Montanari
NORTH AMERICA Inc.

MBA
BELTED

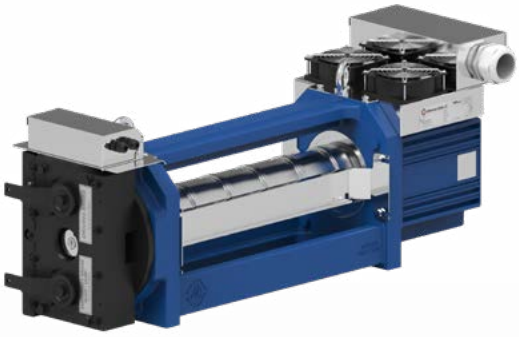
GEARLESS LINE

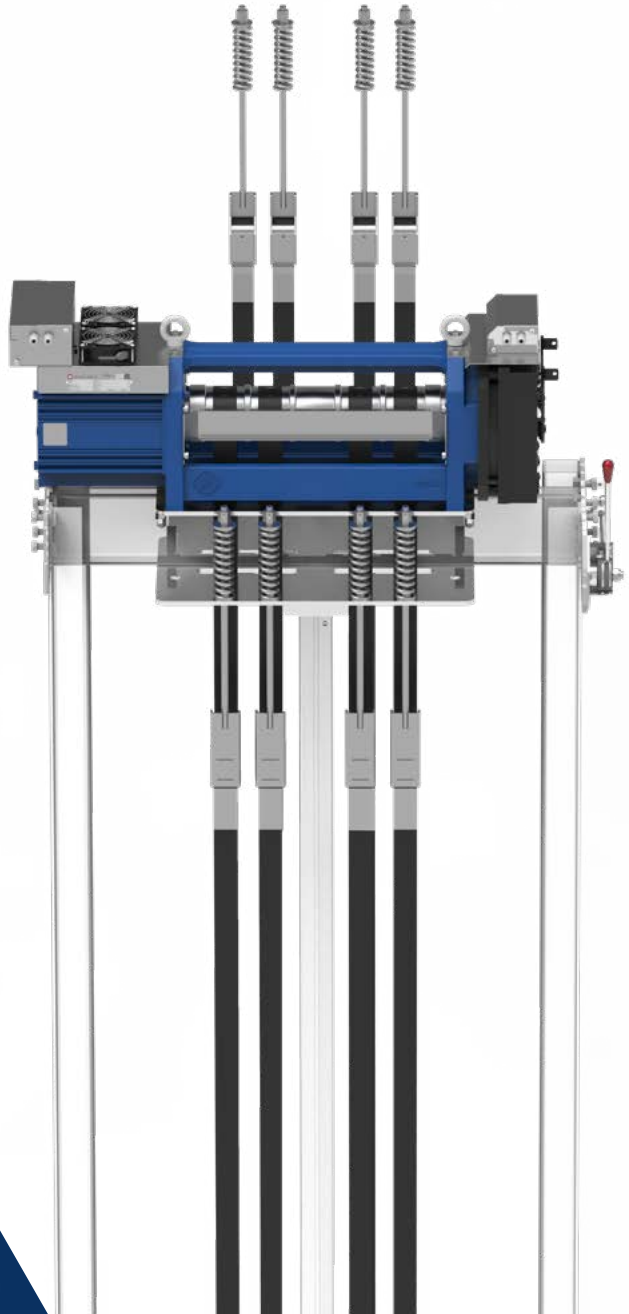
YOUR MODERNIZATION SOLUTION.

01. **BELTED LINE**

The game-changing gearless line for elevator modernizations & new installations

The MBA gearless line from Montanari is engineered to deliver **outstanding performance, proven reliability, and exceptional versatility for North American** elevator applications.





Backed by **55+ years of elevator industry experience and advanced engineering**, Montanari was among the first manufacturers worldwide to develop a **comprehensive range of traction solutions for belt-driven elevator systems.**

Designed and manufactured in Italy, CSA certified, and engineered specifically for North American applications, MBA gearless machines deliver exceptional performance in even the most demanding applications.

In addition to high-performance traction machines **(MBA140 and MBA200)**, we offer **complete accessory packages** - including deflector sheaves, shackles, and belts - to **simplify selection and match site-specific requirements**.

