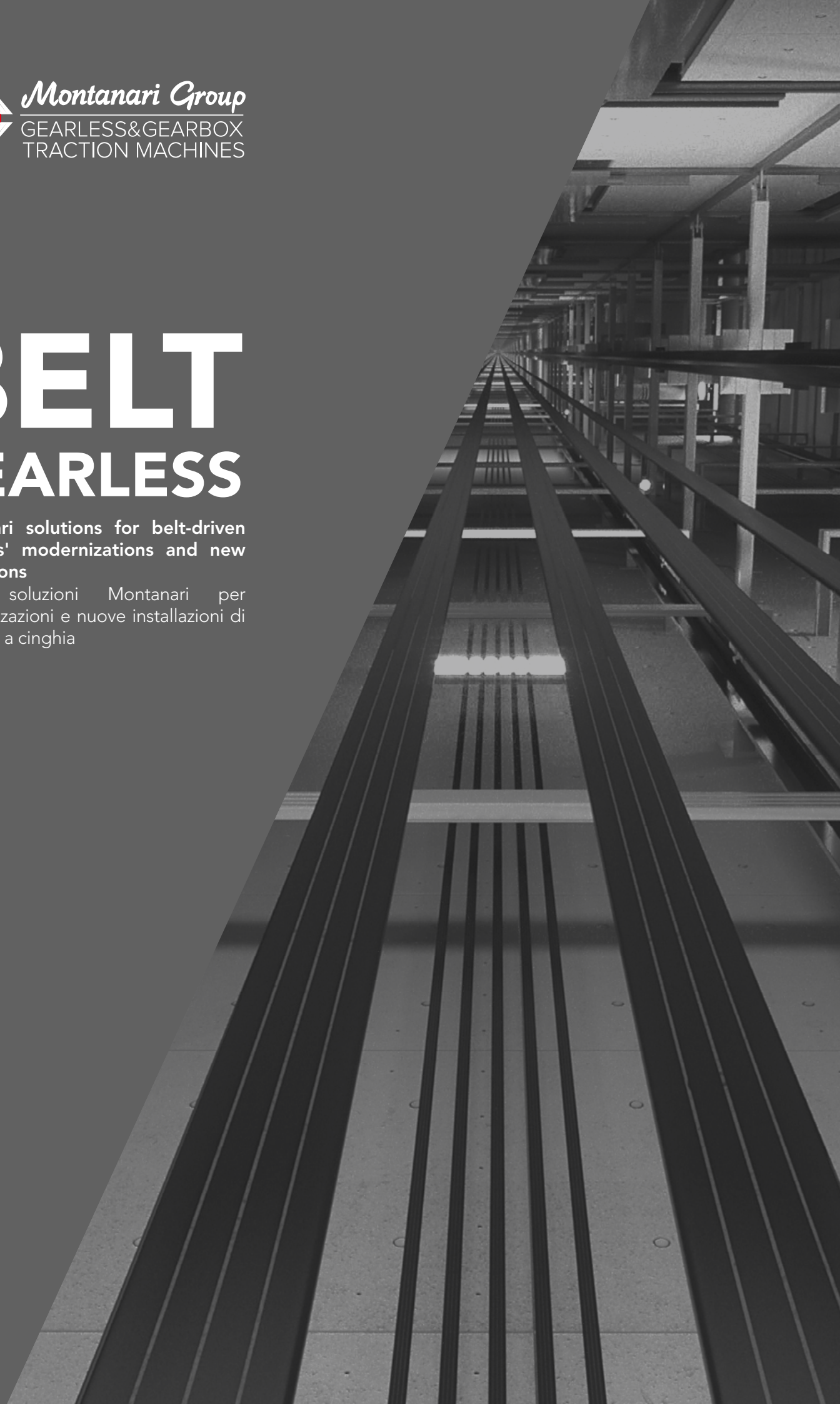
Montanari Group
GEARLESS&GEARBOX
TRACTION MACHINES

BELT
GEARLESS

Montanari solutions for belt-driven elevators' modernizations and new installations

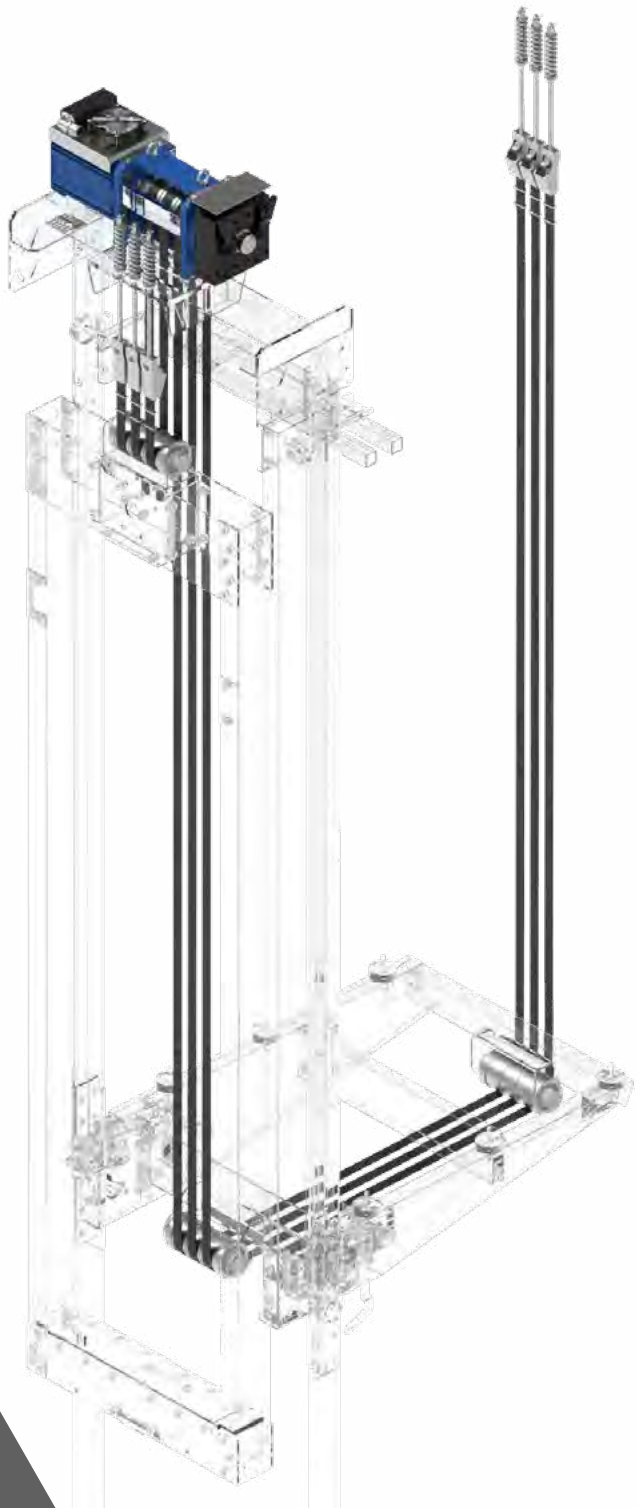
/ Le soluzioni Montanari per modernizzazioni e nuove installazioni di ascensori a cinghia



01. **BELT SYSTEMS** / SISTEMI A CINGHIA

The rising attention to elevator systems' efficiency and the increase in modernization projects led Montanari Group to develop the BELT series: **belt driven gearless designed for high performance, reliability, ease of installation and low maintenance efforts.**

La crescente attenzione verso l'efficienza degli impianti ascensore e l'aumento nel numero di interventi di modernizzazione, hanno spinto il Gruppo Montanari a sviluppare ***la gamma BELT: gearless a cinghia progettati per garantire alte prestazioni, affidabilità, facilità di installazione e bassi oneri di manutenzione.***



Efficient solutions for modernizations & new installations

/ Soluzioni efficienti per modernizzazioni e nuove installazioni

Compatible with most belt types, our BELT solutions support any modernization or new installation project, making the system configuration and installation extremely easy.

