

The Greatest Masterpiece of Roller : **ROLLENT**

THE GREATEST MASTERPIECE OF ROLLER

ROLLENT



ROLLENT
Daeyang Rollent Co., Ltd.

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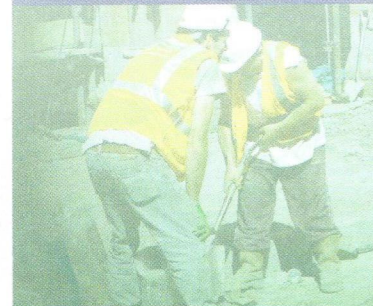
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DAEYANG ROLLENT CO., LTD.



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Certificate of Registration

This certificate has been awarded to

Dae Yang Rollent Co., Ltd.
814, 3ma Shihwa-Industrial Complex, Jungwang-dong,
Siheung-si, Gyeonggi-do, Korea

in recognition of the organization's Quality Management
System which complies with

ISO 9001:2008

The scope of activities covered by this certificate is defined below

**Design, Production and Servicing of Rollers and
Other Associated Products**

Certificate Number: 03698/A/0001/UK/En

Date of Issue: 13 August 2001
(Original Certificate)

Date of Issue: 02 June 2010

Issue No: 7

Expiry Date: 01 June 2013

Issued by:

On behalf of the
Schemes Manager



If there is any doubt as to the authenticity of this certificate,
please do not hesitate to contact the Head Office of the Group on info@ros-group.com
URS is a member of Registrar of Standards (Holdings) Limited, Washington House, 3 Durley Road, Bournemouth, BH2 5JQ. UK

Selection criteria for Daeyang Idler Rollers

- Shaft diameters must be large enough to limit angular deflection at bearings to within bearing supplier recommendations.
- Design of seals must prevent ingress of dirt and water vapour to the bearing cavity.
- Utilise rollers with the minimum external seal gap.
- Choose rollers with large grease cavity.
- Select the roller with a low mass of rotating parts.
- Choose rollers where shell ends are integral with the shell and are pocket-free.
- Maximum performance is achieved where the roller load capacities of shells, shell ends, and bearings are balanced.
- Ensure minimum run-out to prevent vibration transmission to belt.
- Provided for vibration-free running and future capacity increases by selecting high balance rollers.
- Belt protection is enhanced by selecting rollers with well-rounded corners.
- All components of the idler are expected to run for millions of revolutions and should be precision made to closest possible tolerances.
- Utilise precision ball bearings to retain grease and give long maintenance free life.

Self Cleaning

The inverted angle base frame has a self cleaning action by virtue of its sloping upper surfaces. This feature eliminates the possibility of rolls jamming due to material build up.

Welding

Jig welding of the base frames ensures slotted mounting brackets are accurately aligned. This has the effect of reducing installation costs and belt wear. All roll supports are welded to provide smooth weld surfaces for the application of protective coatings. Welds are cleaned prior to surface treatment.

Blasting

All frames and brackets are shot blasted prior to surface treatment. This process removes mill scale and any oil and grease to ensure good coverage and adhesion of the galvanized surface coating.

Inspection

All frames are inspected prior to commencing the welding run to confirm accuracy of major dimensions. Selected frames are removed from the productions run at intervals and subjected to full dimension checks and weld quality inspection.

DAEYANG IDLER STANDARD DATA

Unless otherwise agreed Daeyang idlers will be supplied to the standards listed below. These standards have been developed over 40 years of research and experience in conveyor design to suit customer requirements. The resulting product is technically and commercially sound, and is designed to virtually eliminate the need for maintenance. Our certification body is UNITED URS and the Quality controls and systems are in place in accordance with I.S.O. 9001 – 2000 & KSA 2001.

IDLER MOUNTING CENTERS

To generally conform with ISO 1535 and accepted Australian practice, the mounting hole centers listed in the dimensional tables are based on:-

- BELT WIDTH + 250 mm for belts up to and including 1200 mm.
- BELT WIDTH + 300 mm for belts over 1200 mm up to and including 1500 mm.
- BELT WIDTH + 400 mm for belts 1600 mm and over.

