



FabLink®-EC50.8.TR

Vlees toepassingen

Spiraalvormige vriezer

Pluimvee toepassingen

Spiraalvormige vriezer

Zeevruchten toepassingen

Vrieslijnen, Spiraalvormige vriezer

Bakkerij toepassingen

Spiraalvormige vriezers, Rijslijnen, Koellijnen, Vrieslijnen, Bakblik verwerking

Toepassingen van groente en fruit

Dozentransport

FabLink® EC50.8.TR Tightradius



Steek	50,8 mm / 2 inch
Bandoppervlak	Open, glad oppervlak
Minimale breedte	508 mm / 3,94 inch
Open oppervlakte (%)	58% (Grootste opening 15 x 17mm)
Contactgebied (%)	85% open contactgebied
Meenemer	Nee
Scheidingslijn	Ja (h=25mm)
Pen	Ø 6 mm / 0.236 inch – Zelfvergrendeling
Goedgekeurd	FDA en EU
Bocht	Ja
Kleur	Extra kleuren beschikbaar
Reinigbaarheid	Uitstekend
Toepassing	Rechte en zijwaartse buiging
Instortingsfactor:	1.5 -1.7 (kijk op pagina 185 om de tabel met instortingsfactoren-breedte te zien)
Banddikte	16 mm / 0,630 inch

Productkenmerken en functionele voordelen

- Band ontworpen voor toepassingen met een kleine radius.
- Beschikbaar voor lichte en middelzware belastbaarheid.
- 180° buigend bij hoge snelheidstoepassingen
- Optionele roestvrijstalen pezen verminderen de rek van de band voor toepassingen bij hoge temperaturen.
- Hoge temperatuur- en slijtvastheid. Uniek vergrendelsysteem.
- Geschikt voor rijzen, koelen, bevriezen in spiraaltorens.

Beschikbare afmetingen voor gegoten modules

- 203,2 mm / 4 inch module
- 184 mm / 7,24 inch module
- 172 mm / 6,76 inch module

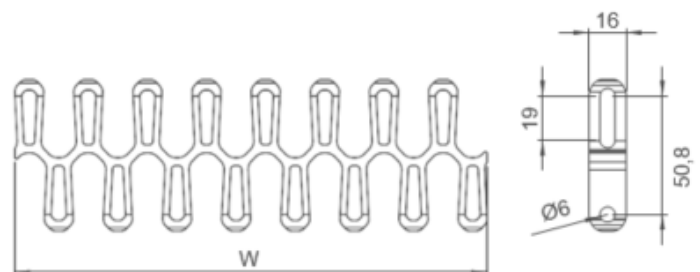
Technische informatie

BAND MATERIAAL	STERKTE VAN DE BAND				TEMPERATUUR		GEWICHT VAN DE BAND
	Recht		Radius		°C / °F (min.)	°C / °F (max.)	Kg/m ² / pond/ft ²
	N/mm	lb / ft	N/mm	lb / ft			
PP (Polypropyleen)	16500	1131	2560	568	+5 / +42.8	+90 / +194	5,2 - 1.07
PE (Polyethyleen)	-	-	-	-	-	-	-
Acetaal	23100	1583	3520	792	-43 / -45.4	+110 / +230	7,5 - 1.54