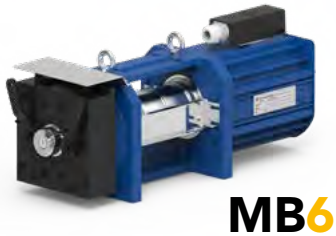
MB63, MB80, MB130, MB140, MB200 are compact and silent gearless, available as single units, or complete packages where customers can choose the traction machines and all accessories (diverting sheaves, belt attachments and belts) that better meet the specific system requirements.

Compatibili con le principali tipologie di cinghie, *le nostre soluzioni BELT supportano qualsiasi progetto di modernizzazione o nuova installazione, rendendo la configurazione e l'installazione dell'impianto estremamente semplici.*

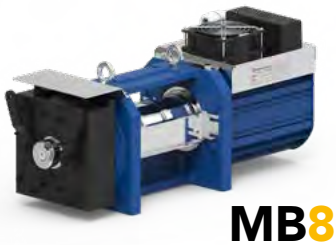
MB63, MB80, MB130, MB140, MB200 *sono gearless compatti e silenziosi, disponibili sia come singole macchine che pacchetti completi dove il cliente può scegliere la macchina di trazione e tutti gli accessori (pulegge di rinvio, capicinghia e cinghie) più adatti alle specifiche esigenze dell'impianto.*

02. **RANGE** / GAMMA

Load range / *Portate* 630 → 2000 kg



MB63



MB80

MB130

MB140

MB200

2:1			LOAD - *PORTATA*			
			kg			
			630	750	800	1000
SHEAVE DIAM - *PULEGGIA DIAM*	mm	80			MB63	
						MB80
		87*	MB63			
		100	MB63			
					MB80	
						MB130

Interface solutions available upon request / *Soluzioni di interfaccia disponibili su richiesta*

Models up to 3 belts - *Modelli fino a 3 cinghie*

2:1			LOAD - *PORTATA*		
			kg		
			1200	1400	2000
SHEAVE DIAM - *PULEGGIA DIAM*	mm	87*	MB140		
		115		MB140	
					MB200

Models up to 6 belts - *Modelli fino a 6 cinghie*

*Grooved belt configurations. *Configurazioni con cinghie sagomate.*

BELT GEARLESS

MB63

up to 3 belts
fino a 3 cinghie

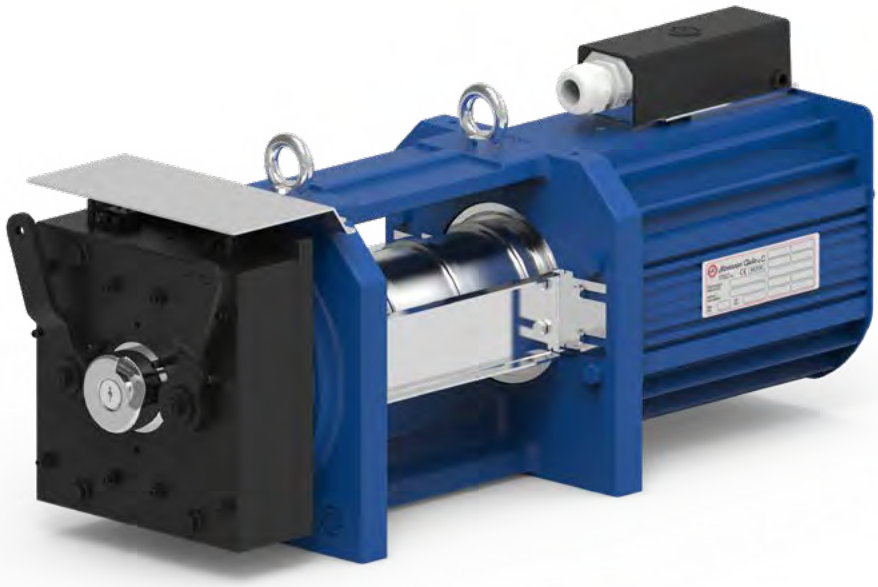
static load
carico statico
2000 kg

load - *portata*
up to 800 kg

speed - *velocità*
up to 2 m/s

roping - *tiro*
2:1

weight - *peso*
120 kg



NOMINAL TORQUE *MOM. TORCENTE*	**SHORT CIRCUITED TORQUE** *COPPIA CORTO CIRCUITO*	**POLES** *POLI*	**ENCODER**	**MOTOR CABLE** *CAVO MOTORE*	**Ø SHEAVE*** *Ø PULEGGIA*	**BELTS** *CINGHIE*
Nm	Nm	n°	Type	m	mm	standard n°
104 S5 - 40%	140	16	Endat SinCos SSI BISS	7	80÷100	3
BRAKE - *FRENO*						
RTW125 Mayr [2x125Nm] - 2x64W - 207VDC						

MB63 is compatible with most belt types available on the market.
MB63 è compatibile con la maggior parte di cinghie disponibili sul mercato.
*Pitch and sheave diameter according to belt type and configuration.
Passo e diametro cinghia in base a tipo e configurazione cinghia.

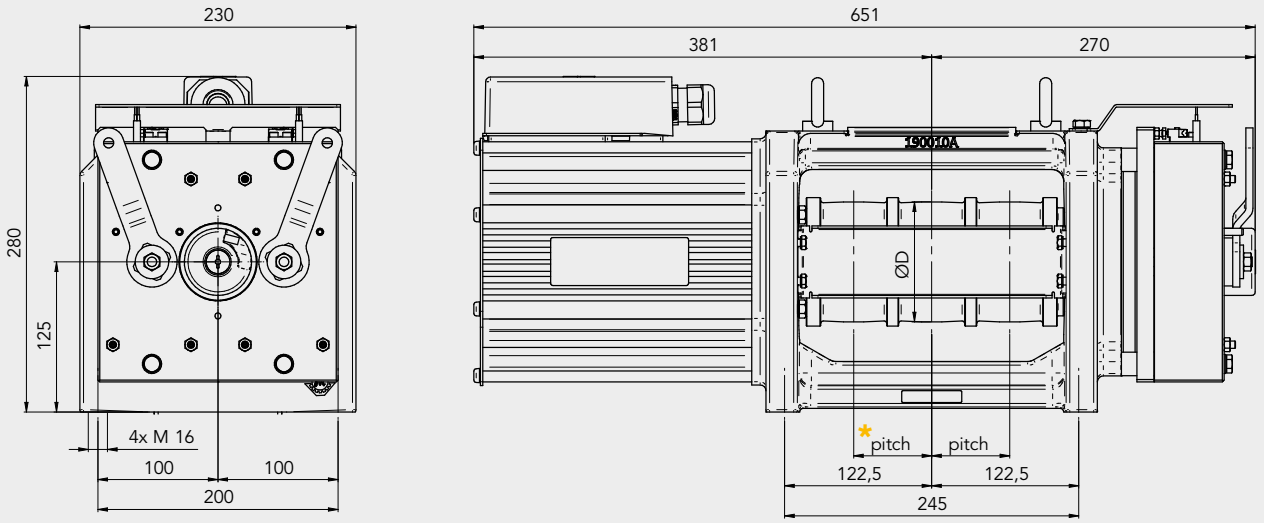
BELT GEARLESS

MB63

								360V 3ph		210V 3ph	
2:1	**CAPACITY** *PORTATA*	**SPEED** *VELOCITÀ*	**Ø**	**C**	**P**	**ROTAT.** *GIRI*	**F**	**I**	**MACHINE** *MACCHINA*	**I**	**MACHINE** *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	630	1	100	104	4,2	382,0	50,9	9,7	MB063153823BXXX	N/A	N/A
		1,6	100	104	6,7	611,2	81,5	16,5	MB063156683BXXX	N/A	N/A
		2	100	104	8,3	763,9	101,9	22,0	MB063157643BXXX	N/A	N/A
	800	1	80	104	5,2	477,5	63,7	12,5	MB063154973BXXX	N/A	N/A
		1,6	80	104	8,3	763,9	101,9	22,0	MB063157643BXXX	N/A	N/A

