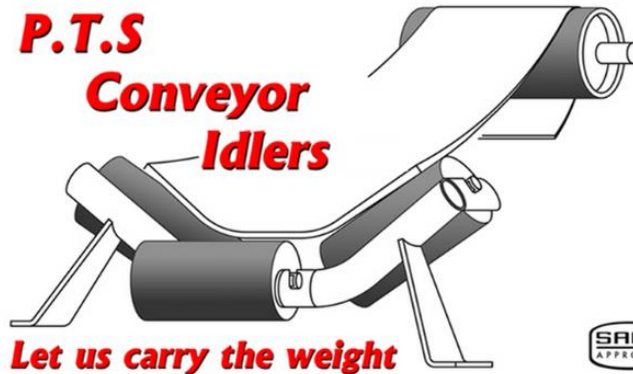
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CONVEYOR BELT - TROUBLESHOOTING

Complaint	Cause in Order of Probable Occurrence					
	1	2	3	4	5	6
Belt runs off at tail pulley	7	15	14	17	21	20
Entire belt runs off at all points of the line	26	17	15	21	4	16
One belt section runs off at all points of the line	2	11	1	4	15	22
Belt runs off at head pulley	15	22	21	16	19	-
Belt slip	19	7	14	22	26	-
Belt slip on start-up	19	7	22	10	-	-
Excessive belt stretch	13	21	6	9	8	-
Belt breaks at or behind fasteners, fasteners tear loose	2	23	13	22	20	10
Vulcanized splice separation	13	23	10	20	2	9
Excessive wear, including rips, gouges, ruptures and tears	12	25	17	21	8	5
Excessive bottom cover wear	21	14	5	19	20	22
Excessive edge wear, broken edges	26	4	17	8	1	21
Belt hardens or cracks	8	23	22	18	-	-
Covers become checked or brittle	8	18	-	-	-	-
Longitudinal grooving or cracking of top cover	27	14	21	12	-	-
Longitudinal grooving or cracking of bottom cover	14	21	22	20	-	-
Fabric decay, carcass cracks, ruptures, gouges (soft spots in belt)	12	20	5	10	8	24
Ply separation	13	23	11	8	3	-

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CONVEYOR BELT - TROUBLESHOOTING

- 1.) **BELT BOWED** –
*Avoid telescopic belt rolls or storing them in damp locations.
A new belt should straighten
- 2.) **BELT IMPROPERLY SPLICED OR WRONG FASTENERS** -
*Use correct fasteners. Retighten after running for a short while.
If improperly spliced, remove belt splice and make new splice.
Set up regular inspection schedules.
- 3.) **BELT SPEED TO FAST** – *Reduce belt speed*
- 4.) **BELT STRAINED ON ONE SIDE** –
Allow time for new belt to “break in”. If belt does not break in properly or is not new, remove strained section and splice in a new piece.
- 5.) **BREAKER STRIP MISSING OR INADEQUATE** –
When it is lost, install belt with proper breaker strip.
- 6.) **COUNTERWEIGHT TO HEAVY** –
*Recalculate weight require and adjust counterweight accordingly. * Reduce take-up tension to point of slip, then tighten slightly.*
- 7.) **COUNTERWEIGHT TO LIGHT** –
Recalculate weight required and adjust counterweight or screw take-up accordingly.
- 8.) **DAMAGED BY:**
ABBRASIVES, ACID, CHEMICALS, HEAT, MILDEW, OIL –
Use belt designed for specific conditions
- 9.) **DIFFERENTIAL SPEED WRONG ON DUAL PULLEYS** -
*Make necessary adjustment.**
- 10.) **DRIVE UNDERBELTED** –
*Recalculate maximum belt tensions and select correct belt.
If line is over-extended, consider using two-flight system with transfer point. If carcass is not rigid enough for load, install belt with proper flexibility when service is lost.*
- 11.) **EDGE WORN OR BROKEN** –
Repair belt edge. Remove badly worn out, out-of-square section and splice in a new piece.
- 12.) **EXCESSIVE IMPACT OF MATERIAL ON BELT OR FASTENER** –
Use correctly designed chutes and baffles. Make vulcanized splices. Install loading idlers. Where material is trapped under skirts, adjust skirt boards to minimum clearance or install cushioning idlers to hold belt against skirts.
- 13.) **EXCESSIVE TENSION** – *Recalculate and adjust tension. Use vulcanized splice within recommended limits.*
- 14.) **FROZEN IDLERS** – *Free idlers.
Lubricate. Improve*
- 15.) **IDLERS OR PULLEYS OUT OF SQUARE WITH CENTRE LINE OF CONVEYOR** –
Realign, Install limit
- 16.) **IDLERS IMPROPERLY PLACED** –
Relocate idler or insert additional idlers spaced to support belt.
- 17.) **IMPROPER LOADING, SPILLAGE** –
Feed should be direction of belt travel and at belt speed, centered on skirt boards.
- 18.) **IMPROPER STORAGE OR HANDLING** –
Refer to belting suppliers for storage and handling tips.
- 19.) **INSUFFICIENT TRACTION BETWEEN BELT & PULLEY** –
Increase wrap with snap pulleys. Lag drive pulley. In wet conditions, use grooved lagging. Install correct cleaning devices for safety.
- 20.) **MATERIAL BETWEEN BELT AND PULLEY** –
Use Skirt boards properly. Remove accumulation. Improve maintenance.
- 21.) **MATERIAL BUILD UP** –
Remove accumulation. Install cleaning devices, scrapers, and “V” decking. Improve housekeeping.
- 22.) **PULLEY LAGGING WORN** –
Replace worn pulley lagging. Use grooved lagging for wet conditions. Tighten loose and protruding bolts.
- 23.) **PULLEY TOO SMALL** – *Use larger diameter pulleys*
- 24.) **RADIUS OF CONVEX VERTICAL CURVE TOO SMALL** –
Increase radius by vertical realignment of idlers to prevent excessive edge tension.
- 25.) **RELATIVE LOADING VELOCITY TOO HIGH OR TOO LOW** –
*Adjust chutes or correct belt speed.
Consider use of loading idlers.*
- 26.) **SIDE LOADING** –
*Load in direction of belt travel,
In center of conveyor.*
- 27.) **SKIRTS IMPROPERLY PLACED** –
Install skirt boards so that they do not rub against belt.