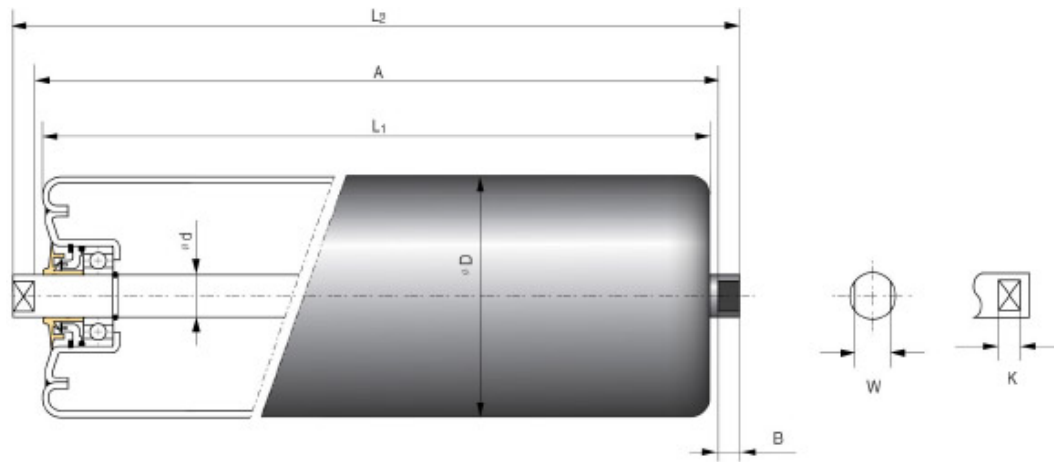
Mounting slots are sized throughout the range to suit M12 bolts.
 We also recommend the use of M12 flat washers for attachment to the structure.

DAEYANG ROLL CHARACTERISTICS

	Roll Dia.	Bearing	Bearing Dynamic	C.E.M.A. Rating
		Designation	Capacity	
	114	6205	14.0 kN	C4 1/2
	102	6204	12.7 kN	C4
	114	6204	12.7 kN	C4 1/2
	127	6204	12.7 kN	C5
	127	6205	14.0 kN	C5
	152	6205	14.0 kN	C6
	127	6305	22.5 kN	C5
	152	6305	22.5 kN	C6
	152	6306	28.1 kN	E6
	178	6306	28.1 kN	E7
	152	6307	33.2 kN	E6 plus
	178	6307	33.2 kN	E7 plus
	152	6308	41.0 kN	super 6
	152	6309	52.7 kN	super 6+
	178	6308	41.0 kN	super 7
	178	6309	52.7 kN	super 7+

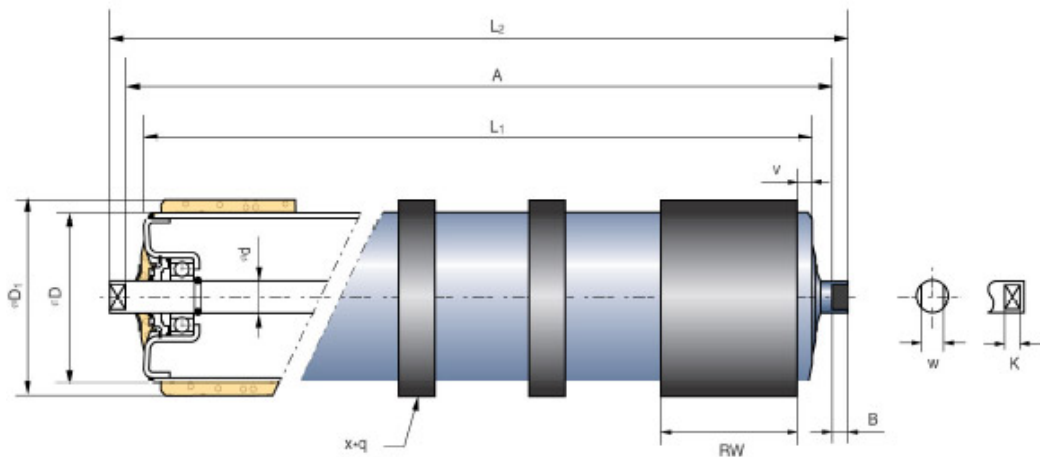
Unique Carrier Roller

DAEYANG ROLLENT Co., Ltd.