								360V 3ph		210V 3ph	
2:1*	**CAPACITY** *PORTATA*	**SPEED** *VELOCITÀ*	**Ø**	**C**	**P**	**ROTAT.** *GIRI*	**F**	**I**	**MACHINE** *MACCHINA*	**I**	**MACHINE** *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	630	1	87	90	4,3	449,4	59,9	10,9	MB063154973BXXX	N/A	N/A
		1,6	87	90	6,8	719,0	95,9	19,1	MB063157643BXXX	N/A	N/A

* Machines for grooved belt application. *Macchine per l'applicazione di cinghie sagomate.*



BELT GEARLESS

MB80

up to 3 belts
fino a 3 cinghie

static load
carico statico
2000 kg

load - *portata*
up to 1000 kg

speed - *velocità*
up to 2 m/s

roping - *tiro*
2:1

weight - *peso*
130 kg

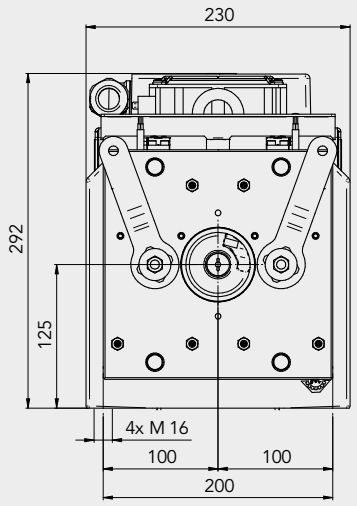
NOMINAL TORQUE *MOM. TORCENTE*	**SHORT CIRCUITED TORQUE** *COPPIA CORTO CIRCUITO*	**POLES** *POLI*	**ENCODER**	**MOTOR CABLE** *CAVO MOTORE*	**Ø SHEAVE*** *Ø PULEGGIA*	**BELTS** *CINGHIE*
Nm	Nm	n°	Type	m	mm	standard n°
140 S5 - 40%	140	16	Endat SinCos SSI BISS	7	80÷100	3
BRAKE - *FRENO*						
RTW125 Mayr [2x125Nm] - 2x64W - 207VDC						

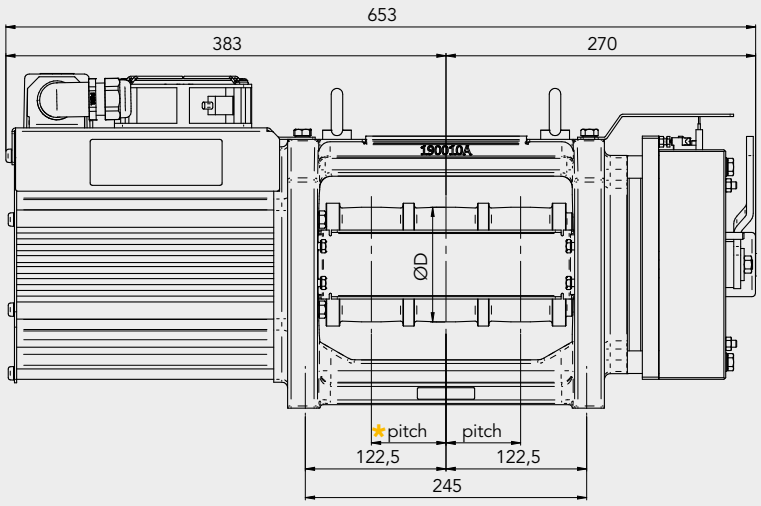
MB80 is compatible with most belt types available on the market.
MB80 è compatibile con la maggior parte di cinghie disponibili sul mercato.
*Pitch and sheave diameter according to belt type and configuration.
Passo e diametro cinghia in base a tipo e configurazione cinghia.

BELT GEARLESS

MB80

								360V 3ph		210V 3ph	
	CAPACITY *PORTATA*	**SPEED** *VELOCITÀ*	**Ø**	**C**	**P**	**ROTAT.** *GIRI*	**F**	**I**	**MACHINE** *MACCHINA*	**I**	**MACHINE** *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
2:1	800	1	100	131	5,2	382,0	50,9	14,0	MB080153823BXXX	28,1	MB080157643BXXX
		1,6	100	131	8,4	611,2	81,5	21,5	MB080156113BXXX	N/A	N/A
		2	100	131	10,5	763,9	101,9	28,1	MB080157643BXXX	N/A	N/A
	1000	1	80	128	6,4	477,5	63,7	20,1	MB080155843BXXX	N/A	N/A
		1,6	80	128	10,2	763,9	101,9	27,4	MB080157643BXXX	N/A	N/A





