



*Montanari*  
NORTH AMERICA Inc.

**SINCE 1970 THE ART OF MANUFACTURING  
BEST-IN-CLASS TRACTION MACHINES!**



*Montanari Group*  
GEARLESS&GEARBOX  
TRACTION MACHINES

# MONTANARI GROUP WORLDWIDE

STATE OF THE ART  
TECHNOLOGY

HIGHEST QUALITY  
STANDARDS

SAFE WORKING  
CONDITIONS

ALL OVER THE WORLD THE  
DISTINCTIVE **QUALITY** OF  
**MONTANARI** BRAND



*Montanari*  
NORTH AMERICA Inc.

**MONTANARI NORTH  
AMERICA INC.**  
COMMERCIAL BRANCH  
2024, NEW YORK (U.S.A.)



*Montanari Lifts Components Pvt. Ltd.*  
**MONTANARI LIFTS  
COMPONENTS PVT LTD**  
PRODUCTION SITE  
2008, PUNE (INDIA)



*Montanari Giulio & C.*  
**MONTANARI GIULIO & C**  
HEADQUARTERS  
R&D - PRODUCTION SITE  
TESTING TOWER  
SINCE 1970, MODENA (ITALY)



*Montanari Group*  
**MONTANARI DRIVE  
TECHNOLOGY CO. LTD**  
PRODUCTION SITE  
2014, PINGHU (CHINA)



