

Balanced Weave Belt

The most widely used process-industry belt: straight-running, high tensile strength and economical.

Balanced weave belts are the most commonly used belts across process industries — food processing, glass, ceramic and metal working. Left-hand and right-hand spirals are linked together with a crimped cross rod.

Because the stresses on both sides are evenly balanced, the belt runs smooth and straight with minimal expansion along its length or width and very little tendency to creep to either side of the drive pulley.

Construction

Alternating left-hand and right-hand spirals joined by crimped cross rods. The balanced construction keeps the belt tracking straight.

Key data

Item	Detail
Materials	Mild steel, Stainless steel (AISI 304, 316, 316L, 321), Heat-resisting grades (AISI 310, 310S), Inconel 600 and nickel-chrome on request
Wire	0.71 mm to 4.02 mm depending on type
Temperature	Depends on alloy — up to 1150 °C with high-nickel alloys (see materials guide)
Edges	Welded edge, Bent edge, Chain edge
Applications	Food processing, Glass and ceramic tile processing, Metal working and heat treatment, Drying and cooling lines

R-3 Type – Light conventional link belts

Specification	Mesh pitch	Wire dia.	Approx. weight (kg/m ²)
R-3: (2)-36-86-16	1.60	1.60 mm	22.00
R-3: (2)-48-94-16	1.60	1.60 mm	23.30
R-3: (2)-69-114-18	1.20	1.20 mm	16.30
R-3: (3)-28-71-14	2.00	2.00 mm	24.50
R-3: (4)-26-80-14-16	2.00	1.62 mm	19.50

Bracketed figure denotes the number of rods per set of coil.

R-4 Type – Light loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-4: 96-84-22	8"	0.71 mm	0.71 mm	5.20
R-4: 96-84-20	8"	0.91 mm	0.91 mm	6.45
R-4: 84-84-20	7"	0.91 mm	0.91 mm	5.40
R-4: 84-84-20	7"	1.20 mm	1.20 mm	12.20
R-4: 72-72-20	6"	0.91 mm	0.91 mm	6.00

R-5 Type – Light loads

Specification	Mesh pitch	Wire dia.	Spiral wire dia.	Approx. weight (kg/m ²)
R-5: 60-48-16	5"	1.60 mm	1.60 mm	13.50
R-5: 60-55-16	5"	1.60 mm	1.60 mm	14.65
R-5: 60-42-16	5"	1.60 mm	1.60 mm	12.30
R-5: 60-38-16	5"	2.00 mm	2.00 mm	20.20
R-5: 60-48-16	5"	2.00 mm	1.60 mm	17.40

R-6 Type – Light loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-6: 48-52-18	4"	1.20 mm	1.20 mm	6.20
R-6: 48-52-16	4"	1.60 mm	1.60 mm	8.10
R-6: 48-52-16	4"	1.60 mm	1.60 mm	11.20
R-6: 48-38-14	4"	2.00 mm	2.00 mm	18.30
R-6: 48-26-14-12	4"	2.00 mm	2.60 mm	16.10

R-16 Type – Medium loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-16: 36-22-12	3"	2.60 mm	2.60 mm	20.80
R-16: 36-22-12-10	3"	2.60 mm	3.25 mm	21.50
R-16: 36-24-14	3"	2.00 mm	2.00 mm	10.90
R-16: 36-20-14-12	3"	2.00 mm	2.00 mm	12.95
R-16: 36-32-16	3"	1.60 mm	1.60 mm	7.30

R-17 Type – Medium loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-17: 30-28-14	3/8"	2.00 mm	2.00 mm	9.80
R-17: 30-30-14-10	3/8"	2.00 mm	3.25 mm	9.50
R-17: 30-30-12	3/8"	2.60 mm	2.60 mm	20.65
R-17: 30-30-12	3/8"	2.60 mm	3.25 mm	9.70
R-17: 30-30-10	3/8"	3.25 mm	3.25 mm	23.70

R-18 Type – Medium loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-18: 18-12-08	3/4"	4.02 mm	4.00 mm	22.80
R-18: 18-10-10	3/4"	3.25 mm	3.25 mm	13.70
R-18: 18-17-10	3/4"	3.25 mm	2.60 mm	18.00
R-18: 18-16-10	3/4"	2.60 mm	2.60 mm	9.80
R-18: 18-15-14	3/4"	2.00 mm	2.00 mm	4.85

R-19 Type – Heavy-duty loads

Specification	Mesh pitch	Spiral wire dia.	Wire dia.	Approx. weight (kg/m ²)
R-19: 24-20-10	1.2"	3.25 mm	3.25 mm	22.80
R-19: 24-20-12-10	1.2"	2.60 mm	2.60 mm	13.70
R-19: 24-22-12	1.2"	2.60 mm	2.60 mm	18.00
R-19: 24-27-12	1.2"	2.60 mm	2.60 mm	9.80
R-19: 24-21-14	1.2"	2.00 mm	2.00 mm	4.85

How to read the code

Letter	Meaning
A	Number of spirals per foot of belt width
B	Number of cross rods per foot of belt length
C	Spiral wire diameter (gauge)
D	Cross-rod diameter

Belt specification R-X : A-B-C-D. R-X is the belt type.

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