



The Martin® PIT VIPER™ Pre-Cleaner was specially developed to simplify blade replacement and to reduce costs. It makes it possible to quickly and easily replace the blade without any tools by removing and reinserting a single retaining pin.

Technical data:

Max. belt speed	2.5 m/s
Head pulley diameter*	200 - 400 mm
Belt width	500 - 2400 mm
Mainframe type	painted (RAL 2004) or stainless steel (1.4571)
Operating temperature**	-20°C to +70°C
Max. bulk material temperature***	+70 °C
all urethanes except green	+150°C
Green	(intermittently up to +177 °C)

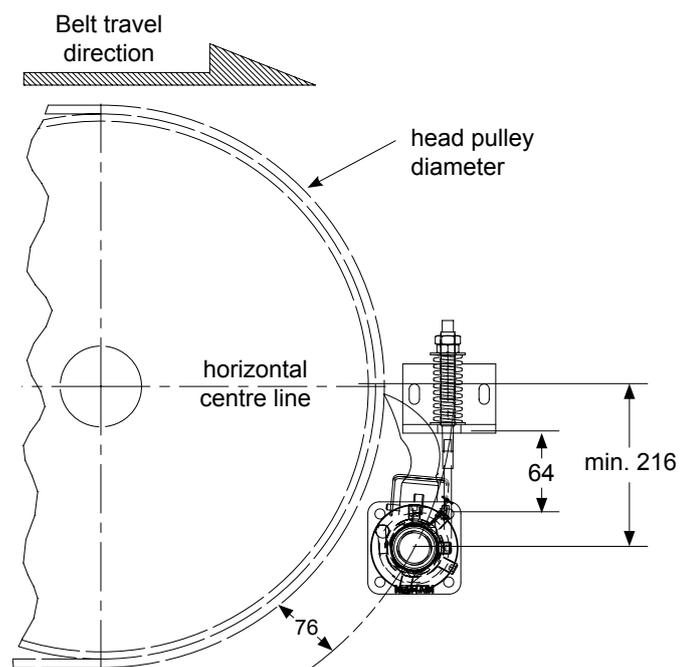
* For head pulley diameters over 400 mm please contact Martin Engineering.

** For operating temperatures below -20 °C, Martin Engineering can offer suitable heating for the components. Please contact Martin Engineering for further information.

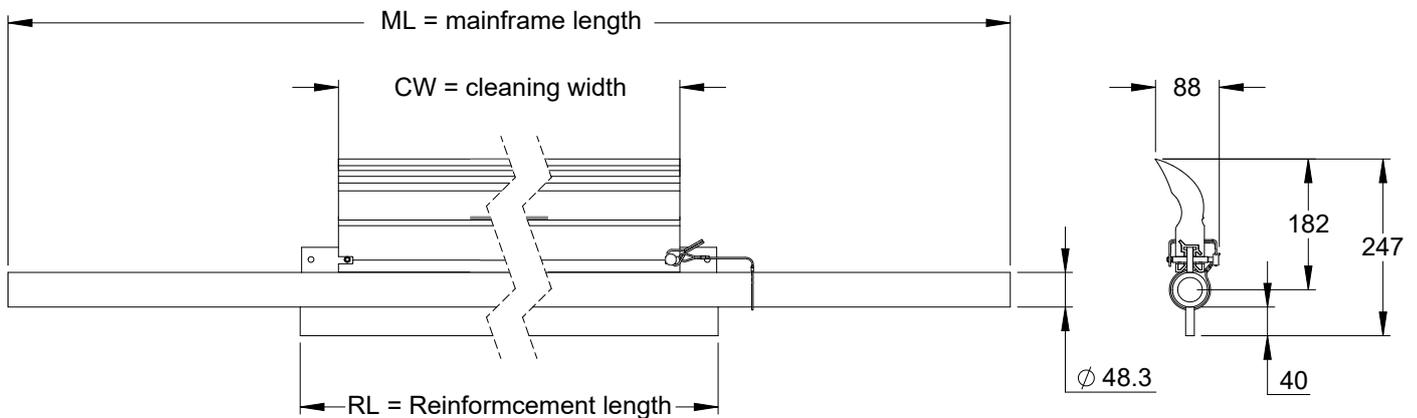
*** Further specifications see data sheet L3375.