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STANDARD IDLER DIAGRAM

HIGH PRECISION MULTI STAGE PRESSED ANNULAR LIP BEARING HOUSING FOR CONCENTRICITY TIGHT T.I.R. UNIFORM THICKNESS MAINTAINED DURING PRESS STAGES.
MATL: DD14

DIA 127 x 3,8 OR 4,5 WALL CERTIFIED CONVEYOR TUBE TO S.A.N.S 657 /3 : 2005

25mm DIA CLOSED TOLERANCE SOLID BRIGHT STEEL DRAWN AND REELED TO BEARING FITMENT TOLERANCES.
MATL: BS 970 PART 1-070M20 EN 3B)

32 mm SUPPORT POINT DISTANCE FOR BENDING DEFLECTION CALCULATIONS

FLOOD LINE AT 35 DEG

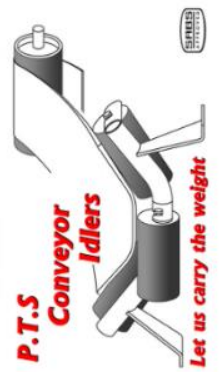
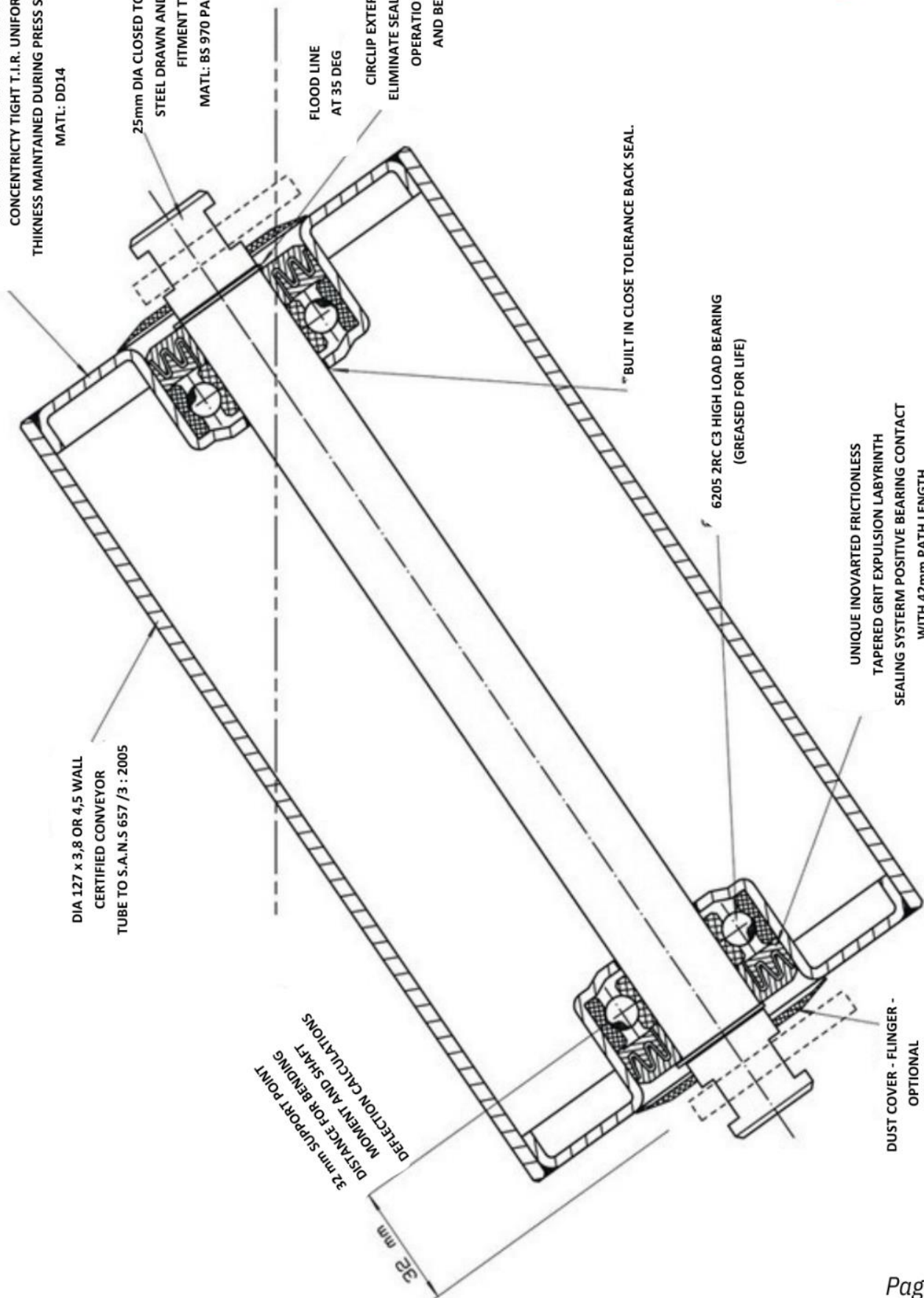
CIRCLIP EXTERNALLY POSITIONED TO ELIMINATE SEAL DISPLACEMENT DURING OPERATION - MAINTAINS SEAL AND BEARING CONTACT.