BELT GEARLESS

MB130

up to 3 belts
fino a 3 cinghie

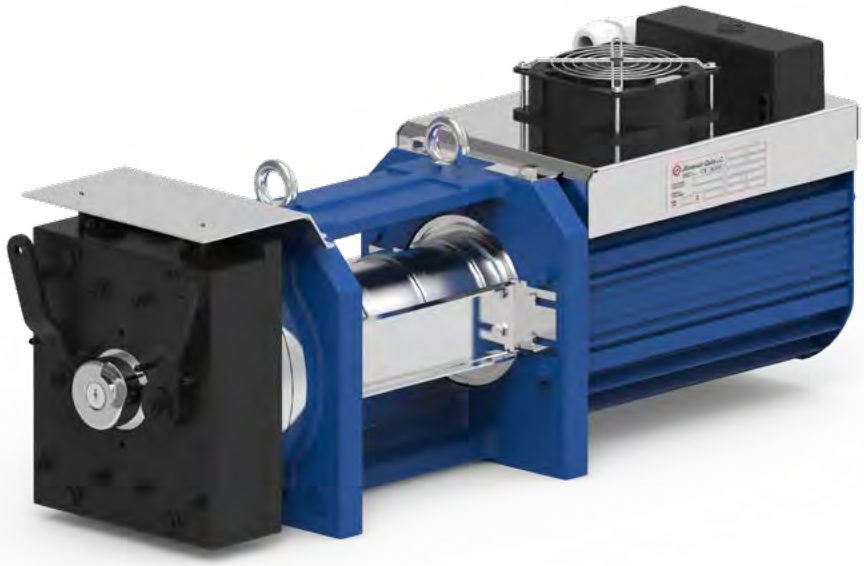
static load
carico statico
2300 kg

load - *portata*
up to 1000 kg

speed - *velocità*
up to 2 m/s

roping - *tiro*
2:1

weight - *peso*
145 kg



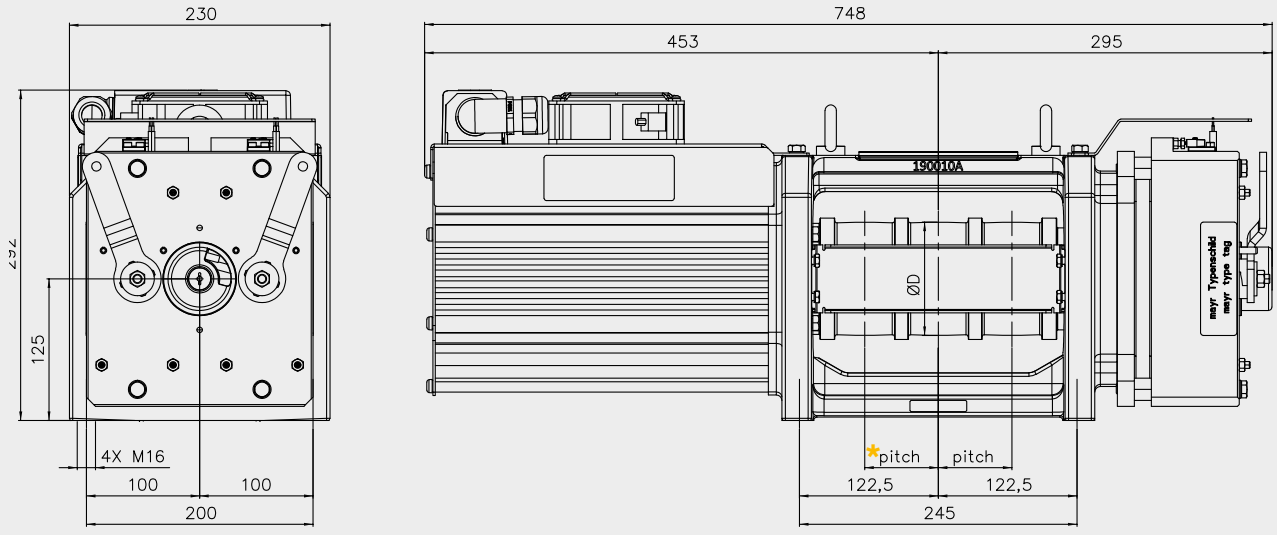
NOMINAL TORQUE *MOM. TORCENTE*	**SHORT CIRCUITED TORQUE** *COPPIA CORTO CIRCUITO*	**POLES** *POLI*	**ENCODER**	**MOTOR CABLE** *CAVO MOTORE*	**Ø SHEAVE*** *Ø PULEGGIA*	**BELTS** *CINGHIE*
Nm	Nm	n°	Type	m	mm	standard n°
220 S5 - 40%	205	16	Endat SinCos SSI BISS	7	100	3
BRAKE - *FRENO*						
RTW180 Mayr [2x200Nm] - 2x69W - 207VDC						

MB130 is compatible with most belt types available on the market.
MB130 è compatibile con la maggior parte di cinghie disponibili sul mercato.
*Pitch and sheave diameter according to belt type and configuration.
Passo e diametro cinghia in base a tipo e configurazione cinghia.

BELT GEARLESS

MB130

2:1								360V 3ph		210V 3ph	
	CAPACITY *PORTATA*	**SPEED** *VELOCITÀ*	**Ø**	**C**	**P**	**ROTAT.** *GIRI*	**F**	**I**	**MACHINE** *MACCHINA*	**I**	**MACHINE** *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	1000	1	100	160	6,4	382,0	50,9	17,8	MB130223823BXXX	32,0	MB130223822BXXX
		1,6	100	160	10,2	611,2	81,5	25,9	MB130226117BXXX	N/A	N/A
		2	100	160	12,8	763,9	101,9	31,5	MB130227647BXXX	N/A	N/A



BELT GEARLESS

MB140

4 to 6 belts
da 4 a 6 cinghie

static load**
carico statico
4500 kg

load - *portata*
up to 1400 kg

speed - *velocità*
up to 2 m/s

roping - *tiro*
2:1

weight - *peso*
235 kg

NOMINAL TORQUE *MOM. TORCENTE*	**SHORT CIRCUITED TORQUE** *COPPIA CORTO CIRCUITO*	**POLES** *POLI*	**ENCODER**	**MOTOR CABLE** *CAVO MOTORE*	**Ø SHEAVE*** *Ø PULEGGIA*	**BELTS** *CINGHIE*
Nm	Nm	n°	Type	m	mm	standard n°
250 S5 - 40%	300	16	Endat SinCos SSI BISS	7	85÷115	5
BRAKE - *FRENO*						
RTW350 Mayr [2x410Nm] - 2x82W - 207VDC						

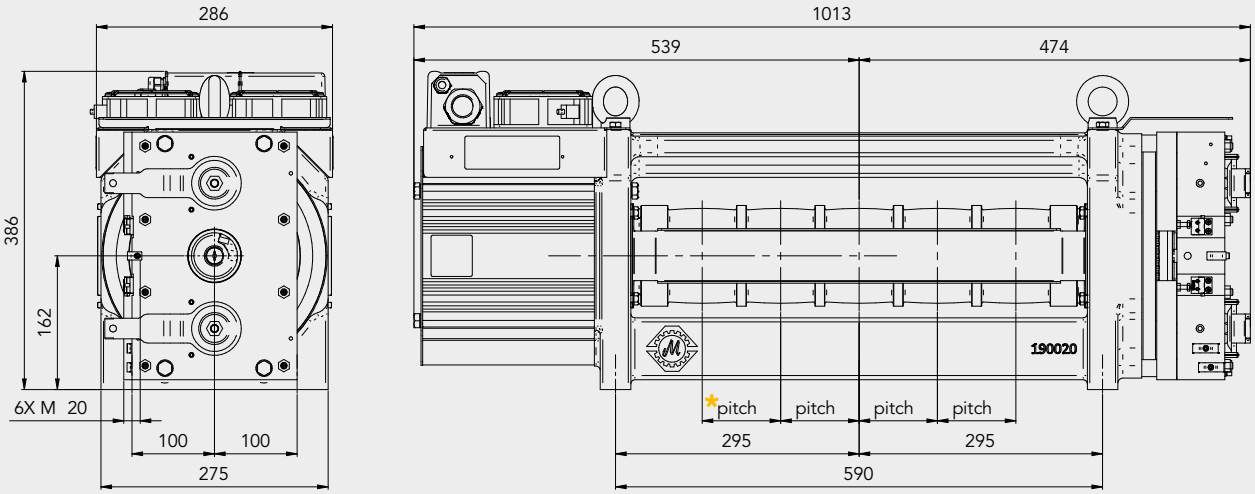
MB140 is compatible with most belt types available on the market.
MB140 è compatibile con la maggior parte di cinghie disponibili sul mercato.
*Pitch and sheave diameter according to belt type and configuration.
Passo e diametro cinghia in base a tipo e configurazione cinghia.
**With 87 mm sheave, static load up to 2700 kg.
Con puleggia 87 mm, carico statico fino a 2700 kg.

MB140

2:1	CAPACITY *PORTATA*	SPEED *VELOCITÀ*	Ø	C	P	ROTAT. *GIRI*	F	360V 3ph I	360V 3ph MACHINE *MACCHINA*	210V 3ph I	210V 3ph MACHINE *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	1400	1	115	250	8,7	332,1	44,3	23,0	MB1401038231XXX	42,5	MB1401076431XXX
		1,6	115	250	13,9	531,4	70,9	34,0	MB1401057331XXX	56,0	MB1401057321XXX
		2	115	250	17,4	664,3	88,6	39,0	MB1401066831XXX	56,0	N/A

2:1*	CAPACITY *PORTATA*	SPEED *VELOCITÀ*	Ø	C	P	ROTAT. *GIRI*	F	360V 3ph I	360V 3ph MACHINE *MACCHINA*	210V 3ph I	210V 3ph MACHINE *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	1200	1	87	160	7,5	439,0	59,9	21,8	MB1401057331003	35,9	MB1401057321003
		1,5	87	160	12,1	659,0	95,9	27,3	MB1401076431003	N/A	N/A

* Machines for grooved belt application. *Macchine per l'applicazione di cinghie sagomate.*



