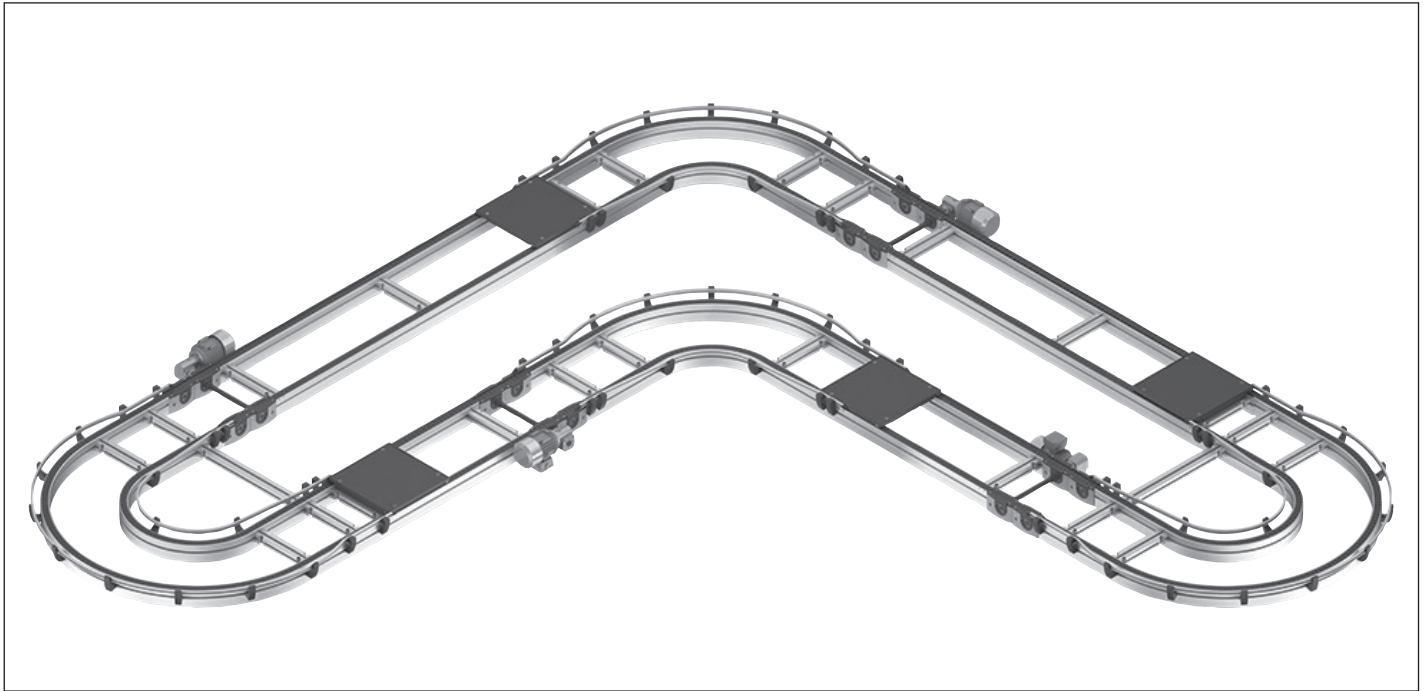


KU 2/O-... curve arcs



The construction principle of KU 2/O curves with the flat top chain conveyor medium allows smooth integration into longer conveyor units driven by a single drive.

In order to mount such units, the KU 2/O curve arcs are offered without the conveyor medium, and drive and return heads. The following guidelines must be taken into account when designing sections with integrated curves.

The AS 2/...-C and UM 2/...-C on the conveyor units can be used for driving and returning purposes.

The overall length of the flat top chain results from the sum of the required length of the conveyor belt for each component.