Bandsterkte en temperatuurwaarden zijn maximaal op tafel

Standaard bandbreedtes

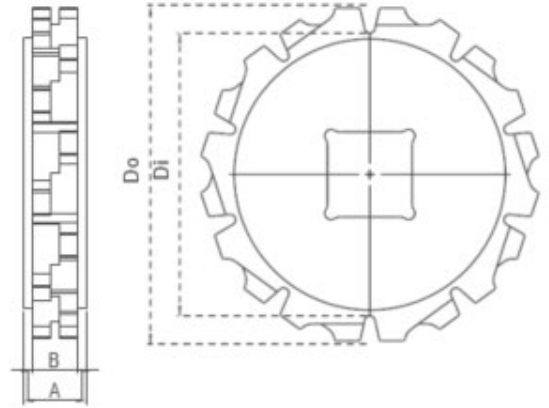
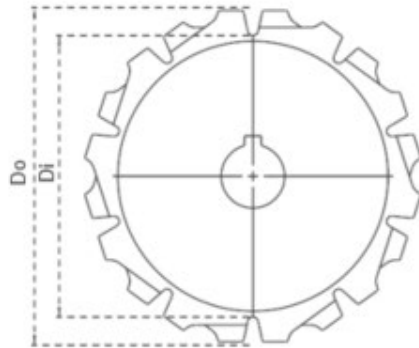
BREEDTE (W)				BANDBREEDTE TOLERANTIE (max.)
PP-PE		POM		
Mm	inch	Mm	inch	
508,0	20.0	508,0	20.0	± 0,5 mm
558,8	22.0	558,8	22.0	± 2 mm
609,6	24.0	609,6	24.0	± 2 mm
660,4	26.0	660,4	26.0	± 3 mm
711,2	28.0	711,2	28.0	± 3 mm
762,0	30.0	762,0	30.0	± 3 mm
812,8	32.0	812,8	32.0	± 3 mm
863,6	34.0	863,6	34.0	± 4 mm
914,4	36.0	914,4	36.0	± 4 mm
965,2	38.0	965,2	38.0	± 4 mm
1016,0	40.0	1016,0	40.0	± 4 mm
1066,8	42.0	1066,8	42.0	± 4 mm



- Standaard bandstappen 100 Mm
 - Niet-standaard band stappen 20mm
- Neem contact op met de klantenservice voor nauwkeurige bandmetingen