BELT GEARLESS

MB200

4 to 6 belts
da 4 a 6 cinghie

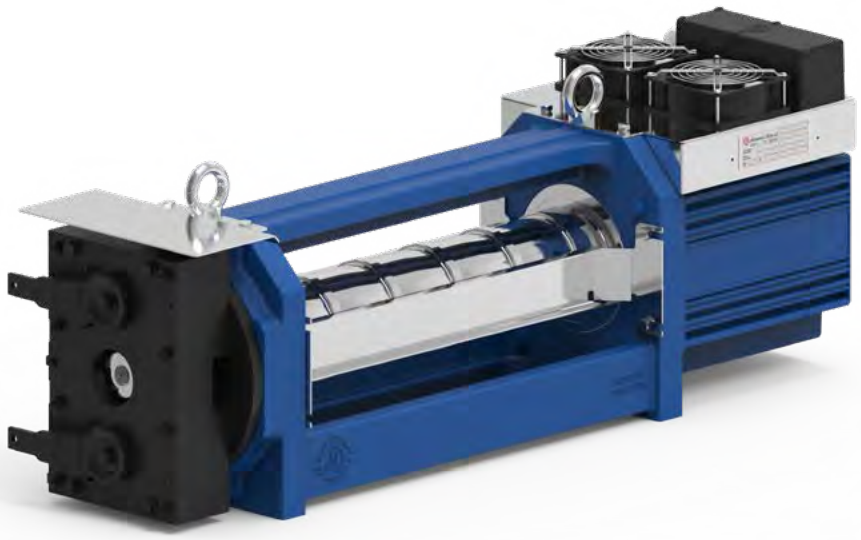
static load
carico statico
4500 kg

load - *portata*
up to 2000 kg

speed - *velocità*
up to 2 m/s

roping - *tiro*
2:1

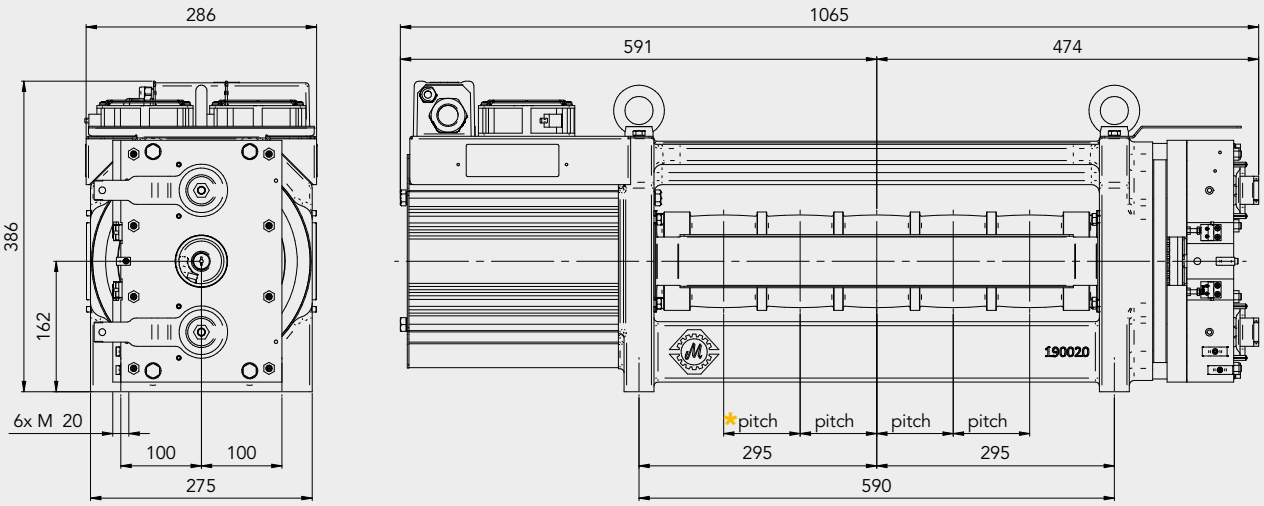
weight - *peso*
275 kg



NOMINAL TORQUE *MOM. TORCENTE*	**SHORT CIRCUITED TORQUE** *COPPIA CORTO CIRCUITO*	**POLES** *POLI*	**ENCODER**	**MOTOR CABLE** *CAVO MOTORE*	**Ø SHEAVE*** *Ø PULEGGIA*	**BELTS** *CINGHIE*
Nm	Nm	n°	Type	m	mm	standard n°
365 S5 - 40%	450	16	Endat SinCos SSI BISS	7	115	5
BRAKE - *FRENO*						
RTW350 Mayr [2x410Nm] - 2x82W - 207VDC						

MB200 is compatible with most belt types available on the market.
MB200 è compatibile con la maggior parte di cinghie disponibili sul mercato.
*Pitch and sheave diameter according to belt type and configuration.
Passo e diametro cinghia in base a tipo e configurazione cinghia.

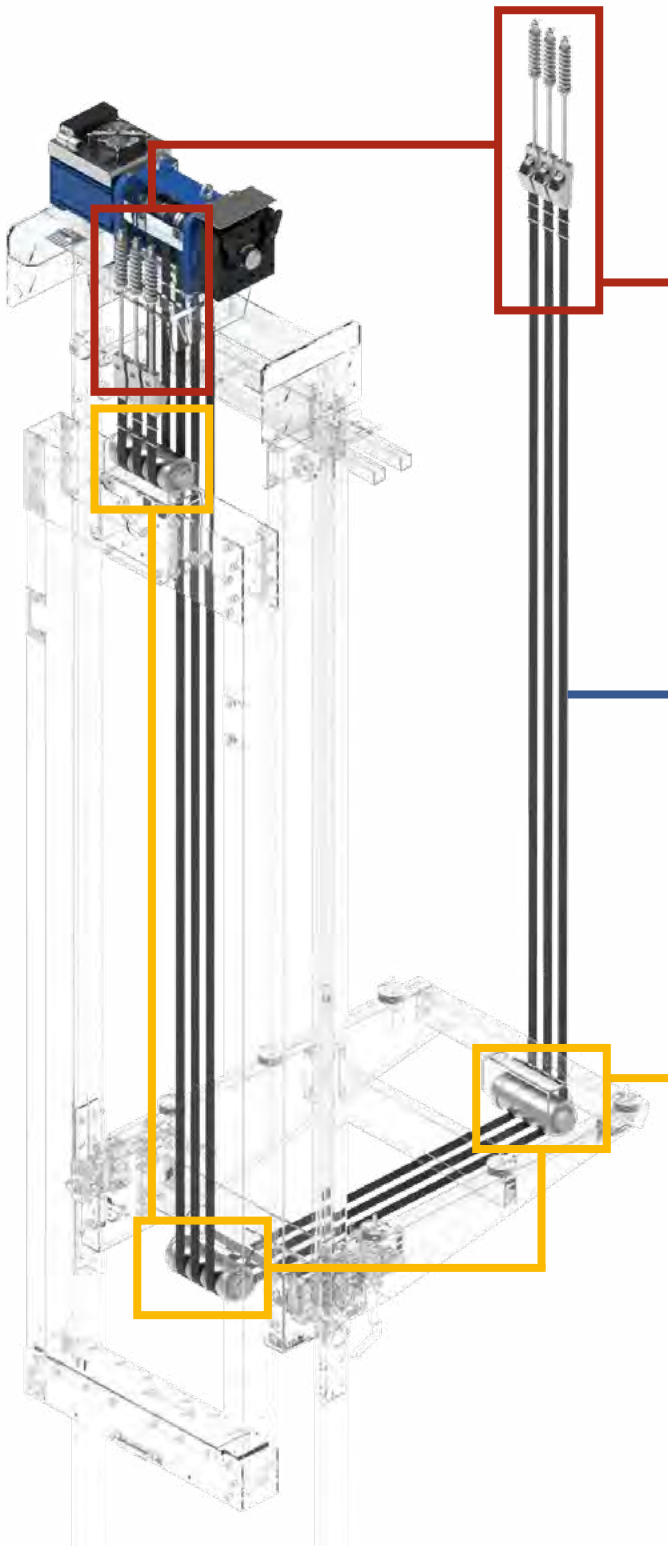
2:1								360V 3ph		210V 3ph	
	CAPACITY *PORTATA*	**SPEED** *VELOCITÀ*	**Ø**	**C**	**P**	**ROTAT.** *GIRI*	**F**	**I**	**MACHINE** *MACCHINA*	**I**	**MACHINE** *MACCHINA*
	[kg]	[m/s]	[mm]	[Nm]	[kW]	[RPM]	[Hz]	[A]	CODE	[A]	CODE
	2000	1	115	350	12,2	332,1	44,3	30,7	MB2001533231XXX	62,3	MB2001533221XXX
		1,6	115	350	19,5	531,4	70,9	46,9	MB2001553531XXX	82,4	MB2001557321XXX
		2	115	350	24,3	664,3	88,6	62,3	MB2001566931XXX	98,7	MB2001566921XXX



04. **PACKAGES** / PACCHETTI

Besides single traction machines, Montanari supplies **complete Pick & Install Packages** designed to support customers in the selection and installation of belt-driven solutions. **BELT packages offer the best combination of gearless machine, diverting sheaves, belt attachments and belts,** to match the elevator system's specifications.

