



www.kcpbeltsolution.com

KCP BELT SOLUTION (LA0052435-T)

19, Jalan Kemunting 1A, Seksyen BS2,
Bukit Sentosa, 48300 Rawang Selangor.

sales@kcpbeltsolution.com

+60 12-961 2248



For further info
please call us

+6012-961 2248

or visit our website

www.kcpbeltsolution.com

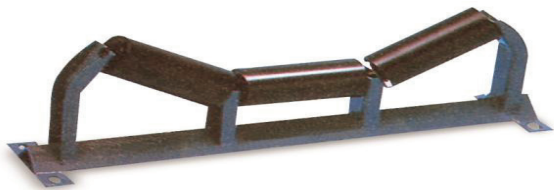
CATALOGUE THE DIFFERENT TYPES OF ROLLER

Flexible chain solutions for every need

Our KCP Belt Solution range offers more than 60 different types of high-quality chains, including straight-running and radius/side-flexing versions.



EQUAL TROUGHING IDLERS



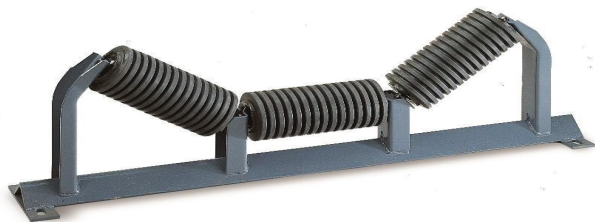
FORWARD TILTED IDLERS



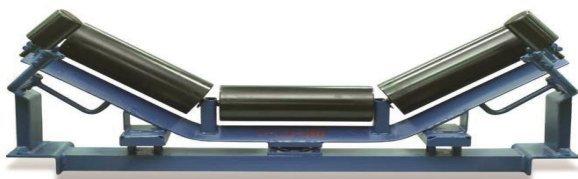
FLAT IDLERS



RUBBER DISC RETURN IDLERS (RD-TYPE)



IMPACT IDLERS



SELF-ALIGNING IDLERS (CTB)



RUBBER DISC RETURN IDLERS (RR-TYPE)



SPIRAL URETHANE RETURN IDLERS



SELF- ALIGNING RETURN IDLERS (RTB)



TRANSITION IDLERS



RETURN IDLERS



V-RETURN IDLERS



BI-DIRECTION SELF-ALIGNING IDLERS (CTC)



FLAT IMPACT IDLERS



RETURN GUIDE IDLERS

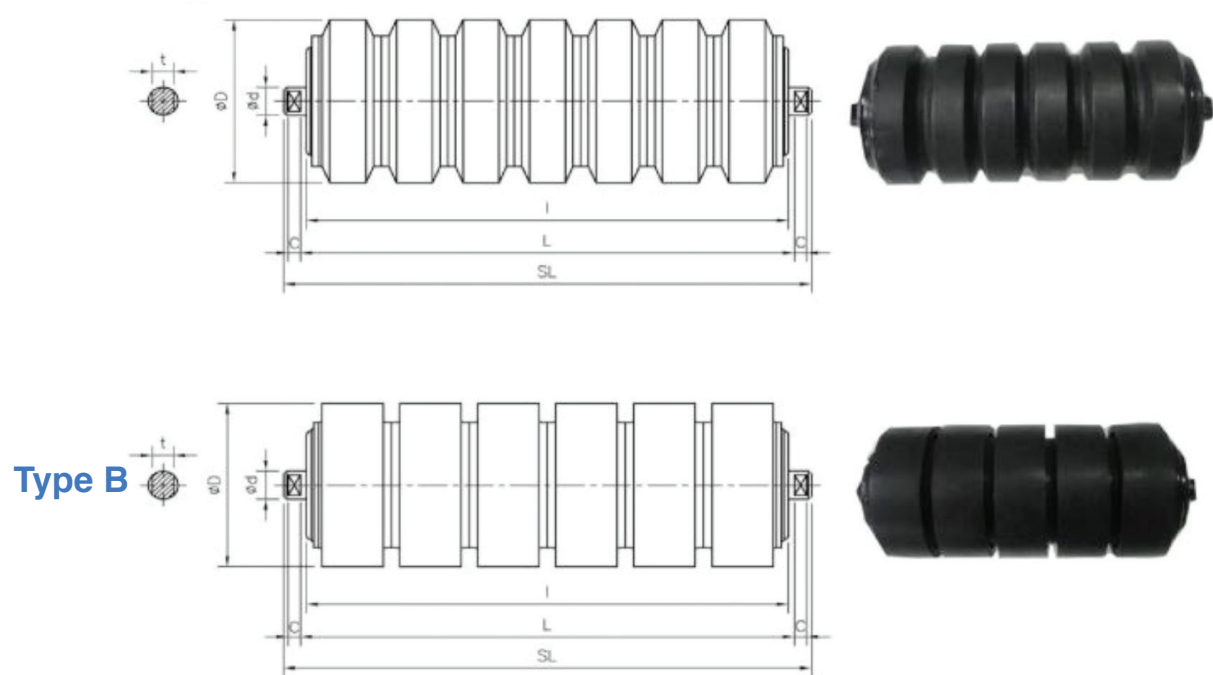


SIDE GUIDE IDLERS (GB)



SIDE GUIDE IDLERS (GA)

01 IMPACT CARRYING IDLER ROLLER



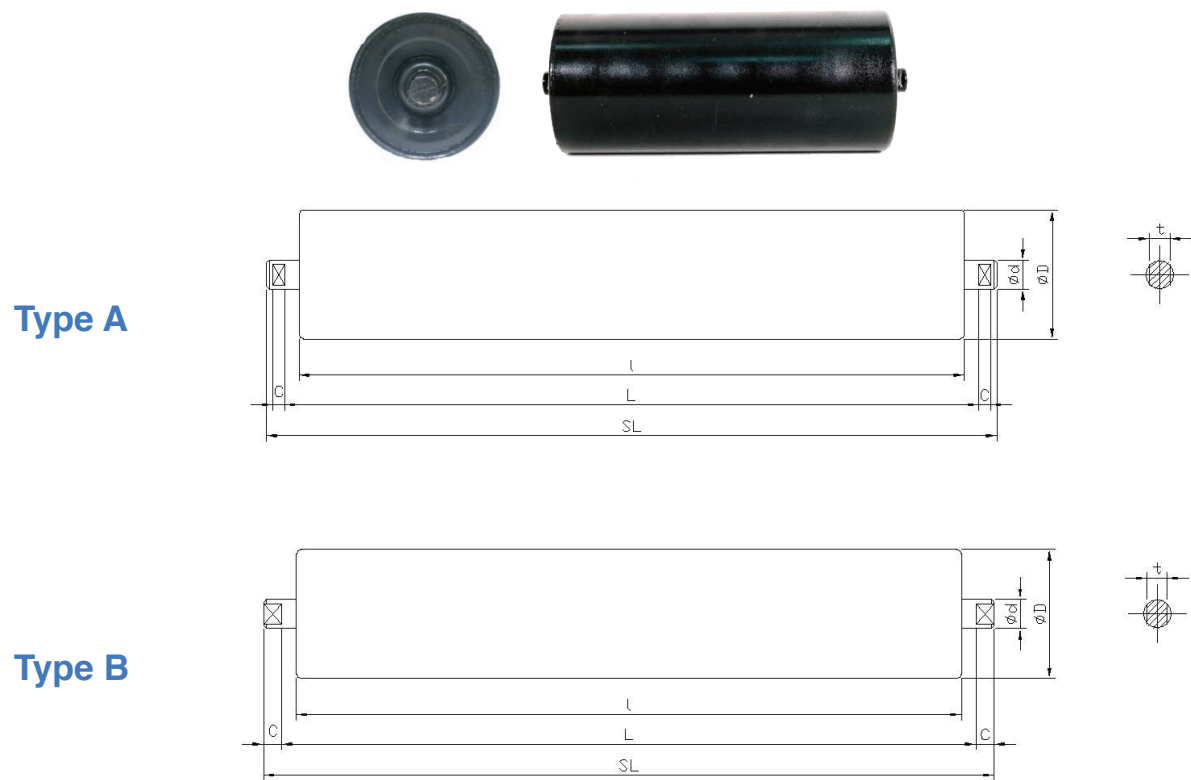
► Product Features

- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Excellent dynamic balancing
- ✓ Better loading capacity and durability
- ✓ Electrostatic coating

► Product Details

MODEL	BELT WIDTH	ϕI	I	L	SL	C	t	ϕd	BEARING NO.
ZT-040-MA / B	400	90	145	153	175	8	14	20	
ZT-045-MA / B	450	90	165	173	195	8	14	20	
ZT-050-MA / B	500	90	180	188	210	8	14	20	
ZT-060-MA / B	600	90	210	218	240	8	14	20	
ZT-075-MA / B	750	115	265	273	295	8	14	20	
ZT-090-MA / B	900	115	315	323	345	8	14	20	
ZT-105-MA / B	1050	140	370	380	410	11.2	18	25	
ZT-120-MA / B	1200	140	420	430	460	11.2	18	25	
ZT-140-MA / B	1400	166	500	510	540	11.2	22.4	30	
ZT-160-MA / B	1600	166	580	590	620	11.2	22.4	30	
ZT-180-MA / B	1800	200	650	660	690	11.2	25	35	
ZT-200-MA / B	2000	200	730	740	770	11.2	25	35	

02 STEEL CARRIER ROLLER



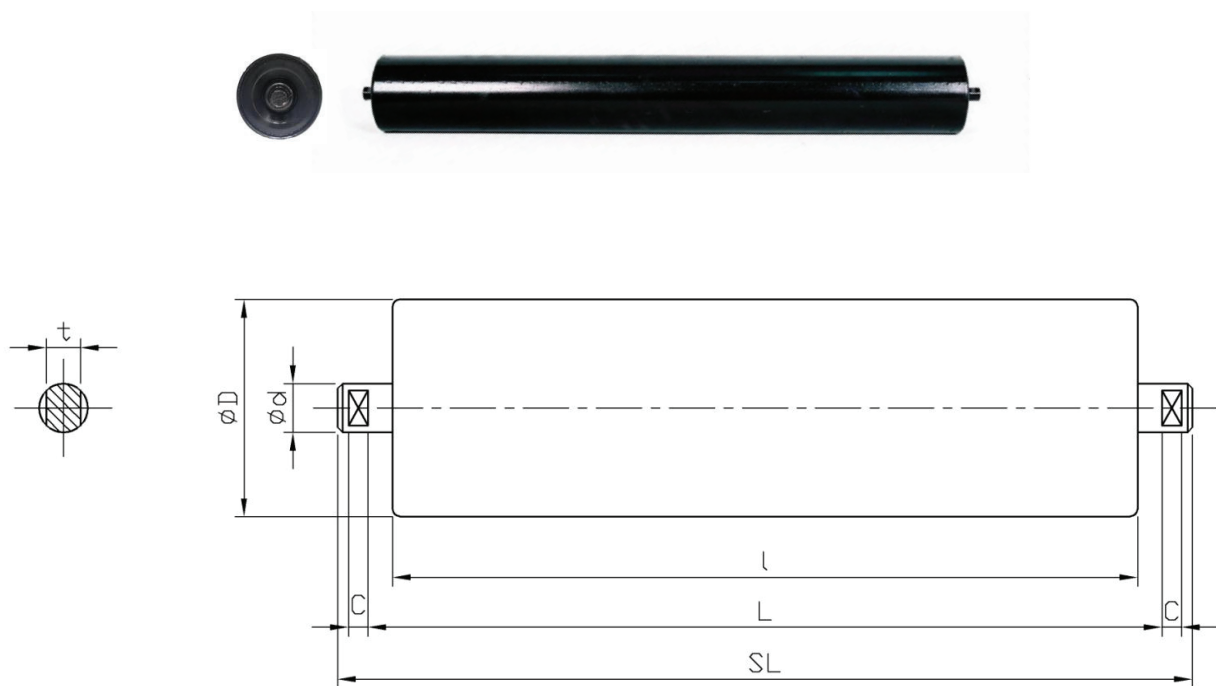
► Product Features

- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Excellent dynamic balancing
- ✓ Better loading capacity and durability
- ✓ Electrostatic coating

