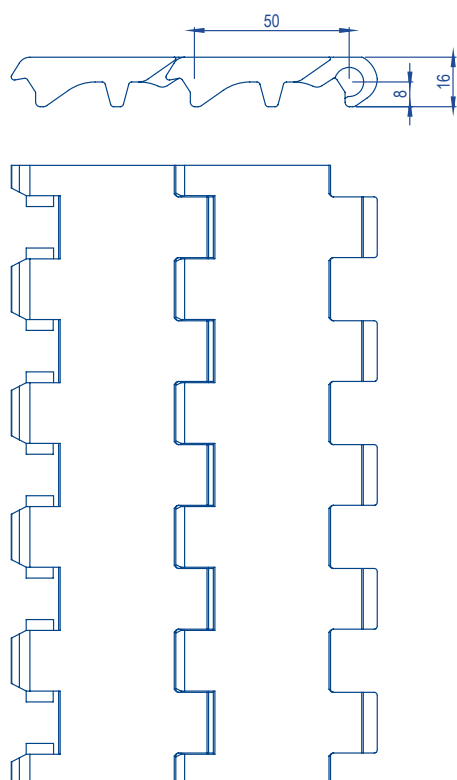


TECHNICAL DATA SHEET (TDS)

Version [05/2025]

Series **Q50** Flat Top



	Belt pitch	50 mm
	Belt width	Multiples of 40 mm
	Rod	No
	Drive system	Central
	Ø min direct rotation roller	75 mm
	Ø min reverse rotation roller	150 mm
	Certificate	Q50 Flat Top NSF 14159-3

Quickbelts is a new generation of belts with an assembly system without connecting rods.

With just one click, your quickbelts fit together without extra fasteners needs, making assembly much quicker and easier.

Due to its special geometry, the belt itself develops a slight lift at the moment of transfer, which makes it easier to remove the product.

In addition, its hole-free structure allows an excellent cleaning.

Belt material	Belt resistance (kg/m)	Belt weight (kg/m ²)	Temperature limit (C°)	Standard Colours ¹	Open Area + opening dimensions	Belt thickness	Food contact
PK - Polyketone	2250	11,85	-30 to +80	B - W	0%	16 mm	 

¹W = White G = Grey N = Natural B = Blue O = Black

Food use compliance

Declaration of Conformity (EU)

The substances used are included in the Positive Lists of the Legislation of plastic materials in contact with food, Regulation (EU) 10/2011 and its modifications.

Food and Drug Administration (FDA)

This regulation describes the polymers that can be safely used to manufacture articles that come into direct contact with food, 21CFR 177.1520 (Olefin polymers) and 21 CFR 177.2470 (Polyoxymethylene copolymer).

Series Q50

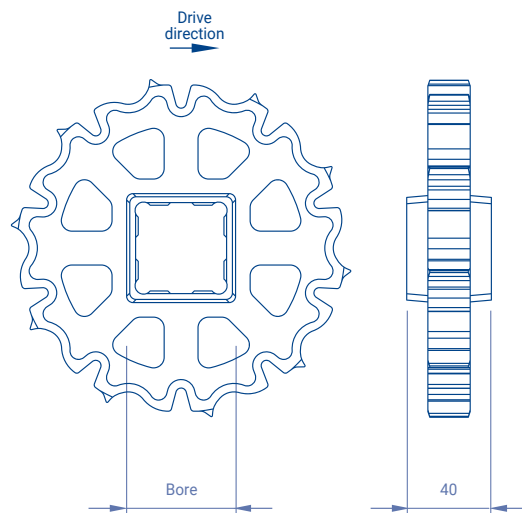


SPROCKETS

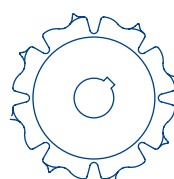
We also have sprockets to be used with motor drum in applications needing a special cleaning or in conveyors in which it is not possible to place the motor in the outside due to problems of space or safety.