*Oltre alle singole macchine di trazione, Montanari propone **pacchetti completi Pick & Install,** studiati per facilitare il cliente nella selezione e installazione di soluzioni a cinghia. **I pacchetti BELT rappresentano la combinazione ottimale di gearless, gruppi di rinvio, capo-cinghia e cinghie** per rispondere alle caratteristiche dell'impianto.*



Pick & install
/ Scegli e installa

Belt attachments - 2x number of belts
Capicinghia - 2x numero di cinghie

Belts - Multiple types available. Length based on installation features
***Cinghie - Molteplici tipi disponibili.** Lunghezza in base alle caratteristiche dell'impianto*

Belt diverting units (x3)
Gruppi di rinvio per cinghia (x3)

Compatible with most belt types
/ Compatibili con le principali cinghie

DIVERTING UNITS / GRUPPI DI RINVIO

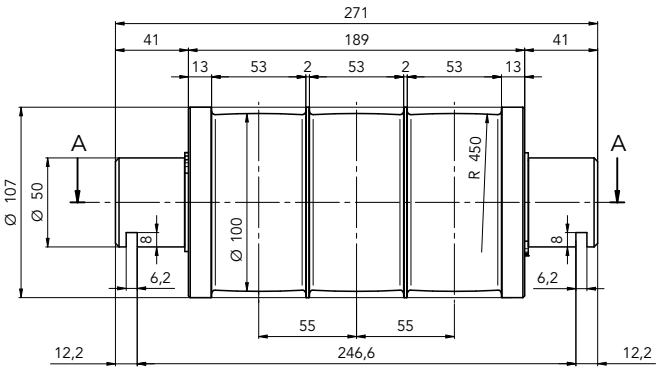
A versatile selection, with **multiple smooth or grooved configurations,** to match most belt types and support any installation requirement.

*Una selezione versatile con **diverse configurazioni, liscie e sagomate,** per supportare i principali tipi di cinghia ed esigenze d'installazione.*

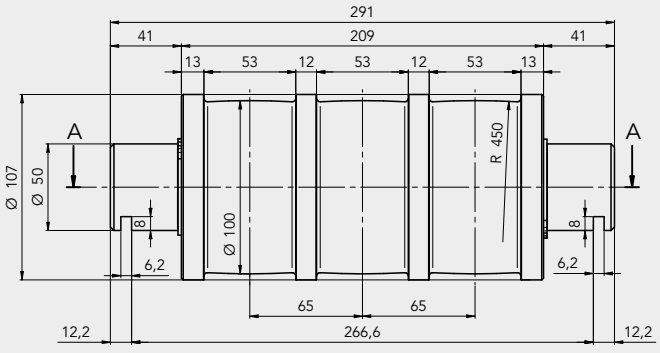
DIVERTING SHEAVES - *PULEGGE DI RINVIO*						
CODE *CODICE*	SHEAVE TYPE *TIPO PULEGGIA*	Ø SHEAVE *Ø PULEGGIA*	N° BELTS *N° CINGHIE*	PITCH *PASSO*	BELT MODEL *MODELLO CINGHIA*	STATIC LOAD *CARICO STATICO*
		mm		mm		kg
AC00011080	MONOBLOCK - *MONOBLOCCO*	100	3	55	FLAT - *LISCIA* Lmax= 30 mm R450 Multiple Brands - *Molteplici tipi*	3000
AC00011081			3	65		
PB0852124102040	INDIPENDENT SHEAVES - *PULEGGE INDIPENDENTI*	85	2	50	GROOVED - *SAGOMATA* CONTI POLYROPE 33-8x2.0	1400
PB0852124223040			2	170		
PB0854124330040			4	50/170/50		2800
PB100304A215030		100	3	65	FLAT - *LISCIA* Lmax= 30 mm R450 Multiple Brands - *Molteplici tipi*	3000
PB100504A345030			5	65		3100
PB1502016272010		150	2	95	FLAT - *LISCIA* L= 60 mm R450 Multiple Brands - *Molteplici tipi*	2250
PB1504016462010			4	95		4500
PB1505016557010			5	95		

BELT DIVERTING UNITS
/ GRUPPI DI RINVIO PER SISTEMI A CINGHIA

PITCH 55, Ø SHEAVE 100 mm, 3 BELTS, FLAT
PASSO 55, Ø PULEGGIA 100 mm, 3 CINGHIE, LISCE
AC00011080



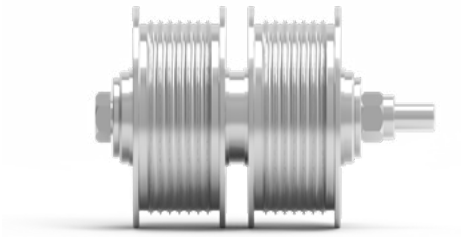
PITCH 65, Ø SHEAVE 100 mm, 3 BELTS, FLAT
PASSO 65, Ø PULEGGIA 100 mm, 3 CINGHIE, LISCE
AC00011081

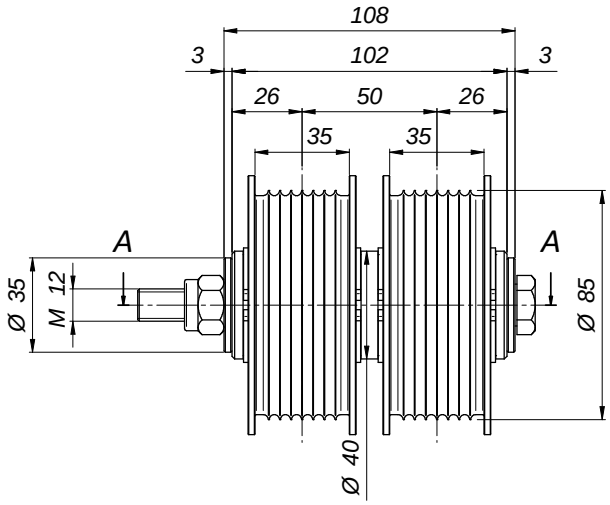


FOR GROOVED POLYROPE BELT 33-8x2.0 - PITCH 50, Ø SHEAVE 85 mm, 2 BELTS

PER CINGHIE POLYROPE SAGOMATE 33-8x2.0 - PASSO 50, Ø PULEGGIA 85 mm, 2 CINGHIE

PB0852124102040

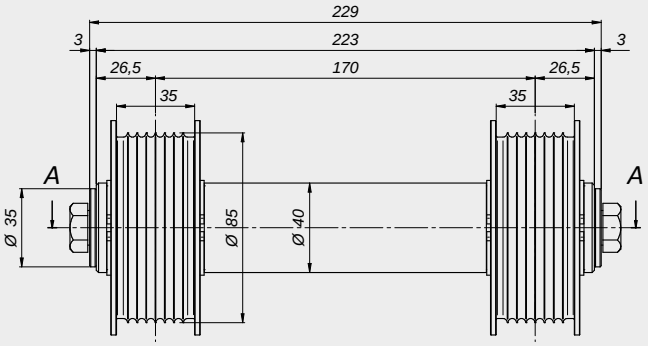




FOR GROOVED POLYROPE BELT 33-8x2.0 - PITCH 170, Ø SHEAVE 85 mm, 2 BELTS

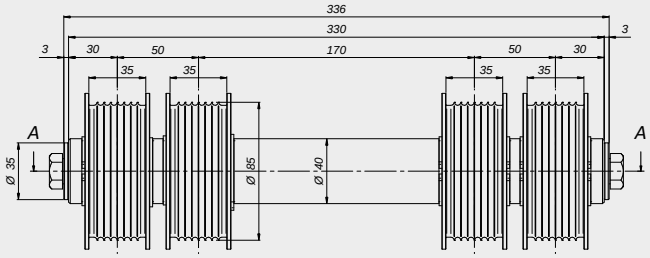
PER CINGHIE POLYROPE SAGOMATE 33-8x2.0 - PASSO 170, Ø PULEGGIA 85 mm, 2 CINGHIE