Features

- Effective cleaning performance**
Excellent cleaning performance in connection with an outstanding price-performance ratio. Thanks to the newly developed blade and its uniform wear pattern, the pre-cleaner must only be re-tightened about every six months.
- Maintenance without tools**
Fast replacement of the blade – no tools required; simply remove and reinstall a single retaining pin.
- Robust design**
The sturdy mainframe is reinforced with welded on sheet material. The aluminium seating of the blade ensures safe fixing to the mainframe.
- Installation position**



Martin® PIT VIPER™ Pre-Cleaner - Dimensions



Part no.: PV1S-XXXXXXXXXX+E

Belt width		CW narrow		CW wide		ML*	RL	Cleaner weight without tensioner		Tensioner design	
[in]	[mm]	[in]	[mm]	[in]	[mm]	[mm]	[mm]	[kg]		single	dual
18	(500)	12	305	16	406	1219	-	12	12	X	-
24	(650)	18	457	22	559	1372	-	14	14.5	X	-
30	(800)	24	610	28	711	1524	-	16	16.5	X	-
36	(1000)	30	762	34	864	1676	-	18.5	19	X	-
42	(1200)	36	914	40	1016	1829	-	21	21.5	X	-
48	(1400)	42	1037	46	1168	1981	-	23	23.5	-	X
54	(1600)	48	1219	52	1321	2134	1325	30.5	31	-	X
60	(1800)	54	1372	58	1473	2286	1477	33	33.5	-	X
72	(2000)	66	1676	70	1778	2591	1782	39	39.5	-	X

* The mainframe length (ML) can be extended in fixed increments of 100 mm up to a total length, which does not extend more than 600 mm beyond the standard length.

Note on narrow and wide cleaning width

The area of the conveyor belt to be cleaned has to be taken into account when selecting the correct cleaning width. Martin Engineering recommends that the outer cleaner edges should not protrude beyond the area to be cleaned by more than approx. 100 mm because not the entire width of the conveyor belt has to be cleaned and the blades would wear less in the protruding area. This recommendation can only be used as a rough selection criterion. Please contact Martin Engineering in case of questions or problems.

Martin® PIT VIPER™ Pre-Cleaner - Part numbers

Martin® PIT VIPER - Part number explanation

PV1S-aabbccddeef-gg+E

a	Belt width in inches
b	Blade design
11:	solid
10:	segmented
c	Cleaning width in inches
d	Urethane type
OR:	orange
BR:	brown (chemical resistance)
CL:	clear (dry bulk material)
GR:	green (resistant to temperature)
NB:	navy blue (sticky bulk material)
e	Option for mainframe
P:	painted (RAL 2004 - Orange)
A4:	stainless steel (1.4571)
f	Inline-Reversing tensioner
Ø:	without tensioner
T:	with Twist Inline-Reversing tensioner
C:	with Spring Cable Tensioner
g	Extended mainframe in dm

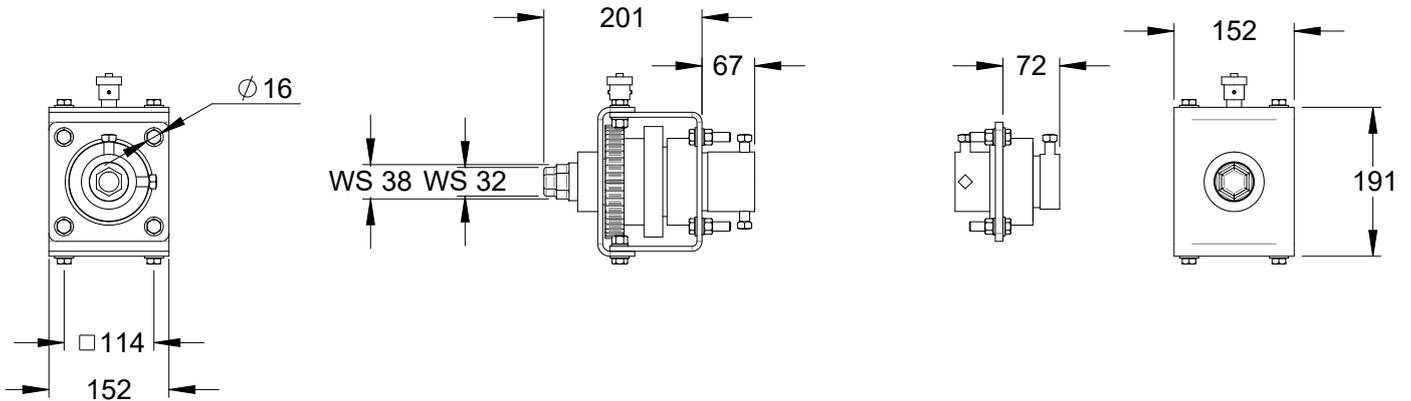
Spare blade part number for PIT VIPER™ Pre-Cleaner	Blade colour	Scope of application
PV-XXXXXXOR	Orange	Suitable for 80% of all applications
PV-XXXXXXBR	Brown	Usage with chemicals
PV-XXXXXXCL	Clear	Usage for dry bulk materials
PV-XXXXXXGR	Green	Usage at temperatures exceeding 120 °C
PV-XXXXXXNB	Navy blue	Usage for sticky bulk materials