N° teeth Z	Ø Pitch	Bore for square shaft		Hub width
		mm	inch	
8	130,65	40	1,5	40
10	161,80	40 - 60	1,5 - 2,5	40
12	193,1	40 - 60	1,5 - 2,5	40

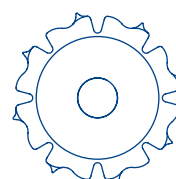
*Consult the technical department for the availability of split sprocket or mechanized sprocket with different numbers of teeth.



It is manufactured in polyketone



WITH KEYWAY



WITHOUT KEYWAY

RETAINING RINGS

Eurobelt retaining rings are used to secure the central gear on the drive and driven shafts. They are placed on both sides of the central sprocket and are part of the self-guiding system of the modular belts, preventing the sprocket from sliding along the shaft and avoiding lateral displacements of the belt.

Additionally, the effects of temperature cause the belt to expand

or contract.

The rest of the sprockets slide freely along the shaft, allowing them to adapt to the variations and lateral movements of the belt. This ensures that the correct tooth position is maintained at all times.

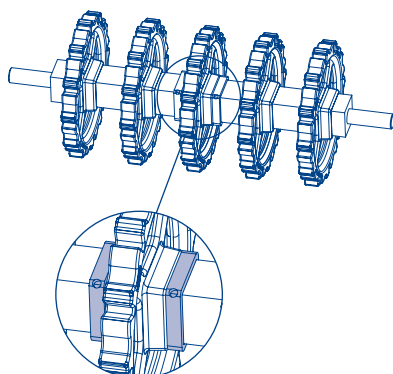
CLE RETAINING RING

*See more in common accessories



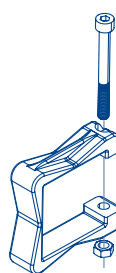
AISI 316
Stainless
steel

Bore for square shaft	Screws
40	M6x6
60	M6x6



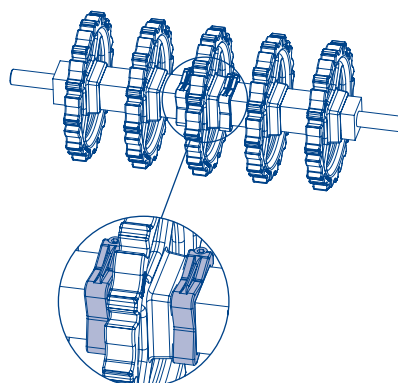
CLU RETAINING RING

*See compatibility with diameters in common accessories



Acetal
High resistance

Working temperature: +60°C / -40°C
For bore square 40 mm or 1 1/2"



CONSTRUCTION DATA

To calculate the necessary minimum quantity of sprockets for the drive shaft as well as for the idle one, the next formula has been used:

Minimum quantity = $\frac{\text{Belt width (mm)}}{160 \text{ mm}}$

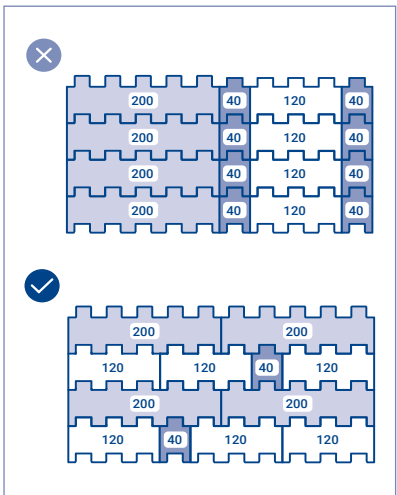
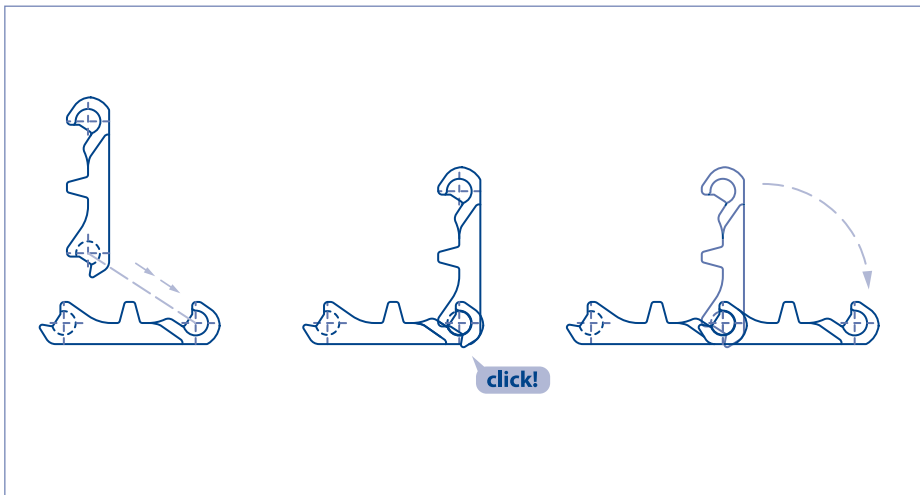
This amount must always be odd.