Drive layout

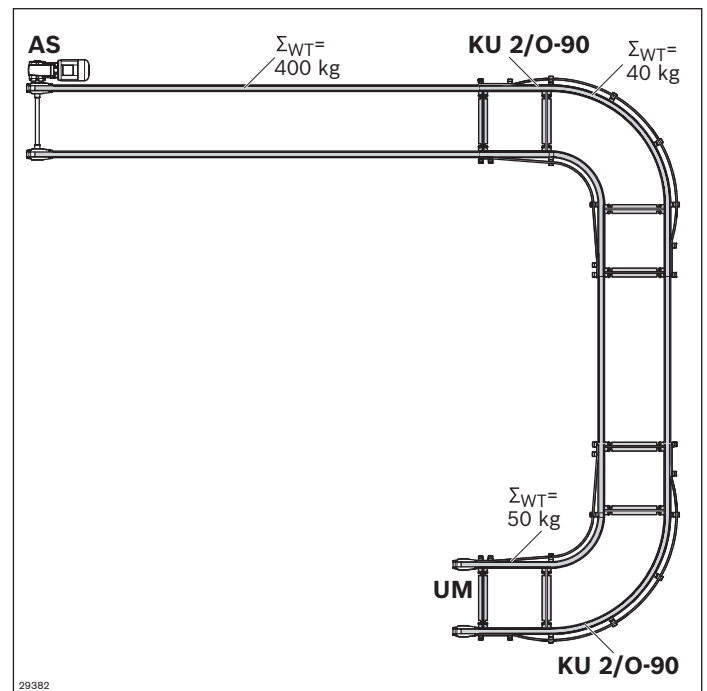
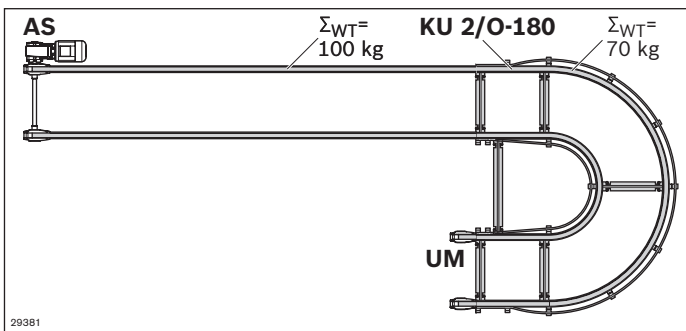
Each change in the direction of the conveyor medium on the transport level, such as with KU 2 curves, results in a loss through friction which must be offset by the drive. This increase in stress on the drive is taken into account by the curve factor. Multiplying the workpiece pallet load that arises before the curve with the curve factor results in the necessary load carrying capacity of the drive. The curve factor is 1.5 for every 90° curve angle.

The following applies as a general guideline:

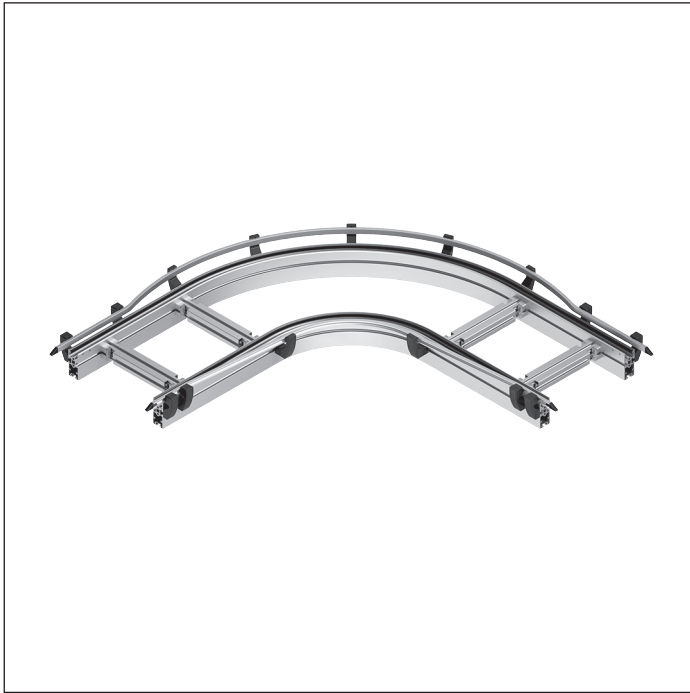
- For each AS 2/C drive module, max. 2x curve arc of 90° or max. 1x curve arc of 180°
- Mount curve arc directly on a UM 2/C-170 return unit
- For permitted total workpiece pallet weights in a 90° curve arc: 90 kg
- 180° curve arc: 70 kg