*Montanari Group*  
GEARLESS&GEARBOX  
TRACTION MACHINES

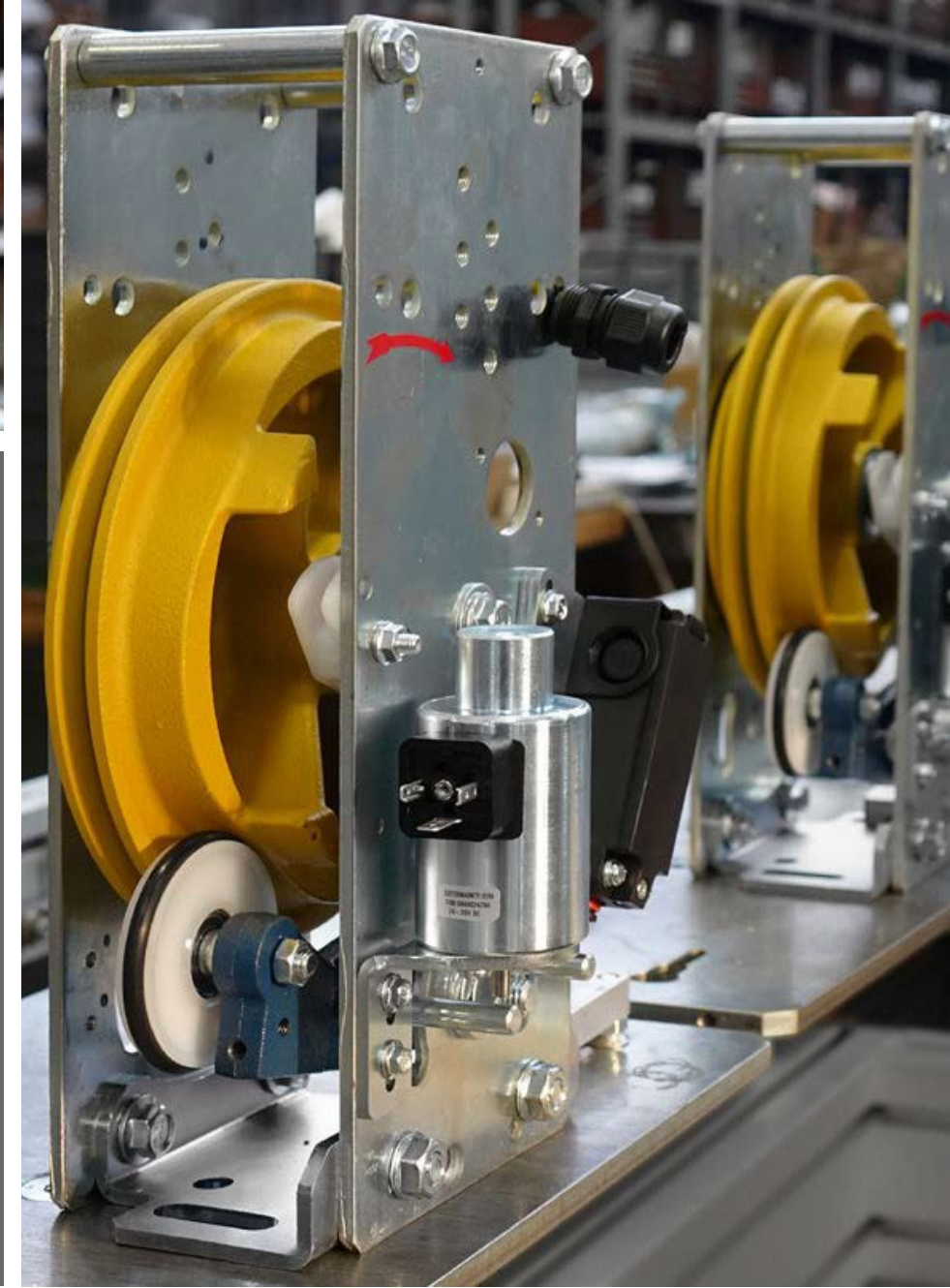




# MONTANARI GROUP IN **NUMBERS**

- +** **55 YEARS** OF INDUSTRY  
EXPERIENCE AND INNOVATION
- +** **OVER 85.000** TRACTION  
MACHINES - ANNUAL  
PRODUCTION
- +** **85 COUNTRIES** SERVED  
AROUND THE WORLD