► Product Details

MODEL	BELT WIDTH	ϕI	I	L	SL	C	t	ϕd	BEARING NO.
ZTSR-040-CA/B	400	89.1	145	153	175	8	11/14	17/20	
ZTSR-045-CA/B	450	89.1	165	173	195	8	11/14	17/20	
ZTSR-050-CA/B	500	89.1	180	188	210	8	11/14	17/20	
ZTSR-060-CA/B	600	89.1	210	218	240	8	11/14	17/20	
ZTSR-075-C	750	114.3	265	273	295	8	14	20	
ZTSR-090-C	900	114.3	315	323	345	8	14	20	
ZTSR-105-C	1050	139.8	370	380	410	11.2	18	25	
ZTSR-120-C	1200	139.8	420	430	460	11.2	18	25	
ZTSR-140-C	1400	165.2	500	510	540	11.2	22.4	30	
ZTSR-160-C	1600	165.2	580	590	620	11.2	22.4	30	
ZTSR-180-C	1800	165.2	650	660	690	11.2	25	35	
ZTSR-200-C	2000	165.2	730	740	770	11.2	25	35	

03 STEEL RETURN ROLLER



► Product Features

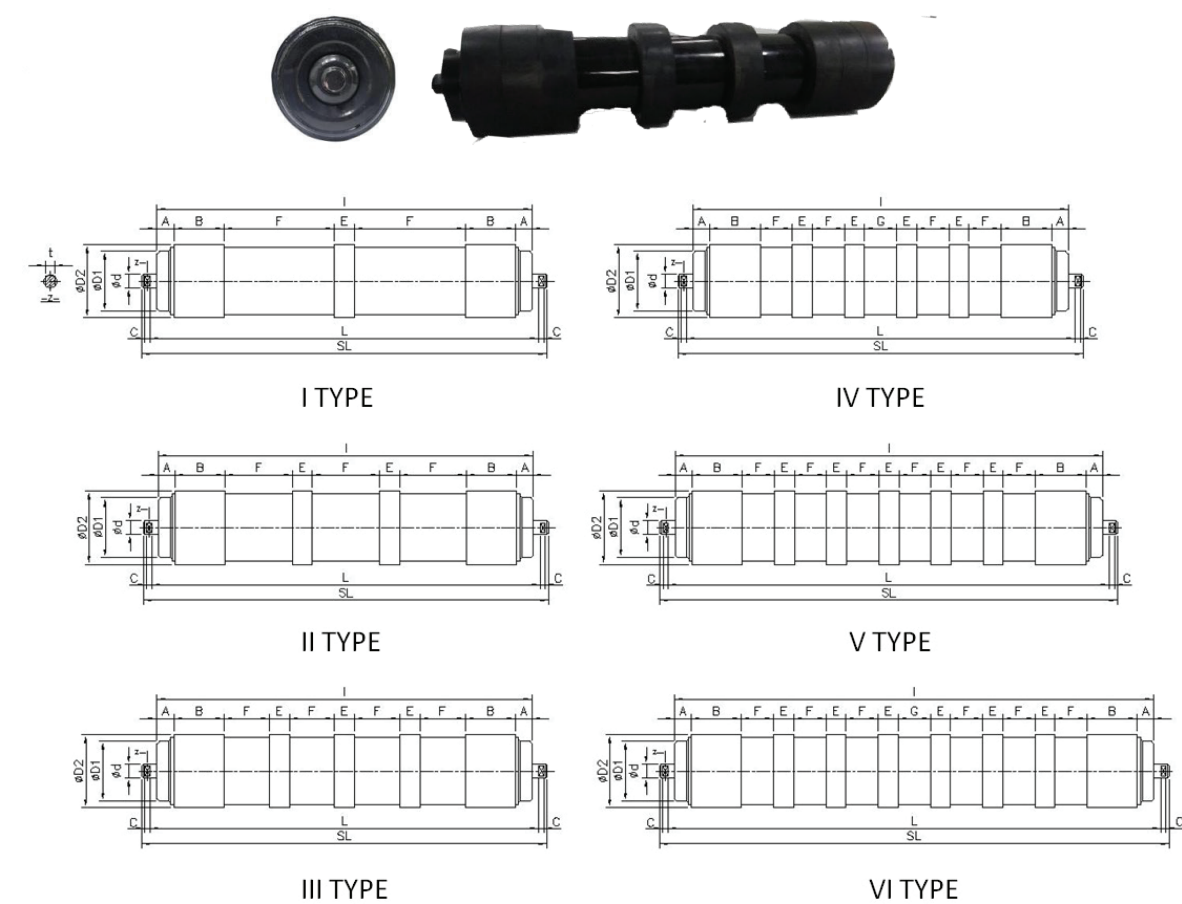
- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Exellent dynamic balancing
- ✓ Better loading caacity and durability
- ✓ Electrostatic coating

► Product Details

Unit: mm

MODEL	BELT WIDTH	ϕD	I	L	SL	C	t	ϕd	BEARING NO.
ZTSR-040-RA / B	400	89.1	460	480	505	8	11/14	17/20	
ZTSR-045-RA / B	450	89.1	510	530	555	8	11/14	17/20	
ZTSR-050-RA / B	500	89.1	560	580	605	8	11/14	17/20	
ZTSR-060-RA / B	600	89.1	660	680	705	8	11/14	17/20	
ZTSR-075-R	750	114.3	850	880	905	8	14	20	
ZTSR-090-R	900	114.3	1000	1030	1055	8	14	20	
ZTSR-105-R	1050	139.8	1150	1180	1215	11.2	18	25	
ZTSR-120-R	1200	139.8	1300	1330	1365	11.2	18	25	
ZTSR-140-R	1400	165.2	1530	1550	1585	11.2	22.4	30	
ZTSR-160-R	1600	165.2	1730	1750	1785	11.2	22.4	30	
ZTSR-180-R	1800	165.2	2000	2040	2075	11.2	25	35	
ZTSR-200-R	2000	165.2	2200	2240	2275	11.2	25	35	

04 RUBBER DISC RETURN ROLLER



► Product Features

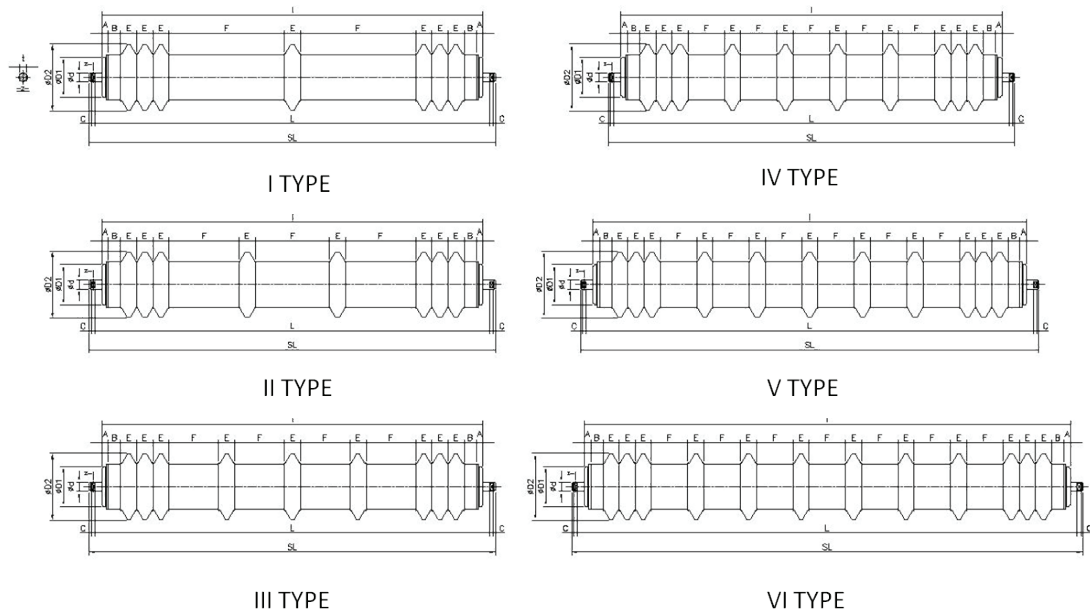
- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Exellent dynamic balancing
- ✓ Better loading caacity and durability
- ✓ Electrostatic coating

► Product Details

Unit: mm

MODEL	BELT WIDTH	TYPE	$\phi D1$	$\phi D2$	I	L	SL	C	t	ϕd	A	B	E	F	G	BEARING NO.
ZTSR-040-CA/B	400	I	89.1	110	460	480	505	8	14	20	20	125	50	60	-	
ZTSR-045-CA/B	450	I	89.1	110	510	530	555	8	14	20	20	125	50	85	-	
ZTSR-050-CA/B	500	I	89.1	110	560	580	605	8	14	20	25	125	50	105	-	
ZTSR-060-CA/B	600	I	89.1	110	660	680	705	8	14	20	25	150	50	130	-	
ZTSR-075-C	750	I	114.3	135	850	880	905	8	14	20	25	200	50	175	-	
ZTSR-090-C	900	II	114.3	135	1000	1030	1055	8	14	20	25	200	50	150	-	
ZTSR-105-C	1050	III	139.8	160	1150	1180	1215	11.2	18	25	20	200	50	140	-	
ZTSR-120-C	1200	IV	139.8	160	1300	1330	1365	11.2	18	25	20	200	50	130	140	
ZTSR-140-C	1400	V	165.2	195	1530	1550	1585	11.2	22.4	30	25	225	50	130	-	
ZTSR-160-C	1600	VI	165.2	195	1730	1750	1785	11.2	22.4	30	15	225	50	140	110	
ZTSR-180-C	1800	VI	165.2	195	2000	2040	2075	11.2	25	35	20	300	50	150	160	
ZTSR-200-C	2000	VI	165.2	195	2200	2240	2275	11.2	25	35	20	350	50	170	140	

05 RUBBER RING RETURN ROLLER



► Product Features

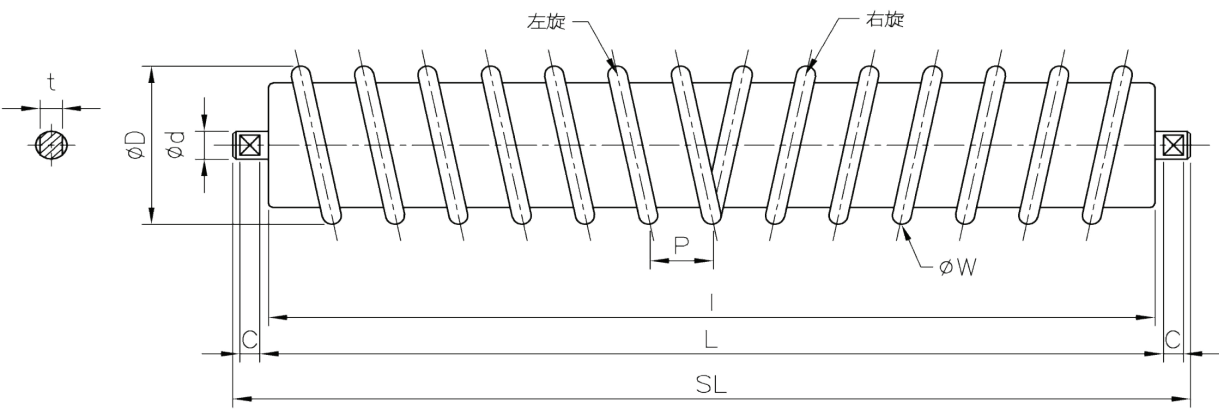
- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Exellent dynamic balancing
- ✓ Better loading caacity and durability
- ✓ Electrostatic coating

► Product Details

Unit: mm

MODEL	BELT WIDTH	TYPE	øD1	øD2	I	L	SL	C	t	ød	A	B	E	F	BEARING NO.
ZTSR-040-RR	400	I	89.1	140	460	480	505	8	14	20	15	22	36	67	
ZTSR-045-RR	450	I	89.1	140	510	530	555	8	14	20	15	22	36	92	
ZTSR-050-RR	500	I	89.1	140	560	580	605	8	14	20	15	22	36	117	
ZTSR-060-RR	600	I	89.1	140	660	680	705	8	14	20	15	52	36	137	
ZTSR-075-RR	750	I	89.1	150	850	880	905	8	14	20	15	52	36	232	
ZTSR-090-RR	900	II	89.1	150	1000	1030	1055	8	14	20	20	81	36	170	
ZTSR-105-RR	1050	III	89.1	173	1150	1180	1215	11.2	18	25	20	81	36	156	
ZTSR-120-RR	1200	IV	89.1	173	1300	1330	1365	11.2	18	25	19	81	36	148	
ZTSR-140-RR	1400	V	114.3	195	1530	1550	1585	11.2	22.4	30	25	92	36	150	
ZTSR-160-RR	1600	VI	114.3	195	1730	1750	1785	11.2	22.4	30	25	92	36	152	
ZTSR-180-RR	1800	VI	114.3	195	2000	2040	2075	11.2	25	35	25	129	36	180	
ZTSR-200-RR	2000	VI	114.3	195	2200	2240	2275	11.2	25	35	27	129	36	208	