Rubber Disc Return Roller

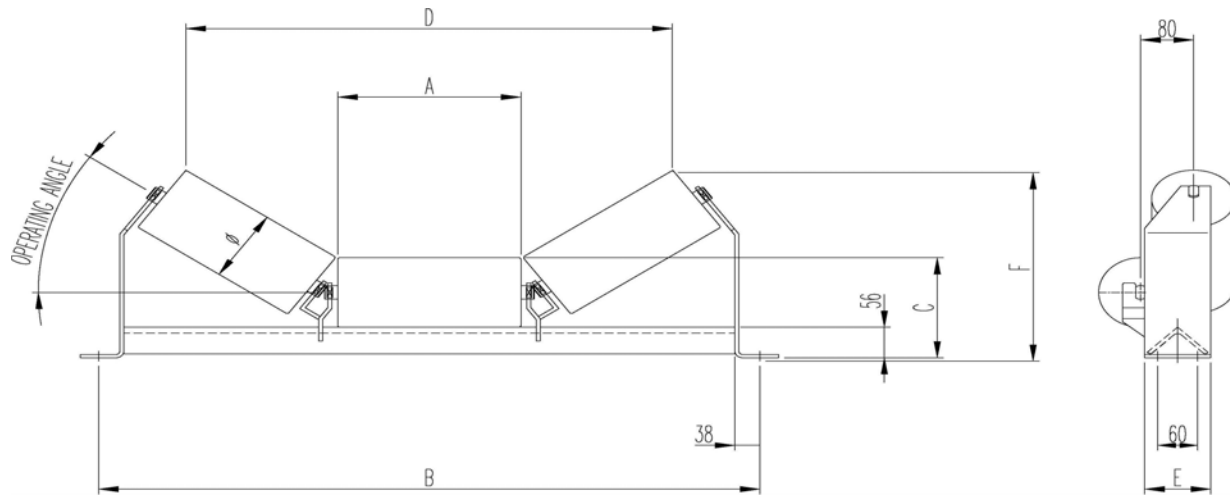
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TYPICAL MANUFACTURING TOLERANCES.

Nominal O.D. of Roll - Steel Shell	+/- 0.3 mm	Roll corner radius:	3.0 mm minimum
Rubber Disc	+/- 0.8 mm	Corner weld penetration:	80% minimum
Thickness of Steel shell:	+/- 0.5 mm	Total Indicator Reading (T.I.R.) Run out max.	
Roll face length:	+/- 1.5 mm	Over steel shell: Up to 750 mm long:	0.50 mm
Center roll height above base line	+/- 2.0 mm	Above 750 mm long:	0.0007 x length
Transverse hole centers:	+/- 2.0 mm	Out of balance: Standard rolls -	0.056 Nm
Longitudinal hole centers:	+/- 2.0 mm	Weighing rolls -	0.014 Nm
Return bracket drop height:	+/- 2.0 mm	Angular deflection at bearing under full load	10 min.
Trough angle:	+/- 1°		