Tensioners for PIT VIPER™ Pre-Cleaner	Part no.	Weight
		[kg]
Martin® Twist tensioner	31443-I+E	17
Martin® Twist tensioner (dual)	31443-2RI+E	26
Martin® Twist tensioner - round	38850	9
Martin® Twist tensioner (Dual) - round	38850-2	14
Martin® Cable Tensioner	37944	6
Martin® Cable tensioner (dual)	37944-2	8

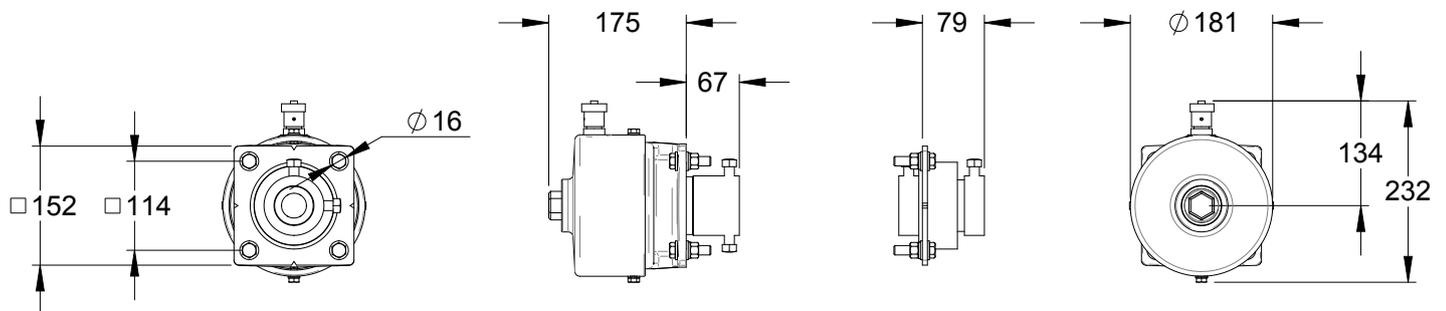
Accessories	Part no.
Martin® Inspection Door (steel)	CYA-XXXXXXXXX+E
Martin® Inspection Door (rubber)	CYAR-XXXXXXXXX+E
Martin® Hanger Mount	27382+E

Tensioners - Dimensions

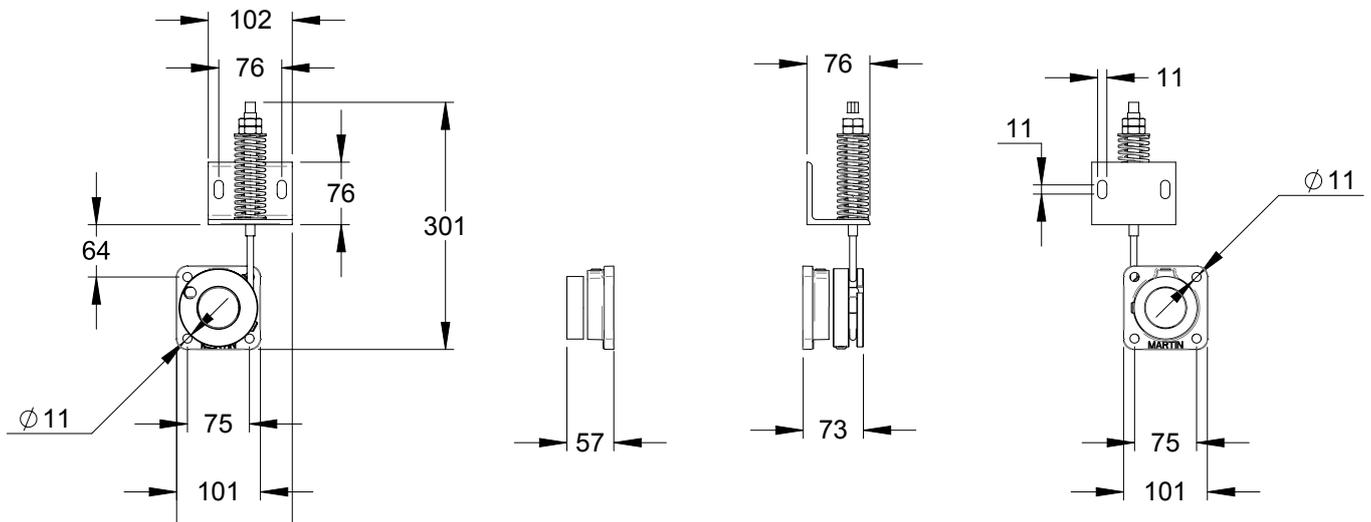
Martin® Twist tensioner (Part no. 31443-I+E)



Martin® Twist tensioner - round (Part no. 38850)



Martin® Cable tensioner (Part-No. 37944)



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Subject to technical modifications. Quality management system certified to DNV - ISO 9001