- The workpiece pallet loads before and in a 180° curve is 70 kg and an additional 100 kg after the curve. From this arises the minimum required load capacity of $(70 \text{ kg} * 1.5 * 1.5) + 100 \text{ kg} = 257.5 \text{ kg}$. The AS 2/C-400 drive module must be selected for this section.

- The workpiece pallet loads before and in the first 90°curve are 50 kg before and in the second 90°curve, another 40 kg before and in the second 90°curve, and another 40 kg after the second curve. From this arises the minimum required load capacity of $(50 \text{ kg} * 1.5 * 1.5) + (40 \text{ kg} * 1.5) + 400 \text{ kg} = 572.5 \text{ kg}$. The AS 2/C-700 drive module must be selected for this section.



KU 2/O-90 curve arc



- ▶ Curve arc without built-in drive
- ▶ Accumulation operation possible
- ▶ Plastic chain guides
- ▶ Can be combined with WT 2, WT 2/F, WT 2/H and WT 2/F-H

Note:

- ▶ Flat top chain in ESD version is not permitted
- ▶ The LU 2 automatic lubrication unit is highly recommended for flat top chains:

The arcs KU 2/O curve arcs without drive are used for setting up sections with integrated curves to transport the

workpiece pallets in accumulation operation.

Accessories

Required accessories

- ▶ Plastic flat top chain conveyor medium 3842551226
- ▶ AS 2/C drive module, see p. 3-68
- ▶ UM 2/C return unit, see p. 3-80

Recommended accessories

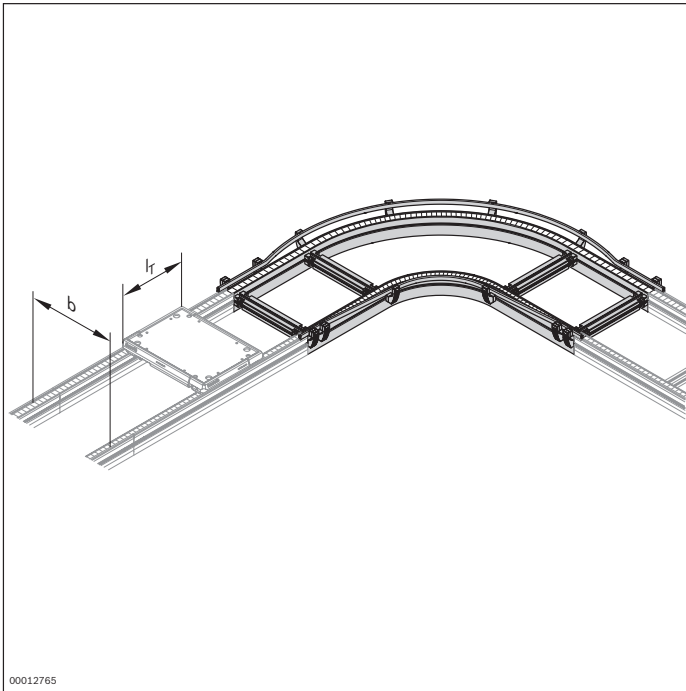
- ▶ SZ 2 leg sets/..., see p. 6-2
- ▶ ST 2/C-100 section, see p. 3-231
- ▶ Profile connector, see p. 3-40