06 STEEL SPIRAL RETURN ROLLER



► Product Features

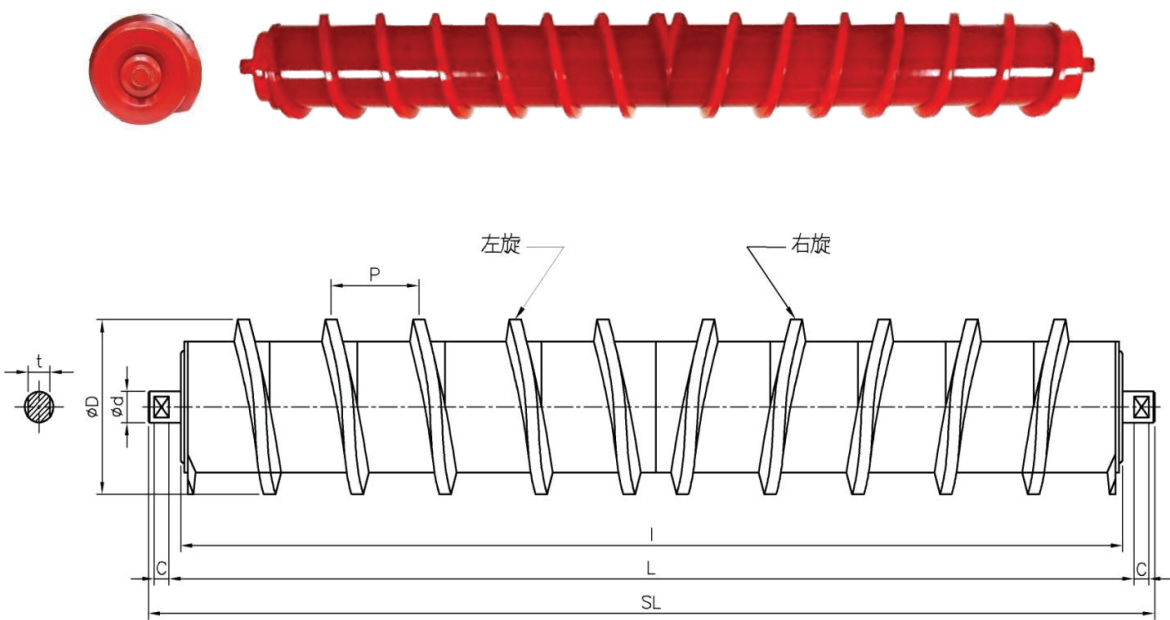
- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Exellent dynamic balancing
- ✓ Better loading caacity and durability
- ✓ Electrostatic coating

► Product Details

Unit: mm

MODEL	BELT WIDTH	øD	I	L	SL	C	t	ød	øW	P	BEARING NO.
ZTSR-040-SPS	400	113	460	480	505	8	14	20	12	40	
ZTSR-045-SPS	450	113	510	530	555	8	14	20	12	40	
ZTSR-050-SPS	500	113	560	580	605	8	14	20	12	40	
ZTSR-060-SPS	600	113	660	680	705	8	14	20	12	40	
ZTSR-075-SPSA/B	750	138/146	850	880	905	8	14	20	12/16	50	
ZTSR-090-SPSA/B	900	138/146	1000	1030	1055	8	14	20	12/16	50	
ZTSR-105-SPS	1050	172	1150	1180	1215	11.2	18	25	16	60	
ZTSR-120-SPS	1200	172	1300	1330	1365	11.2	18	25	16	60	
ZTSR-140-SPS	1400	197	1530	1550	1585	11.2	22.4	30	16	65	
ZTSR-160-SPS	1600	197	1730	1750	1785	11.2	22.4	30	16	65	
ZTSR-180-SPS	1800	197	2000	2040	2075	11.2	25	35	16	65	
ZTSR-200-SPS	2000	197	2200	2240	2275	11.2	25	35	16	65	

07 URETHANE SPIRAL RETURN ROLLER



► Product Features

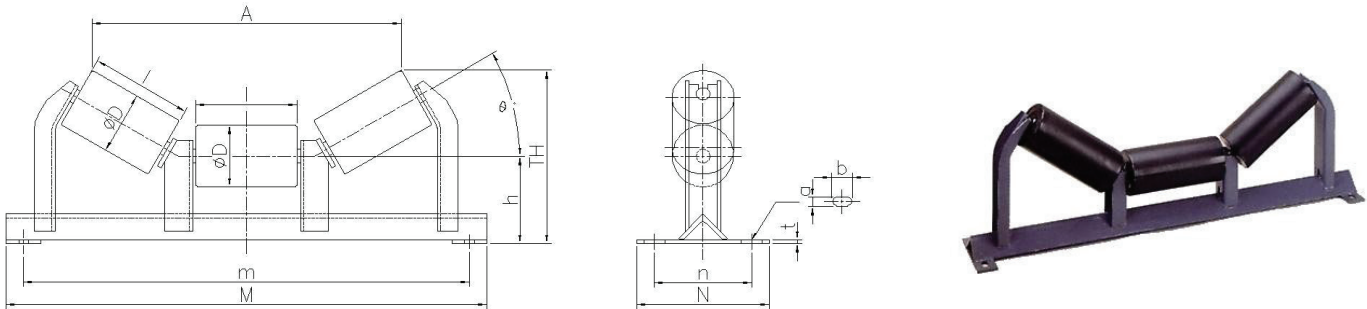
- ✓ Precision deep groove ball bearing
- ✓ Water-tight and dust-tight labyrinth seal
- ✓ Low turning friction
- ✓ Excellent dynamic balancing
- ✓ Better loading capacity and durability
- ✓ Electrostatic coating

► Product Details

MODEL	BELT WIDTH	øD	I	L	SL	C	t	ød	P	BEARING NO.
ZTSR-075-SPU	750	140	850	880	905	8	14	20	75	
ZTSR-090-SPU	900	140	1000	1030	1055	8	14	20	75	
ZTSR-105-SPU	1050	166	1150	1180	1215	11.2	18	25	90	
ZTSR-120-SPU	1200	166	1300	1330	1365	11.2	18	25	90	
ZTSR-140-SPU	1400	166	1530	1550	1585	11.2	22.4	30	90	
ZTSR-160-SPU	1600	166	1730	1750	1785	11.2	22.4	30	90	
ZTSR-180-SPU	1800	166	2000	2040	2075	11.2	25	35	90	
ZTSR-200-SPU	2000	166	2200	2240	2275	11.2	25	35	90	

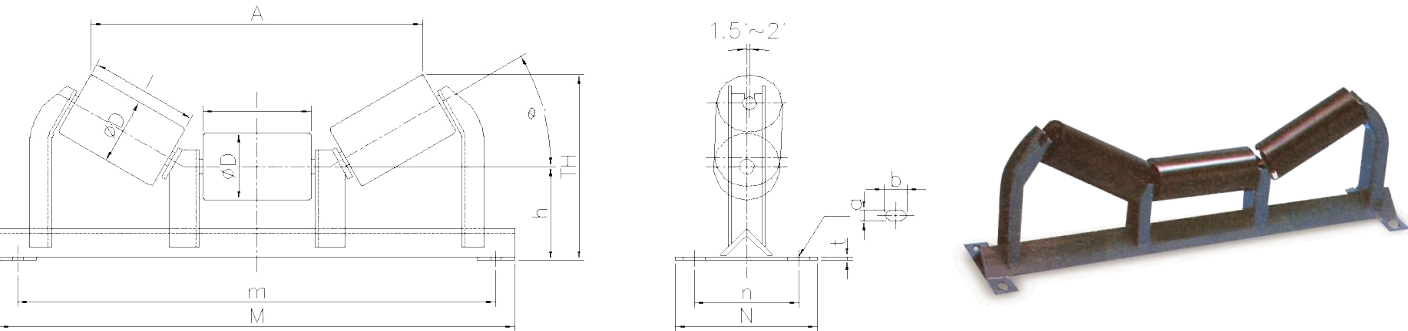
08 EQUAL TROUGHING IDLERS

With good true roundness and smooth operation, the elaborately designed carrying idlers have the advantages of low rotation resistance, long life, easy replacement and maintenance-free. In order to avoid the transverse displacement of belt, the forward tilted carrying idlers are preferred



09 FORWARD TILTED IDLERS

Forward tilted carrying idlers are used to prevent the snake motion from high tension belt.