02. MADE TO PERFORM

Capacity - Load range

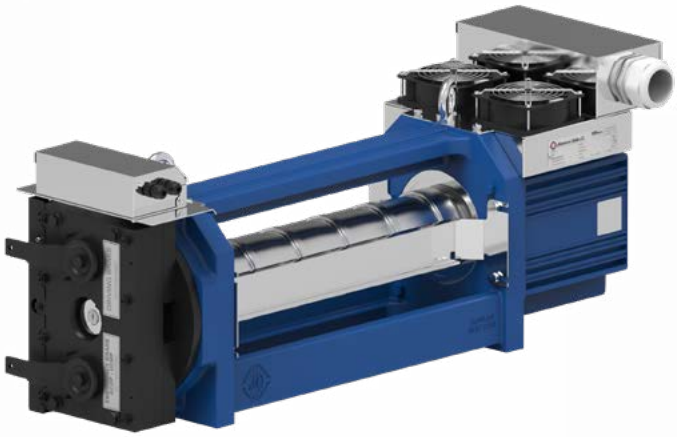
2000 → 5000 lbs

Speeds up to

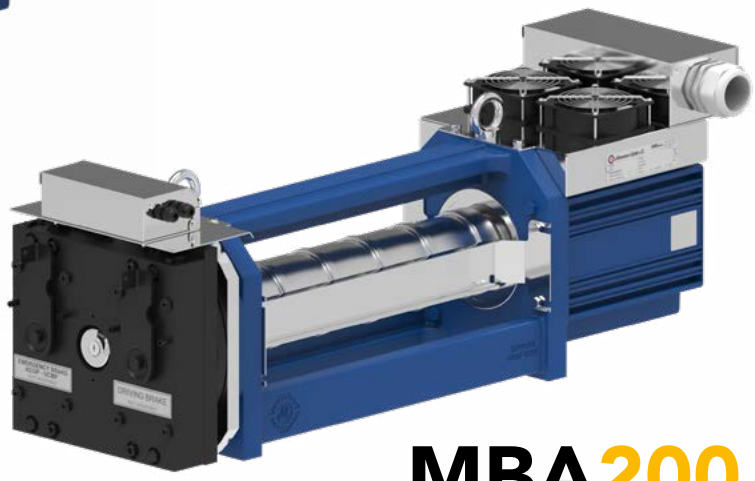
500 fpm

2:1 Roping

Available in multiple shaft configurations



MBA140



MBA200

2:1		CAPACITY [lbs]				
		2500	3000	3500	4500	5000
SHEAVE DIAM. [in]	3.50*	MBA140				
	3.94	MBA140				
		MBA200				
	4.53	MBA140				
		MBA200				
	5	MBA200				

