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(with online shop)

PUT THEM IN THE DRIVING SEAT!



WE MAKE THE WORLD MOVE

UNIQUE: INTERROLL'S NEW BELT DRIVES 80S DC AND 113S DC



Food processing, recycling, checkout stands, paper, cardboard and other industries: *If you are ready for the next step in state-of-the-art belt conveyor technology, put Interroll's latest product innovations in the driving seat!*

Interroll has introduced a completely new concept of belt drives providing maximum performance with low voltage. Interroll's 24 V DC Belt Drives - unique in the market - provide a premium package of advantages including:

- low voltage for higher safety
- 24 V DC for universal connection
- adjustable speed
- IP66/67 encapsulation
- low weight
- easy installation

- **Fast and easy installation**
Installation is simple and straightforward. All that is required is the fitting of two brackets, mounting and alignment of the motor and connection of the cables. Simply twice as fast as installing conventional drives.
- **Low noise**
Thanks to the totally sealed enclosure and high quality gears the Interroll DC Belt Drives run almost at a whisper. All components are encapsulated.
- **Cleanliness**
Because the Interroll Belt Drives 80S DC/113S DC are totally enclosed, they cannot contaminate foodstuffs, electrical components, plastics and other such materials that must be kept perfectly clean during handling.
- **Virtually maintenance-free**
Interroll DC Belt Drives are maintenance-free. Internal parts are lubricated for lifetime.
- **Factory fitted safety**
Since the only moving part of an Interroll DC Belt Drive is the rotating shell, it is safer than conventional drives safeguarding both people and goods. Low 24 V DC enhances safety even further.
- **Unmatched efficiency**
For unparalleled efficiency and reduced energy consumption, the Interroll DC Belt Drives are powered by an internal gearbox combined with a permanent magnet DC motor. This makes Interroll DC Belt Drives a most economical solution.
- **Space saving design, few parts**
A Interroll Belt Drive offers maximum power in minimal space. It consists of the drive and two fixing brackets only! Conventional drives are often more expensive because they require numerous separate components from different suppliers.

PRODUCT
NEWS 4/03

Technical Data:

Interroll Belt Drives 80S DC and 113S DC

How does it function?

The construction of the Interroll Belt Drives 80S DC/113S DC with DC motor is similar to the standard versions 80S/113S, but with a permanent magnet brush type DC motor and without oil. The gear box of the Interroll Belt Drives 80S DC/113S DC is lubricated for life with grease. It is primarily used in belt conveyors. For other applications please contact Interroll.

What are the diameters?

The standard shell diameters are $\varnothing 80$ mm and $\varnothing 113$ mm.

And what about the speed?

- Nominal voltage: 24 V DC
- Nominal Current: 2.7 A
- Please note that the speed is dependent on the load.
- Locket rotor current IK: 18 A

- The motor is EMC protected, and CE marked.
- Minimum cable length: 1.1 m outside shaft
- Allowable ambient temperature: 0° to 40°C
- Steel executions: full stainless steel or standard mild steel
- Cable: halogen-free cable is standard
- Recommended power supply type: regulated switch mode

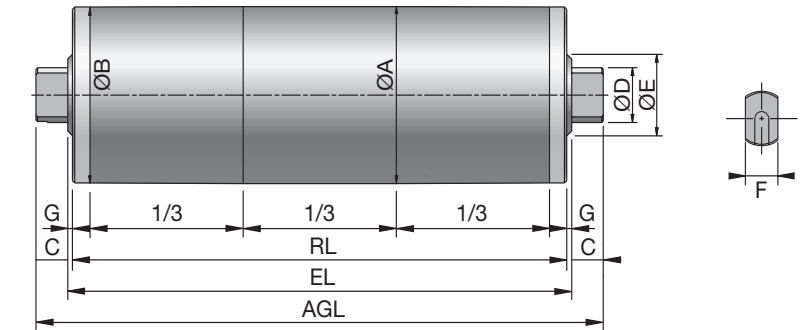


Advantages and features at a glance:

- Standard voltage for the Interroll Belt Drives 80S DC/113S DC is 24 V DC, but other voltages can be supplied upon request.
- Voltage adjustable for variable speed
- High starting torque 300%
- Dynamic braking possible
- Reversible
- Low noise level
- Min. RL = 295 mm, max. RL = 962 mm
- The Interroll Belt Drives 80S DC/113S DC must be current protected for overload protection of gearbox and DC motor.
- Approximate speeds, torque and belt pull (see tables on next page)
- IP66/67 protection
- Min. expected lifetime: 3000 operation hours / 3 Mio. starts/stops
- Max. starts/stops: 20 per minute

Standard dimensions Interroll 80S DC and 113S DC Belt Drives

Interroll Belt Drive, global standard



* allow 2.2 mm for cable protrusion

	A mm	B mm	C mm	D mm	E mm	F mm	G mm	RL mm	EL mm	AGL mm
80S DC	81,5	80	20	35	45	21	3	2,2	RL+6	RL+46
113S DC	113,5	112,5	20	35	45	21	3	2,2	RL+6	RL+46

Interroll Belt Drive 80S DC

Motor

Power kW/HP	Voltage	Current IF	Gear stage	Nominal belt speed at full load m/s	Belt speed at no load m/s	Torque Nm	Belt pull N	Min. RL mm	Max. radial load (T1+T2) in N	Standard IP67 Weight kg RL 295 to 962							
0.060/0.082	24V DC	2.7 A	3	0,12	0,14	12,6	315	295	2000	4.1 to 9.2							
				0,15	0,17	10,5	263										
				0,18	0,21	8,6	215										
				0,20	0,23	7,8	195										
				0,23	0,26	7,0	175										
				0,27	0,31	5,8	145										
				0,30	0,34	5,4	135										
				0,33	0,38	4,7	118										
							2				0,76	0,84	1,6	40	295	1500	
											0,90	1,00	1,3	33			
1,10	1,23	1,1	28														

Interroll Belt Drive 113S DC

Motor

Power kW/HP	Voltage	Current IF	Gear stage	Nominal belt speed at full load m/s	Belt speed at no load m/s	Torque Nm	Belt pull N	Min. RL mm	Max. radial load (T1+T2) in N	Standard IP67 Weight kg RL 295 to 962							
0.060/0.082	24V DC	2.7 A	3	0,18	0,20	12,6	224	295	2000	5.5 to 13,0							
				0,21	0,24	10,5	186										
				0,26	0,30	8,6	152										
				0,29	0,33	7,8	139										
				0,32	0,37	7,0	123										
				0,39	0,44	5,8	103										
				0,42	0,48	5,4	95										
				0,47	0,54	4,7	84										
							2				1,07	1,18	1,6	29	295	1500	
											1,28	1,42	1,3	24			
1,56	1,73	1,1	19														