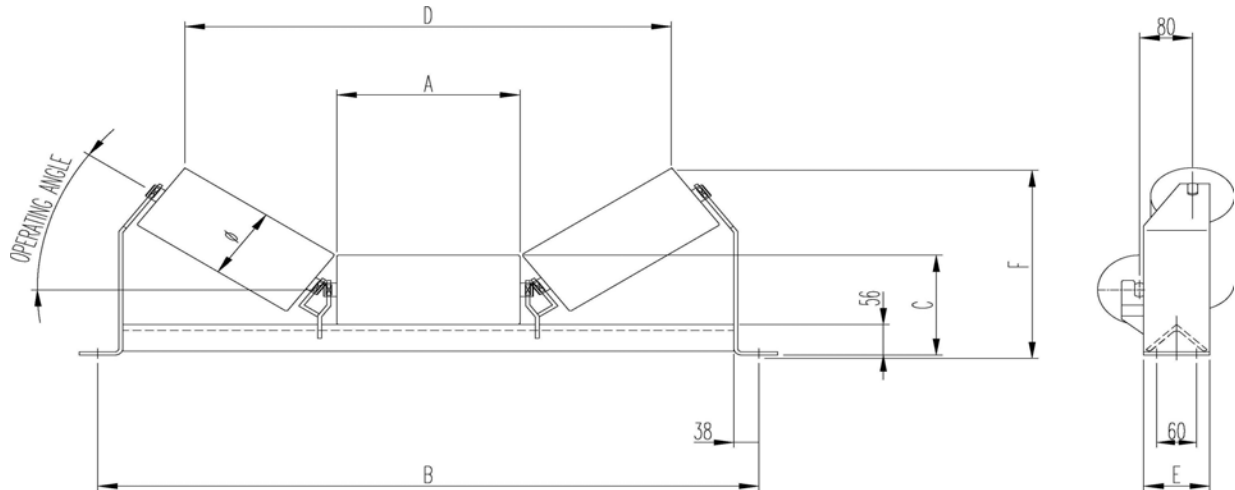
102 dia rollers Offset frames



102 dia roller 20 mm shaft 14 mm slot 6204 bearing

PART NUMBER	A	B	20 °		30 °		35 °		45 °		E	F	MASS Kgs.	
			C	D	C	D	C	D	C	D			R.P	TOTAL
CR-500-190-102	190	750	236	587	264	538	267	513	304	470	60	169	4.8	14.3
CR-600-223-102	223	850	248	683	282	634	296	605	329	554	60	169	5.4	16.8
CR-650-245-102	245	900	255	740	292	689	308	658	343	603	60	169	5.7	16.7
CR-750-277-102	277	1000	266	838	309	782	327	748	367	685	60	169	6.3	18.3
CR-800-295-102	295	1050	272	884	317	825	337	790	378	723	60	169	6.6	20
CR-900-330-102	330	1150	285	919	335	926	358	887	404	813	60	169	7.5	21.6
CR-1000-359-102	359	1250	294	1068	349	1000	373	959	423	878	60	169	7.8	26.1
CR-1050-380-102	380	1300	302	1149	361	1069	388	1025	441	938	60	169	8.4	27.1
CR-1200-436-102	436	1450	320	1293	388	1213	418	1164	479	1066	60	169	9.3	30

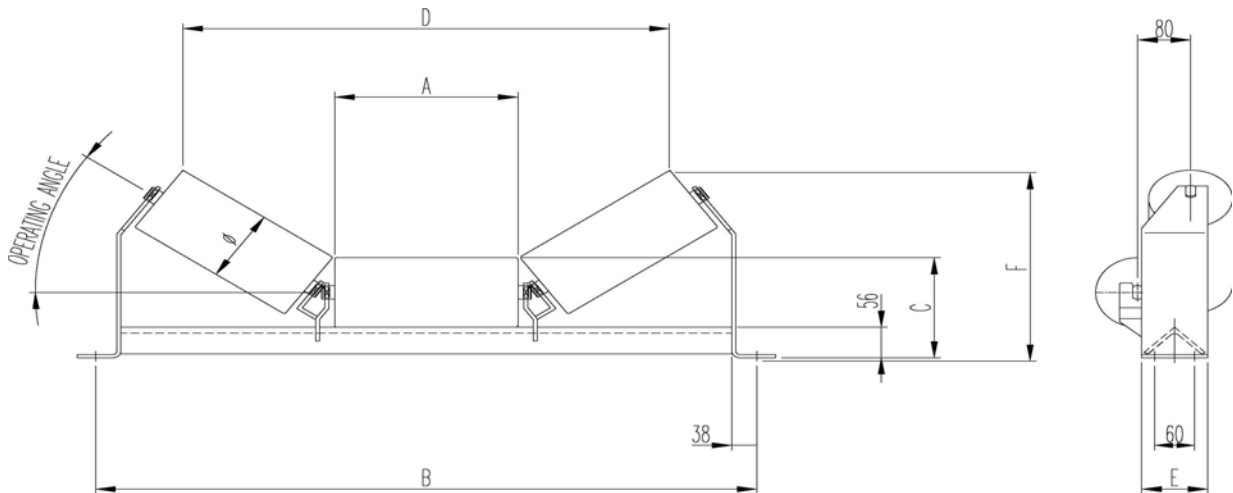
114 dia rollers Offset frames



114 dia roller 20 mm shaft 14 mm slot 6204 bearing
114 dia roller 25mm slot 14 mm slot shaft 6205 bearing

PART NUMBER	A	B	20 °		30 °		35 °		45 °		E	F	MASS Kgs.	
			C	D	C	D	C	D	C	D			R.P	TOTAL
CR-500-190-114	190	750	242	581	270	535	282	508	309	464	60	175	6.3	15.8
CR-600-223-114	224	850	254	680	288	631	302	601	334	548	60	175	7.2	17.6
CR-650-245-114	245	900	261	739	298	685	314	653	348	596	60	175	7.5	18.5
CR-750-277-114	277	1000	273	837	315	778	333	743	372	678	60	175	8.4	20.4
CR-800-295-114	295	1050	278	883	323	822	342	785	383	717	60	175	8.7	22.1
CR-900-330-114	330	1150	291	989	341	923	364	883	410	806	60	175	9.6	24
CR-1000-359-114	358	1250	300	1067	355	997	379	954	429	872	60	175	10.2	28.5
CR-1050-380-114	380	1300	308	1139	367	1065	393	1020	446	932	60	175	10.8	29.8
CR-1200-436-114	436	1450	327	1292	394	1210	424	1160	484	1060	60	175	12.3	33