To calculate the quantity of supports, the weight of the product to be transported must be taken into account.

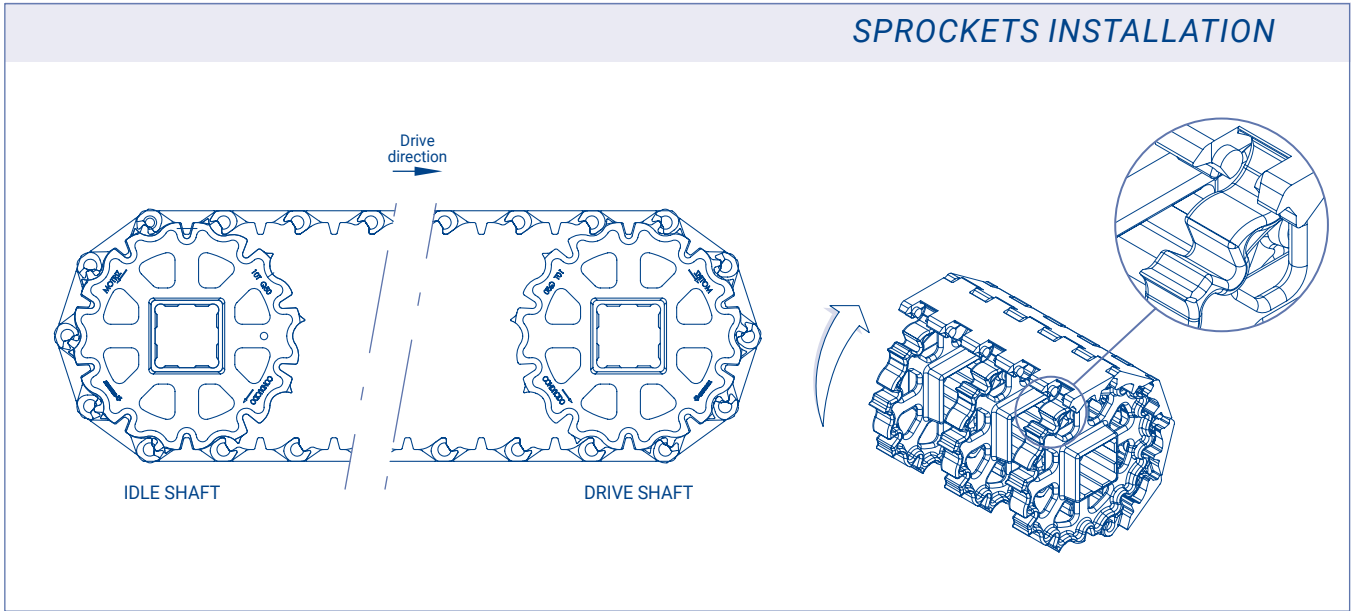
The distance between supports should not exceed 230 mm in the transport way or 300 mm in the return way.