- +** **OVER 500** EMPLOYEES  
AROUND THE WORLD





350 machines produced per day

100+ HMC and VMC for  
components production

5 assembly lines

4 high-tech painting line

10 vertical storage system

# HEADQUARTERS

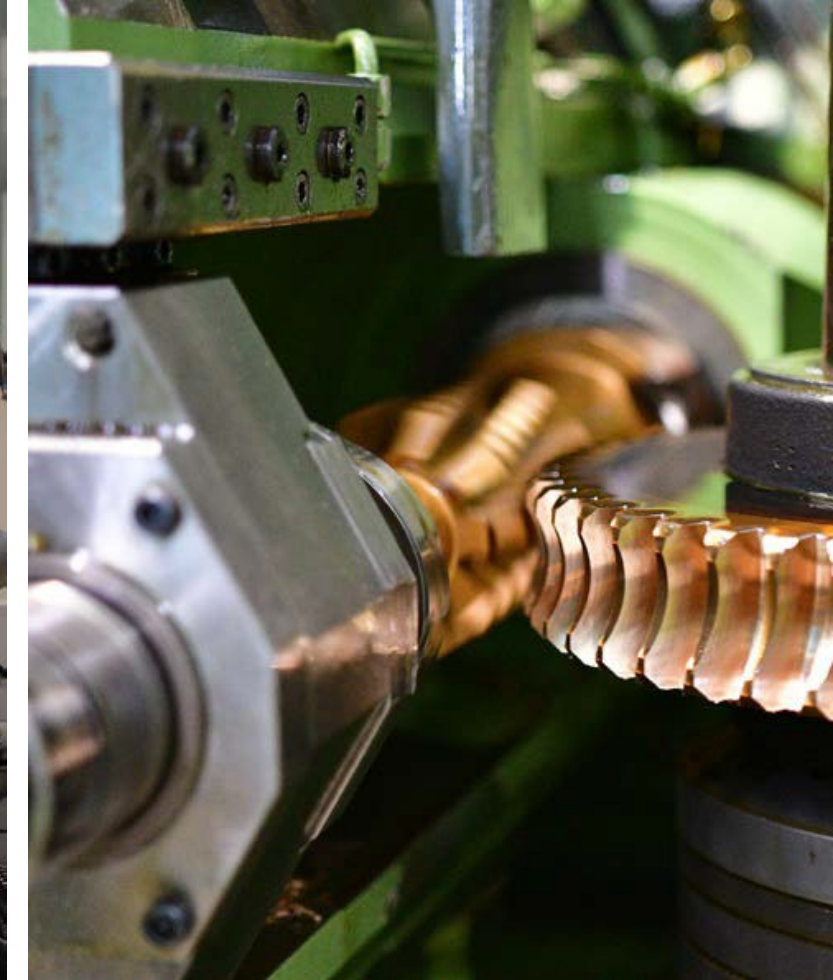
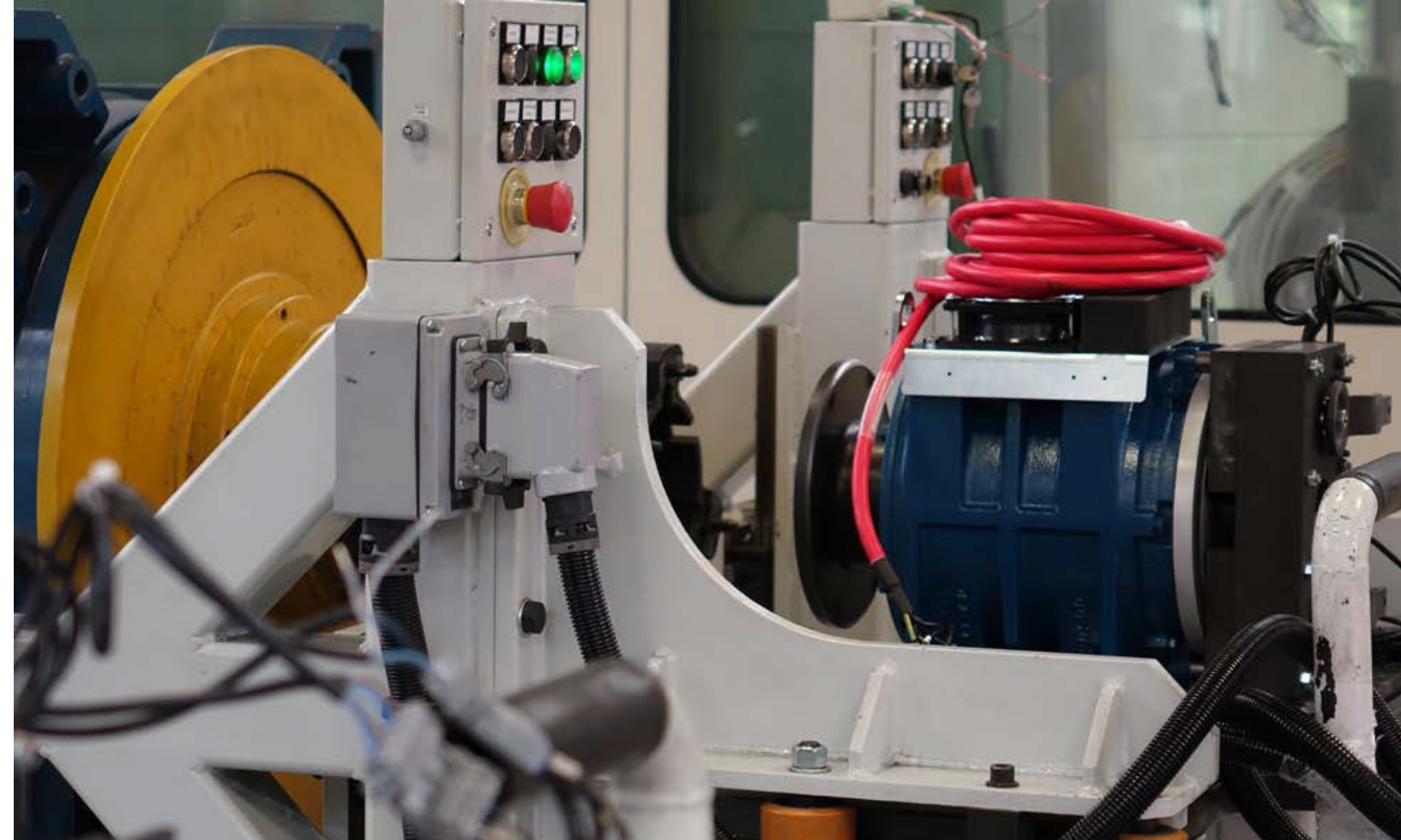
CUTTING-EDGE TECHNOLOGY