*Grooved belt configurations

BELTED GEARLESS

MBA140

4 to 6 belts

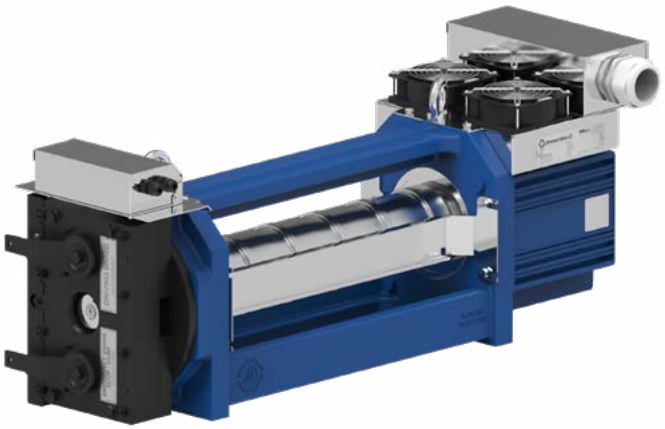
max static load
9920 lbs

capacity
up to 3500 lbs

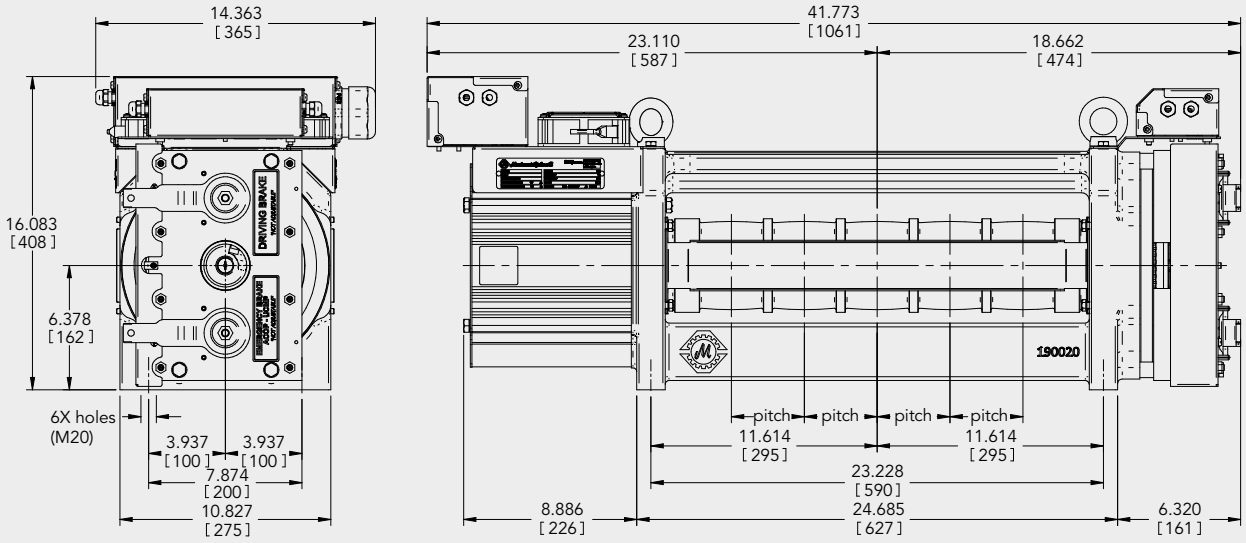
speeds
up to 400 fpm

roping
2:1

machine weight
518 lbs



NOMINAL TORQUE		SHORT CIRCUITED TORQUE		POLES	ENCODER Mod.
[Nm]	[ft-lbs]	[Nm]	[ft-lbs]	[n°]	
250	**184.39**	300	221	16	Endat



MBA140
belted gearless

BRAKE		
FEATURES	**DRIVING BRAKE**	**EMERGENCY BRAKE ACOP AND UCMP**
Type	RTW350	RTW350
Force	410 Nm / 302 ft-lbs	410 Nm / 302 ft-lbs
Pick voltage	207VDC - 0.4 A	207VDC - 0.4 A
Hold voltage	207VDC - 0.4 A	207VDC - 0.4 A
Power	82 W (0.11 hp)	82 W (0.11 hp)
Brake certification	CSA 1182018	CSA 1182018

										360V		210V	
	CAPACITY	**SPEED**	**SHEAVE Ø**	**TORQUE**		**POWER**		**ROTAT.**	**FREQ.**	**CURRENT**	**MACHINE**	**CURRENT**	**MACHINE**
	lbs	fpm	in	Nm	ft-lbs	kW	Hp	RPM	Hz	A	CODE	A	CODE
2:1	2500	150	3.94	184	135	5.4	7.3	283	37.7	13.6	MBA14102873XXXX	25.0	MBA14105733XXXX
			4.53	211	156	5.5	7.3	247	32.9	15.6	MBA14102873XXXX	28.7	MBA14105733XXXX
		200	3.94	184	135	7.2	9.7	377	50.2	16.9	MBA14103823XXXX	31.2	MBA14107643XXXX
			4.53	211	156	7.3	9.8	329	43.9	19.4	MBA14103823XXXX	35.9	MBA14107643XXXX
		350	3.94	184	135	12.7	17.0	659	87.9	28.6	MBA14106683XXXX	N/A	N/A
			4.53	211	156	12.7	17.1	576	76.7	32.9	MBA14106683XXXX	N/A	N/A
		400	3.94	184	135	14.5	19.4	754	100.5	31.2	MBA14107643XXXX	N/A	N/A
			4.53	211	156	14.5	19.5	658	87.7	32.9	MBA14106683XXXX	N/A	N/A
	3000	150	3.94	216	160	6.4	8.6	283	37.7	16.0	MBA14102873XXXX	29.4	MBA14105733XXXX
			4.53	249	184	6.4	8.6	247	32.9	18.4	MBA14102873XXXX	33.8	MBA14105733XXXX
		200	3.94	216	160	8.5	11.4	377	50.2	19.9	MBA14103823XXXX	36.8	MBA14107643XXXX
			4.53	249	184	8.6	11.5	329	43.9	22.9	MBA14103823XXXX	42.3	MBA14107643XXXX
		350	3.94	216	160	14.9	20.0	659	87.9	36.8	MBA14107643XXXX	N/A	N/A
			4.53	249	184	15.0	20.1	576	76.7	38.8	MBA14106683XXXX	N/A	N/A
		400	3.94	216	160	17.1	22.9	754	100.5	36.8	MBA14107643XXXX	N/A	N/A
			4.53	249	184	17.1	23.0	658	87.7	42.3	MBA14107643XXXX	N/A	N/A