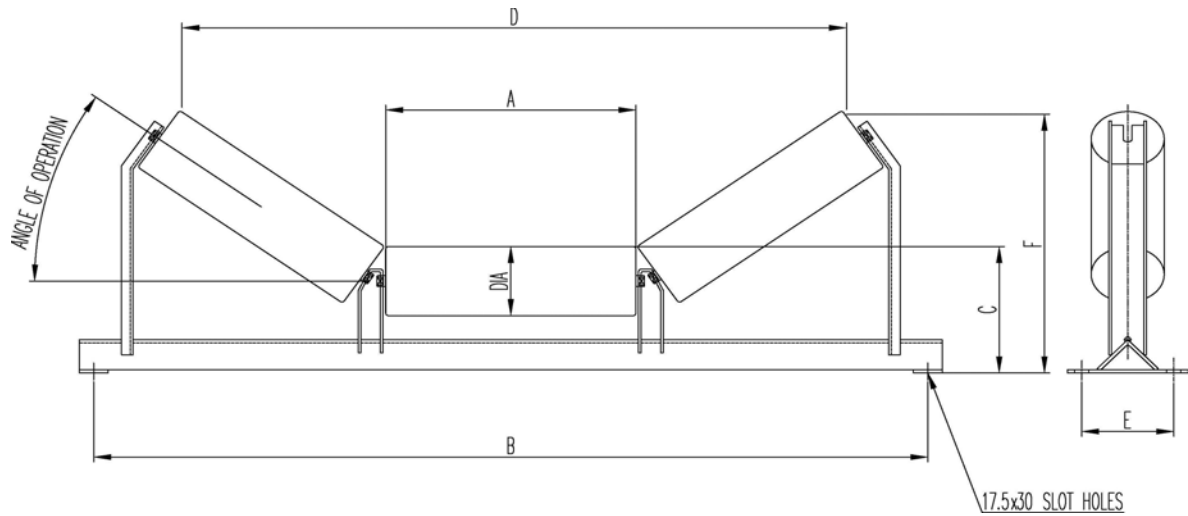
127 dia rollers Offset frames



127 dia roller 6205 bearing

PART NUMBER	A	B	20 °		30 °		35 °		45 °		E	F	MASS Kgs.	
			C	D	C	D	C	D	C	D			R.P	TOTAL
CR-500-190-127	190	750	250	577	278	528	290	500	316	453	60	183	7.5	18.2
CR-600-223-127	223	850	262	677	295	624	310	593	341	538	60	183	8.4	20.3
CR-650-245-127	245	900	269	735	305	679	321	645	355	586	60	183	9	21.2
CR-750-277-127	277	1000	281	833	322	771	341	735	379	668	60	183	9.9	23.4
CR-800-295-127	295	1050	286	879	330	815	350	777	390	707	60	183	10.5	25.1
CR-900-330-127	330	1150	299	985	349	916	371	875	416	796	60	183	11.4	27.3
CR-1000-359-127	360	1250	308	1063	362	990	387	946	435	861	60	183	12.3	31.5
CR-1050-380-127	380	1300	317	1135	375	1058	401	1012	453	921	60	183	12.9	33.1
CR-1200-436-114	436	1450	335	1288	401	1203	431	1152	491	1049	60	183	14.4	36.6