BUILT IN CLOSE TOLERANCE BACK SEAL.

6205 2RC C3 HIGH LOAD BEARING (GREASED FOR LIFE)

UNIQUE INOVARTED FRICTIONLESS TAPERED GRIT EXPULSION LABYRINTH SEALING SYSTEM POSITIVE BEARING CONTACT WITH 42mm PATH LENGTH

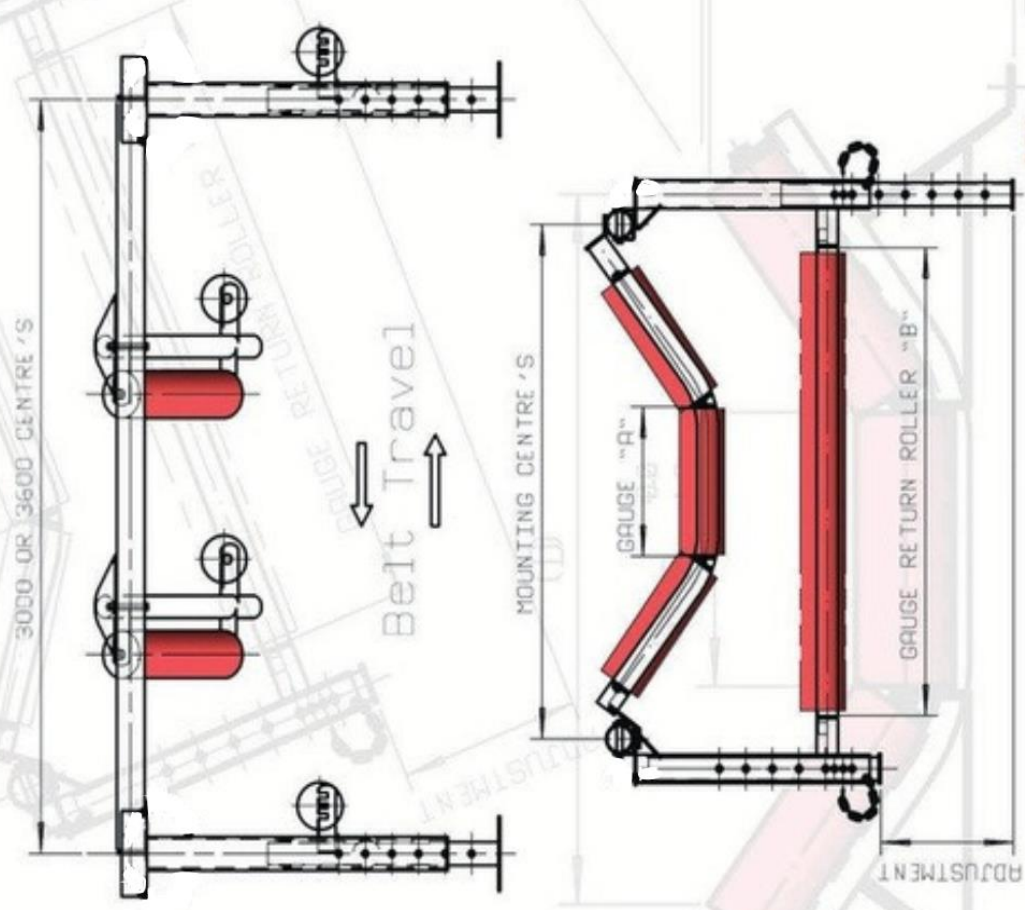
DUST COVER - FLINGER - OPTIONAL FOR MOIST CONDITIONS