										360V		210V	
	CAPACITY	**SPEED**	**SHEAVE Ø**	**TORQUE**		**POWER**		**ROTAT.**	**FREQ.**	**CURRENT**	**MACHINE**	**CURRENT**	**MACHINE**
	[lbs]	[fpm]	[in]	[Nm]	[ft-lbs]	[kW]	[Hp]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
2:1*	2500	200	3.50	156	115	7.5	10.0	457	60.9	21.2	MBA14105733XXXX	35.0	MBA14105732XXXX
		350	3.50	156	115	11.9	16.0	731	97.4	26.5	MBA14107643XXXX	N/A	N/A
	3000	200	3.50	184	136	8.8	11.8	457	60.9	25.0	MBA14105733XXXX	41.2	MBA14105732XXXX
		350	3.50	184	136	14.1	18.9	731	97.4	31.3	MBA14107643XXXX	N/A	N/A
	3500	200	3.50	212	156	10.1	13.6	457	60.9	28.8	MBA14105733XXXX	47.4	MBA14105732XXXX
		350	3.50	212	156	16.2	21.7	731	97.4	36.0	MBA14107643XXXX	N/A	N/A

*Machines for grooved belt applications

BELTED GEARLESS

MBA200

4 to 6 belts

max static load
9920 lbs

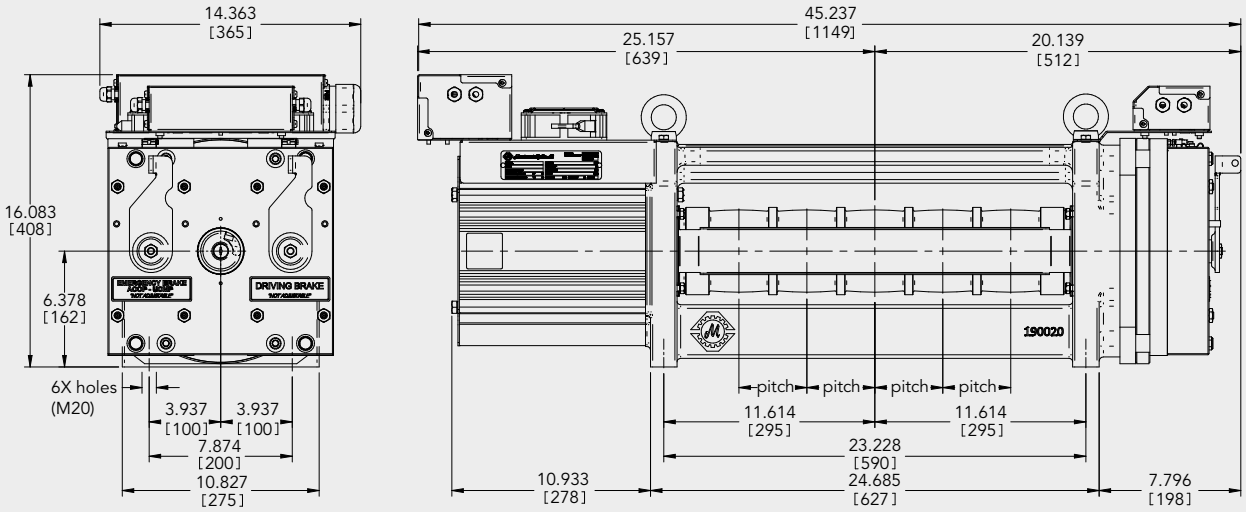
capacity
up to 5000 lbs

speeds
up to 500 fpm

roping
2:1

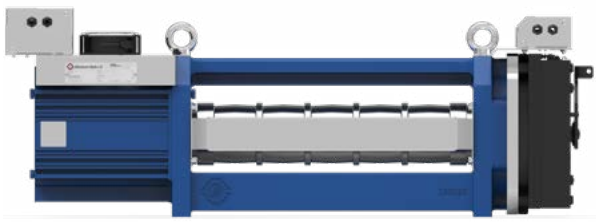
machine weight
606 lbs

NOMINAL TORQUE		SHORT CIRCUITED TORQUE		POLES	ENCODER Mod.
[Nm]	[ft-lbs]	[Nm]	[ft-lbs]	[n°]	
365	**269**	450	331	16	Endat



MBA200
belted gearless

BRAKE		
FEATURES	**DRIVING BRAKE**	**EMERGENCY BRAKE ACOP AND UCMP**
Type	RTW600	RTW600
Force	600 Nm / 442 ft-lbs	600 Nm / 442 ft-lbs
Pick voltage	207VDC - 0.45 A	207VDC - 0.45 A
Hold voltage	207VDC - 0.45 A	207VDC - 0.45 A
Power	92 W (0.12 hp)	92 W (0.12 hp)
Brake certification	CSA 1182018	CSA 1182018