1117,6	44.0	1117,6	44.0	± 4 mm
1168,4	46.0	1168,4	46.0	± 4 mm

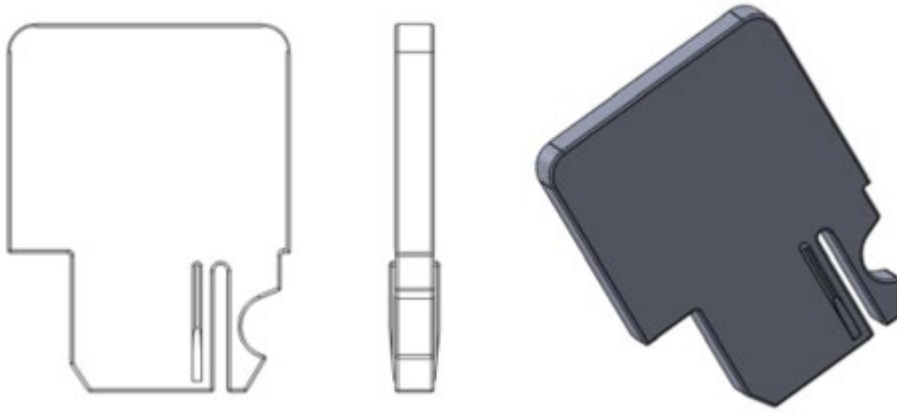
Tandwielen en Technische specificaties



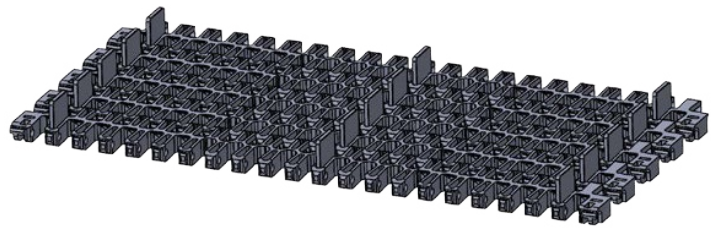
Standaard tandwiel afmetingen

AANTAL TANDEN	Dia mm / inch	Dia mm / inch	Bmm / inch	Amm / inch	Vierkante boring (Q)mm / inch	Ronde boring (R)mm / inch	PRODUCTCODE	
							Vierkant type (Q)	Rond type (R)
Z8	99,7 / 3.93	127,3 / 5.01	22 / 0.87	30 / 1.18	40 / 1.5	25-30 / 1-1.25	EC508TRSQZ8 * POM	EC508TRSRZ8 * POM
Z10	133,6 / 5.26	160,4 / 6.31	22 / 0.87	30 / 1.18	40 / 1.5	25-30 / 1-1.25	EC508TRSQZ10 * POM	EC508TRSRZ10 * POM
Z12	167,1 / 6.58	193,2 / 7.61	22 / 0.87	30 / 1.18	40 / 1.5	25-30 / 1-1.25	EC508TRSQZ12 * POM	EC508TRSRZ12 * POM

- * Andere tandwielen en naafmaten worden op aanvraag vervaardigd
- * POM (Acetaal) en PP (Polypropyleen) tandwielen zijn beschikbaar op aanvraag
- * Machinaal gespleten tandwielen zijn beschikbaar voor elke maatmaat .

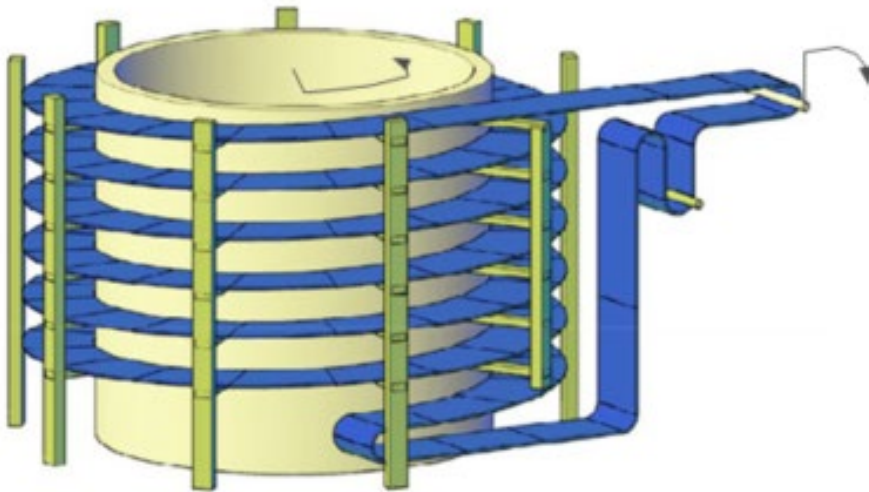


SCHEIDINGSLIJN	-	
	Mm	inch
Standaard	35,9	1.41
Standaard	61,3	2.41
Standaard	86,7	3.41
Standaard	112,1	4.41