3 ROLL ADJUSTABLE QUICK LOCK STRUCTURE

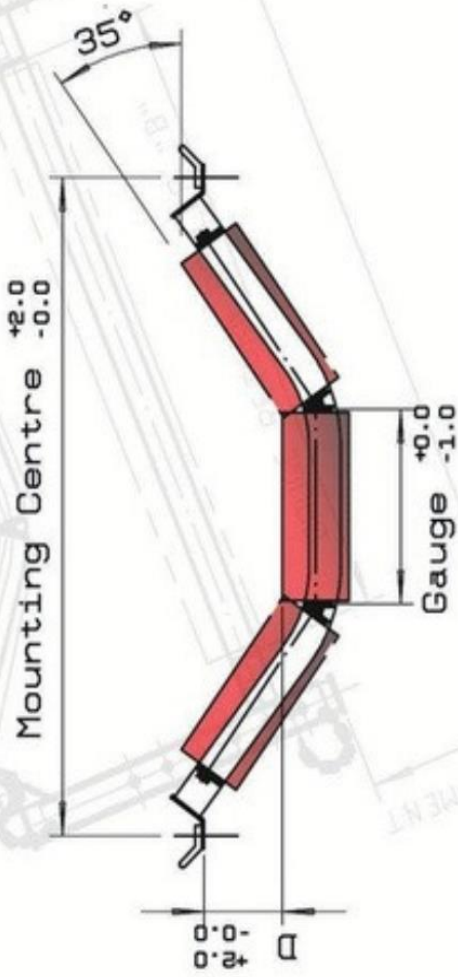


* 900 Belt - Adjustable Structure

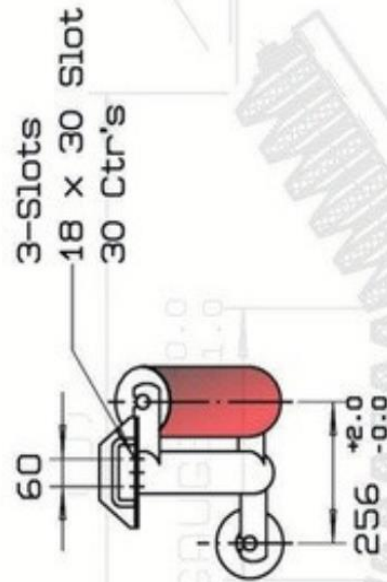


Belt Width	T/Idler Gauge	Mounting Centre's	Ext. Return Gauge
400	180		
450	200		
500	210		
600	250	890	802
750	300	1040	954
900	350	1190	1107
1050	400	1340	1258
1200	460	1490	1410
1350	510	1640	1564
1500	570	1790	1710

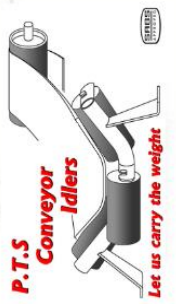
UNDERSLUNG TROUGHING IDLERS 127 SERIES 25



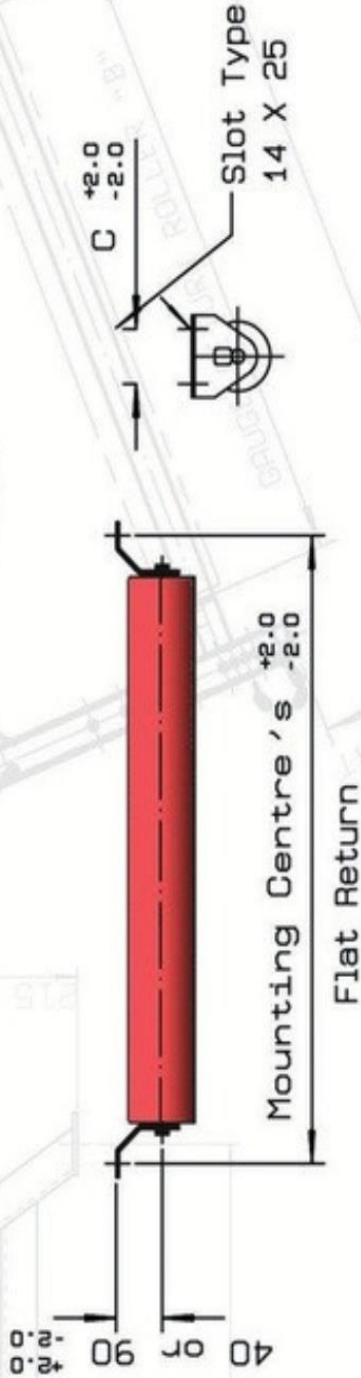
BELT TRAVEL →



BELT WIDTH	GAUGE	MOUNTING CENTRE 'S	D	SLOT		ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
				C	QTY			
400			35					
450								
500								
600	250	890	71	30	3	2.78	3.94	8.31
750	300	1040	113	30	3	3.19	4.55	9.00
900	350	1190	148	30	3	3.61	5.16	9.83
1050	400	1340	180	30	3	4.03	5.77	10.37
1200	460	1490	215	30	3	4.53	6.50	11.13
1350	510	1640	250	30	3	4.94	7.11	11.81



FLAT RETURN IDLERS 127 SERIES 25



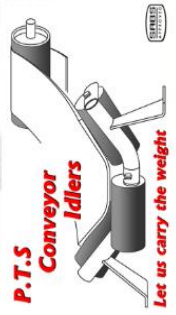
BELT WIDTH	GAUGE	MOUNTING CENTRE'S	SLOT		TYPE	QTY	ROTATING WEIGHT	ROLLER WEIGHT	40 mm BRACKET	90 mm BRACKET	CARRING BRACKET
			C	QTY							
400	494	634	100	2	2	6.37	8.47	1.80	2.00	2.00	2.2kg
450	546	686	100	2	2	6.97	9.27	1.80	2.00	2.00	2.2kg
500	596	736	100	2	2	4.95	10.3	1.80	2.00	2.00	2.2kg
600	698	838	100	2	2	5.80	11.9	1.80	2.00	2.00	2.2kg
750	850	990	100	2	2	7.07	14.5	1.80	2.00	2.00	2.2kg
900	1004	1144	100	2	2	8.35	17.1	1.80	2.00	2.00	2.2kg
1050	1156	1296	100	2	2	9.62	19.6	1.80	2.00	2.00	2.2kg
1200	1308	1448	100	2	2	10.8	22.1	1.80	2.00	2.00	2.2kg
1350	1460	1600	100	2	2	12.0	24.6	1.80	2.00	2.00	2.2kg
1500	1612	1752	100	2	2	13.4	27.2	1.80	2.00	2.00	2.2kg