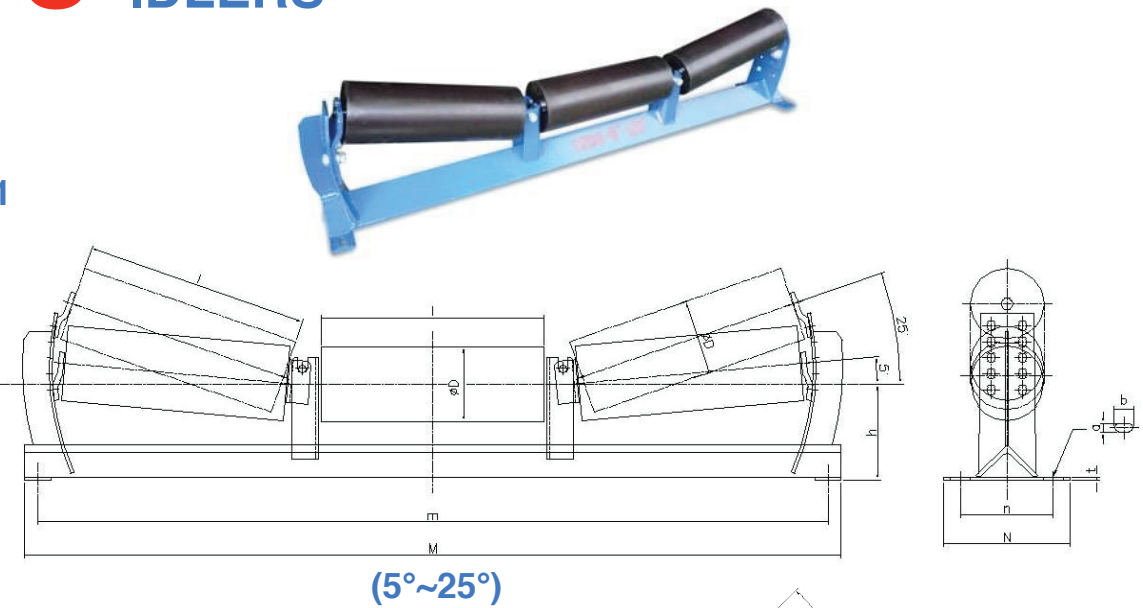


► Product Details

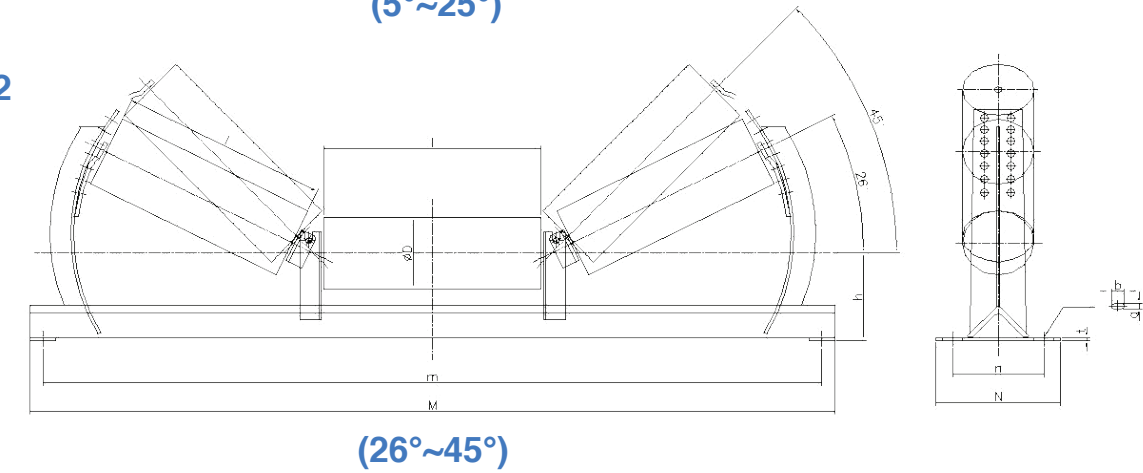
MODEL	BELT WIDTH	θ										FRAME								
		20°		30°		35°		40°		45°		M	h	m	N	n	t	øD	I	axb
		TH	A	TH	A	TH	A	TH	A	TH	A									
ZT-040-C/FC	400	224	476	248	444	-	-	-	-	-	-	690	125	640	190	140	4.5	89.1	145	14x30
ZT-045-C/FC	450	231	534	258	498	-	-	-	-	-	-	740	125	690	190	140	4.5	89.1	165	14x30
ZT-050-C/FC	500	236	577	266	539	-	-	-	-	-	-	790	125	740	190	140	4.5	89.1	180	14x30
ZT-060-C/FC	600	262	663	296	621	-	-	-	-	-	-	890	140	840	200	150	6	89.1	210	14x30
ZT-075-C/FC	750	302	813	344	759	364	730	381	695	399	657	1090	150	1040	210	160	6	114.3	265	14x30
ZT-090-C/FC	900	319	957	369	895	393	862	414	821	434	778	1240	150	1190	210	160	6	114.3	315	14x30
ZT-105-C/FC	1050	381	1113	439	1040	467	1008	492	960	515	908	1390	180	1340	230	180	6	139.8	370	14x30
ZT-120-C/FC	1200	398	1257	464	1176	496	1140	524	1086	550	1029	1540	180	1490	230	180	6	139.8	420	14x30
ZT-140-C/FC	1400	507	1478	585	1382	623	1344	657	1281	690	1224	1795	250	1730	350	280	9	165.2	500	18x30
ZT-160-C/FC	1600	534	1709	625	1601	669	1555	708	1483	746	1417	1995	250	1930	350	280	9	165.2	580	18x30
ZT-180-C/FC	1800	588	1910	690	1792	739	1735	786	1678	827	1592	2285	280	2220	400	330	12	165.2	650	18x30
ZT-200-C/FC	2000	616	2141	730	2010	785	1946	838	1880	884	1785	2485	280	2420	400	330	12	165.2	730	18x30

10 TRANSITION IDLERS

AC1



AC2



► Product Features

- Adjustable carrying idlers are always installed at the loading point of drive pulley and tail pulley. The troughing angle should be adjusted according to the specific transition design of the conveyor.

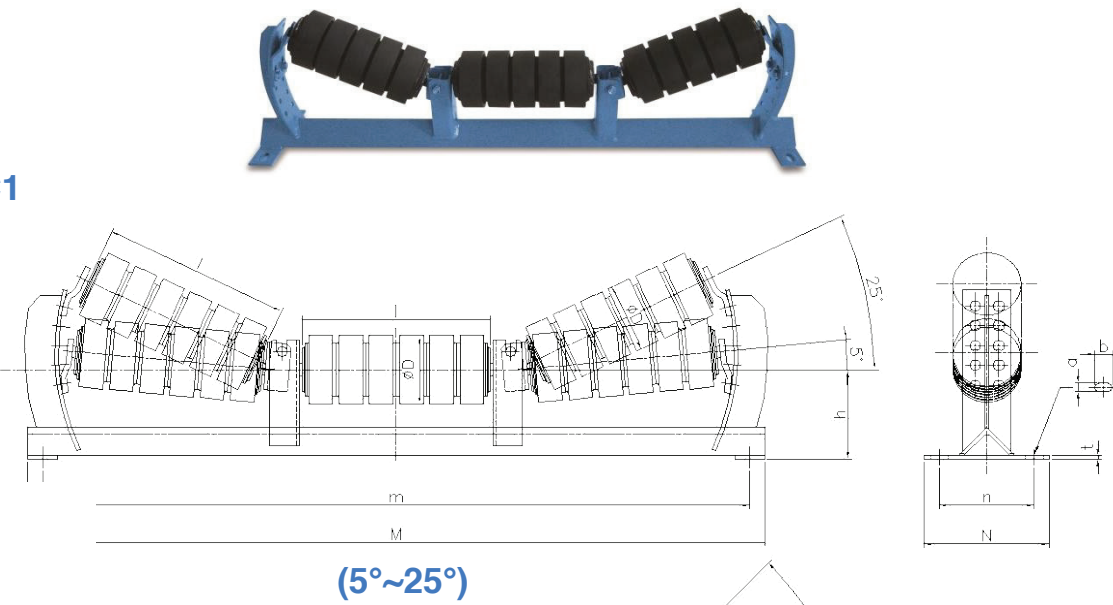
► Product Details

Unit: mm

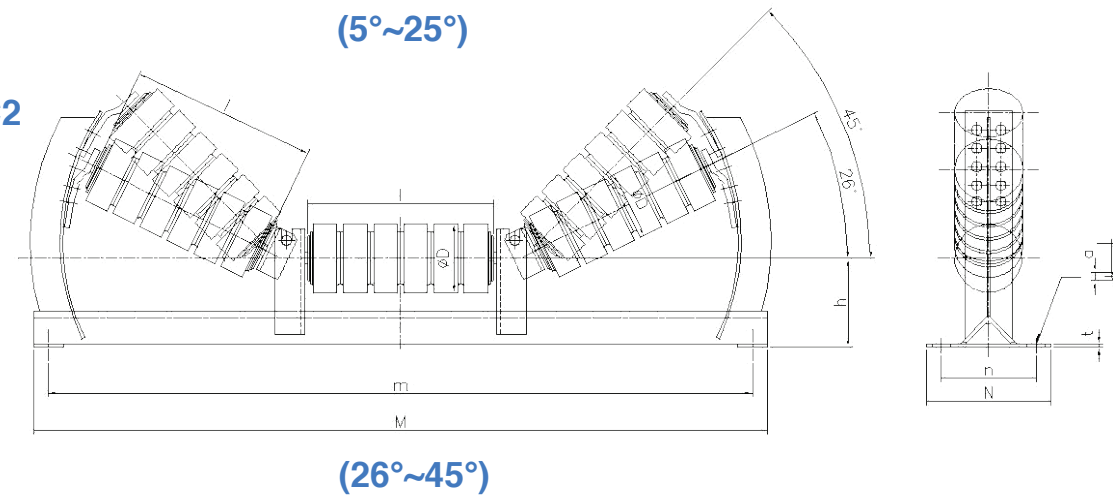
MODEL	BELT WIDTH	FRAME								
		M	h	m	N	n	t	øD	l	axb
ZT-060-AC1/2	600	890	140	840	200	150	6	89.1	210	14x30
ZT-075-AC1/2	750	1090	150	1040	210	160	6	114.3	265	14x30
ZT-090-AC1/2	900	1240	150	1190	210	160	6	114.3	315	14x30
ZT-105-AC1/2	1050	1390	180	1340	230	180	6	139.8	370	14x30
ZT-120-AC1/2	1200	1540	180	1490	230	180	6	139.8	420	14x30
ZT-140-AC1/2	1400	1795	250	1730	350	280	9	165.2	500	18x30
ZT-160-AC1/2	1600	1995	250	1930	350	280	9	165.2	580	18x30
ZT-180-AC1/2	1800	2285	280	2220	400	330	12	165.2	650	18x30
ZT-200-AC1/2	2000	2485	280	2420	400	330	12	165.2	730	18x30

11 ADJUSTABLE CARRYING IMPACT IDLERS

AC1



AC2



► Product Features

- Adjustable carrying impact idlers are designed for transition idlers under loading area or suffered high-impact wear.

► Product Details

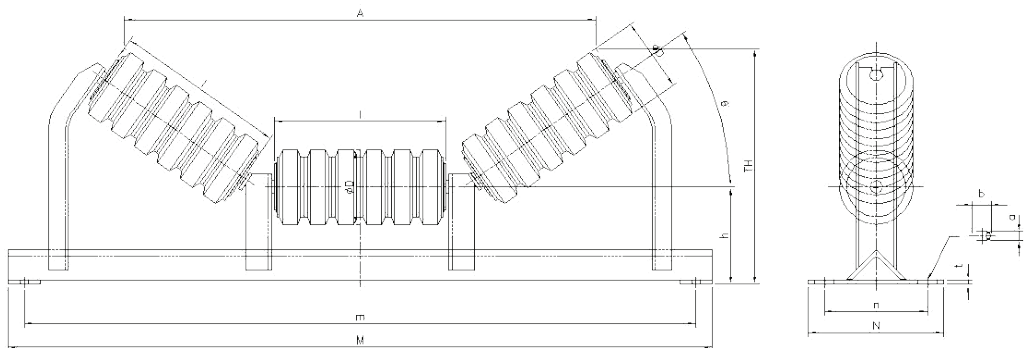
Unit: mm

MODEL	BELT WIDTH	FRAME								
		M	h	m	N	n	t	øD	l	axb
ZT-060-AC1M/2M	600	890	140	840	200	150	6	89.1	210	14x30
ZT-060-AC1M/2M	750	1090	150	1040	210	160	6	114.3	265	14x30
ZT-060-AC1M/2M	900	1240	150	1190	210	160	6	114.3	315	14x30
ZT-060-AC1M/2M	1050	1390	180	1340	230	180	6	139.8	370	14x30
ZT-060-AC1M/2M	1200	1540	180	1490	230	180	6	139.8	420	14x30
ZT-060-AC1M/2M	1400	1795	250	1730	350	280	9	165.2	500	18x30
ZT-060-AC1M/2M	1600	1995	250	1930	350	280	9	165.2	580	18x30
ZT-060-AC1M/2M	1800	2285	280	2220	400	330	12	165.2	650	18x30
ZT-060-AC1M/2M	2000	2485	263	2420	400	330	12	165.2	730	18x30

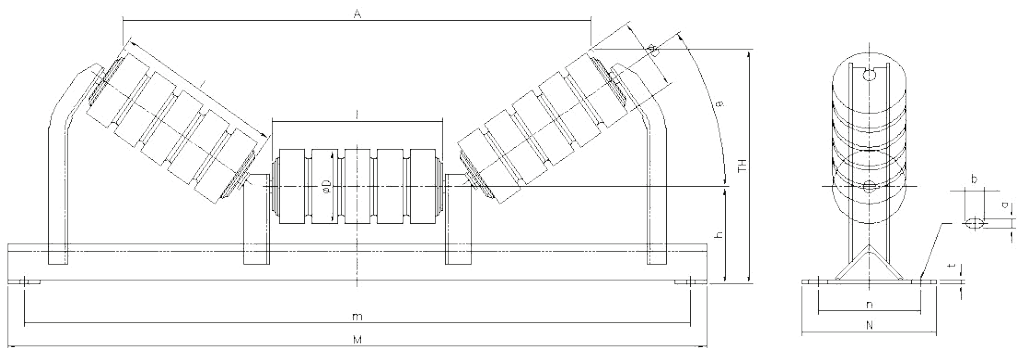
12 IMPACT IDLERS



Type A



Type B



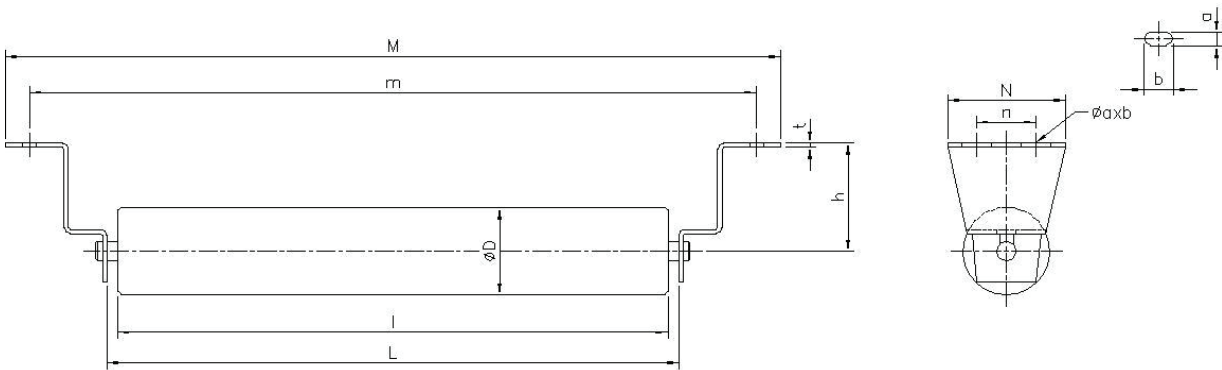
► Product Features

- ☑ Impact rollers are used to avoid the damage when the lumps and weights of material falling on the belt. It can also operate together with the impact bed.