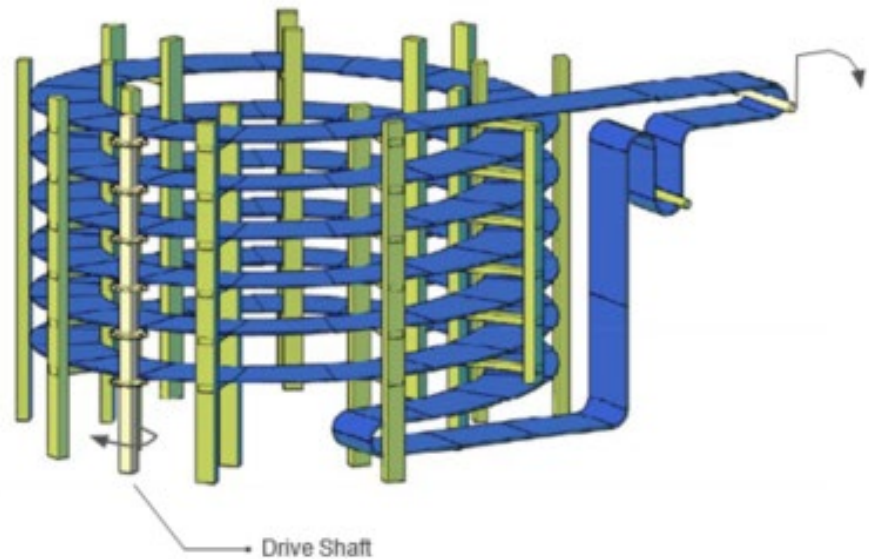


Accessoires en technische specificaties





Spiral conveyor of this kind is made of modular belt that twisted around of special drum structure in the center. The belt is sliding on rails with plastic profile with low friction. The rails are fixed on external vertical support columns. The drive drum has a cylindrical shape and made of profiled pipes or plates, forming a continuous or rarefied surface.



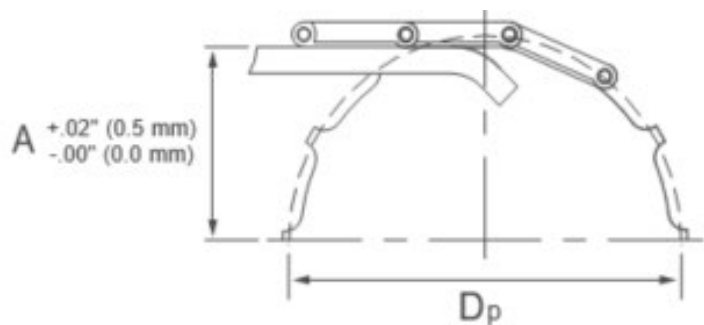
Lateral drive system has been implemented as a stainless steel structure with a gear motor located in a bottom part and connected with a vertical shaft that has driving sprockets, the number of which equals the number of tiers on the spiral conveyor. Belt received the teeth on the outer contour and through which carried out the movement from the sprockets, thus forming a multilevel gear transmission.

Wear Strip Placement Calculation

This formula is a general guideline and does not take into consideration belts traveling at speeds greater than 75 ft/min. (23 m/minute). For high speed applications, Modutech recommends increasing the height of "A" and shortening the wear strips as much as one belt pitch in length.

$$A = \frac{1}{2} \times (D_p - BT)$$

- A = Calculated Height
- D_p = Sprocket Pitch Diameter
- BT = Belt Thickness

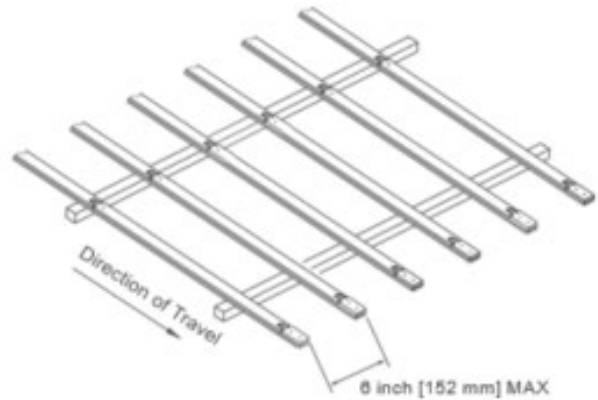
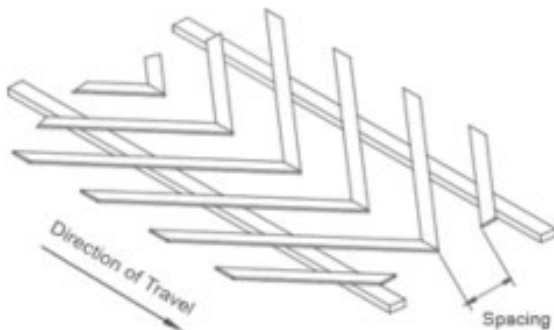
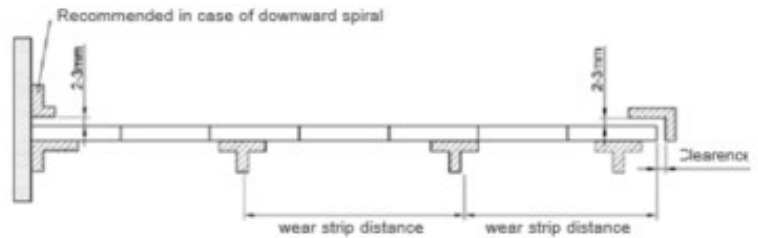
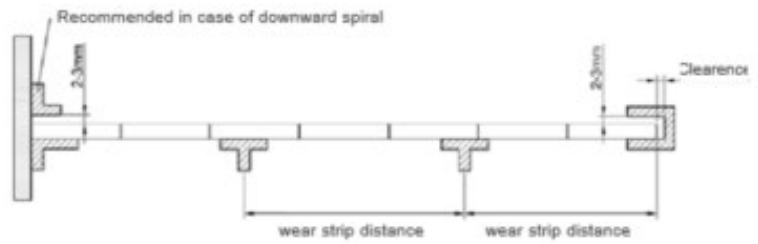