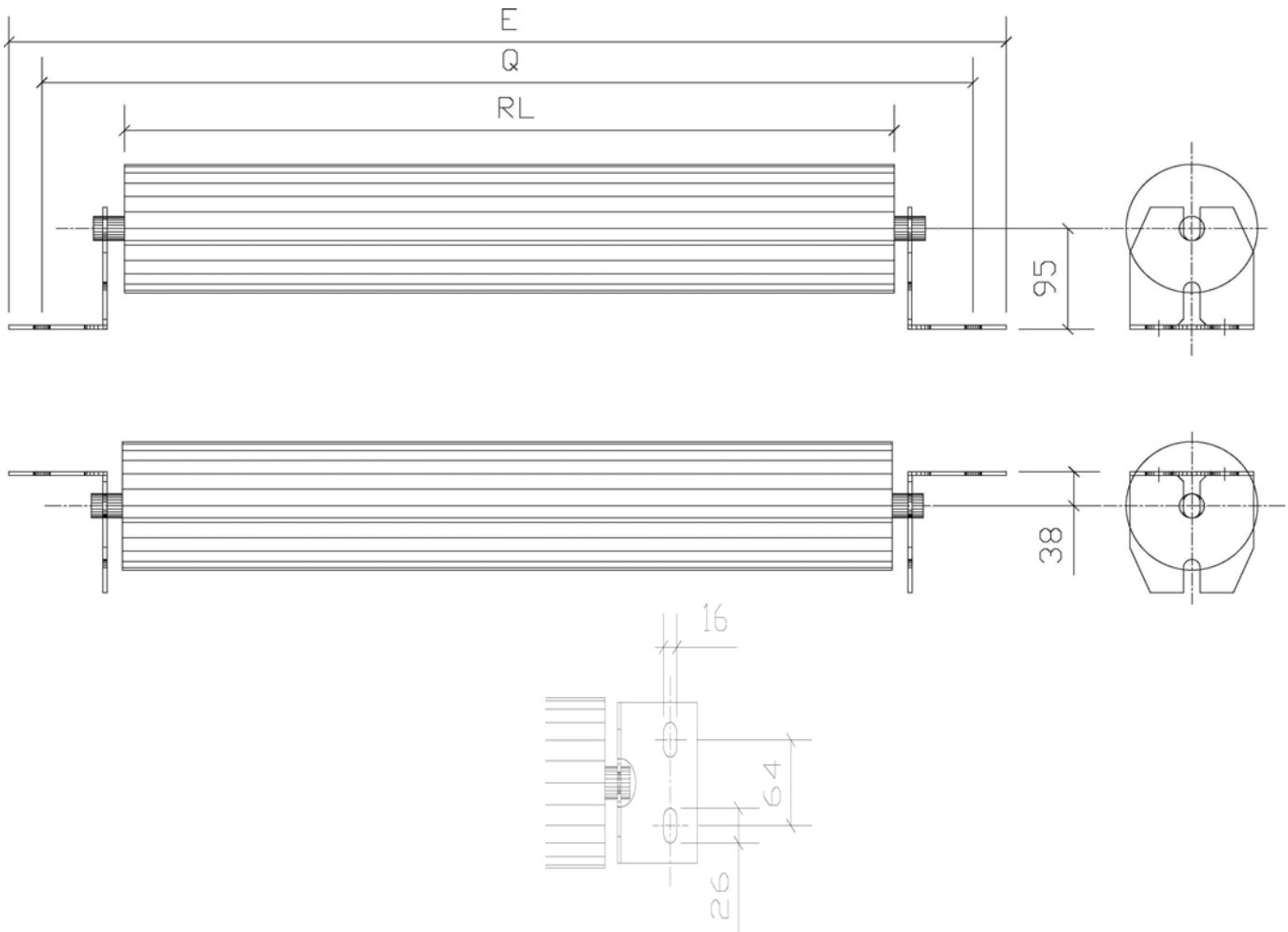
127 Dia Rollers Inline frames



127 dia roller 6205 bearing

PART NUMBER	A	B	20 °		30 °		35 °		45 °		E	F	MASS Kgs.	
			C	D	C	D	C	D	C	D			R.P	TOTAL
CR-500-190-127	190	750	275	606	303	565	317	541	340	492	140	205	7.5	20.3
CR-600-223-127	223	850	286	770	320	606	337	633	365	577	140	205	8.4	22.4
CR-650-245-127	245	900	293	764	330	715	348	686	379	625	140	205	9	23.3
CR-750-277-127	277	1000	305	862	347	808	368	776	403	707	140	205	9.9	25.4
CR-800-295-127	295	1050	317	908	362	852	384	818	422	746	150	212	10.5	27.2
CR-900-330-127	330	1150	330	1015	381	953	405	915	448	835	150	212	11.4	29.5
CR-1000-359-127	360	1250	348	1092	403	1026	430	986	476	900	165	221	12.3	34.3
CR-1050-380-127	380	1300	357	1164	416	1095	444	1053	494	960	165	221	12.9	36
CR-1200-436-127	436	1450	386	1317	453	1240	485	1192	542	1088	180	232	14.4	41.6
CR-1350-490-127	490	1650	404	1467	479	1382	515	1330	539	1214	180	232	15.9	45.7
CR-1400-496-127	496	1700	414	1484	490	1398	527	1345	591	1228	200	240	15.9	53.7
CR-1500-543-127	543	1800	430	1619	514	1526	554	1469	624	1342	200	240	17.1	57
CR-1600-563-127	563	2000	457	1677	544	1581	585	1522	658	1390	240	260	17.7	70.6
CR-1800-627-127	627	2200	479	1861	576	1756	622	1691	704	1545	240	260	19.5	79

