

### Grade card for Belts (The Right Belt for the Right Job!)

DRIVE PARAMETER OR CONDITION	Belt Type And Rating													
	V-Belt							Vee-Band			Special			
	SUPER POWER-WEDGE	POWER-WEDGE COG-BELT	SUPER BLUE RIBBON	GOLD RIBBON COG-BELT	Vee-RIB	DURAPOWER II	SUPER II	ARAMAX	WEDGE-BAND	SUPER VEE-BAND	GOLD RIBBON COG-BAND	DOUBLE ANGLE	CONNECTOR BELTING	THORO-LINK
<b>General Ratings</b>														
Normal HP Limit (x 100 HP)	10	10	5	5	5	.05	5	5	10	5	5	2	3	3
Normal Ambient Temp. Range (°F) Min (-)	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Max <sup>①</sup>	130	130	120	130	130	120	130	130	130	120	130	120	120	130
Maximum Belt Speed (x 1000FPM) <sup>②</sup>	6.5	6.5	6	6	6	6	6	6	6.5	6	6	5	4	5
<b>Space Limitations</b>														
Minimum face width	A	A	C	A	B	C	C	C	A	C	A	C	C	C
Extremely Long Centers	B	B	B	B	B	C	B	B	A	A	A	C	C	C
Extremely Short Centers	A	A	C	B	A	B	B	C	B	C	B	C	C	C
Small Sheave Diameters	B	A	C	A	A	B	B	C	A	C	A	C	X	C
Overall Compactness	A	A	C	B	A	C	C	C	A	C	C	C	X	C
Light Weight Drive	B	A	C	B	A	B	C	C	A	C	B	C	C	C
No Take-Up Non-Std. Length	X	X	X	X	X	X	X	X	X	X	X	X	B	A
<b>Design Factors</b>														
Backside Idler	C	X	B	B	B	B	B	B	X	C	B	C	X	X
Clutching, Overload Slip <sup>③</sup>	C	B	B	X	C	C	B	B	B	B	X	C	X	X
Energy Efficiency	B	B	B	A	B	B	B	B	B	B	A	B	C	B
High Speed Ratio	B	A	C	B	A	B	B	C	A	C	B	C	X	C
Minimum Slip	C	B	C	A	B	C	B	C	B	C	A	C	C	C
Multi-Pitch Sheave	X	X	B	A	X	B	B	B	X	X	X	C	C	C
Machine Induced Pulsation	B	B	B	B	B	B	B	A	A	A	A	C	X	B
Quarter Turn Drive	B	C	B	X	X	C	C	C	X	X	X	X	X	C
Serpentine Drive	X	X	X	X	A	X	X	X	X	X	X	A	X	X
Shock Loads	C	B	B	C	C	B	B	A	A	B	C	C	X	C
Small Arc of Contact	C	B	C	A	A	B	B	C	C	C	A	C	X	C
Speed-Up Drive	B	A	B	A	A	B	B	B	A	B	A	C	C	C
Vee-Flat Drive (No Crown)	C	X	B	B	B	B	B	B	B	B	B	X	C	X
(Crown)	X	X	B	B	X	B	B	X	X	X	X	X	C	X
<b>Environmental Conditions</b>														
Chemicals, Ozone <sup>③</sup>	B	A	B	A	A	A	A	B	A	B	A	C	C	C
Dust, Abrasives	B	B	C	A	A	C	B	B	B	C	A	C	C	C
Excessive Heat	B	A	C	A	B	B	A	A	A	C	A	C	C	C
Excessive Moisture	B	A	C	A	A	A	A	B	A	C	A	C	X	C
Excessive Oil, Grease	B	A	B	A	A	B	A	B	A	B	A	B	C	C
Inaccessible for Maintenance	C	B	C	A	B	C	B	C	B	C	A	C	C	C
Static Dissipation	A	B	B	A	X	X	X	X	B	B	A	X	X	X

Key to Ratings: A - Excellent

B - Satisfactory

C - Use only if necessary to meet other conditions

X - Not recommended

① - Expect little or no life loss from heat

② - Normally limited by sheave materials

③ - May require special construction

if severe