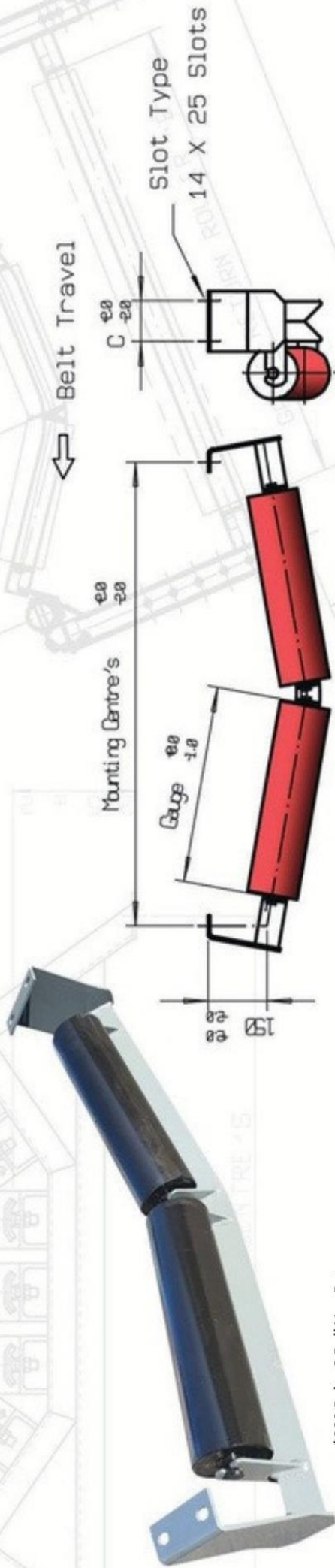
40mm Drop brackets



90mm Drop brackets

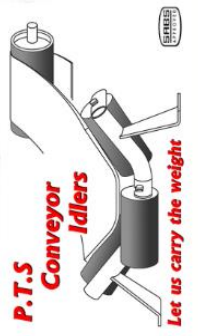


2 ROLL ANGULAR VEE RETURN 127 SERIES 25

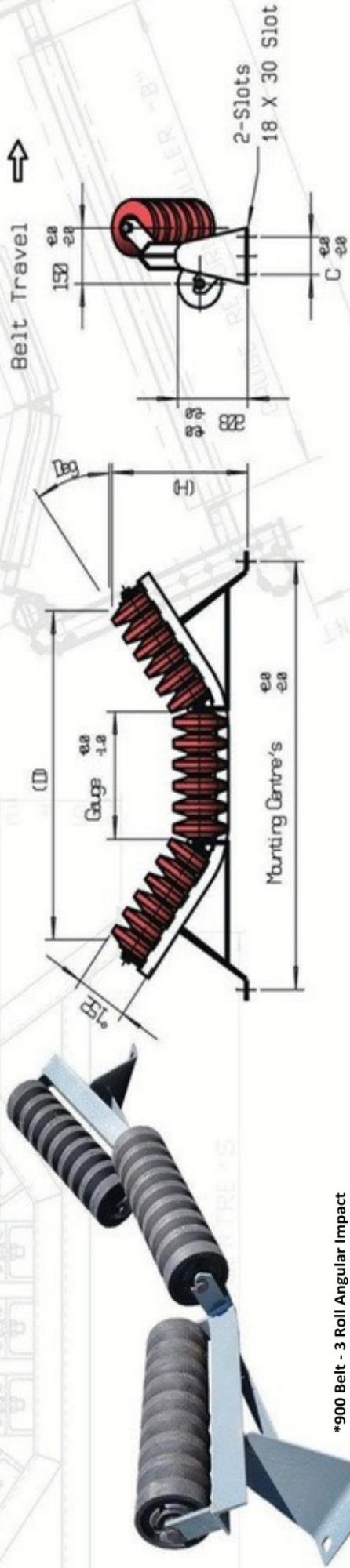


*900 Belt - 2 Roll Vee Return

BELT WIDTH	GAUGE	MOUNTING CENTRE'S		D		H		SLOT TYPE		ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
		5	10	5	10	C	QTY					
400												
450												
500												
600	310	838	615	283	337	100	2	3.55	4.72	11.0		
750	410	990	746	300	366	100	2	4.13	5.49	12.0		
900	485	1144	878	317	395	100	2	4.70	6.26	13.0		
1050	570	1296	1010	334	423	100	2	5.28	7.03	15.7		
1200	645	1448	1169	355	458	100	2	5.97	7.95	16.6		
1350	730	1600	1301	372	487	100	2	6.55	8.72	18.0		
1500	810	1752	1459	392	521	100	2	7.24	9.64	20.9		

