



RAPPLON® Flat Belts

Roller Drive Flat Belts

When fast replacement matters most

RAPPLON® High Performance Flat Belts are available in a wide selection of belting solutions for all types of accumulation techniques.



Roller drive systems can be found everywhere – in logistics, in warehousing, in manufacturing and in the food industry. They are used for a wide variety of functions, from linking up different production processes to moving finished goods. Roller drive systems can reduce energy consumption and overall costs. They keep operations flowing smoothly, often while contending with difficult factors such as fully loaded stops and starts, temperature variations, and prolonged exposure to oil, grease and dirt.

A high-quality roller drive system will be able to overcome these difficulties and deliver non-stop efficient performance.

The RAPPLON range of high-performance flat belts comes with the Ammeraal Beltech reputation for operational reliability and around-the-clock onsite service. What's more, our QuickSplice belts make belt replacement faster and easier than ever, reducing your downtime to a minimum.

Roller drive systems

There are three main types of live roller conveyor systems:

- **Continuous running**, where goods don't stop on the conveyor. This system requires good grip on both the drive motor shaft and the rollers. XNBR rubber is often used on both sides of the belt, ensuring maximum power transfer.
- **Low or minimum pressure accumulation**, where the belt is pressed against the carrying rollers. When goods accumulate, pressure is reduced, the carrying rollers stop but the belt continues to run. The belt surface touching the rollers must be able to slip over them in this 'stop' phase but still have sufficient friction to drive them again when full pressure is reapplied.
- **Zero pressure accumulation**, where the pressure rollers move up and down to engage and disengage the belt from contact with the carrying rollers. As the drive belt does not come into contact with the carrying rollers during accumulation, friction covers can be used on both sides.

RAPPLON® Belts Customer Benefits

RAPPLON® QuickSplice belts with Polyester fabric as tension member:

- Fast and easy replacement, saving expensive downtime
- Failure-free joining, to keep the line rolling
- Uniform belt thickness over joint area for perfect after-splice performance
- No observable running direction
- High-strength option, even with small pulley diameters
- Impervious to moisture, for all-condition performance
- Dimensional stability, for efficiency and durability
- Permanently anti-static

RAPPLON® Classic High-Performance Flat Belts with PA-foil as tension member:

- Capable of handling heavy loads and high torque
- Permanently anti-static
- No tracking guides required

Selection Guide for the RAPPLON® Roller Drive Range

Technical Data for RAPPLON® Roller Drive Flat Belts

Article number	Belt type	Belt thickness in mm	Belt factor at 1% in N/mm	Min. Pulley diameter at 20°C in mm	Material Tension member	Friction top/ bottom	Endless Joining technology	Continuous running system	Full pressure / Zero pressure	Low pressure
RAPPLON® Quicksplice Flat Belts										
54607	GG E05.14 FFO	1.40	5	25	Polyester fabric	high/high	QuickSplice	X	X	
54614	GG E08.20 RRQ	2.00	8	25	Polyester fabric	high/high	QuickSplice	X	X	
54652	GG E10.30 RRQ FG	3.00	10	30	Polyester fabric	high/high	QuickSplice	X	X	
54655	GG E15.20 RFQ	2.00	15	25	Polyester fabric	high/high	QuickSplice	X	X	
54656	GG E15.25 RFQ	2.50	15	30	Polyester fabric	high/high	QuickSplice	X	X	
54657	GG E15.30 RFQ	3.00	15	40	Polyester fabric	high/high	QuickSplice	X	X	
54665	GG E22.25 RFQ	2.50	22	40	Polyester fabric	high/high	QuickSplice	X	X	
54666	GG E22.30 RFQ	3.00	22	60	Polyester fabric	high/high	QuickSplice	X	X	
54627	GG E35.30 RRQ	3.00	35	60	Polyester fabric	high/high	QuickSplice	X	X	
54624	TG E04.12 RQ	1.25	4	15	Polyester fabric	high/low	QuickSplice			X
54561	UU E15.20 RFQ	2.10	15	30	Polyester fabric	medium/medium	QuickSplice			X
54542	UU E15.30 RFQ	3.00	15	30	Polyester fabric	medium/medium	QuickSplice			X
54555	UU E22.20 RRQ	2.10	22	30	Polyester fabric	medium/medium	QuickSplice			X
54556	UU E22.30 RRQ	3.00	22	40	Polyester fabric	medium/medium	QuickSplice			X
RAPPLON® Classic Flat Belts										
54738	GG S04.17 RFC	1.70	4	20	Polyamide foil	high/high	Skived	X	X	
54734	GG S06.18 RFC	1.80	6	40	Polyamide foil	high/high	Skived	X	X	
54780	GG S06.30 RRC FG	3.00	6	30	Polyamide foil	high/high	Skived	X	X	
54733	GG S09.22 RFC	2.20	9	60	Polyamide foil	high/high	Skived	X	X	
54736	GG S09.30 RRC	3.00	9	60	Polyamide foil	high/high	Skived	X	X	
54530	GG S11.26 RFC	2.60	11	60	Polyamide foil	high/high	Skived	X	X	
54748	GG S15.30 RRC	3.00	15	80	Polyamide foil	high/high	Skived	X	X	
54749	GG S18.40 RRC	4.00	18	160	Polyamide foil	high/high	Skived	X	X	
54703	GT S06 RC	1.40	6	40	Polyamide foil	low/high	Skived			X
54704	GT S09 FC	1.90	9	40	Polyamide foil	low/high	Skived			X
54716	TG S06.30 RC	3.00	6	50	Polyamide foil	high/low	Skived			X