COSTANT R&D

TECHNICAL TEAM EXPERTISE



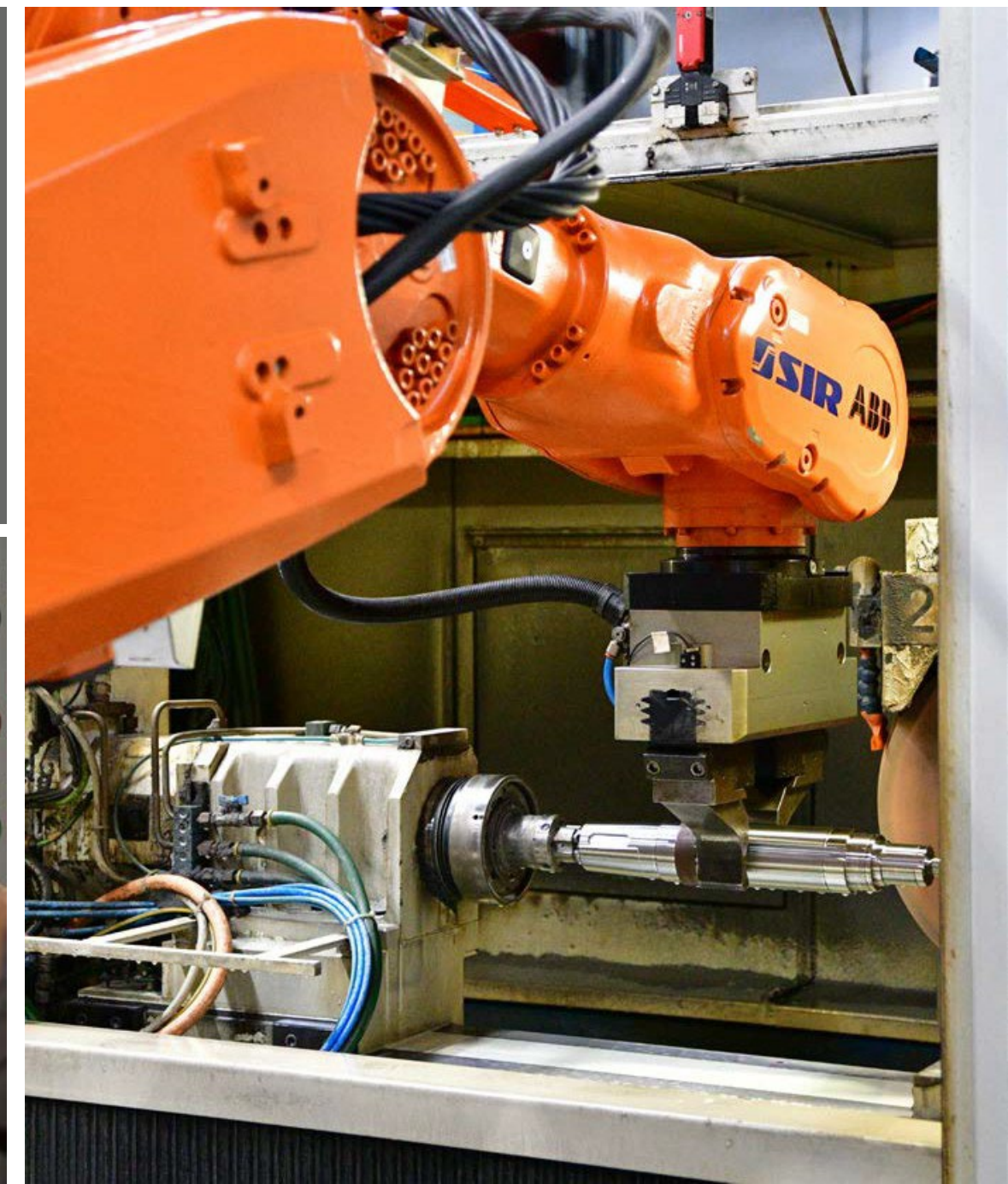




18 production automatized process  
by **anthropomorphic robots**

**10** measuring centre

20+ machine test benches





# TESTING

## UNIQUE TEST TOWER IN ITALIAN HEADQUARTERS

The Montanari Tower in Modena manufacturing facility rises 165 feet high with 3 elevator shafts

Used to **test final products** in simulated job site conditions before shipment to costumers