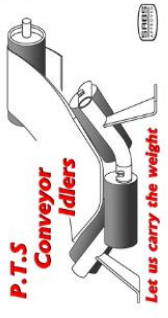


3 ROLL ANGULAR IMPACT IDLER 133 & 159 SERIES 25



*900 Belt - 3 Roll Angular Impact

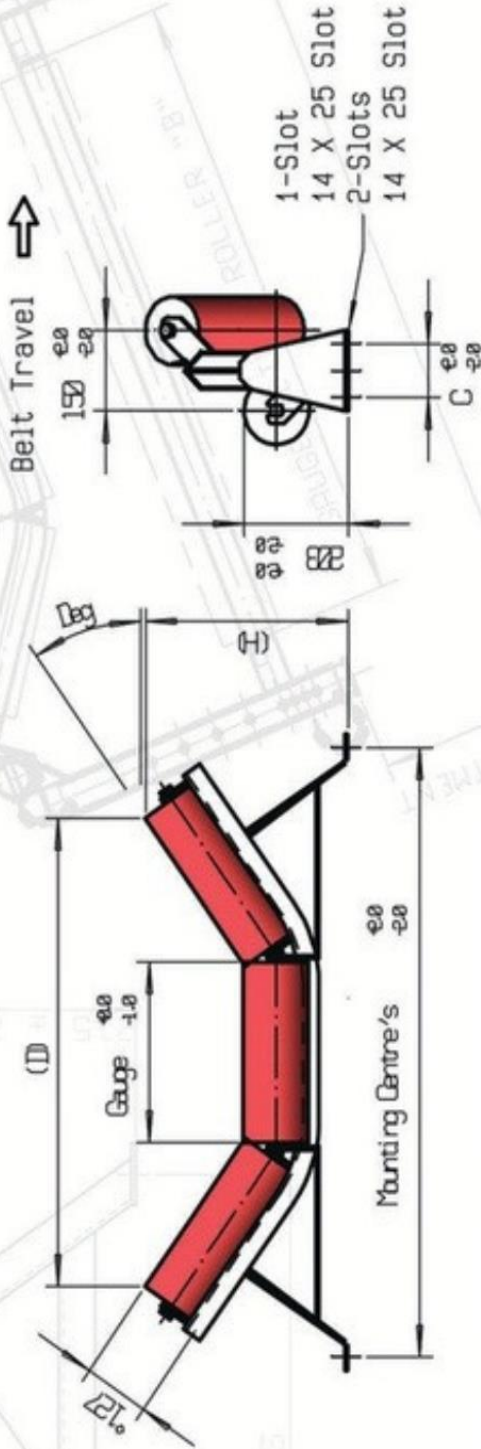
BELT WIDTH	GAUGE	MOUNTING CENTRE'S	D			H	SLOT		TYPE	ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT	
			20	35°	45°		C	C					
400	180	634	473	433	396	259	297	319	150	2	2.66	3.57	7.70
450	200	686	530	486	444	266	309	333	150	2	2.76	3.68	8.00
500	210	736	559	512	468	269	314	340	150	2	2.82	3.73	8.30
600	250	838	674	618	565	283	337	369	150	2	3.53	4.44	9.30
750	300	990	818	749	686	300	366	404	150	2	4.29	5.20	10.3
900	350	1144	962	881	806	317	395	439	150	2	5.05	5.96	16.2
1050	400	1296	1109	1013	927	334	423	475	150	2	5.81	6.72	18.8
1200	460	1448	1279	1172	1072	355	458	517	150	2	6.63	7.54	20.8
1350	510	1600	1423	1304	1193	372	487	553	240	2	7.39	8.30	26.8
1500	570	1752	1596	1462	1337	392	521	595	240	2	8.21	9.12	34.3



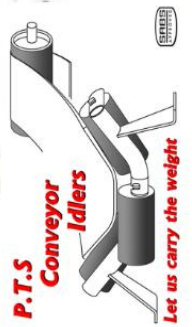
3 ROLL ANGULAR TROUGHING IDLER 127 SERIES 25