Due to the strength and rigidity of the stainless steel pins the number of wear strip can be largely reduced compared to other belts with plastic pin.

The wear strip distance is based on the product weight and how is distributed on the belt. a range between 250 and 400 mm is covering most of the case. on the return path the guides can be spaced up 1 meter apart.

Due to excellent belt width tolerance the lateral gap between belt and guides can be few mm, anyhow it is important to keep into firm consideration the thermal dilatation of the belt that corresponds exactly to the dilatation of the stainless steel pin.

Note: Please contact with your sales representative for suitable wear strip types and location for spiral towers.



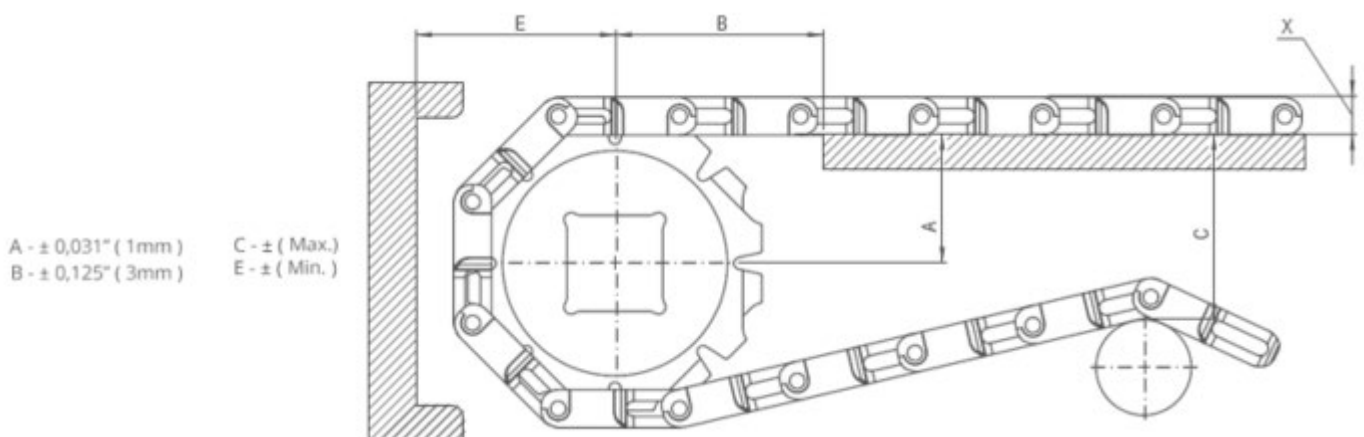
Herringbone rails: Modutech recommended.

Flat wear strips in a "V" configuration with the point of the "V" pointing in the direction of travel. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100-300mm depending on belt type, load, and other factors. This configuration distributes the wear over the entire belt width.

Longitudinal Rails: Flat wear strips the

full length of the conveyor, parallel to each other and perpendicular to the terminal shafts. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100-300mm depending on belt type, load, and other factors. This configuration does not distribute wear over the full width of the belt.