### + 2 TEST ELEVATORS

- 2500 lbs - 500 fpm
- 6500 lbs - 800 fpm

### + 1 PANORAMIC ELEVATOR

- 3500 lbs - 400 fpm



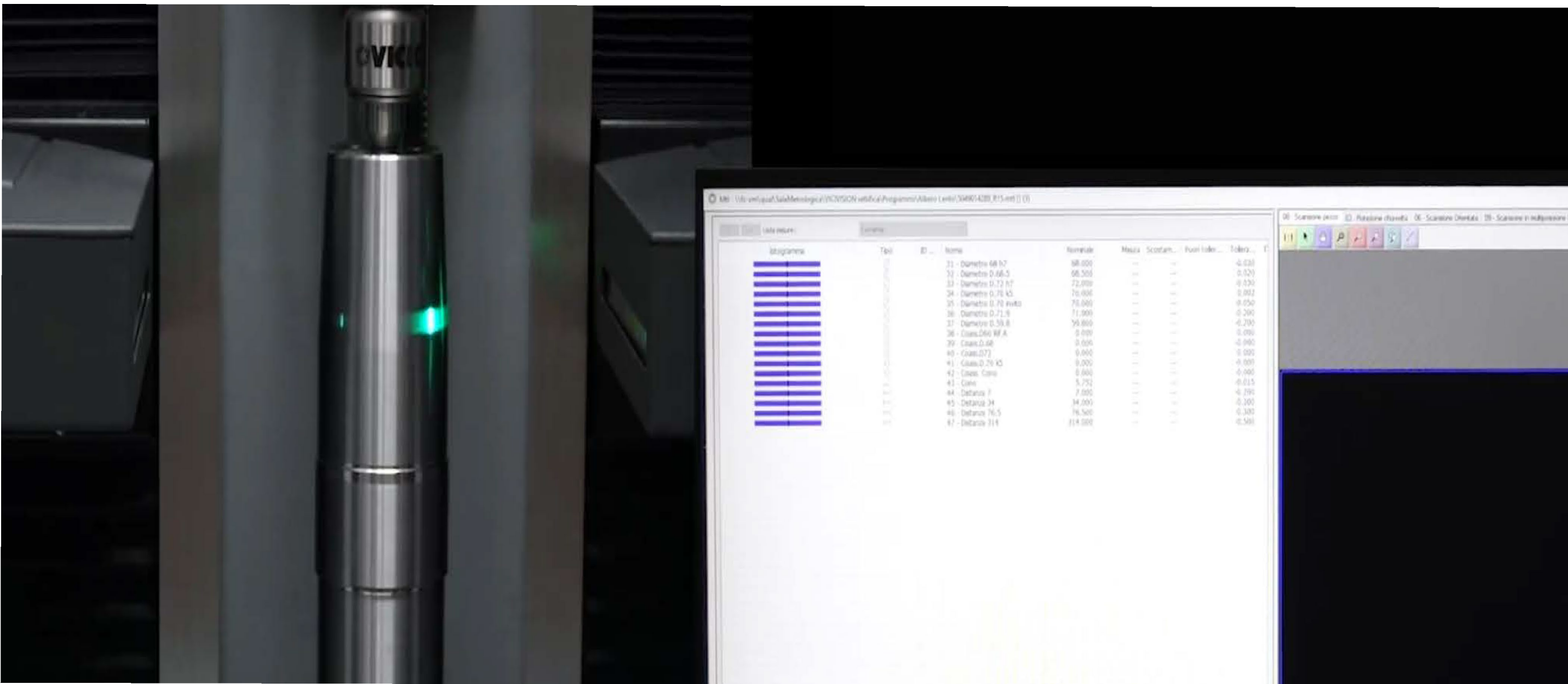


# TESTING - FACTORY ACCEPTANCE TEST

ON EACH COMPONENT & PRODUCT  
In ALL PRODUCTION PHASES

- LASER SCANNING AND ROBOT CONTROL SYSTEMS
- EXPERIENCED MONITORING BY OUR TEAM

**EACH MACHINE IS THOROUGHLY TESTED AT MAXIMUM OPERATING PARAMETERS & TORQUE CAPACITY**





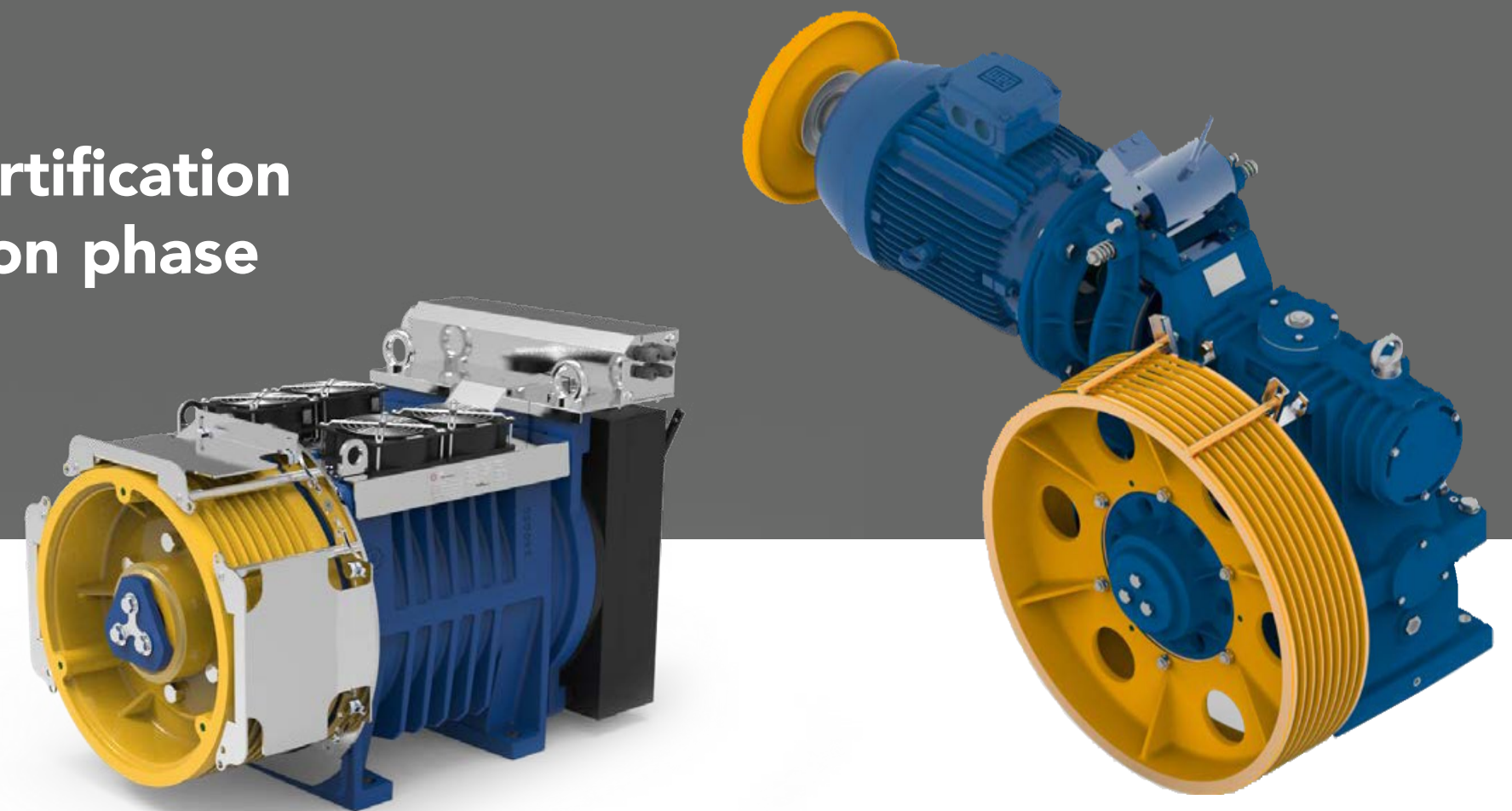
# GAME CHANGER PRODUCT AND MARKET APPROACH