SPROCKETS AND WEARSTRIPS

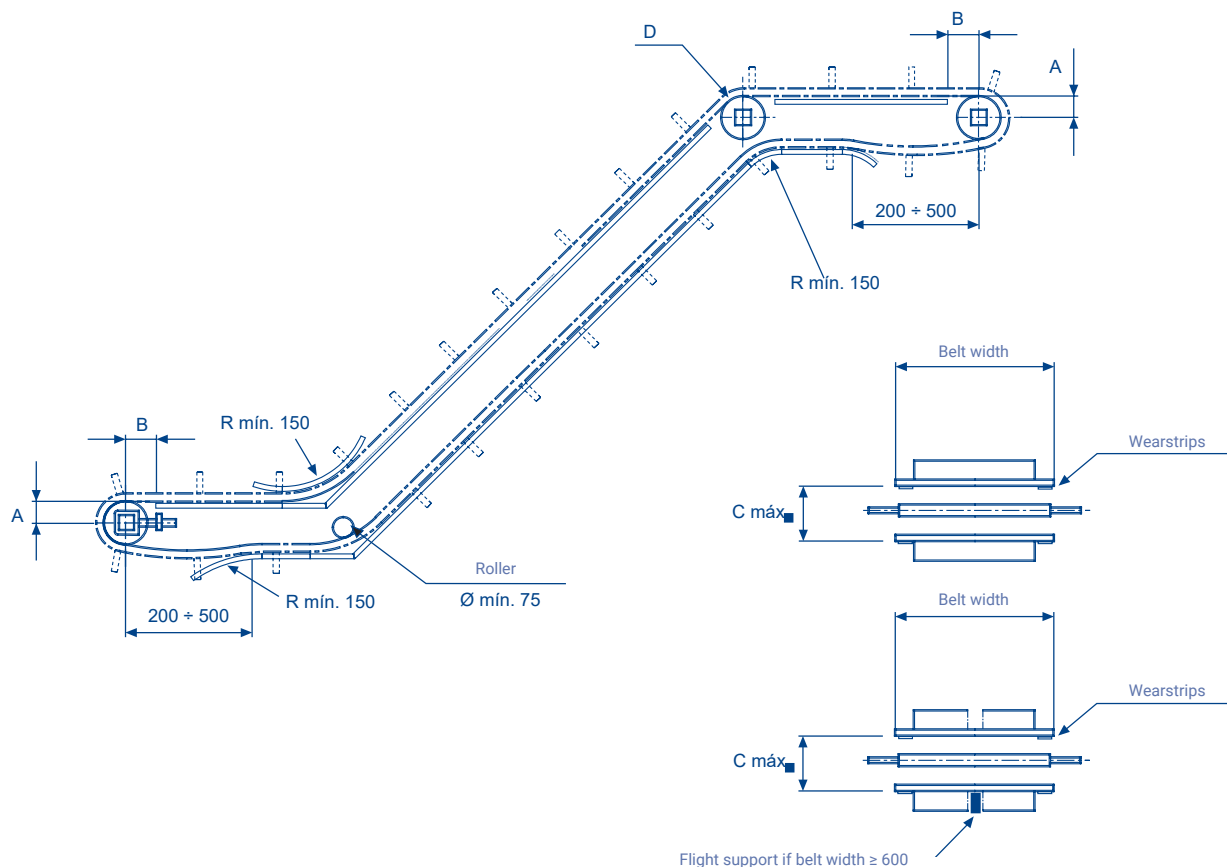
Belt nominal width (mm)		Minimum quantity of sprockets per shaft	Minimum quantity of wearstrips	
			Transport way	Return way
40	160	1	2	2
200	440	3	2	2
480	680	5	3	3
720	800	5	4	3
840	880	7	4	3
920	1120	7	5	4
1160	1200	9	6	4
1240	1360	9	6	5
1400	1440	9	7	5
1480	1600	11	7	5