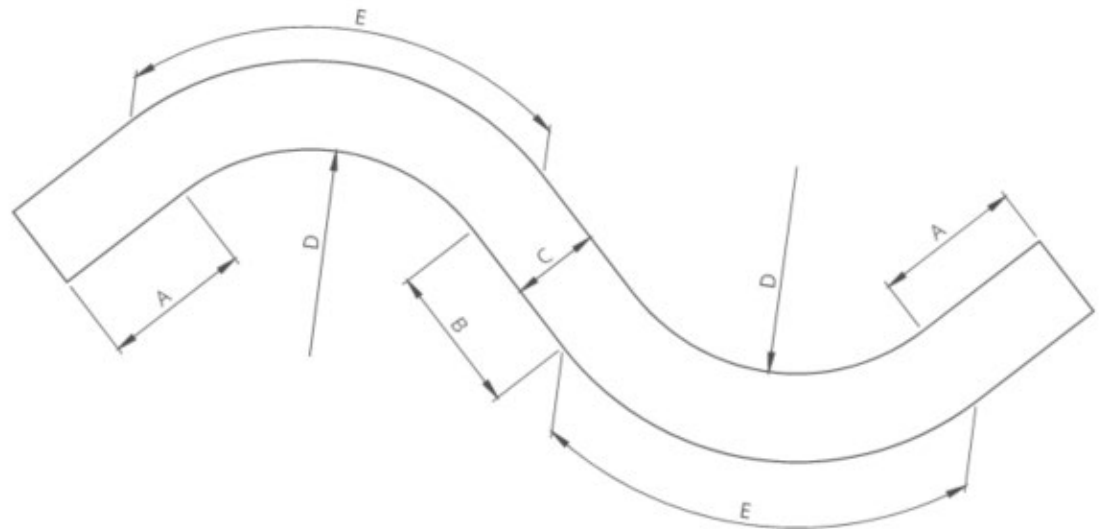
Engineering informatie



Afmetingen transportbandframe

MEENEMER BESCHRIJVING			A		B		C		E		X	
Diameter		Aantal tanden	Bereik (Van onder naar boven)		inch	Mm	inch	Mm	inch	Mm	inch	Mm
inch	Mm		inch	Mm								
EC508T_R												
4.52	114,8	8	2.36	60,1	1.85	47,0	4.47	113,5	3.36	85,4	0.63	16,0
5.81	147,5	10	2.96	75,1	2.31	58,7	5.85	141,8	4.01	101,8	0.63	16,0
7.09	180,2	12	3.55	90,1	2.77	70,5	6.70	170,2	4.65	118,1	0.63	16,0
-	-	-	-	-	-	-	-	-	-	-	-	-