Delivery notes

Condition on delivery

- ▶ Fully assembled

Ordering information



00012765

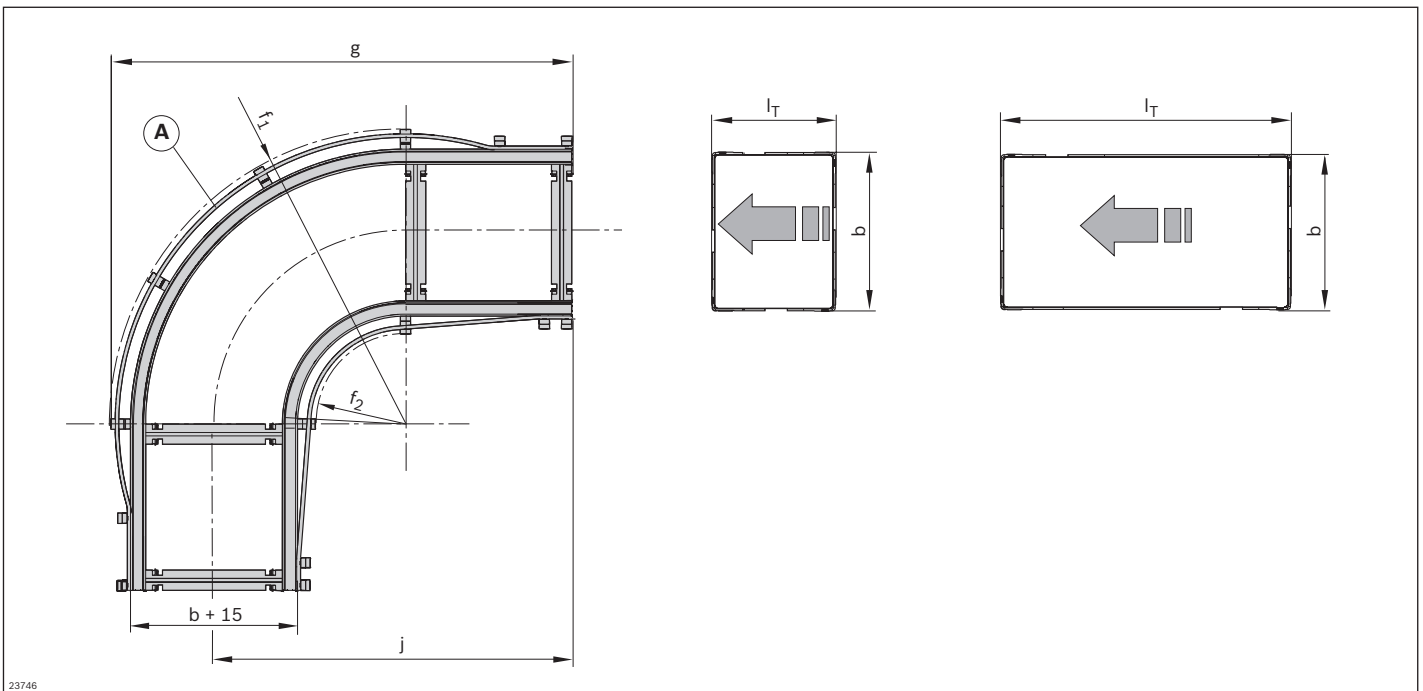
Material number		384299994
b (mm)	Track width in direction of transport	160; 240; 320; 400; 480; 640; 800
l_T (mm)	Length in direction of transport	160; 240; 320; 400; 480; 640; 800; 1040
$w \times l_T$ (mm x mm)	Combination options	160 x 160; 240; 320 240 x 160; 240; 320; 400 320 x 160; 240; 320; 400; 480 400 x 240; 320; 400; 480; 640 480 x 320; 400; 480; 640; 800 640 x 400; 480; 640; 800; 1040 800 x 480; 640; 800; 1040