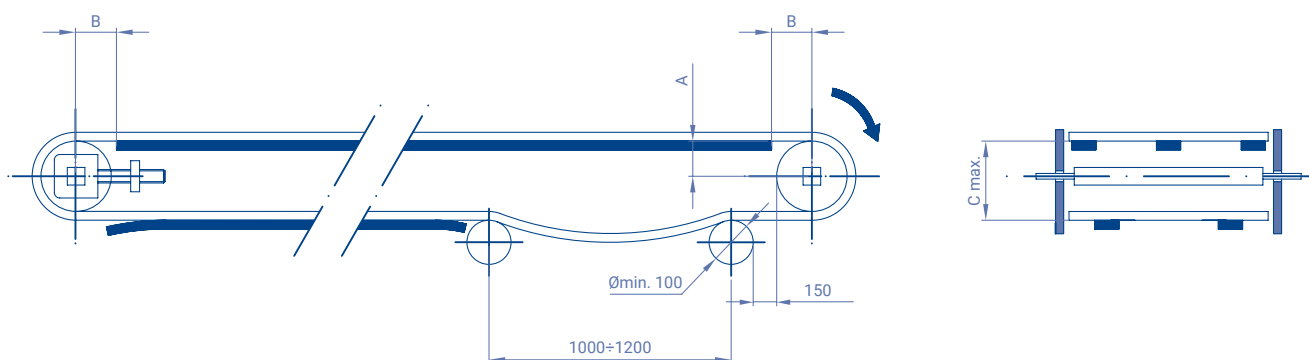
SPROCKETS INSTALLATION



ELEVATING CONVEYOR WITH FLIGHTS



HORIZONTAL CONVEYOR



[A] Distance between the sliding surface of the belt and the centre of the shaft.

[B] Distance between the vertical of the shaft and the beginning of the sliding surface.

[C] Distance between the sliding surface of the belt and the support of the return way.

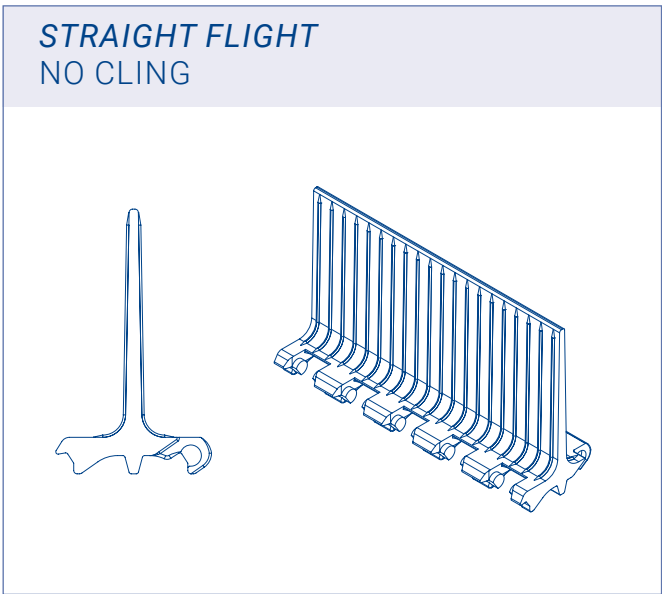
[D] If sprockets are used in the inflexion shaft, do not retain the central one.

[R] This radius must be as big as allowed by the application in order to minimize the wear (min. 150 mm). For belts with side guards, consult about this radius.

In the construction of conveyors, the distances appearing in the chart below must be respected according to the belt Series and the size of the sprockets.

Nº of teeth Z	Ø Pitch	A	B max.	C max.
8	130,6	58	60	135
10	161,8	72	76	165
12	193,1	89	78	200

FLIGHTS



The flights are plastic accessories to be inserted across the belt. They are used to push the product in ascent, descent or accompaniment applications, avoiding that it slips along the belt.

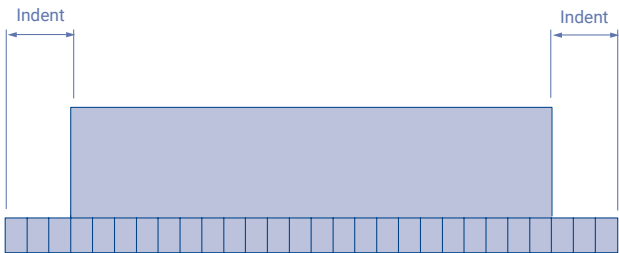
No cling flights are available on both sides, mainly for those applications with very sticky products, normally transported in bulk and that cover the entire space between rows of consecutive flights.