**HIGH PERFORMING** traction machines for new installation  
and MOD projects

**COMPACT** gear and gearless to enhance handling, reduce installation  
costs - *our gearless range is the best solution for all MRL projects*

## RELIABLE

- 100% maximum load tested machine and multiple certification
- Strong constant support in all installation and operation phase



**Montanari**  
NORTH AMERICA Inc.

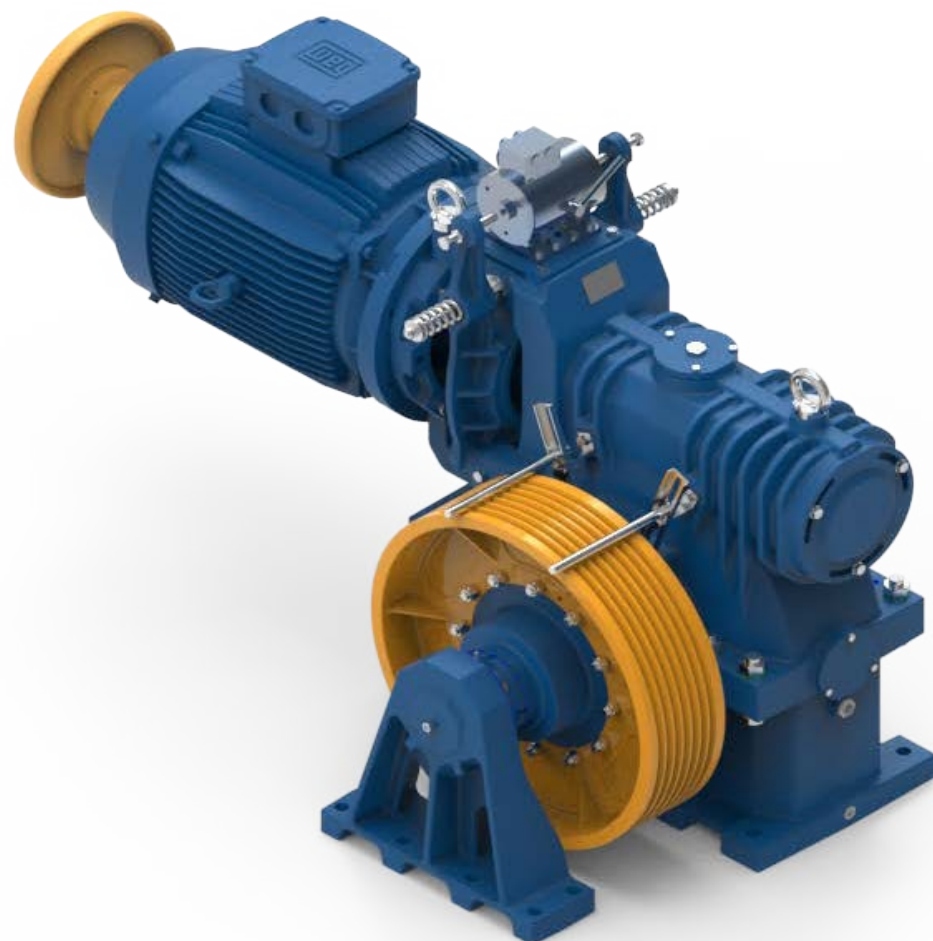
# GEARED RANGE



**M98H**



**M105**



**M109**



*Montanari*  
NORTH AMERICA Inc.