4

Technical data

Material number		384299994	
Features			
Max. operating temperature	T	°C	+40 °C

Dimensions



23746

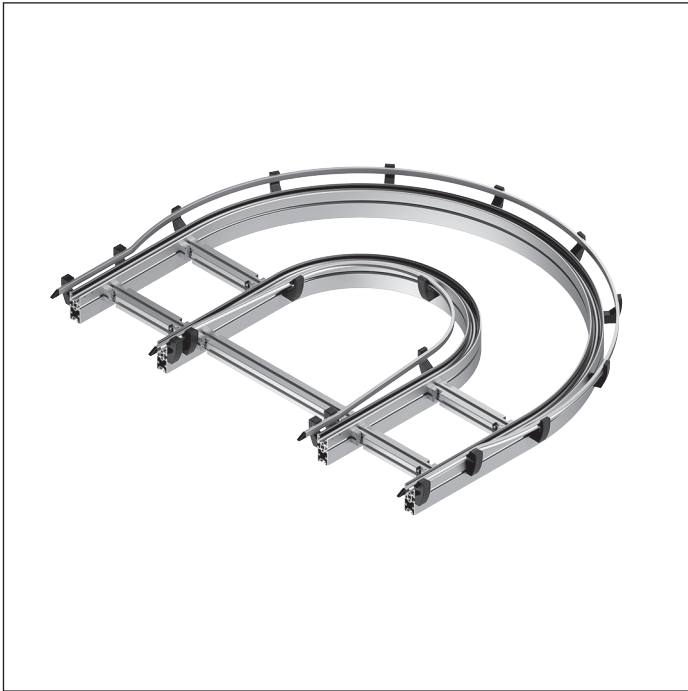
- Ⓐ Workpiece pallet outer guide from $l_T = 640$ mm
- b Track width in direction of transport

l_T Length in conveyor direction

Track width in direction of transport b (mm)	Length in direction of transport l_T (mm)	Curve radius f₁¹ (mm)	Curve radius f₂¹ (mm)	Dimension g (mm)	Dimension j (mm)	Required conveyor medium length l_k (mm)
160	160	493	286	755	667	4640
160	240	493	287	835	747	5280
160	320	493	266	915	827	5920
240	160	573	287	835	707	4892
240	240	573	280	915	787	5532
240	320	573	270	995	867	6172
240	400	573	256	1075	947	6812
240	480	573	240	1155	1027	7452
320	160	653	288	915	747	5143
320	240	653	282	995	827	5783
320	320	653	273	1075	907	6423
320	400	653	261	1155	987	7063
320	480	653	247	1235	1067	7703
400	240	733	283	1075	867	6034
400	320	733	275	1155	947	6674
400	400	733	265	1235	1027	7314
400	480	733	252	1315	1107	7954
400	640	770	260	1299	1032	7355
480	320	813	277	1235	987	6926
480	400	813	268	1315	1067	7566
480	480	813	256	1395	1147	8206
480	640	850	267	1366	1060	7508
480	800	930	319	1695	1289	9197
640	400	973	272	1475	1147	8068
640	480	973	263	1555	1227	8708
640	640	1010	278	1503	1117	7827
640	800	1090	333	1733	1347	9524
640	1040	1090	277	1973	1587	11444
800	480	1133	267	1715	1307	9211
800	640	1170	285	1642	1176	8161
800	800	1250	344	1872	1406	9864
800	1040	1250	296	2112	1646	11784

¹f₁, f₂ = guideline value

KU 2/O-180 curve arc



- ▶ Curve arc without built-in drive
- ▶ Accumulation operation possible
- ▶ Plastic chain guides
- ▶ Can be combined with WT 2, WT 2/F, WT 2/H and WT 2/F-H

Note:

- ▶ Flat top chain in ESD version is not permitted
- ▶ The LU 2 automatic lubrication unit is highly recommended for flat top chains:

The arcs KU 2/O curve arcs without drive are used for setting up sections with integrated curves to transport the

workpiece pallets in accumulation operation.