Possibility of lowering the standard height for special applications

Accessories	Height (h)	Materials
Straight flight no cling	100	Polyketone

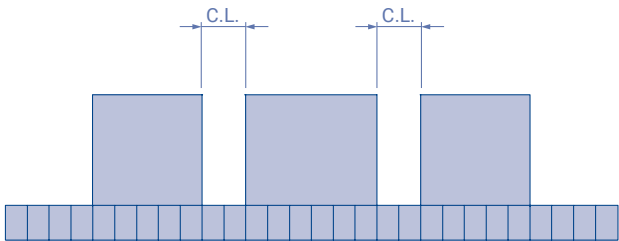
TECHNICAL DATA: FLIGHTS AND SIDE GUARDS

BELT WITH ONLY FLIGHTS



Indent = Multiple of 40 mm (minimum of 40 mm)
Distance between flights = Multiple of 100 mm

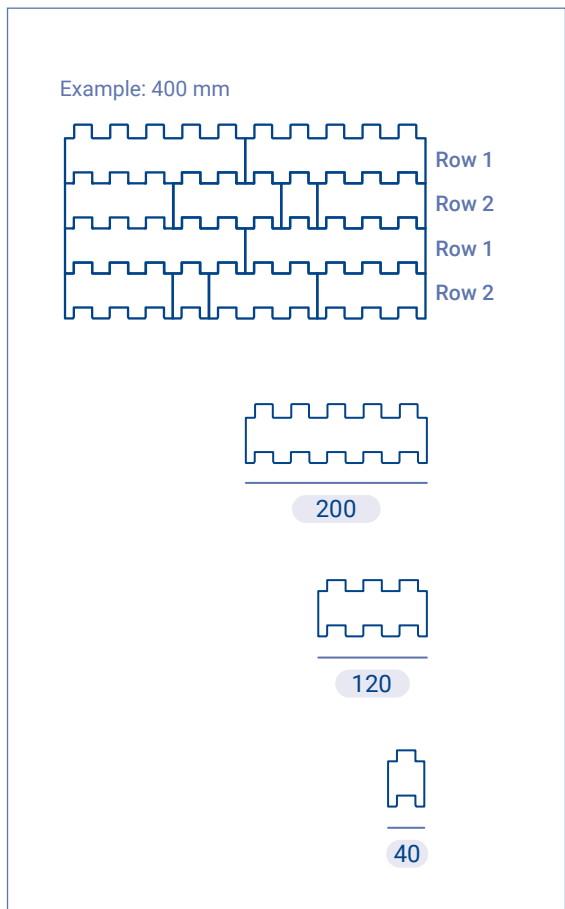
BELT WITH LONGITUDINAL CUTS



Flight longitudinal cut = Multiple of 40 mm (minimum of 40 mm)

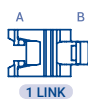
CONFIGURATION TABLE

Q50 FLAT TOP



DELIVERY TIME

No more waiting for your belts to be manufactured, you can order the parts and have them assembled at your facility in record time.