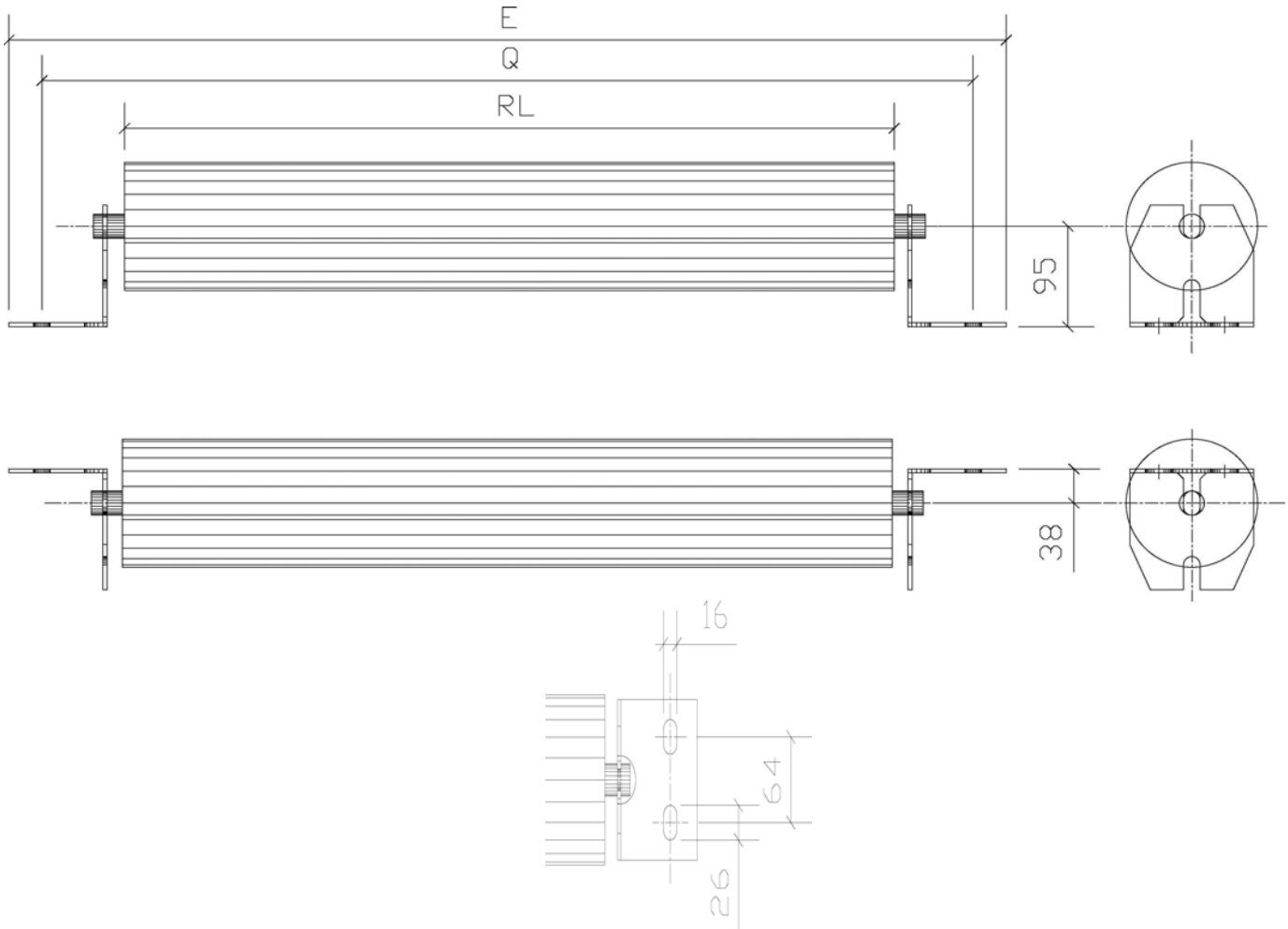
Return rollers & Brackets
102 dia roller 20 mm shaft 6204 bearing



P/N	RL	Q	E
RR 500-595-102-20	595	750	806
RR 600-643-102-20	643	850	906
RR 650-745-102-20	745	900	956
RR 750-843-102-20	843	1000	1056
RR 800-893-102-20	893	1050	1106
RR 900-993-102-20	993	1150	1206
RR 1000-1093-102-20	1093	1250	1306
RR 1050-1143-102-20	1143	1300	1356
RR 1200-1293-102-20	1293	1450	1506