► Product Details

MODEL	BELT WIDTH	θ										FRAME								
		20°		30°		35°		40°		45°		M	h	m	N	n	t	øD	l	axb
		TH	A	TH	A	TH	A	TH	A	TH	A									
ZT-040-MA/B	400	225	476	249	443	-	-	-	-	-	-	690	125	640	190	140	4.5	90	145	14x30
ZT-045-MA/B	450	232	534	259	497	-	-	-	-	-	-	740	125	690	190	140	4.5	90	165	14x30
ZT-050-MA/B	500	237	567	266	538	-	-	-	-	-	-	790	125	740	190	140	4.5	90	180	14x30
ZT-060-MA/B	600	262	663	296	620	-	-	-	-	-	-	890	140	840	200	150	6	90	210	14x30
ZT-075-MA/B	750	302	815	345	761	364	730	384	707	393	647	1090	150	1040	210	160	6	115	265	14x30
ZT-090-MA/B	900	319	959	370	898	393	862	416	833	428	767	1240	150	1190	210	160	6	115	315	14x30
ZT-105-MA/B	1050	381	1113	439	1039	465	996	494	968	508	892	1390	180	1340	230	180	6	140	370	14x30
ZT-120-MA/B	1200	398	1257	464	1176	494	1128	526	1095	550	1013	1540	180	1490	230	180	6	140	420	14x30
ZT-140-MA/B	1400	507	1478	585	1381	623	1339	657	1281	690	1211	1795	250	1730	350	280	9	166	500	18x30
ZT-160-MA/B	1600	534	1728	625	1600	669	1550	709	1483	741	1404	1995	250	1930	350	280	9	166	580	18x30
ZT-180-MA/B	1800	588	1898	688	1774	736	1715	783	1656	816	1555	2285	263	2220	400	330	12	200	650	18x30
ZT-200-MA/B	2000	615	2129	728	1993	782	1926	834	1858	873	1748	2485	263	2420	400	330	12	200	730	18x30

13 RETURN IDLERS



► Product Features

- ☑ The idlers are used as support for the return run of belt. Pay extra attention during installation to avoid belt contacting idler brackets of conveyor's structures due to inferior training of belt. Moreover, check the belt cleaners with great care to avoid zigzag movement of belt caused by the remained grit on the belt wearing out idler's surface.

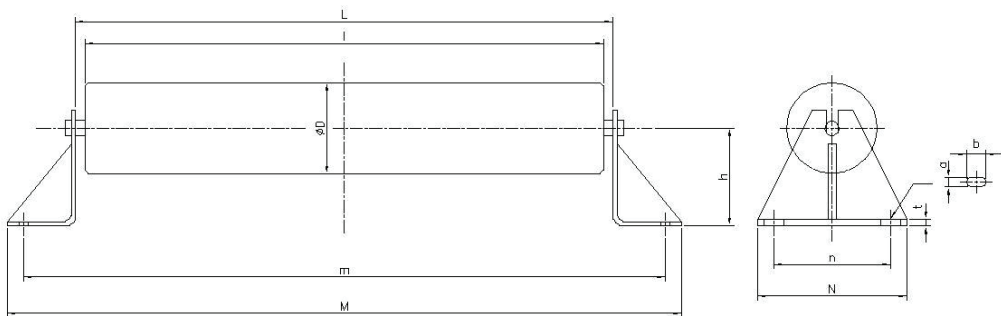
► Product Details

MODEL	BELT WIDTH	øD	FRAME								
			M	h	m	l	L	N	n	t	axb
ZT-040-R	400	89.1	690	110	640	460	480	120	60	4.5	14x30
ZT-045-R	450	89.1	740	110	690	510	530	120	60	4.5	14x30
ZT-050-R	500	89.1	790	110	740	560	580	120	60	4.5	14x30
ZT-060-R	600	89.1	890	110	840	660	680	120	60	4.5	14x30
ZT-075-R	750	114.3	1090	110	1040	850	880	120	60	4.5	14x30
ZT-090-R	900	114.3	1240	110	1190	1000	1030	120	60	4.5	14x30
ZT-105-R	1050	139.8	1390	130	1340	1150	1180	170	100	6	14x30
ZT-120-R	1200	139.8	1540	130	1490	1300	1330	170	100	6	14x30
ZT-140-R	1400	165.2	1780	160	1730	1530	1550	200	120	6	18x30
ZT-160-R	1600	165.2	1980	160	1930	1730	1750	200	120	6	18x30
ZT-180-R	1800	165.2	2270	160	2220	2000	2040	200	120	6	18x30
ZT-200-R	2000	165.2	2470	160	2420	2200	2240	200	120	6	18x30

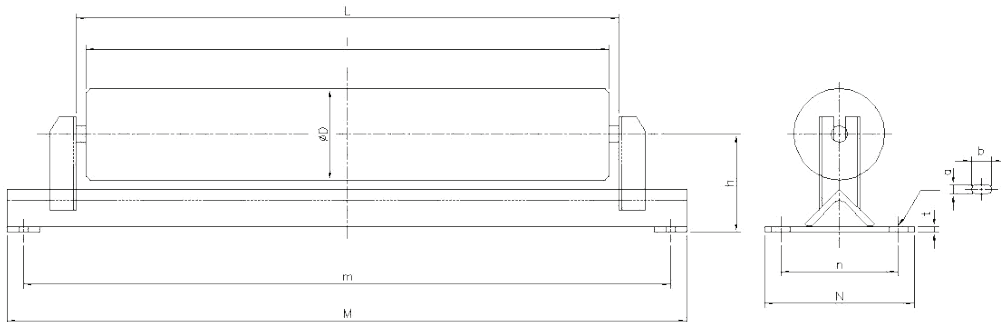
14 FLAT IDLERS



FA-TYPE



FB-TYPE



► Product Features

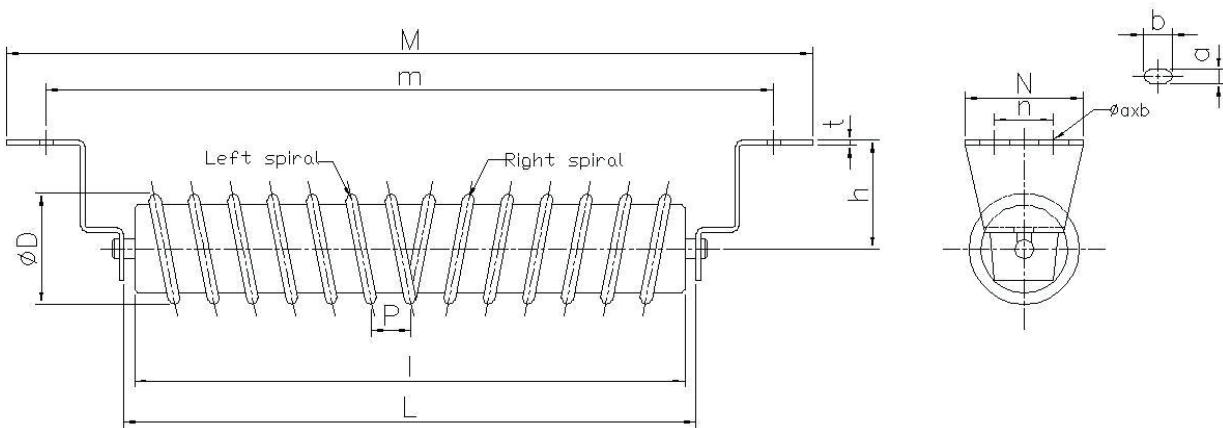
- ✓ The idlers with optional skirt boards or rubber plates are used to conveyor bag or box cargos, such as bagged cement, boxed beer, and lump materials. Distance of idler set is generally dependent on the weight and volume of carrying materials.

► Product Details

Unit: mm

MODEL	BELT WIDTH	ROLLER			FRAME						
		øD	I	L	h	m	M	N	n	t	axb
ZT-040-FA/B	400	89.1	460	480	125	640	690	190	140	4.5	14x30
ZT-045-FA/B	450	89.1	510	530	125	690	740	190	140	4.5	14x30
ZT-050-FA/B	500	89.1	560	580	125	740	790	190	140	4.5	14x30
ZT-060-FA/B	600	89.1	680	680	140	840	890	200	150	6	14x30
ZT-075-FA/B	750	114.3	880	880	150	1040	1090	210	160	6	14x30
ZT-090-FA/B	900	114.3	1030	1030	150	1190	1240	210	160	6	14x30
ZT-105-FA/B	1050	139.8	1180	1180	180	1340	1390	230	180	6	14x30
ZT-120-FA/B	1200	139.8	1330	1330	180	1490	1540	230	180	6	14x30
ZT-140-FA/B	1400	165.2	1550	1550	250	1730	1795	350	280	9	18x30
ZT-160-FA/B	1600	165.2	1750	1750	250	1930	1995	350	280	9	18x30
ZT-180-FA/B	1800	165.2	2040	2040	280	2220	2285	400	330	12	18x30
ZT-200-FA/B	2000	165.2	2240	2240	280	2420	2485	400	330	12	18x30

15 STEEL SPIRAL RETURN IDLERS



► Product Features

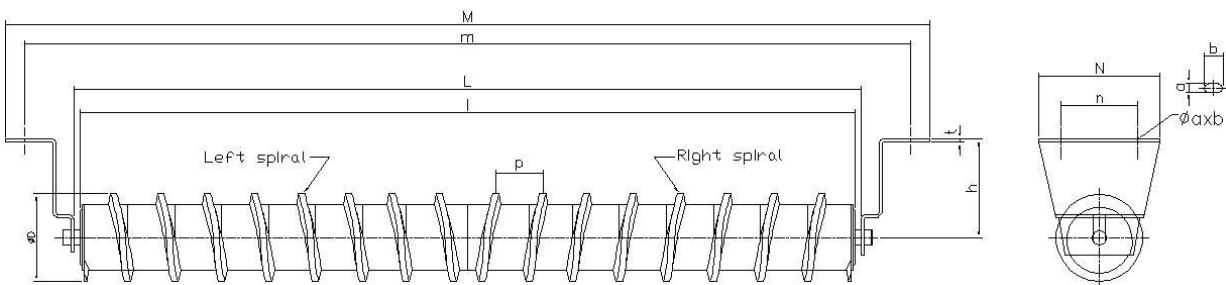
- ✓ Steel spiral return idlers possess good belt cleaning function to avoid bulk material adhering on the belt.

► Product Details

Unit: mm

MODEL	BELT WIDTH	FRAME										
		h	M	m	N	n	P	t	øD	I	L	axb
ZT-040-SRS	400	110	690	640	120	60	40	4.5	113	460	480	14x30
ZT-045-SRS	450	110	740	690	120	60	40	4.5	113	510	530	14x30
ZT-050-SRS	500	110	790	740	120	60	40	4.5	113	560	580	14x30
ZT-060-SRS	600	110	890	840	120	60	40	4.5	113	660	680	14x30
ZT-075-SRS-A/B	750	110	1090	1040	120	60	50	4.5	138/146	850	880	14x30
ZT-090-SRS-A/B	900	110	1240	1190	120	60	50	4.5	138/146	1000	1030	14x30
ZT-105-SRS	1050	130	1390	1340	170	100	60	6	172	1150	1180	14x30
ZT-120-SRS	1200	130	1540	1490	170	100	60	6	172	1300	1330	14x30
ZT-140-SRS	1400	160	1780	1730	200	120	65	6	197	1530	1550	18x30
ZT-160-SRS	1600	160	1980	1930	200	120	65	6	197	1730	1750	18x30
ZT-180-SRS	1800	160	2270	2220	200	120	65	6	197	2000	2040	18x30
ZT-200-SRS	2000	160	2470	2420	200	120	65	6	197	2200	2240	18x30

16 SPIRAL URETHANE RETURN IDLERS



► Product Features

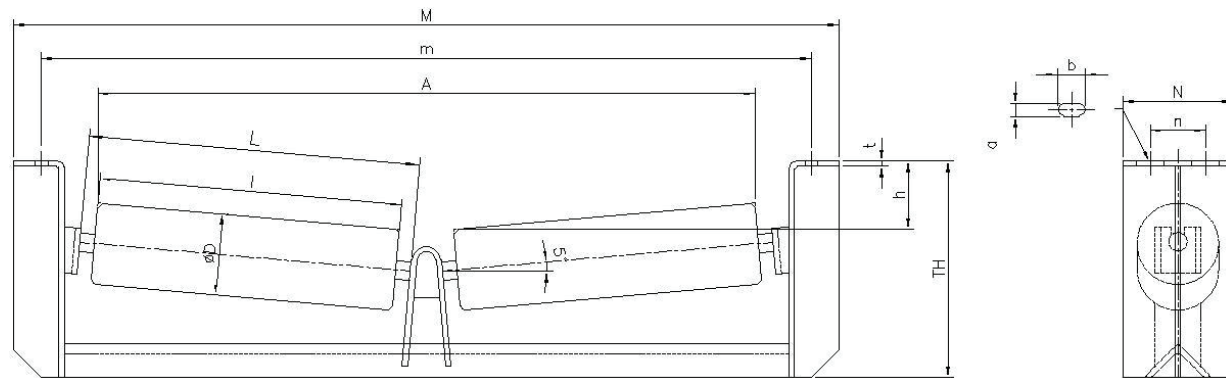
- ✓ Urethane spiral return idlers are designed to provide belt cleaning function by removing bulk material adhering on the belt by the spiral urethane. Wear-resistant urethane is adopted to clean the dirty side of the belt to avoid the belt damage without increasing of friction.