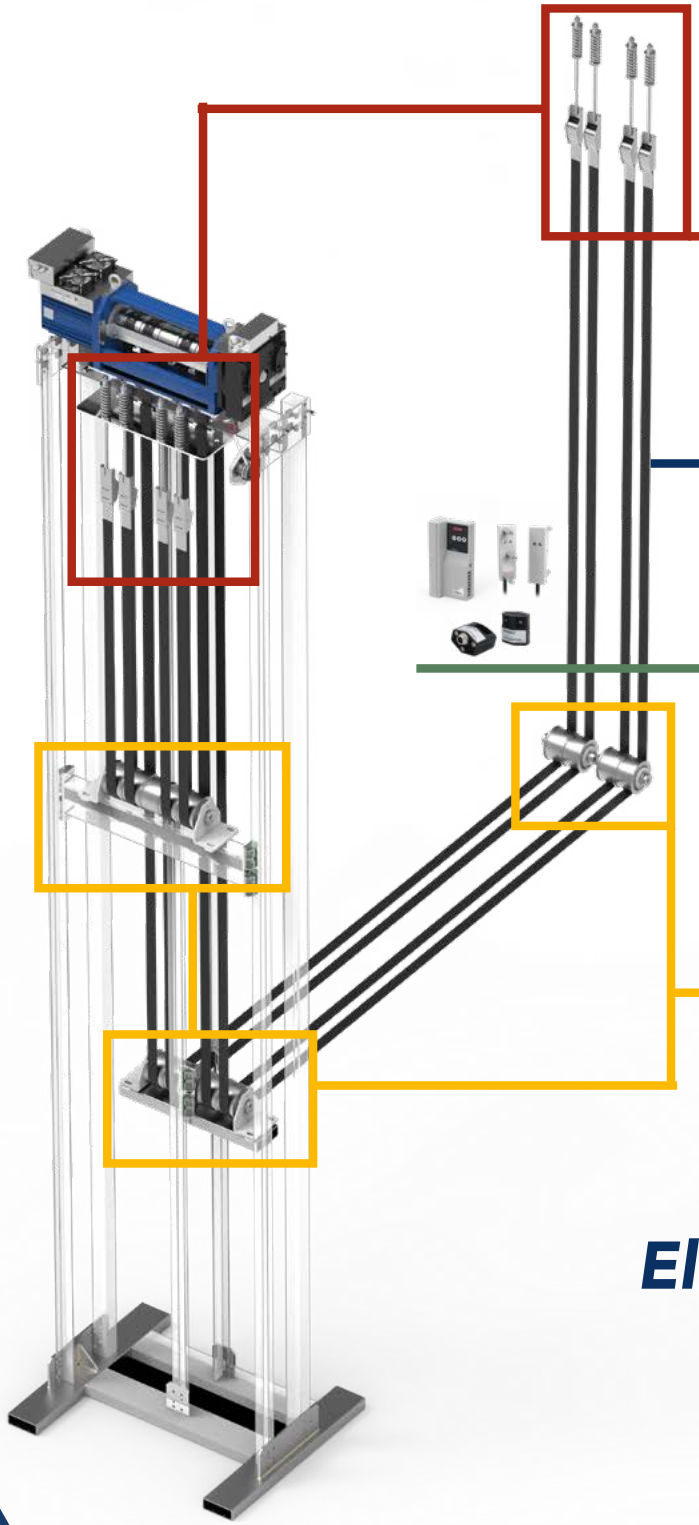
										360V		210V	
	CAPACITY	**SPEED**	**SHEAVE Ø**	**TORQUE**		**POWER**		**ROTAT.**	**FREQ.**	**CURRENT**	**MACHINE**	**CURRENT**	**MACHINE**
	lbs	fpm	in	Nm	ft-lbs	kW	Hp	RPM	Hz	A	CODE	A	CODE
2:1	2500	500	5.00	233	172	18.2	24.4	746	99.5	41.5	MBA20157643XXXX	N/A	N/A
	3000	500	5.00	275	203	21.5	28.8	746	99.5	48.9	MBA20157643XXXX	N/A	N/A
	3500	150	3.94	249	184	7.4	9.9	283	37.7	21.8	MBA20153323XXXX	44.3	MBA20153322XXXX
			4.53	286	211	7.4	9.9	247	32.9	25.1	MBA20153323XXXX	51.0	MBA20153322XXXX
		200	3.94	249	184	9.8	13.2	377	50.2	21.8	MBA20153823XXXX	44.3	MBA20153822XXXX
			4.53	286	211	9.9	13.2	329	43.9	25.1	MBA20153323XXXX	51.0	MBA20153322XXXX
		350	3.94	249	184	17.2	23.1	659	87.9	44.3	MBA20156693XXXX	70.3	MBA20156692XXXX
			4.53	286	211	17.3	23.1	576	76.7	40.4	MBA20155823XXXX	80.8	MBA20156692XXXX
		400	3.94	249	184	19.7	26.4	754	100.5	44.3	MBA20157643XXXX	70.3	MBA20157642XXXX
			4.53	286	211	19.7	26.5	658	87.7	51.0	MBA20156693XXXX	80.8	MBA20156692XXXX
		500	5.00	316	233	24.7	33.1	746	99.5	56.3	MBA20157643XXXX	89.3	MBA20157642XXXX
	4500	150	3.94	314	232	9.3	12.5	283	37.7	27.6	MBA20153323XXXX	56.0	MBA20153322XXXX
			4.53	362	267	9.3	12.5	247	32.9	31.7	MBA20153323XXXX	64.4	MBA20153322XXXX
		200	3.94	314	232	12.4	16.6	377	50.2	27.6	MBA20153823XXXX	56.0	MBA20153822XXXX
			4.53	362	267	12.5	16.7	329	43.9	31.7	MBA20153323XXXX	64.4	MBA20153322XXXX
		350	3.94	314	232	21.7	29.1	659	87.9	56.0	MBA20156693XXXX	88.7	MBA20156692XXXX
			4.53	362	267	21.8	29.2	576	76.7	51.0	MBA20155823XXXX	102.0	MBA20156692XXXX
		400	3.94	314	232	24.8	33.3	754	100.5	56.0	MBA20157643XXXX	88.7	MBA20157642XXXX
			4.53	362	267	24.9	33.4	658	87.7	64.4	MBA20156693XXXX	102.0	MBA20156692XXXX
	5000	150	3.94	347	256	10.3	13.8	283	37.7	30.4	MBA20153323XXXX	61.8	MBA20153322XXXX
		200	3.94	347	256	13.7	18.4	377	50.2	30.4	MBA20153823XXXX	61.8	MBA20153822XXXX
		350	3.94	347	256	24.0	32.1	659	87.9	61.8	MBA20156693XXXX	98.0	MBA20156692XXXX