Radius Belt Example 90° S-Curve



Rekenvoorbeeld

A: Rechte trekkracht en n = Bandbreedte

B: Rechte doorloop tussen 2 bochten = min. 2 x bandbreedte

C: Bandbreedte

D: Minimale binnenradius

E: Curve lengte

Min. binnenradius

Samenvouwfactor = -----

Bandbreedte

Minimale binnenradius = Inklapfactor x Bandbreedte

Bandbreedte: 762 mm Radius Band

Instortingsfactor: 1,53

D: 762 x 1,53 = 1166 mm

A: 762 mm

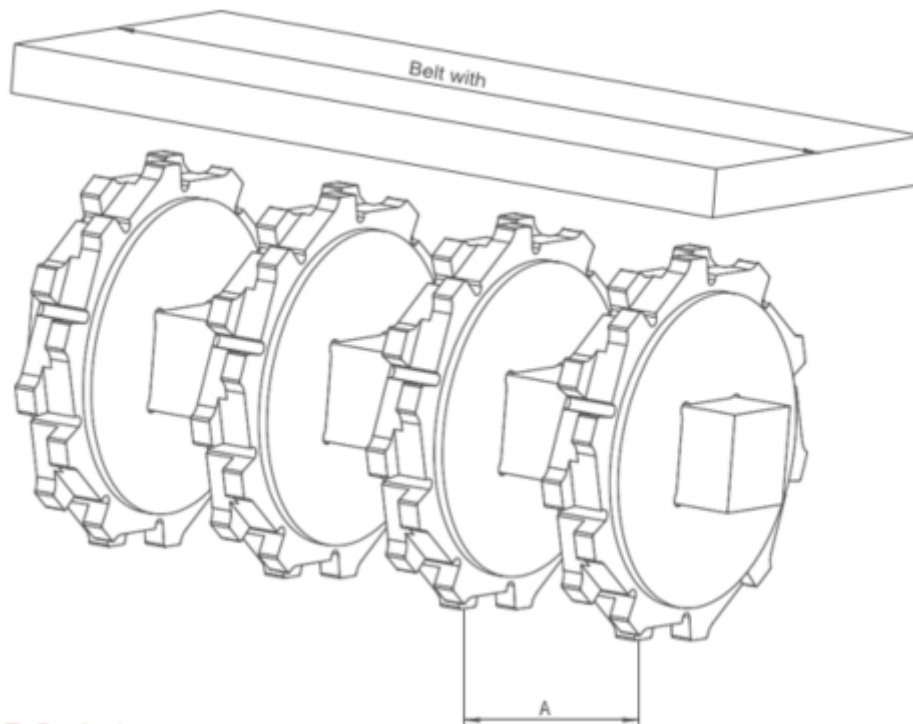
B: 2 x 762 mm = 1524 mm (min.)

E: 2 x (C+D) x 3,14 = 3027 mm

4

Totale lengte = (2 x A) + B + (2 x E)

Glijbed-ondersteuningssysteem voor rechte loopbanden



Tandwielopstelling

Standaard bandbreedte		Aantal tandwielen per as		A (mm/inch)	
Mm	inch	Aandrijf-as	Retour as	Min.	Max.
508,0	20.0	6	5	50/2	120/4.7
558,8	22.0	7	6	50/2	120/4.7
609,6	24.0	8	7	50/2	120/4.7
660,4	26.0	8	7	50/2	120/4.7
711,2	28.0	9	8	50/2	120/4.7
762,0	30.0	10	9	50/2	120/4.7
812,8	32.0	10	9	50/2	120/4.7
863,6	34.0	11	10	50/2	120/4.7
914,4	36.0	11	10	50/2	120/4.7
965,2	38.0	12	11	50/2	120/4.7
1016,0	40.0	13	12	50/2	120/4.7
1066,8	42.0	13	12	50/2	120/4.7
1117,6	44.0	14	13	50/2	120/4.7
1168,4	46.0	15	14	50/2	120/4.7

Opmerking: Het aantal tandwielen is afhankelijk van de bandbelasting.

Samenvouwfactoren per breedte

Nom. Bandbreedte (mm)	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4	1219,2	1270,0	1320,8
Nom Band Breedte (inch)	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
Samenvouwfactor	1,49	1,49	1,49	1,49	1,50	1,51	1,52	1,53	1,53	1,54	1,54	1,55	1,56	1,56	1,57	1,57	1,58	1,60	1,62	1,63
Min binnenradius (mm)	529,8	605,5	681,2	756,9	838,2	920,5	1003,8	1088,1	1165,9	1251,7	1329,9	1417,3	1505,7	1585,0	1674,9	1754,6	1846,1	1950,7	2057,4	2152,9
Min binnenradius (inch)	20.9	23.8	26.8	29.8	33.0	36.2	39.5	42.8	45.9	49.3	52.4	55.8	59.3	62.4	65.9	69.1	72.7	76.8	81.0	84.8

Standaard bereik van bandbreedte en inklapfactor (Min. Binnenradius = Inklapfactor x Standaard bandbreedte)