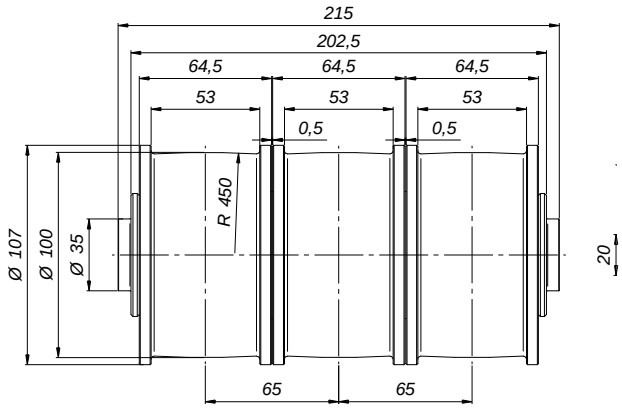
PB0852124223040



BELT DIVERTING UNITS
/ GRUPPI DI RINVIO PER SISTEMI A CINGHIA

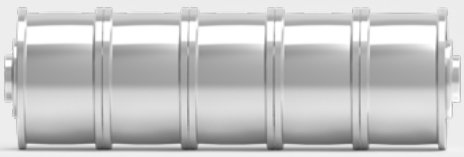
FOR GROOVED POLYROPE BELT 33-8x2.0 - PITCH 50/170/50, Ø SHEAVE 85 mm, 4 BELTS
PER CINGHIE POLYROPE SAGOMATE 33-8x2.0 - PASSO 50/170/50, Ø PULEGGIA 85 mm, 4 CINGHIE
PB0854124330040

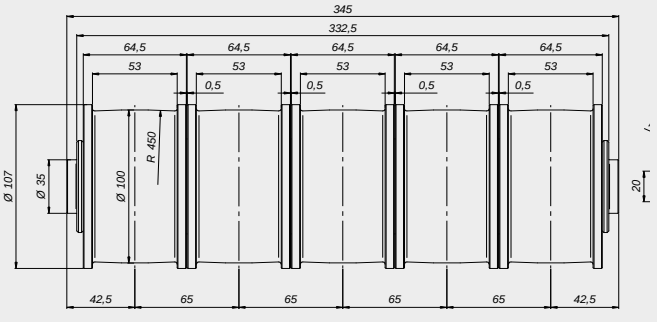




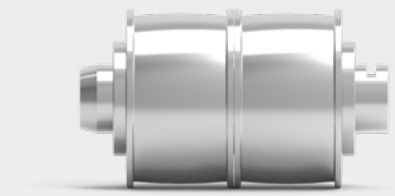
WITH INDEPENDENT SHEAVE - PITCH 65, Ø SHEAVE 100 mm, 3 BELTS, FLAT
CON PULEGGIA INDIPENDENTE - PASSO 65, Ø PULEGGIA 100 mm, 3 CINGHIE, LISCE
PB100304A215030

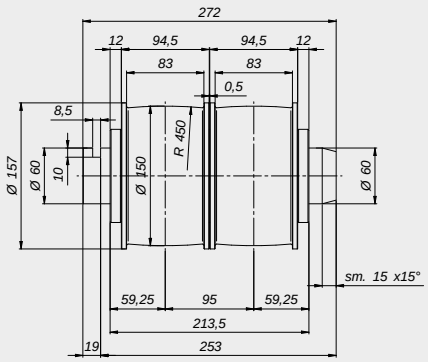
WITH INDEPENDENT SHEAVE - PITCH 65, Ø SHEAVE 100 mm, 5 BELTS, FLAT
CON PULEGGIA INDIPENDENTE - PASSO 65, Ø PULEGGIA 100 mm, 5 CINGHIE, LISCE
PB100504A345030

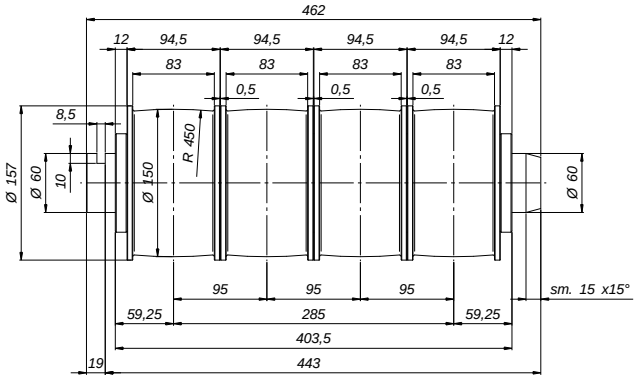




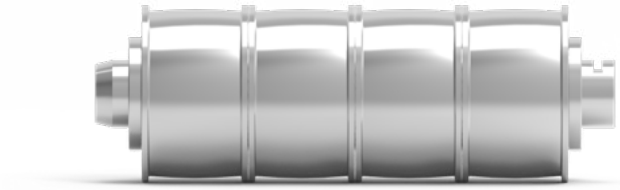
WITH INDEPENDENT SHEAVES - PITCH 95,
Ø SHEAVE 150 mm, 2 BELTS, FLAT
CON PULEGGE INDIPENDENTI - PASSO 95,
Ø PULEGGIA 150 mm, 2 CINGHIE, LISCE
PB1502016272010



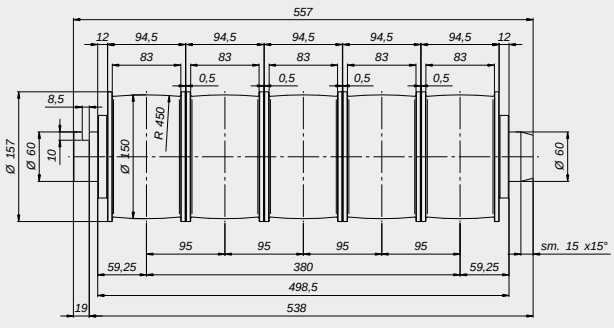




WITH INDEPENDENT SHEAVES - PITCH 95,
Ø SHEAVE 150 mm, 4 BELTS, FLAT
CON PULEGGE INDIPENDENTI - PASSO 95,
Ø PULEGGIA 150 mm, 4 CINGHIE, LISCE
PB1504016462010



WITH INDEPENDENT SHEAVES - PITCH 95,
Ø SHEAVE 150 mm, 5 BELTS, FLAT
CON PULEGGE INDIPENDENTI - PASSO 95,
Ø PULEGGIA 150 mm, 5 CINGHIE, LISCE
PB1505016557010



BELT RANGE / GAMMA CINGHIE

To simplify new installations or modernizations, Montanari combines its traction machines and accessories with a **specialized selection of belts for elevator systems - the most performing and versatile solutions available on the market**.