			
	5 LINK	3 LINK	1 LINK
Lenght	200 mm	120 mm	40 mm
Links	5	3	1
Units per box	104	156	104

Width 160

ROW 1	40	120
-------	----	-----

ROW 2	120	40
-------	-----	----

Width 200

ROW 1	200
-------	-----

ROW 2	200
-------	-----

Width 240

ROW 1	120	120
-------	-----	-----

ROW 2	200	40
-------	-----	----

Width 280

ROW 1	40	120	120
-------	----	-----	-----

ROW 2	120	120	40
-------	-----	-----	----

Width 320

ROW 1	120	200
-------	-----	-----

ROW 2	200	120
-------	-----	-----

Width 360

ROW 1	120	40	200
-------	-----	----	-----

ROW 2	200	40	120
-------	-----	----	-----

Width 400

ROW 1	200	200
-------	-----	-----

ROW 2	120	120	40	120
-------	-----	-----	----	-----

Width 440

ROW 1	200	40	200
-------	-----	----	-----

ROW 2	120	200	120
-------	-----	-----	-----

Width 480

ROW 1	200	120	40	120
-------	-----	-----	----	-----

ROW 2	120	40	120	200
-------	-----	----	-----	-----

Width 520

ROW 1	120	200	200
-------	-----	-----	-----

ROW 2	200	200	120
-------	-----	-----	-----

Width 560

ROW 1	120	40	200	200
-------	-----	----	-----	-----

ROW 2	200	200	40	120
-------	-----	-----	----	-----

Width 600

ROW 1	200	200	200
-------	-----	-----	-----

ROW 2	120	120	120	120	120
-------	-----	-----	-----	-----	-----

Width 640

ROW 1	200	40	200	200
-------	-----	----	-----	-----

ROW 2	120	40	120	120	120	120
-------	-----	----	-----	-----	-----	-----

Width 680

ROW 1	120	120	40	200	200
-------	-----	-----	----	-----	-----

ROW 2	200	200	40	120	120
-------	-----	-----	----	-----	-----

Width 720

ROW 1	120	200	200	200
-------	-----	-----	-----	-----

ROW 2	200	200	200	120
-------	-----	-----	-----	-----

Width 760

ROW 1	120	40	200	200	200
-------	-----	----	-----	-----	-----

ROW 2	200	200	200	40	120
-------	-----	-----	-----	----	-----

Width 800

ROW 1	200	200	200	200
-------	-----	-----	-----	-----

ROW 2	120	120	120	120	200	120
-------	-----	-----	-----	-----	-----	-----

Series Q50



CONFIGURATION TABLE

Q50 FLAT TOP

Width 840

ROW 1	200	200	200	120	120
ROW 2	120	120	200	200	200

Width 880

ROW 1	200	200	200	40	120	120
ROW 2	120	120	40	200	200	200

Width 920

ROW 1	120	200	200	200	200
ROW 2	200	200	200	200	120

Width 960

ROW 1	120	40	200	200	200	200
ROW 2	200	200	200	200	40	120

Width 1000

ROW 1	200		200		200		200		200	
ROW 2	120	120	120	120	200		200		120	

Width 1040

ROW 1	200	40	200	200	200	200
ROW 2	120	200	200	200	200	120

Width 1080

ROW 1	120	120	120	120	200	200	200
ROW 2	200	200	200	120	120	120	120

Width 1120

ROW 1	120	200	200	200	200	200
ROW 2	200	200	200	200	200	120

Width 1160

ROW 1	120	40	200	200	200	200	200
ROW 2	200	200	200	200	200	40	120

Width 1200

ROW 1	200		200	200	200	200	200	
ROW 2	120	120	200	200	200	120	120	120

Width 1240

ROW 1	120	120	200	200	200	200	200
ROW 2	200	200	200	200	200	200	120

Width 1280

ROW 1	200	200	200	200	120	120	120	120
ROW 2	120	120	120	120	200	200	200	200

Width 1320

ROW 1	200	200	200	200	200	200	120
ROW 2	120	200	200	200	200	200	200

Width 1360

ROW 1	120	40	200	200	200	200	200	200
ROW 2	200	200	200	200	200	200	40	120

Width 1400

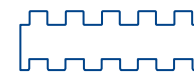
ROW 1	200		200		200		200		200		200		200	
ROW 2	120	120	200		200		200		200		120	120	120	

Width 1440

ROW 1	120	120	200	200	200	200	200	200
ROW 2	200	200	200	200	200	200	200	120

Width 1480

ROW 1	200	200	200	200	200	120	120	120	120
ROW 2	120	120	120	120	200	200	200	200	200



200



120



40