Accessories

Required accessories

- ▶ Plastic flat top chain conveyor medium 3842551226
- ▶ AS 2/C drive module, see p. 3-68
- ▶ UM 2/C return unit, see p. 3-80

Recommended accessories

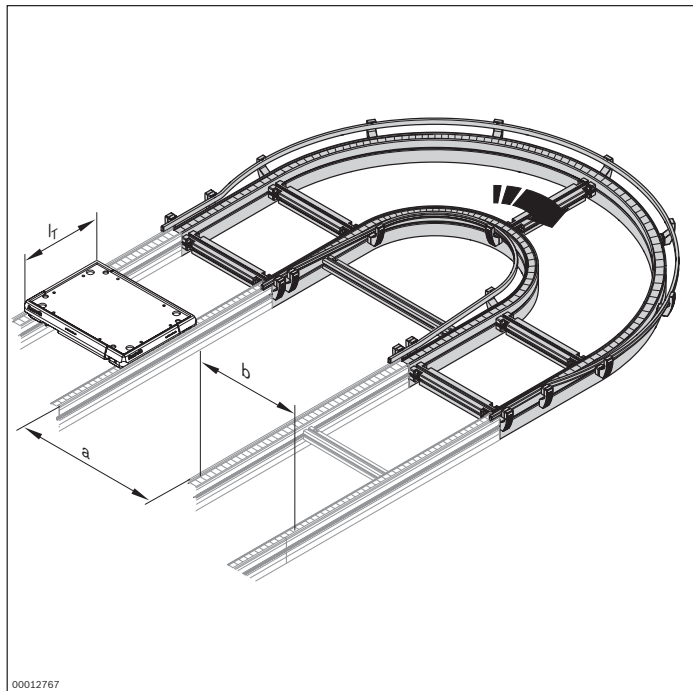
- ▶ SZ 2 leg sets/..., see p. 6-2
- ▶ ST 2/C-100 section, see p. 3-231
- ▶ Profile connector, see p. 3-40