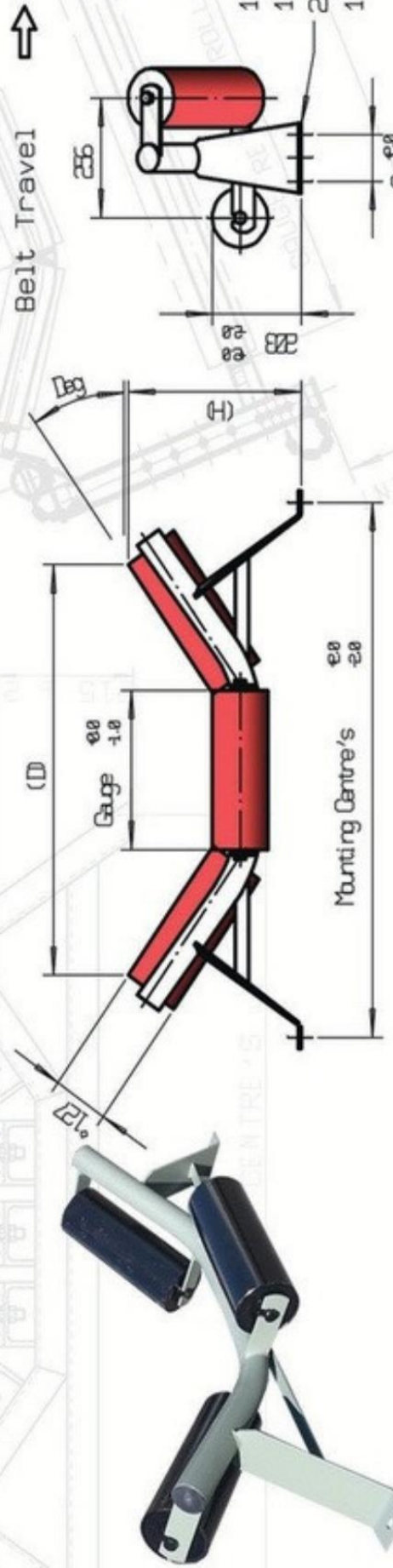
*900 Belt - 3 Roll Angular Trough



BELT WIDTH	GAUGE	MOUNTING CENTRE'S	D			H		SLOT		TYPE	ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
			20	35°	45°	20	35	45	C				
400	180	634	470	430	393	259	297	319	-	1	2.19	3.09	7.4
450	200	686	527	483	441	266	309	333	-	1	2.36	3.34	7.70
500	210	736	556	509	465	269	314	340	-	1	2.44	3.46	7.90
600	250	838	671	615	562	283	337	369	-	1	2.78	3.94	9.00
750	300	990	815	746	683	300	366	404	-	1	3.19	4.55	10.0
900	350	1144	959	878	803	317	395	439	-	1	3.61	5.16	15.9
1050	400	1296	1103	1010	924	334	423	475	100	2	4.03	5.77	18.5
1200	460	1448	1276	1169	1069	355	458	517	100	2	4.53	6.50	20.5
1350	510	1600	1420	1301	1190	372	487	553	240	2	4.94	7.11	26.5
1500	570	1752	1593	1459	1334	392	521	595	240	2	5.44	7.84	34.0

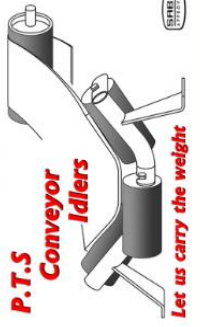


3 ROLL TUBULAR TROUGHING IDLER 127 SERIES 25

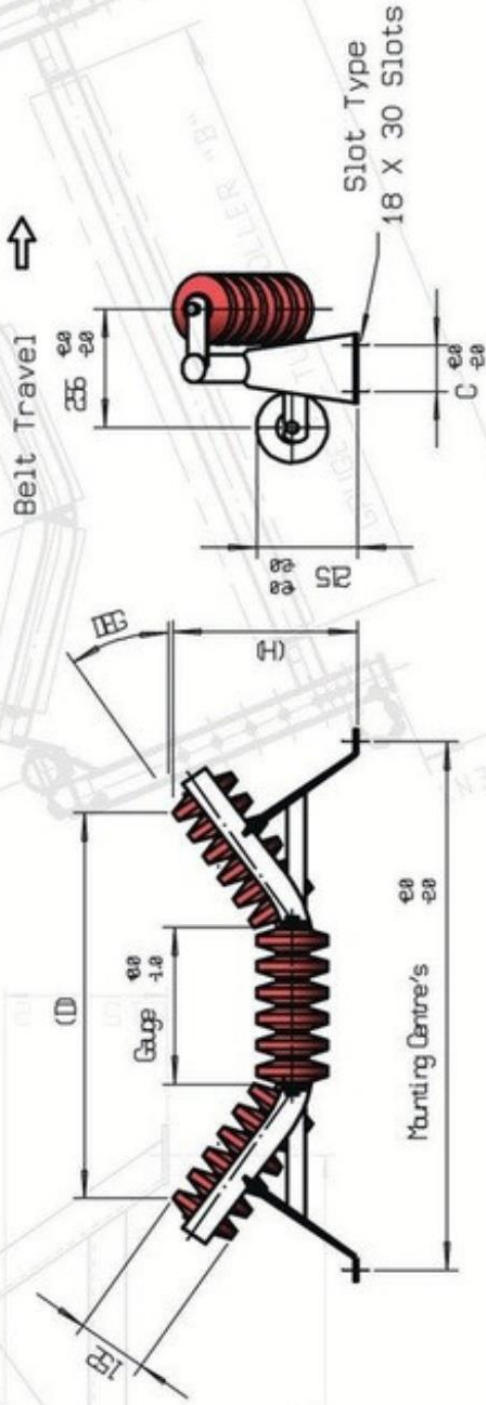


*900 Belt - 3 Roll Tubular Trough

BELT WIDTH	GAUGE	MOUNTING CENTRE'S	D			H			SLOT C	TYPE QTY	ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
			20°	35°	45°	20°	35°	45°					
400	180	634	470	430	393	259	297	319	1	2.19	3.09	7.50	
450	200	686	527	483	441	266	309	333	1	2.36	3.34	7.80	
500	210	736	556	509	465	269	314	340	1	2.44	3.46	8.00	
600	250	838	671	615	562	283	337	369	1	2.78	3.94	9.00	
750	300	990	815	746	683	300	366	404	1	3.19	4.55	10.0	
900	350	1144	959	878	803	317	395	439	1	3.61	5.16	11.0	
1050	400	1296	1103	1010	924	334	423	475	2	4.03	5.77	14.5	
1200	460	1448	1276	1169	1069	355	458	517	2	4.53	6.50	15.5	
1350	510	1600	1420	1301	1190	372	487	553	2	4.94	7.11	19.0	
1500	570	1752	1593	1459	1334	392	521	595	2	5.44	7.84	20.5	