► Product Details

Unit: mm

MODEL	BELT WIDTH	FRAME										
		øD	M	h	m	l	L	N	n	P	t	axb
ZT-075-SRU	750	140	1090	110	1040	850	880	120	60	75	4.5	14x30
ZT-090-SRU	900	140	1240	110	1190	1000	1030	120	60	75	4.5	14x30
ZT-105-SRU	1050	166	1390	130	1340	1150	1180	170	100	90	6	14x30
ZT-120-SRU	1200	166	1540	130	1490	1300	1330	170	100	90	6	14x30
ZT-140-SRU	1400	166	1780	150	1730	1530	1550	200	120	90	6	18x30
ZT-160-SRU	1600	166	1980	150	1930	1730	1750	200	120	90	6	18x30
ZT-180-SRU	1800	166	2270	150	2220	2000	2040	200	120	90	6	18x30
ZT-200-SRU	2000	166	2470	150	2420	2200	2240	200	120	90	6	18x30

17 V-RETURN IDLERS



► Product Features

- ✓ V-return idlers, incorporating two smaller rollers, are designed to improve belt tracking for the belt on its way back to the loading zone after unloading.

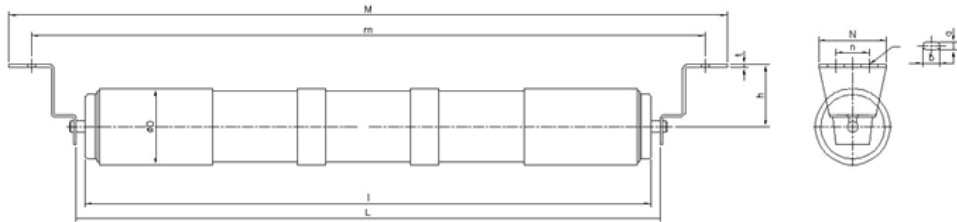
► Product Details

Unit: mm

MODEL	BELT WIDTH	h	TH	M	m	N	n	t	øD	A	l	L	axb
ZT-060-VR	600	75	237	900	840	120	60	6	89.1	717	330	360	14x30
ZT-075-VR	750	64	263	1100	1040	120	60	6	114.3	829	387	420	14x30
ZT-090-VR	900	65	276	1250	1190	120	60	6	114.3	968	457	490	14x30
ZT-105-VR	1050	65	297	1400	1340	160	100	6	139.8	1124	535	570	14x30
ZT-120-VR	1200	77	306	1550	1490	160	100	6	139.8	1283	615	650	14x30
ZT-140-VR	1400	97.5	369	1790	1730	190	120	9	165.2	1520	740	765	18x30
ZT-160-VR	1600	100.5	382	1990	1930	190	120	9	165.2	1719	840	865	18x30
ZT-180-VR	1800	103.5	406	2280	2220	190	120	9	165.2	1909	925	970	18x30
ZT-200-VR	2000	106.5	409	2480	2420	190	120	9	165.2	2108	1025	1070	18x30

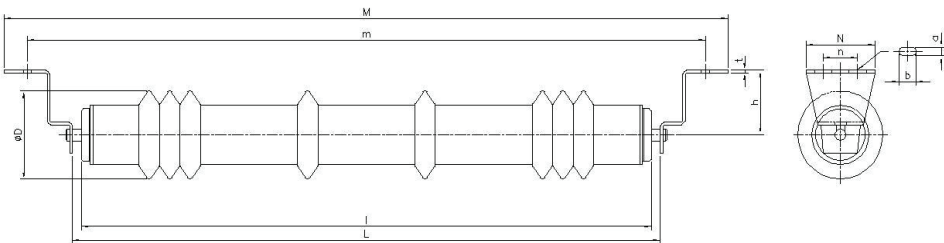
18 RUBBER DISC RETURN IDLERS (RD-TYPE)

Rubber disc return idler (RD-TYPE) with high friction rubber rings that can prevent dust from going into the belt return side and avoid any material adhering to the belt surface.



19 RUBBER CUSHION RETURN IDLERS (RR-TYPE)

Rubber cushion return idler (RR-type) are designed to have better load-cushion capability but also providing some cleaning effect. This idler is preferred when handling wet, sticky or corrosive material.

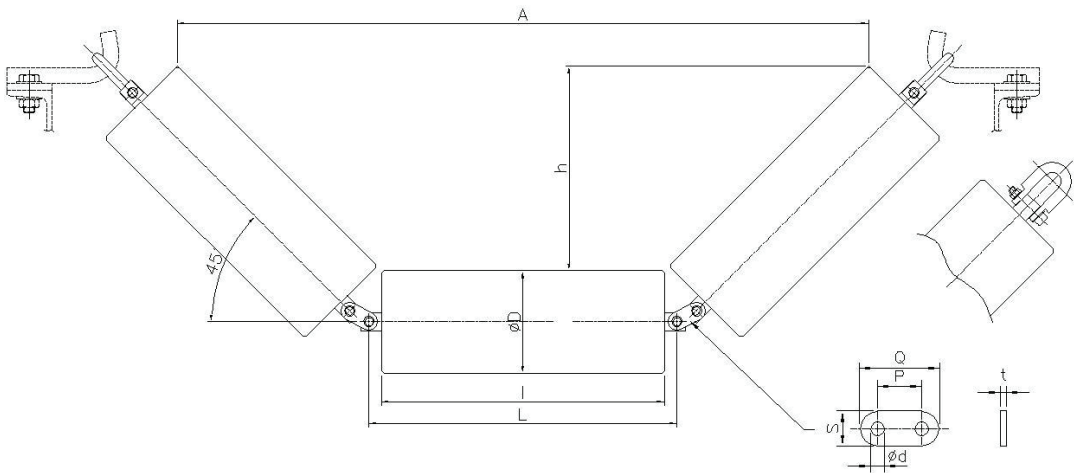


► Product Details

MODEL	BELT WIDTH	FRAME									
		øD	M	h	m	l	L	N	n	t	axb
ZT-040-RD/RR	400	110/140	690	110	640	460	480	120	60	4.5	14x30
ZT-045-RD/RR	450	110/140	740	110	690	510	530	120	60	4.5	14x30
ZT-050-RD/RR	500	110/140	790	110	740	560	580	120	60	4.5	14x30
ZT-060-RD/RR	600	110/140	890	110	840	660	680	120	60	4.5	14x30
ZT-075-RD/RR	750	135/150	1090	110	1040	850	880	120	60	4.5	14x30
ZT-090-RD/RR	900	135/150	1240	110	1190	1000	1030	120	60	4.5	14x30
ZT-105-RD/RR	1050	160/173	1390	130	1340	1150	1180	170	100	6	14x30
ZT-120-RD/RR	1200	160/173	1540	130	1490	1300	1330	170	100	6	14x30
ZT-140-RD/RR	1400	195/195	1780	160	1730	1530	1550	200	120	6	18x30
ZT-160-RD/RR	1600	195/195	1980	160	1930	1730	1750	200	120	6	18x30
ZT-180-RD/RR	1800	195/195	2270	160	2220	2000	2040	200	120	6	18x30
ZT-200-RD/RR	2000	195/195	2470	160	2420	2200	2240	200	120	6	18x30

Unit: mm

20 SUSPENDED CARRYING IDLERS



► Product Features

- ⊗ Suspended carrying idler consists of three rollers and linked by a robust chain. This design leads to greater flexibility and large bulk materials. By achieving higher belt speeds, load capacity and lower containment, some proven benefits such as less shut down time, lower installation and maintenance costs can be obtained.

► Product Details

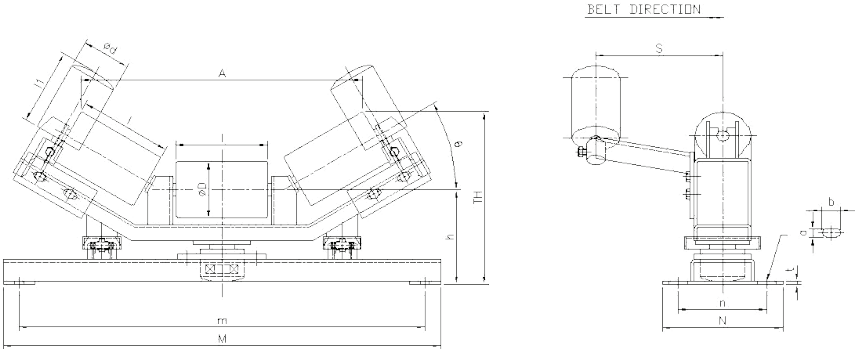
MODEL	BELT WIDTH	FRAME									
		$\theta=45^\circ$		øD	l	L	ød	Q	P	S	t
		h	A								
ZT-040-SUC	400	109	382	89.1	145	173	8	45	25	20	3
ZT-045-SUC	450	123	430	89.1	165	193	8	45	25	20	3
ZT-050-SUC	500	134	466	89.1	180	208	8	45	25	20	3
ZT-060-SUC	600	155	539	89.1	210	238	8	45	25	20	3
ZT-075-SUC	750	190	654	114.3	265	293	8	45	25	20	3
ZT-090-SUC	900	226	774	114.3	315	343	8	45	25	20	3
ZT-105-SUC	1050	264	904	139.8	370	400	10	62	31.75	30	4
ZT-120-SUC	1200	299	1025	139.8	420	450	10	62	31.75	30	4

Unit: mm

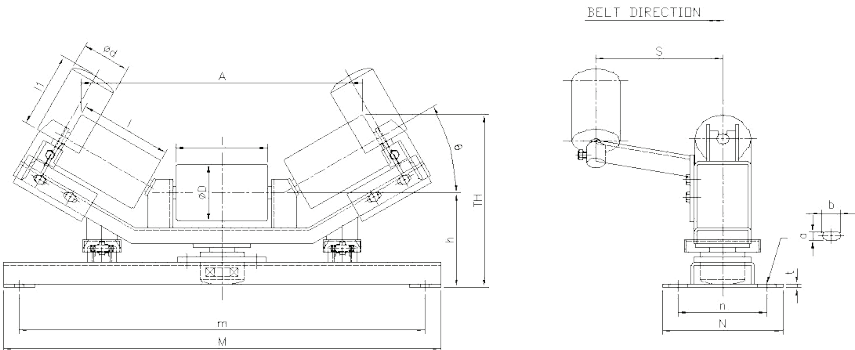
21 SELF-ALIGNING IDLERS (CTA)



CTA1



CTA2



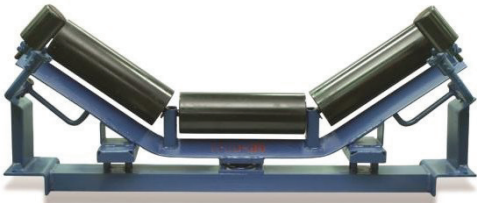
Product Features

- Self-aligning carrying idler with two side-guide-roller attached to the trough bracket, provides required self-alignment of belt reliably for wider belt. The free-turn troughing idler keeps belt running on center of the conveyor. It is also effective due to some poor training of the belt or unavoidable belt misalignment.

