

STRAIGHT RUNNING BELT SELECTION GUIDE

1. Belt Type Selection

BELT TYPE	OPEN AREA	BEST FOR	MAX WIDTH
Flat Flex	60 — 85%	Food, baking, general conveying	3000mm
CompactGrid	65 — 75%	Cooling, high airflow, light product	1200mm
Balanced Spiral	40 — 70%	Heavy product, high temp, general industrial	3000mm
Double Balanced Spiral	35 — 60%	Very heavy product, small items, tracking stability	3000mm
Conventional Weave	30 — 50%	Small parts, powder retention, high temp	2000mm
Gratex	50 — 70%	General purpose, versatile, medium load	3000mm

2. Material Selection

MATERIAL	MAX TEMP	CORROSION RES-IST.	APPLICATION
Carbon Steel (galvanized)	400°C / 750°F	Low	General industrial, non-corrosive
Stainless 304	750°C / 1380°F	High	Food, dairy, general corrosive
Stainless 316	750°C / 1380°F	Very High	Marine, chemical, pharmaceutical
Inconel 600	1100°C / 2000°F	Excellent	Furnace, extreme temp



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Plain Steel	500°C / 930°F	None (needs coating)	Low temp industrial, economy
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3. Wire Diameter Selection

PRODUCT WEIGHT	WIRE GAUGE	WIRE DIA. (MM)	NOTE
Light (< 5 kg/m²)	22 — 24 AWG	0.5 — 0.6mm	Delicate product, high open area
Medium (5 — 20 kg/m²)	18 — 20 AWG	0.8 — 1.0mm	Standard applications
Heavy (20 — 50 kg/m²)	14 — 16 AWG	1.6 — 2.0mm	Heavy product, high load
Very heavy (50+ kg/m²)	10 — 12 AWG	2.5 — 3.0mm	Maximum load, industrial

4. Sprocket Selection

BELT TYPE	MIN TEETH	PREFERRED TEETH	SPROCKET MATERIAL
Flat Flex	9	12+	UHMW or stainless
CompactGrid	8	12+	Stainless (standard)
Balanced Spiral	7	10+	Cast iron or stainless
Double Balanced	7	10+	Cast iron or stainless
Gratex	8	12+	Cast iron or stainless

BELT SELECTION SUPPORT