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Results Roller Drive Flat Belt Calculations RAPPLON

Project: Fives TEST Roller

Parameter	Calculated	Value	Unit	Description
1	E	54780	Article No.	GG E15.20 RRQ FG
2	E	620	mm	Roller diameter
3	E	30	mm	Roller width
4	E	2	%	Roller tolerance
5	E	1000	kg	Mass of transported goods
6	E	124	kg	Roller mass
7	E	1		Operation (1=rolling, 2=pushing, 3=recycling)
8	E	1		Roller material (1=steel, 2=aluminum, 3=wood, 4=plastic)
9	E	1		Roller surface (1=smooth, 2=ribbed, 3=profiled)
10	E	18.1	mm	Carrying roller diameter
11	E	1000	mm	Carrying roller length
12	E	2		Carrying roller material (1=steel, 2=aluminum)
13	E	800	mm	Center distance between 2 carrying rollers
14	E	12.17	kg	Mass of 1 carrying roller
15	E	46.54	kg	Mass of 4 carrying rollers
16	E	1		Pressure and force (1=1 pressure roller, 2=2 pressure rollers, 3=3 pressure rollers)
17	E	1		Roller 2 carrying rollers
18	E	1		Roller 3 carrying rollers
19	E	1		Roller 4 carrying rollers
20	E	1		Roller 5 carrying rollers
21	E	1		Roller 6 carrying rollers
22	E	1		Roller 7 carrying rollers
23	E	1		Roller 8 carrying rollers
24	E	1		Roller 9 carrying rollers
25	E	1		Roller 10 carrying rollers
26	E	1		Roller 11 carrying rollers
27	E	1		Roller 12 carrying rollers
28	E	1		Roller 13 carrying rollers
29	E	1		Roller 14 carrying rollers
30	E	1		Roller 15 carrying rollers
31	E	1		Roller 16 carrying rollers
32	E	1		Roller 17 carrying rollers
33	E	1		Roller 18 carrying rollers
34	E	1		Roller 19 carrying rollers
35	E	1		Roller 20 carrying rollers
36	E	1		Roller 21 carrying rollers
37	E	1		Roller 22 carrying rollers
38	E	1		Roller 23 carrying rollers
39	E	1		Roller 24 carrying rollers
40	E	1		Roller 25 carrying rollers
41	E	1		Roller 26 carrying rollers
42	E	1		Roller 27 carrying rollers
43	E	1		Roller 28 carrying rollers
44	E	1		Roller 29 carrying rollers
45	E	1		Roller 30 carrying rollers
46	E	1		Roller 31 carrying rollers
47	E	1		Roller 32 carrying rollers
48	E	1		Roller 33 carrying rollers
49	E	1		Roller 34 carrying rollers
50	E	1		Roller 35 carrying rollers
51	E	1		Roller 36 carrying rollers
52	E	1		Roller 37 carrying rollers
53	E	1		Roller 38 carrying rollers
54	E	1		Roller 39 carrying rollers
55	E	1		Roller 40 carrying rollers
56	E	1		Roller 41 carrying rollers
57	E	1		Roller 42 carrying rollers
58	E	1		Roller 43 carrying rollers
59	E	1		Roller 44 carrying rollers
60	E	1		Roller 45 carrying rollers

The right choice

We can help you choose the right belts for all your roller drive applications. To find exactly what you need, contact your nearest Ammeraal Beltech agent, and let us also tell you about our **E-RappCalc® Online Calculation Tool**, for easy and accurate dimensioning of your new RAPPLON® Flat Belt.

Please contact your nearest Ammeraal Beltech agent and complete our questionnaire. We will supply you the optimal belt for your system.

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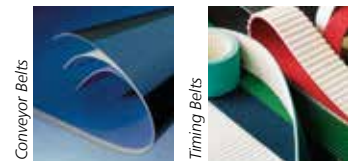
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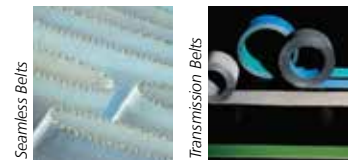
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