



RS511 = $\frac{1}{2}$ " pitch, flat top, tight radius belt RS515 = $\frac{1}{2}$ " pitch, curved top, tight radius belt

- 40% open area
- Food approved materials
- ¾" diameter nosebar capability
- Connecting rod diameter = 0.188"
- Standard belt width increments = 1 inch nominal, starting from 12 inches



Questions:

- Does the customer and end-user know how the belt works?
- Why does the customer have the need for this belt?
- Does the customer know, that the conveyor designs in this document are requirements, not recommendations?
- Is the customer willing to design his conveyor per these guidelines?

Good reasons for the customer to want this belt:

- Good product transfer
- Tight turn radius belt is needed in a small space



Belt Data:

RS511 (flat top)



Belt material		POM				
Rod material		Nylon (PA)				
Nominal tensile strength F_N in curve $^{(1)}$	N Ibf	667 <i>150</i>				
Temperature range	°C °F	-40 - 93 -40 - <i>200</i>				
Belt weight m _B	kg/m² <i>lb/sqft</i>	6.9 1.41				
Standard belt color		blue/white				

RS515 (curved top)	
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Belt material		РОМ	Nylon (PA 612)				
Rod material		Nylon (PA)					
Nominal tensile strength F _N in curve ⁽¹⁾	N	667	667				
	Ibf	<i>150</i>	1 <i>50</i>				
Temperature range	°C	-40 - 93	-40 - 118				
	°F	-40 - <i>200</i>	-40 - <i>245</i>				
Belt weight m _B	kg/m²	7.2	5.9				
	<i>lb/sqft</i>	1.47	1.21				
Standard belt color		blue/white	beige				

RS511/RS515 Belting Guidelines



Sprocket Data:



Sprocket part number	Num- ber of teeth		D) al pitch neter	(WH) Shaft center to top of wearstrip		(BH) Shaft center to top of belt		Curved Top (BH) Shaft center to top of belt curve		(HT) Hub thickness		
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
070515 L/S	15	5.40	137	0.38	10	0.88	22	0.91	23	1.5	38	

• Belt material should be called out when ordering sprockets

• Other sprocket sizes available on request

• Recommended sprocket material is Blue Cast Nylon

Sprocket part number	Available bore size														
	1"	1″ sq.	30 mm	1-1/4"	1- 7/16"	1-1/2"	1-1/2" sq.	40 mm	40 mm sq.	1- 15/16"	50 mm	2"	60 mm	60 mm sq.	2-1/2" sq.
070515 L/S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



General Rules:

- Belt width must be 12" to 48" (consult Engineering for other widths)
- 18" minimum infeed and discharge regardless of belt width
- 25 ft maximum carryway length
- Only single 90 degree or less conveyor layouts
- No elevation change
- Uni-directional only
- Preferred drive is center drive w/ nosebars at infeed and discharge
- Standard end drive is acceptable
- Turn ratio: Belt width 12" 24" = 1:1

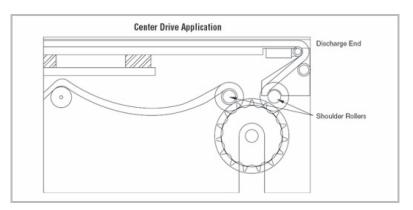
Belt width 25" - 48" = 1.1:1

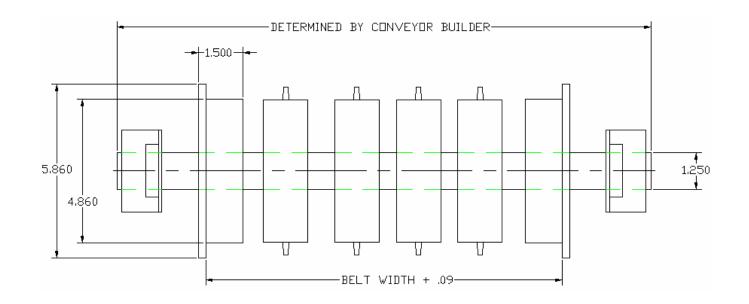
RS511/RS515 Belting Guidelines



Center Drive (preferred drive configuration):

- Rolling 3/4" nosebars at infeed and discharge
- Shoulder rollers must be used on drive shaft to guide and support the belt
- Shoulder rollers must be used with snub rollers to guide the belt through the drive
- 270 degrees of belt wrap around sprocket





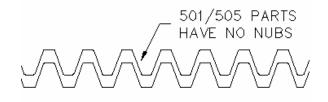
RS511/RS515 Belting Guidelines

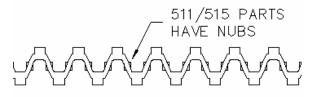


Assembly Information:

- New "Nubbed" parts used in center of belt only
- Two "OP" rods are used per pitch, see below
- Belt widths 28" and over require floater rod every pitch
- Belt widths 30" and over require steel floater rod every 4th pitch

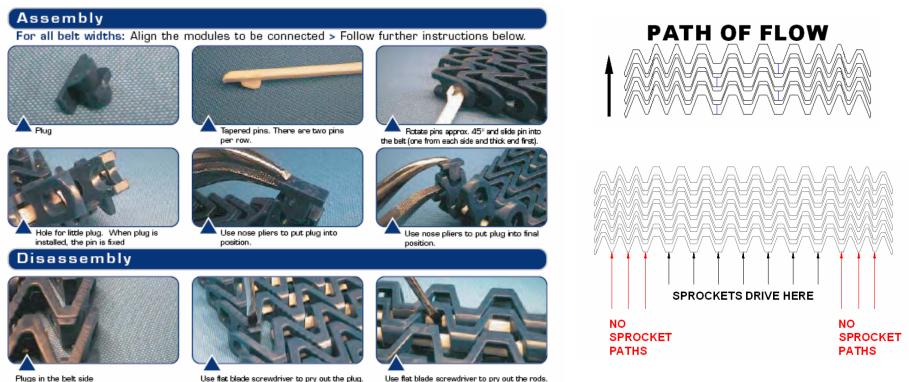
SMART PIN	BELT WIDTH
OP-0	6-9
OP-1	10-17
OP-2	18-29
OP-3	30-48







Installation/Maintenance Information:



Plugs in the belt side

Replace all removed rods as they will be damaged during disassembly.