3 ROLL TUBULAR IMPACT IDLER 133 & 159 SERIES 25

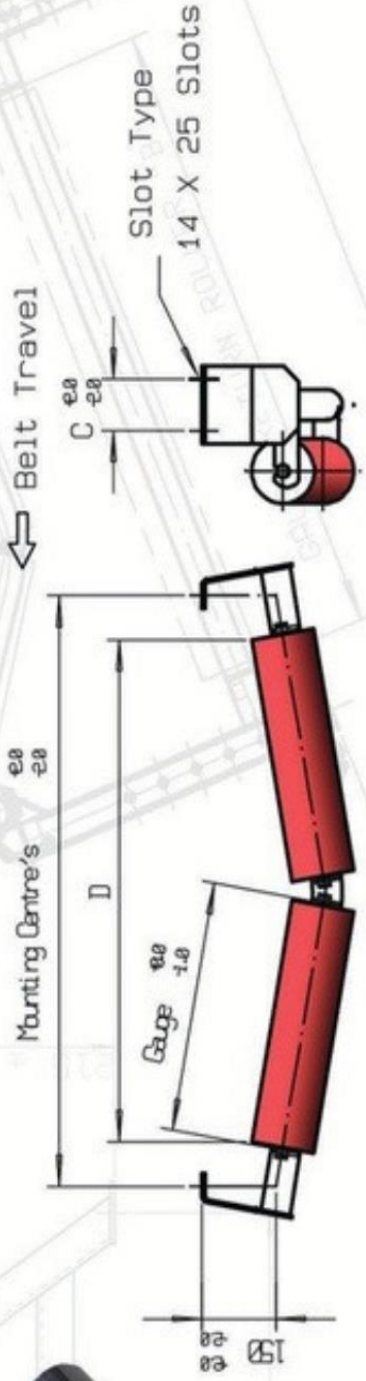


*900 Belt - 3 Roll Tubular Impact

BELT WIDTH	GAUGE	MOUNTING CENTRE'S	D			H			SLOT		ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
			20	35°	45°	20	35	45	C	QTY			
400	180	634	473	433	396	259	297	319	150	2	2.66	3.57	7.70
450	200	686	530	486	444	266	309	333	150	2	2.76	3.68	8.0
500	210	736	559	512	468	269	314	340	150	2	2.82	3.73	8.20
600	250	838	674	618	565	283	337	369	150	2	3.53	4.44	9.20
750	300	990	818	749	686	300	366	404	150	2	4.29	5.20	10.2
900	350	1144	962	881	806	317	395	439	150	2	5.05	5.96	11.2
1050	400	1296	1106	1013	927	334	423	475	150	2	5.81	6.72	14.7
1200	460	1448	1279	1172	1072	355	458	517	150	2	6.63	7.54	15.8
1350	510	1600	1423	1304	1193	372	487	553	240	2	7.39	8.30	19.3
1500	570	1752	1596	1462	1337	392	521	595	240	2	8.21	9.12	20.8



2 ROLL TUBULAR VEE RETURN 127 SERIES 25



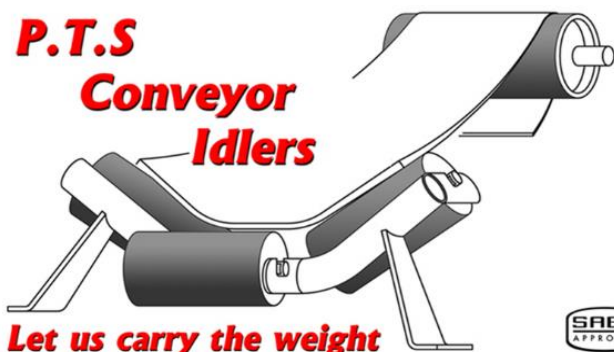
*900 Belt - 2 Roll Vee Return

BELT WIDTH	GAUGE	MOUNTING CENTRE'S	D		H	Slot C	TYPE		ROTATING WEIGHT	ROLLER WEIGHT	FRAME WEIGHT
			5	10			QTY	C			
400											
450											
500											
600	310	838	671	615	283	337	100	2	3.55	4.72	7.1
750	410	990	815	746	300	366	100	2	4.13	5.49	7.7
900	485	1144	959	876	317	395	100	2	4.70	6.26	8.4
1050	570	1296	1103	1010	334	423	100	2	5.28	7.03	9.0
1200	645	1448	1276	1169	355	458	100	2	5.97	7.95	9.7
1350	730	1600	1420	1301	372	487	100	2	6.55	8.72	10.3
1500	810	1752	1593	1459	392	521	100	2	7.24	9.64	11.0





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