Return rollers & Brackets

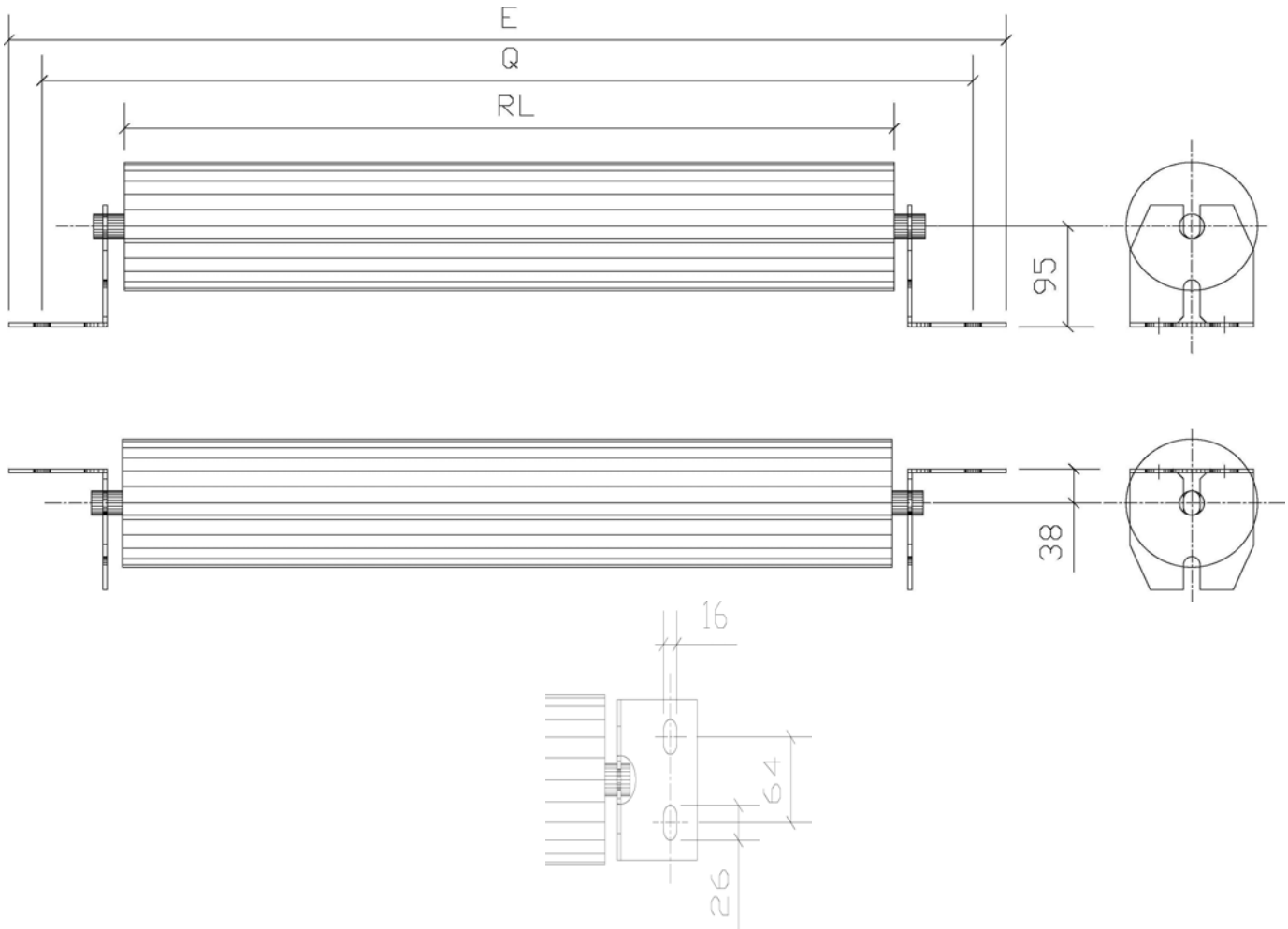
114 dia roller 20 mm shaft 6204 bearing



P/N	RL	Q	E
RR 500-595-114-20	595	750	806
RR 600-643-114-20	643	850	906
RR 650-745-114-20	745	900	956
RR 750-843-114-20	843	1000	1056
RR 800-893-114-20	893	1050	1106
RR 900-993-114-20	993	1150	1206
RR 1000-1093-114-20	1093	1250	1306
RR 1050-1143-114-20	1143	1300	1356
RR 1200-1293-114-20	1293	1450	1506
RR 1350-1496-114-20	1496	1600	1656
RR 1400-1546-114-20	1546	1650	1706

Return rollers & Brackets

127 dia roller 25 mm shaft 6205 bearing



P/N	RL	Q	E
RR 500-595-127-25	595	750	806
RR 600-643-127-25	643	850	906
RR 650-745-127-25	745	900	956
RR 750-843-127-25	843	1000	1056
RR 800-893-127-25	893	1050	1106
RR 900-993-127-25	993	1150	1206
RR 1000-1093-127-25	1093	1250	1306
RR 1050-1143-127-25	1143	1300	1356
RR 1200-1293-127-25	1293	1450	1506
RR 1350-1496-127-25	1496	1600	1656
RR 1400-1546-127-25	1546	1650	1706