Delivery notes

Condition on delivery

- ▶ Fully assembled

Ordering information

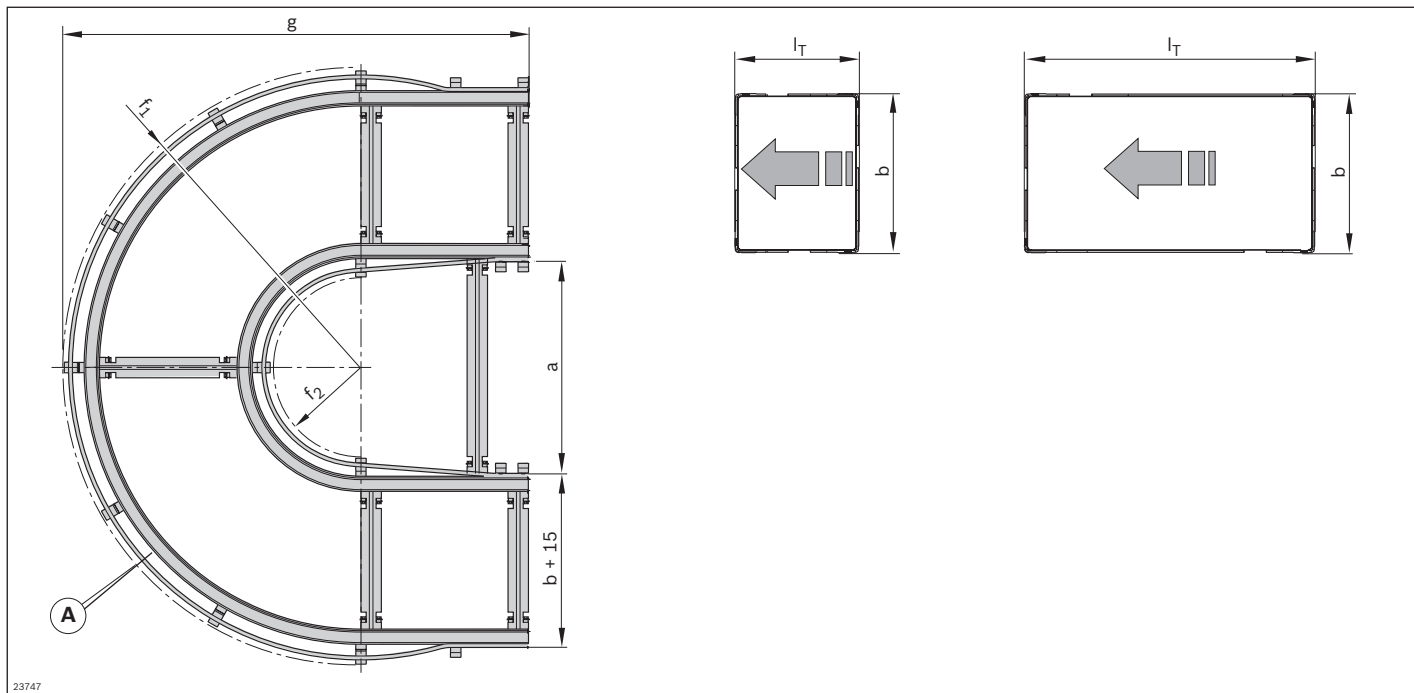


Material number		384299995
b (mm)	Track width in direction of transport	160; 240; 320; 400; 480; 640; 800
l_T (mm)	Length in direction of transport	160; 240; 320; 400; 480; 640; 800; 1040
$w \times l_T$ (mm x mm)	Combination options a = 640 mm	b x l_T 160 x 160; 240; 320 240 x 160; 240; 320; 400 320 x 160; 240; 320; 400; 480 400 x 240; 320; 400; 480; 640 480 x 320; 400; 480; 640 640 x 400; 480; 640 800 x 480; 640
	a = 800 mm	480 x 800 640 x 800; 1040 800 x 800; 1040

Technical data

Material number		384299995
Features		
Max. operating temperature	T	°C
		+40 °C

Dimensions



- Ⓐ Workpiece pallet outer guide from $l_T = 640$ mm
- b Track width in direction of transport

l_T Length in conveyor direction

Track width in direction of transport b (mm)	Length in direction of transport l _r (mm)	Curve radius f ₁ ¹ (mm)	Curve radius f ₂ ¹ (mm)	Dimension g (mm)	Distance between conveyors a (mm)	Required conveyor medium length l _k (mm)
160	160	493	286	755	640	7201
160	240	493	287	835	640	7841
160	320	493	266	915	640	8481
240	160	573	287	835	640	7704
240	240	573	280	915	640	8344
240	320	573	270	995	640	8984
240	400	573	256	1075	640	9624
240	480	573	240	1155	640	10264
320	160	653	288	915	640	8206
320	240	653	282	995	640	8846
320	320	653	273	1075	640	9486
320	400	653	261	1155	640	10126
320	480	653	247	1235	640	10766
400	240	733	283	1075	640	9349
400	320	733	275	1155	640	9989
400	400	733	265	1235	640	10629
400	480	733	252	1315	640	11269
400	640	770	260	1299	640	10669
480	320	813	277	1235	640	10491
480	400	813	268	1315	640	11131
480	480	813	256	1395	640	11771
480	640	850	267	1366	640	11074
480	800	930	319	1595	800	13265
640	400	973	272	1475	640	12137
640	480	973	263	1555	640	12777
640	640	1010	278	1503	640	11896
640	800	1090	333	1733	800	14095
640	1040	1090	277	1973	800	16015
800	480	1133	267	1715	640	13782
800	640	1170	285	1642	640	12732
800	800	1250	344	1872	800	14938
800	1040	1250	296	2112	800	16858

¹f₁, f₂ = guideline value