03. ACCESSORIES

Beyond the traction machine itself, the MBA line includes complete **accessory packages** that simplify product selection and streamline **turnkey installations.**

MBA packages combine the ***gearless machine, deflector sheaves, shackles (belt attachments), and belts to match your specific system requirements.***

MBA machines and accessories are also **compatible with most commercially available elevator belts.**



Select & install

Shackles / Belt attachments -
2x number of belts

Belts - Multiple types available. Length based on installation features

Belt Monitoring Device

Belt deflector sheaves

Elevator installations made easy!

DEFLECTOR SHEAVES

A versatile selection of deflector sheaves with **smooth or grooved configurations** to match most belt types and support a wide range of installation requirements.

DEFLECTOR SHEAVES									
CODE	SHEAVE TYPE	Ø SHEAVE		N° BELTS	PITCH		BELT MODEL	MACHINE	
		in	mm		in	mm		lbs	kg
PB100204A150030	INDEPENDENT SHEAVES	3.93	100	2	2.55	65	FLAT Lmax = 30 mm Multiple Brands	6830	3100
PB100404A280030				4	2.55	65			
PB100504A345030				5	2.55	65			
PB115204A150030		4.5	115	2	2.55	65			
PB115404A280030				4	2.55	65			
PB115504A345030				5	2.55	65			
PB1502016272010		5.9	150	2	3.74	95	FLAT Lmax = 60 mm Multiple Brands	4960	2250
PB1504016462010				4	3.74	95		9920	4500
PB1505016557010				5	3.74	95			
PB0852124102040		3.34	85	2	1.97	50	GROOVED CONTI POLYROPE 33-8 x 2.0	3090	1400
PB0854124330040				4	1.97 - 6.7 - 1.97	50 - 170 - 50		6180	2800

BELTS SELECTION

The MBA product line accessories also includes a **specialized selection of elevator belts chosen for their high-performance** and versatility - to meet a wide range of system configurations.

BELTS				
CODE	DIMENSIONS		MODEL	MAX CAPACITY
	in	mm		kN
C300033005200	1.181 x 0.129	30x3.3	MEGADYNE Megalinear 30 P3.3	52
C300034045300	1.181 x 0.133	30x3.4	BRUGG BRUbelt	52
C330037014000	1.299 x 0.145	33x3.7	CONTITECH CONTI POLYROPE 33-8x2.0	40
C500033028300	1.968 x 0.129	50x3.3	MEGADYNE Megalinear 50 P3.3	83.2

Plug & Play Modernizations

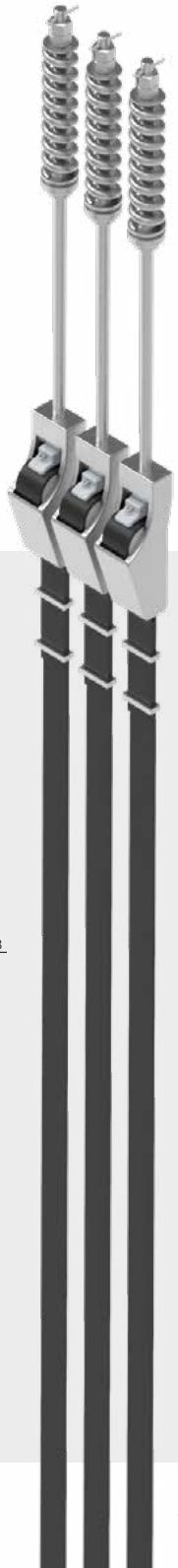
To reduce modernization cost and installation time, it is often best to ***retain the existing system configuration whenever possible*** - replacing outdated equipment while maintaining the original layout and belt count.