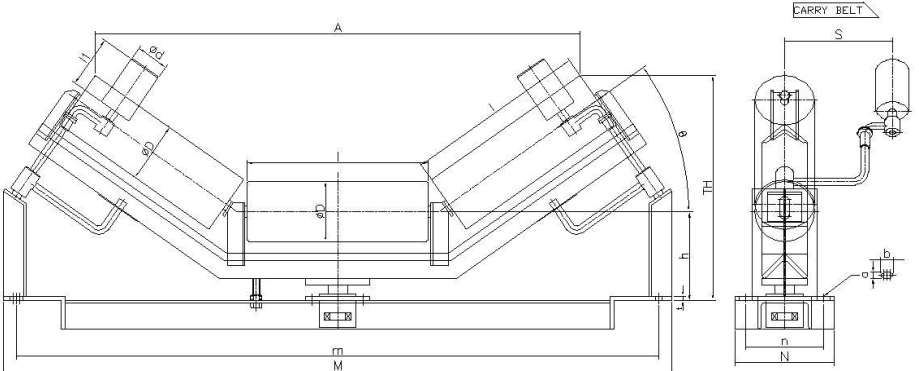
Product Details

MODEL	BELT WIDTH	θ										FRAME											
		20°		30°		35°		40°		45°		M	h	m	N	n	t	øD	l	ød	l1	S	axb
		TH	A	TH	A	TH	A	TH	A	TH	A												
ZT-040-CTA1	400	234	476	258	444	-	-	-	-	-	-	690	135	640	190	140	4.5	89.1	145	89.1	120	200	14x30
ZT-045-CTA1	450	211	534	268	498	-	-	-	-	-	-	740	135	690	190	140	4.5	89.1	165	89.1	120	200	14x30
ZT-050-CTA1	500	246	577	276	539	-	-	-	-	-	-	790	135	740	190	140	4.5	89.1	180	89.1	120	200	14x30
ZT-060-CTA1	600	272	663	306	621	-	-	-	-	-	-	890	150	840	200	150	6	89.1	210	89.1	120	200	14x30
ZT-075-CTA1	750	312	813	354	759	374	730	391	695	409	657	1090	160	1040	210	160	6	114.3	265	114.3	120	250	14x30
ZT-090-CTA1	900	329	957	379	895	403	862	424	821	444	778	1240	160	1190	210	160	6	114.3	315	114.3	120	250	14x30
ZT-105-CTA2	1050	391	1113	449	1040	477	1008	502	960	525	908	1390	190	1340	230	180	6	139.8	370	139.8	120	250	14x30
ZT-120-CTA2	1200	408	1257	474	1176	506	1140	534	1086	560	1029	1540	190	1490	230	180	6	139.8	420	139.8	120	250	14x30
ZT-140-CTA2	1400	517	1478	595	1382	633	1344	667	1281	700	1224	1795	260	1730	350	280	9	165.2	500	165.2	120	300	18x30
ZT-160-CTA2	1600	544	1709	635	1601	679	1555	718	1483	756	1417	1995	260	1930	350	280	9	165.2	580	165.2	120	300	18x30
ZT-180-CTA2	1800	598	1910	700	1792	749	1735	796	1678	837	1592	2285	290	2220	400	330	12	165.2	650	165.2	120	300	18x30
ZT-200-CTA2	2000	626	2141	740	2010	795	1946	848	1880	894	1785	2485	290	2420	400	330	12	165.2	730	165.2	120	300	18x30

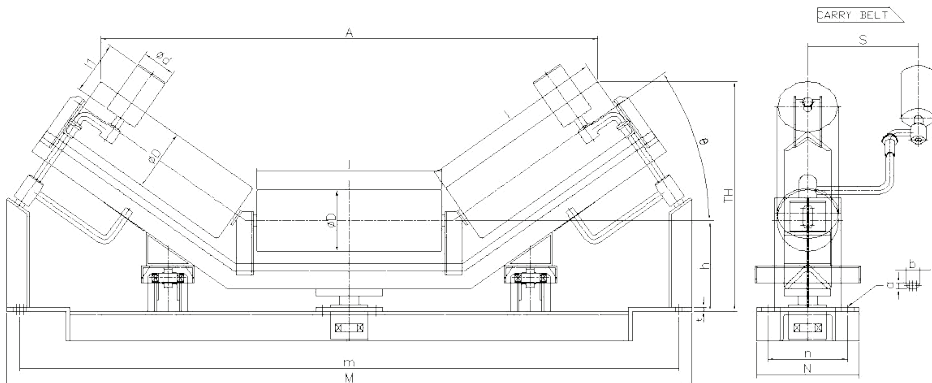
22 SELF-ALIGNING IDLERS (CTB)



CTB1



CTB2



Type CTB1 is recommended for BW900 and smaller BW but type CTB2 is recommended for BW1050 and larger BW.

Product Features

- Self-training carrying idler style CTB is similar to CTA but having side-guide-roll attached to bottom frame. Higher training capability can be obtained due to more sturdy guiding effect.

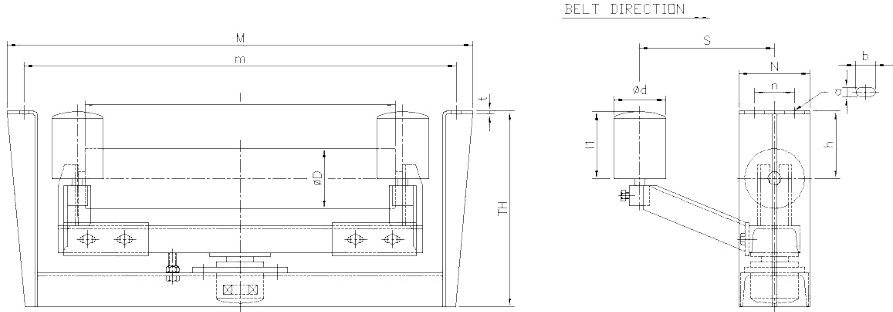
Product Details

MODEL	BELT WIDTH	θ										FRAME											
		20°		30°		35°		40°		45°		M	h	m	N	n	t	øD	l	ød	l1	S	axb
		TH	A	TH	A	TH	A	TH	A	TH	A												
ZT-075-CTB1	750	312	813	354	759	374	730	391	695	409	657	1100	160	1040	210	160	6	114.3	265	76.3	120	350	14x30
ZT-090-CTB1	900	329	957	379	895	403	862	424	821	444	778	1250	160	1190	210	160	6	114.3	315	76.3	120	350	14x30
ZT-105-CTB2	1050	391	1113	449	1040	477	1008	502	960	525	908	1400	190	1340	230	180	6	139.8	370	76.3	120	350	14x30
ZT-120-CTB2	1200	408	1257	474	1176	506	1140	534	1086	560	1029	1550	190	1490	230	180	6	139.8	420	76.3	120	350	14x30
ZT-140-CTB2	1400	517	1478	595	1382	633	1344	667	1281	700	1224	1790	260	1730	350	280	8	165.2	500	76.3	120	395	18x30
ZT-160-CTB2	1600	544	1709	635	1601	679	1555	718	1483	756	1417	1990	260	1930	350	280	8	165.2	580	76.3	120	395	18x30
ZT-180-CTB2	1800	598	1910	700	1792	749	1735	796	1678	837	1592	2280	290	2220	400	330	12	165.2	650	76.3	120	395	18x30
ZT-200-CTB2	2000	626	2141	740	2010	795	1946	848	1880	894	1785	2480	290	2420	400	330	12	165.2	730	76.3	120	395	18x30

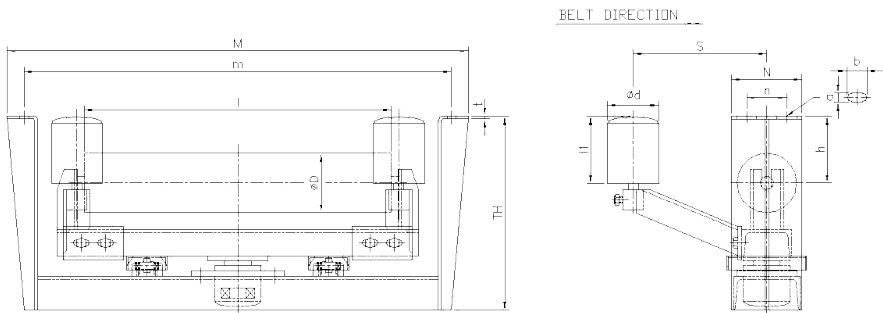
23 SELF- ALIGNING RETURN IDLERS (RTA)



RTA1



RTA2



Type RTA1 is recommended for BW900 and smaller BW but type RTA2 is recommended for BW1050 and larger BW.

► Product Features

- ✔ Self-aligning return idler type RTA, with similar function to type CTA on carry side, is designed for centering belt in the return run. Generally, type RTA idlers are installed every 15m.

► Product Details

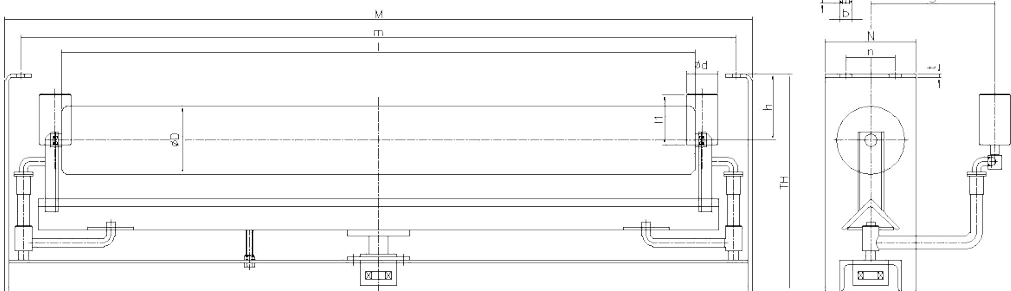
Unit: mm

MODEL	BELT WIDTH	ROLLER				FRAME								
		øD	l	ød	l1	h	m	M	N	n	TH	S	t	axb
ZT-040-RTA1	400	89.1	460	76.3	100	100	640	690	105	60	290	200	4	14x30
ZT-045-RTA1	450	89.1	510	76.3	100	100	690	750	105	60	290	200	4	14x30
ZT-050-RTA1	500	89.1	560	76.3	100	100	740	800	105	60	290	200	4.5	14x30
ZT-060-RTA1	600	89.1	660	76.3	100	100	840	900	105	60	290	200	4.5	14x30
ZT-075-RTA1	750	114.3	850	76.3	100	100	1040	1100	120	60	325	250	4.5	14x30
ZT-090-RTA1	900	114.3	1000	76.3	100	100	1190	1250	120	60	325	250	6	14x30
ZT-105-RTA2	1050	139.8	1150	76.3	100	120	1340	1400	185	100	390	250	6	14x30
ZT-120-RTA2	1200	139.8	1300	76.3	100	120	1490	1550	185	100	390	250	6	14x30
ZT-140-RTA2	1400	165.2	1530	76.3	100	150	1730	1800	220	120	496	300	8	18x30
ZT-160-RTA2	1600	165.2	1730	76.3	100	150	1930	2000	220	120	496	300	8	18x30
ZT-180-RTA2	1800	165.2	2000	76.3	100	150	2220	2290	220	120	551	300	12	18x30
ZT-200-RTA2	2000	165.2	2200	76.3	100	150	2420	2490	220	120	551	300	12	18x30

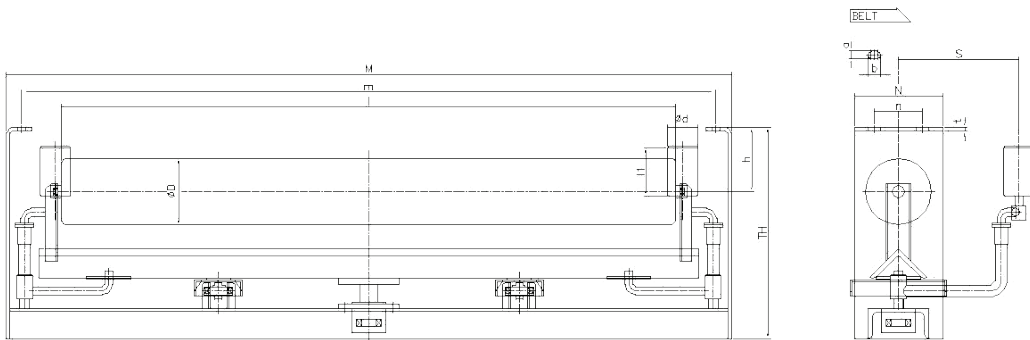
24 SELF- TRAINING RETURN IDLERS (RTB)



RTB1



RTB2



Type RTB1 is recommended for BW900 and smaller BW but type RTB2 is recommended for BW1050 and larger BW.