Per semplificare le attività di installazione o modernizzazione, Montanari affianca alle sue macchine di trazione e accessori, ***una selezione di cinghie per impianti ascensore - le soluzioni più performanti e versatili disponibili sul mercato.***

BELTS - *CINGHIE*				
CODE *CODICE*	**DIMENSIONS** *DIMENSIONI*	**MODEL** *MODELLO*	**MAX LOAD** *CARICO MAX*	**LENGTH** *LUNGHEZZA*
	mm		kN	m
C300030034500	30x3	ELATECH R030F3V-TP	45	On request *A richiesta*
C300033005200	30x3,3	MEGADYNE Megalinear 30 P3.3	52	
C300034045300	30x3,4	BRUGG BRUbelt	52	
C330037014000	33x3,7	CONTITECH CONTI POLYROPE 33-8x2.0	40	
C500033028300	50x3,3	MEGADYNE Megalinear 50 P3.3	83,2	

To make elevator modernizations more efficient, it is essential to consider and, whenever possible, **preserve the original system configuration.** Montanari is able to provide **plug & play solutions for bolt for bolt replacement**. We support our customers in **turn-key installations** where traction machine and belts are updated while keeping the previous configuration and belt number.

Plug & play solutions for mods / *Soluzioni chiavi in mano per modernizzazioni*

Per rendere le modernizzazioni ascensore più efficienti, è indispensabile considerare, e quando possibile, mantenere la ***configurazione originale dell'impianto.*** *Montanari è in grado di fornire* ***soluzioni plug & play per sostituzioni alla pari.*** *Supportiamo i nostri clienti in* ***installazioni chiavi in mano,*** *dove macchina di trazione e cinghie vengono sostituite, nel rispetto della configurazione e numero di cinghie precedenti.*

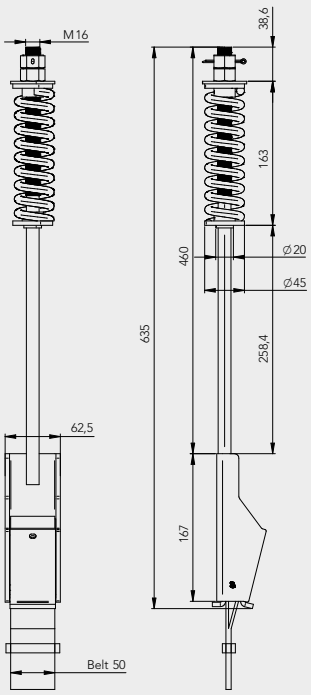
BELT ATTACHMENTS / CAPICINGHIA

The choice of belt attachments is based on the **type of belts installed and the system features.** Montanari provides belt attachments with different lengths and loads, to match any installation need.

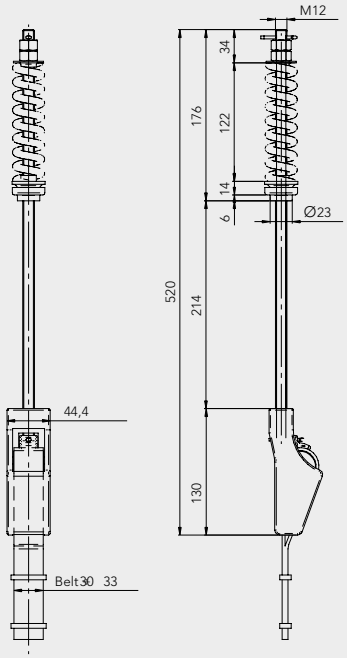
La scelta del capocinghia dipende dal tipo ***di cinghie installate e dalle caratteristiche dell'impianto.*** *Montanari fornisce capicinghia con diverse lunghezze e portate, per rispondere a ogni esigenza d'installazione.*

BELT ATTACHMENT - *CAPOCINGHIA*			
CODE *CODICE*	**WIDTH** *LARGHEZZA*	**LENGTH** *LUNGHEZZA*	**MAX LOAD** *CARICO MAX*
	mm	mm	kN
AC00011070	30÷33	320	52
AC00011071	30÷33	520	52
AC00011072	50	635	83,2

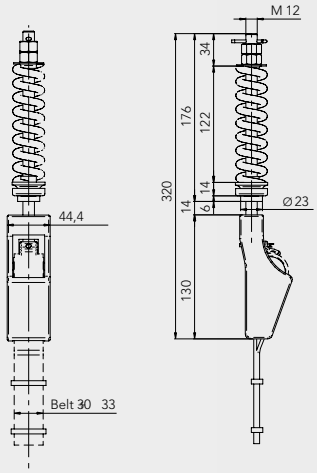
BELT ATTACHMENT
CAPOCINGHIA
AC00011072



BELT ATTACHMENT
CAPOCINGHIA
AC00011071



BELT ATTACHMENT
CAPOCINGHIA
AC00011070



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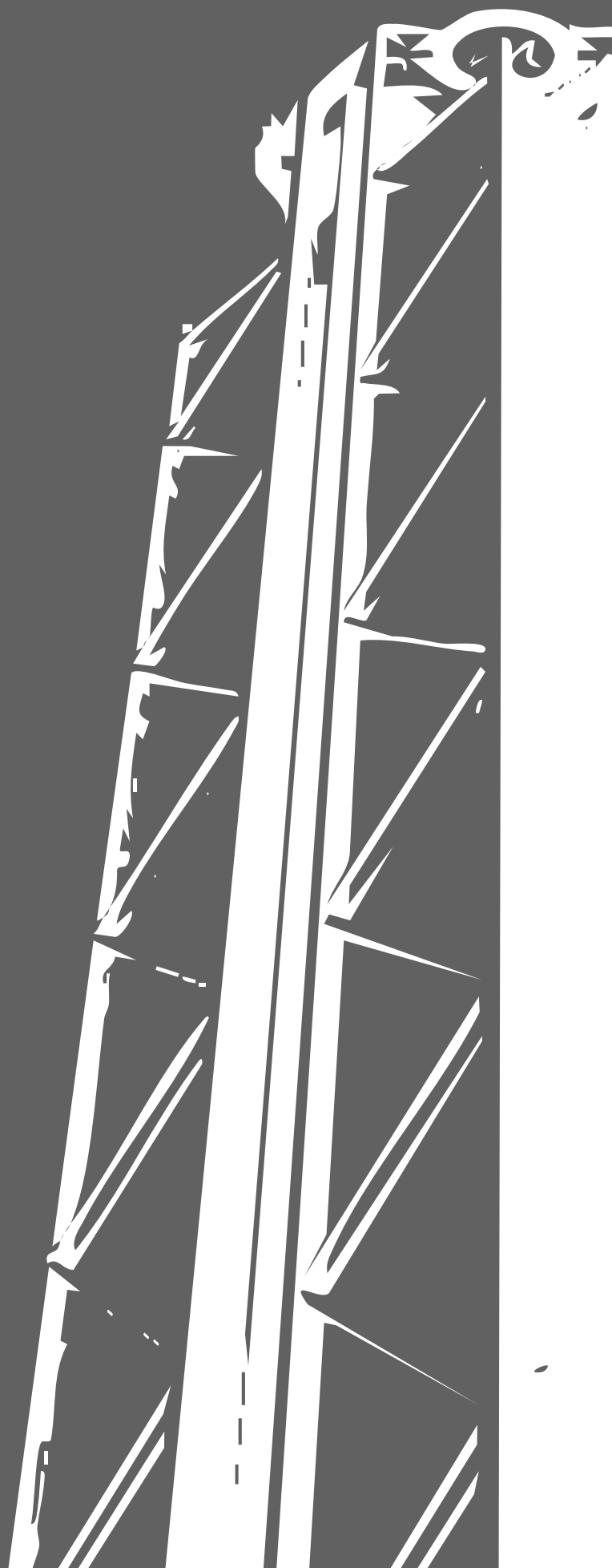

Montanari Giulio & C.
Via Bulgaria 39, 41122 MODENA (Italy)
+39 059.453611 / info@montanarigiulio.com
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