Montanari was among the first to develop ***true bolt-for-bolt replacement solutions.***

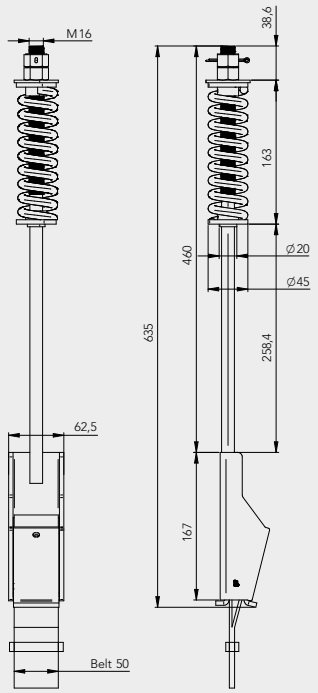
SHACKLES
BELT ATTACHMENTS

Belt attachment selection depends on the installed belt type and system configuration. Montanari offers belt attachments **in multiple lengths and capacity ratings** to match jobsite and installation requirements, suitable for both **flat and grooved belts.**

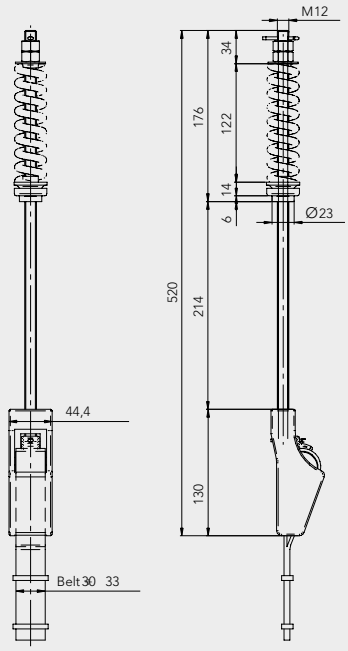
SHACKLES - BELT ATTACHMENTS					
CODE	WIDTH		LENGTH		MAX CAPACITY
	mm	in	mm	in	kN
AC00011070	30÷33	1.181÷1.299	320	12.598	52
AC00011071	30÷33	1.181÷1.299	520	20.472	52
AC00011072	50	1.968	635	25	83.2



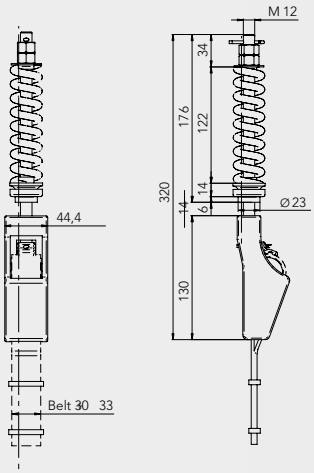
BELT ATTACHMENT
AC00011072



BELT ATTACHMENT
AC00011071



BELT ATTACHMENT
AC00011070



BELTS MONITORING SYSTEM

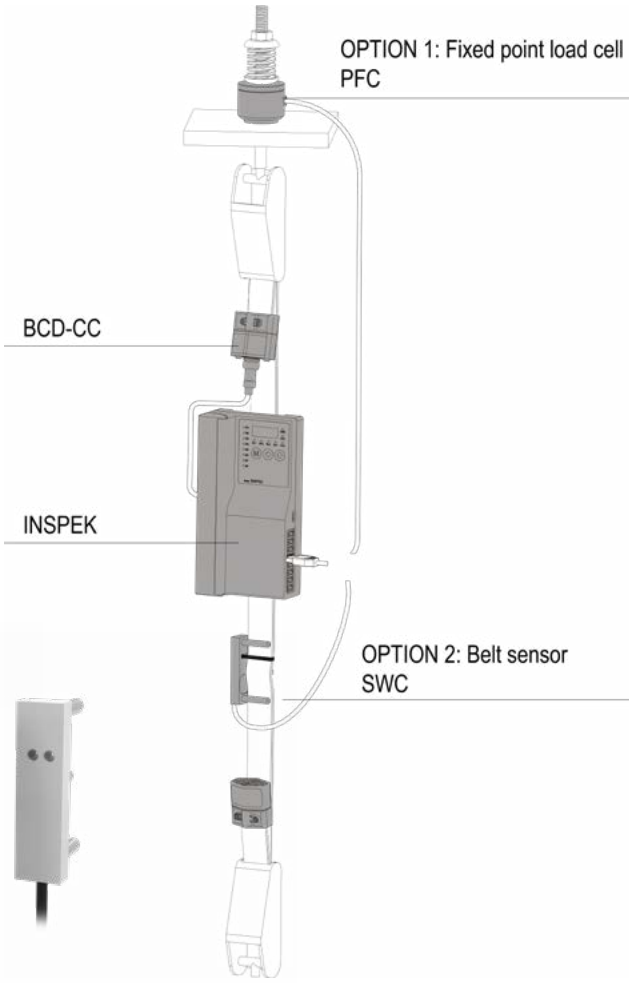
The **INSPEK belt monitoring device** (supplied by Montanari) combines three critical system data points to provide a **real-time belt monitoring**:

- **Load measurement**
- **Broken belt detection**
- **Belt tension monitoring**

Traditional belt-break detection systems rely on electrical continuity and typically trigger an alarm only after a complete belt failure. **INSPEK is designed to detect gradual, progressive degradation** that can put the entire belt set at risk.

BELT MONITORING KITS	
AV00000455	KIT INSPEK 30 mm - 1.181 in (4 BELTS)
AV00000457	KIT INSPEK 50 mm - 1.968 in (4 BELTS)
AV00000456	KIT INSPEK 30 mm - 1.181 in (5 BELTS)
AV00000458	KIT INSPEK 50 mm - 1.968 in (5 BELTS)

By identifying defects and potential risks early, INSPEK helps maximize **uptime, safe system operation, and a more proactive maintenance.**



Smarter monitoring.
Safer installations.

YOUR SPECIALIZED PARTNER FOR MR / MRL INSTALLATIONS & MODERNIZATIONS

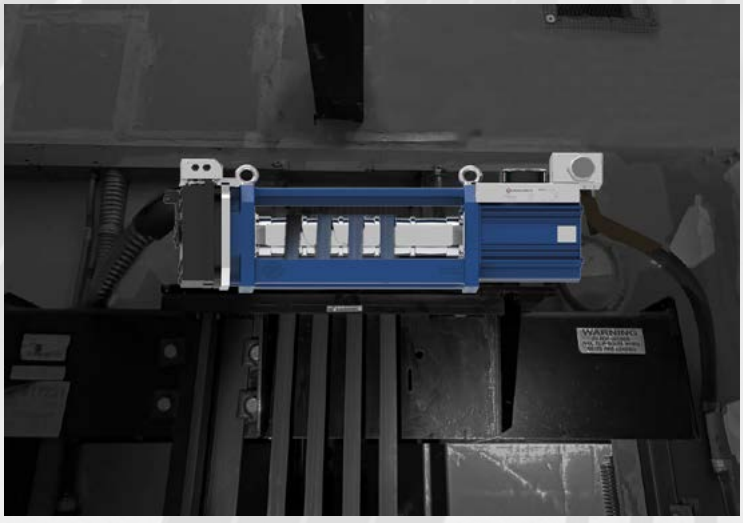
MBA - A SINGLE PRODUCT LINE TO SOLVE ANY INSTALLATION NEED.

Decades of industry experience and advanced engineering enable Montanari to support North American elevator professionals with **Made-in-Italy, CSA-certified solutions.**

Our solutions improve **ride quality and system performance while reducing installation time** and overall project **cost:**

- **site-specific technical analysis**
- **flexible machine configurations**
- **custom interface solutions**

As a specialized modernization Partner, Montanari supports projects across a wide range of elevator systems (of any size and complexity), providing **tailored, turnkey elevator solutions for both standard and demanding applications.**



JOB - SITE SPECIFIC ENGINEERING

Beyond high-quality traction machines and components, Montanari provides **dedicated technical support** from product selection through installation, to **address project-specific requirements and system challenges.**

ENGINEERED FOR YOUR MOST CHALLENGING PROJECTS!
GET YOUR NEXT INSTALLATION DONE.

montanariapp
available for Android & iOS

Your 24/7 Smart solution

Mobile & Desktop

CATALOGS & MANUALS
CERTIFICATES & TEST REPORTS
INSTALLATION DIAGNOSTICS

Scan for More

BUTTERFLY
THINK INSIDE THE BOX

MAKE YOUR ELEVATOR

SMARTER - SAFER - MORE EFFICIENT

SMOOTH OPERATION &
MAXIMUM SAFETY

TIMELY MAINTENANCE
FOR COST OPTIMIZATION

REMOTE MONITORING
WITH SMART ALERTS

The unique IoT solution for predictive maintenance

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Montanari Group