► Product Features

- ✔ Self-aligning return idler type RTB, with similar function to type CTB on carry side, is designed for centering belt in the return run. Generally, type RTB idlers are installed every 15m.

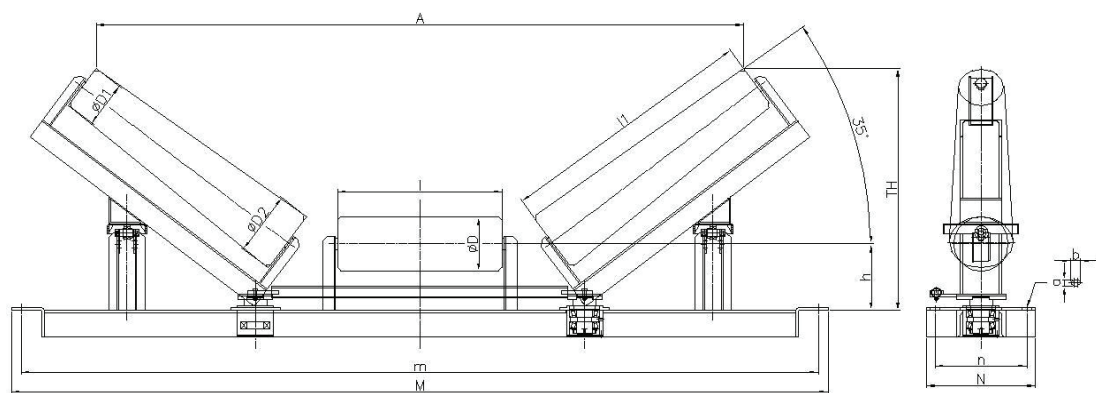
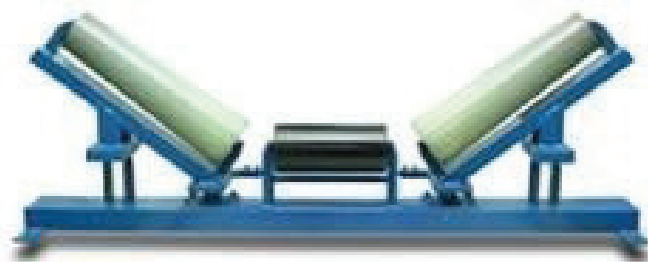
► Product Details

Unit: mm

MODEL	BELT WIDTH	ROLLER				FRAME								
		øD	l	ød	l1	h	m	M	N	n	TH	S	t	axb
ZT-075-RTB1	750	114.3	850	76.3	100	100	1040	1090	120	60	325	350	6	14x30
ZT-090-RTB1	900	114.3	1000	76.3	100	100	1190	1240	120	60	325	350	6	14x30
ZT-105-RTB2	1050	139.8	1150	76.3	100	120	1340	1400	185	100	390	350	6	14x30
ZT-120-RTB2	1200	139.8	1300	76.3	100	120	1490	1550	185	100	390	350	6	14x30
ZT-140-RTB2	1400	165.2	1530	76.3	100	150	1730	1800	220	120	496	395	9	18x30
ZT-160-RTB2	1600	165.2	1730	76.3	100	150	1930	2000	220	120	496	395	9	18x30
ZT-180-RTB2	1800	165.2	2000	76.3	100	150	2220	2290	220	120	551	395	12	18x30
ZT-200-RTB2	2000	165.2	2200	76.3	100	150	2420	2490	220	120	551	395	12	18x30

25

BI-DIRECTION SELF-ALIGNING IDLERS (CTC)



► Product Features

- ✓ Bi-direction Self-aligning idler is designed for centering the running belt of reverse conveyor through troughing conical idler. By continuous adjustment of speed difference at various contact point of the conical idler roller, the running belt bias can be corrected successfully without any side-guide-roller.

► Product Details

MODEL	BELT WIDTH	FRAME								ROLLER			CENTER ROLLER		axb
		M	TH	h	A	m	N	n	t	ØD1	ØD2	l1	D	I	
ZT-075-CTC	750	1100	388	150	730	1040	210	160	7	100	144.8	7	114.3	150	14x30
ZT-090-CTC	900	1250	417	150	862	1190	210	160	9	100	151.7	9	114.3	150	14x30
ZT-105-CTC	1050	1400	491	180	1008	1340	230	180	9	100	160.1	9	139.8	210	14x30
ZT-120-CTC	1200	1550	520	180	1140	1490	230	180	9	100	170	9	139.8	210	14x30
ZT-140-CTC	1400	1790	660	250	1344	1730	350	280	9	140	180.5	9	165.2	300	18x30
ZT-160-CTC	1600	1990	706	250	1555	1930	350	280	9	140	186.1	9	165.2	340	18x30
ZT-180-CTC	1800	2280	776	280	1735	2220	400	330	9	140	191	9	165.2	370	18x30
ZT-200-CTC	2000	2480	822	280	1946	2420	400	330	9	140	195.9	9	165.2	410	18x30

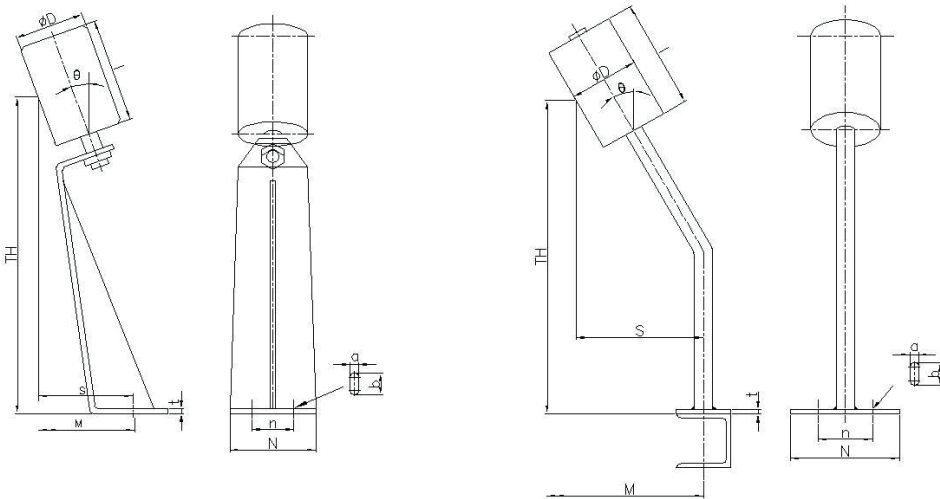
26

SIDE GUIDE IDLERS



GA-TYPE

GB-TYPE



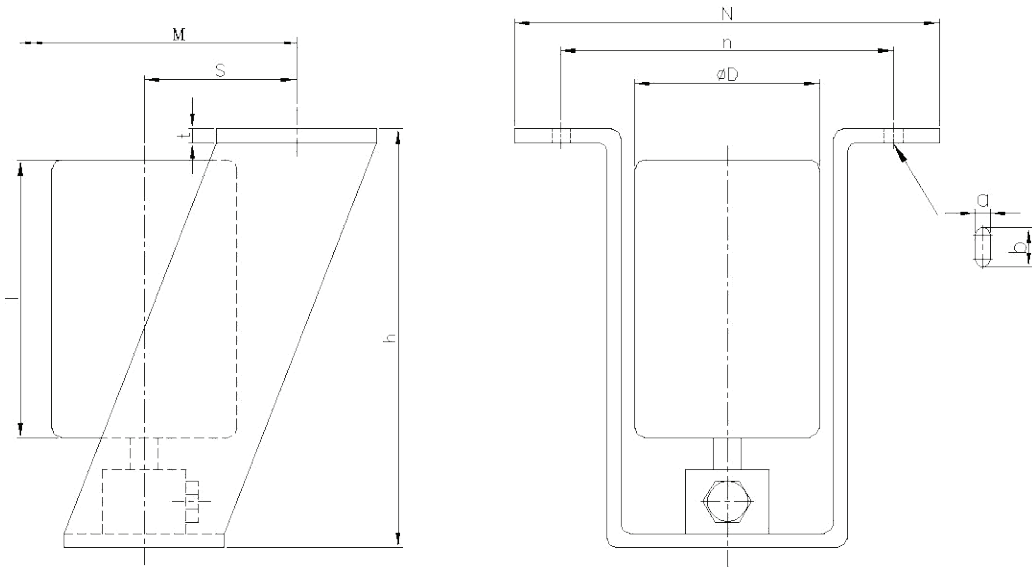
► Product Features

- ✓ These idlers are designed to prevent sudden improper contact between belt and idler frame without any training effect on the off-center running belt. The idlers are generally supplementary set along carrying idlers to guide movement of the belt.

► Product Details

MODEL	BELT WIDTH	θ										FRAME						
		20°		30°		35°		40°		45°		M	t	N	n	øD	I	axb
		TH	S	TH	S	TH	S	TH	S	TH	S							
ZT-040-C GA/GB	400	224	90	248	105	-	-	-	-	-	-	640	4.5	120	60	76.3	120	14x30
ZT-045-C GA/GB	450	231	90	258	105	-	-	-	-	-	-	690	4.5	120	60	76.3	120	14x30
ZT-050-C GA/GB	500	236	90	266	105	-	-	-	-	-	-	740	4.5	120	60	76.3	120	14x30
ZT-060-C GA/GB	600	262	90	296	105	-	-	-	-	-	-	840	4.5	120	60	76.3	120	14x30
ZT-075-C GA/GB	750	302	125	344	140	364	150	381	170	399	185	1040	4.5	120	60	76.3	120	14x30
ZT-090-C GA/GB	900	319	125	369	140	393	150	414	170	434	185	1190	4.5	120	60	76.3	120	14x30
ZT-105-C GA/GB	1050	381	125	439	140	467	160	492	185	515	205	1340	6	170	100	89.1	150	14x30
ZT-120-C GA/GB	1200	398	125	464	140	496	160	524	185	550	205	1490	6	170	100	89.1	150	14x30
ZT-140-C GA/GB	1400	507	135	585	170	623	190	657	215	690	240	1730	8	200	120	89.1	150	18x30
ZT-160-C GA/GB	1600	534	135	625	170	669	190	708	215	746	240	1930	8	200	120	89.1	150	18x30
ZT-180-C GA/GB	1800	588	160	690	210	739	230	786	250	827	295	2220	8	200	120	89.1	150	18x30
ZT-200-C GA/GB	2000	616	160	730	210	785	230	838	250	884	295	2420	8	200	120	89.1	150	18x30

27 RETURN GUIDE IDLERS



► Product Features

- ✓ The idler is designed to prevent sudden improper contact between belt and idler frame without any training effect on the off-center running belt. The idlers are generally supplementary set along carrying idlers to guide movement of the belt.

► Product Details

Unit: mm

MODEL	BELT WIDTH	ROLLER		FRAME						
		øD	l	h	M	N	n	S	t	axb
ZT-040-RG	400	76.3	100	150	640	200	150	55	4.5	14x30
ZT-045-RG	450	76.3	100	150	690	200	150	55	4.5	14x30
ZT-050-RG	500	76.3	100	150	740	200	150	55	4.5	14x30
ZT-060-RG	600	76.3	100	150	840	200	150	55	6	14x30
ZT-075-RG	750	76.3	100	150	1040	200	150	55	6	14x30
ZT-090-RG	900	76.3	100	150	1190	200	150	55	6	14x30
ZT-105-RG	1050	76.3	120	185	1340	200	150	55	6	14x30
ZT-120-RG	1200	76.3	120	185	1490	200	150	55	6	14x30
ZT-140-RG	1400	89.1	130	205	1730	200	150	50	6	18x30
ZT-160-RG	1600	89.1	130	205	1930	200	150	50	6	18x30
ZT-180-RG	1800	89.1	130	205	2220	200	150	50	6	18x30
ZT-200-RG	2000	89.1	130	205	2420	200	150	50	6	18x30