## TECHNICAL FEATURES

### Static Load\*

**M98H** 12125 lbs  
**M105** 21605 lbs  
**M109** 27558 lbs

### Load\*

**M98H** 2500 lbs  
**M105** 3500 lbs  
**M109** 4000 lbs

### Speed\*

500 fpm

\*max value

### Roping

1:1

### Sheave

21.6 - 25.6 - 27.6 - 29.5 - 31.5 in





# MODULAR DESIGN FOR MAXIMUM EFFICIENCY

MOTOR, GEARBOX and SHEAVE can be disassembled *without voiding warranty* to make transportation, installation and maintenance easier

LIGHTER TO TRANSPORT

FASTER TO INSTALL

EASIER TO MAINTAIN



## GEARED RANGE

## MAIN FEATURES



### ISOSTATIC STRUCTURE

Machine designed without external support while ensuring highest static load

**NO RISK OF DISALIGNMENT  
FOR EASIER INSTALLATION**



### MISTAKE-PROOF DESIGN

**Self centering coupling** for motor and traction sheave assembly

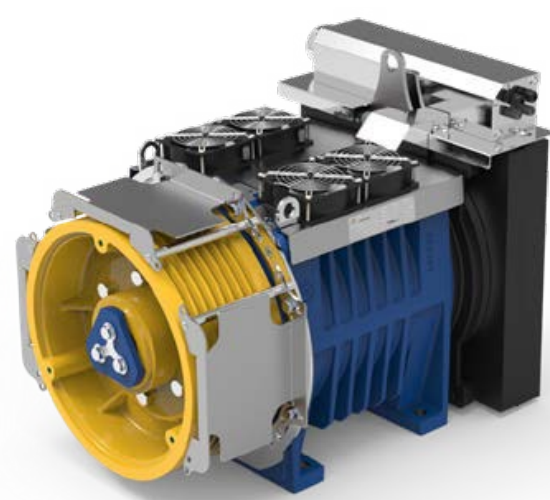


**SAFETY** *Manual rescue device* available for all the Montanari gear machines

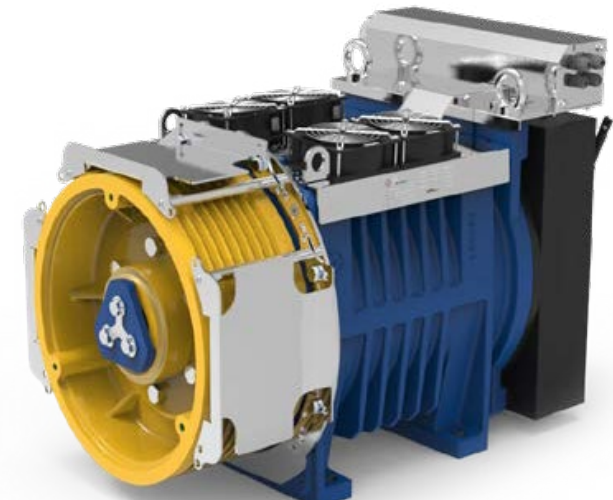




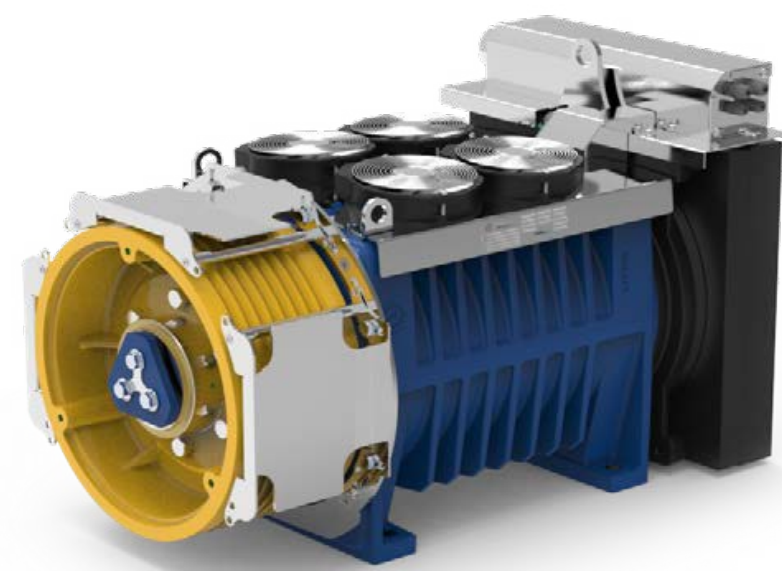
# GEARLESS - MGA34 RANGE



MGA34S



MGA34M



MGA34L



MGA34XL



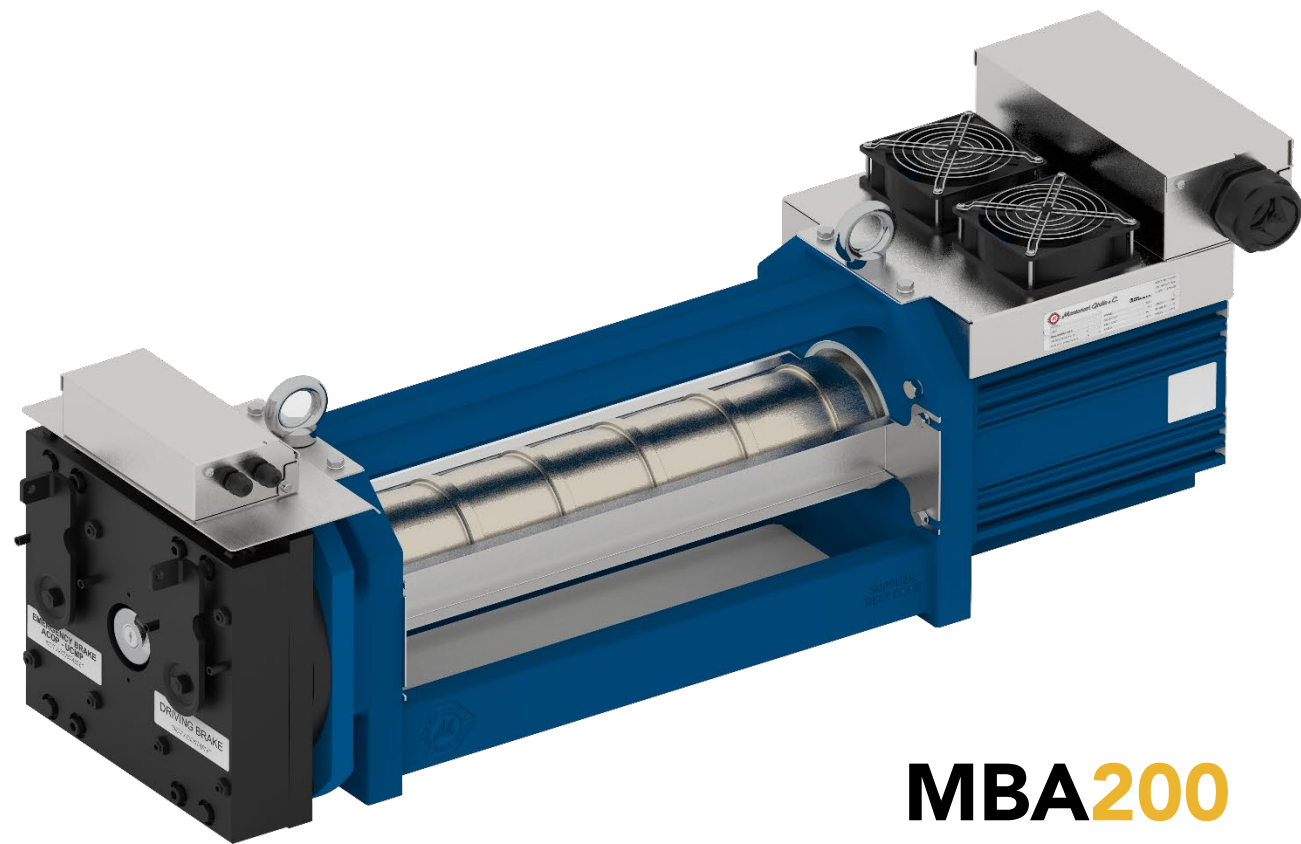
## TECHNICAL FEATURES

<b>Static Load*</b> 13227 lbs	<b>Load*</b> 6000 lbs	<b>Speed*</b> 600 fpm	<b>Roping</b> 2:1 - 1:1	<b>Sheave</b> 9.45 - 12.6 - 15.75 18.90 - 20.47 in
<small>*max value</small>				

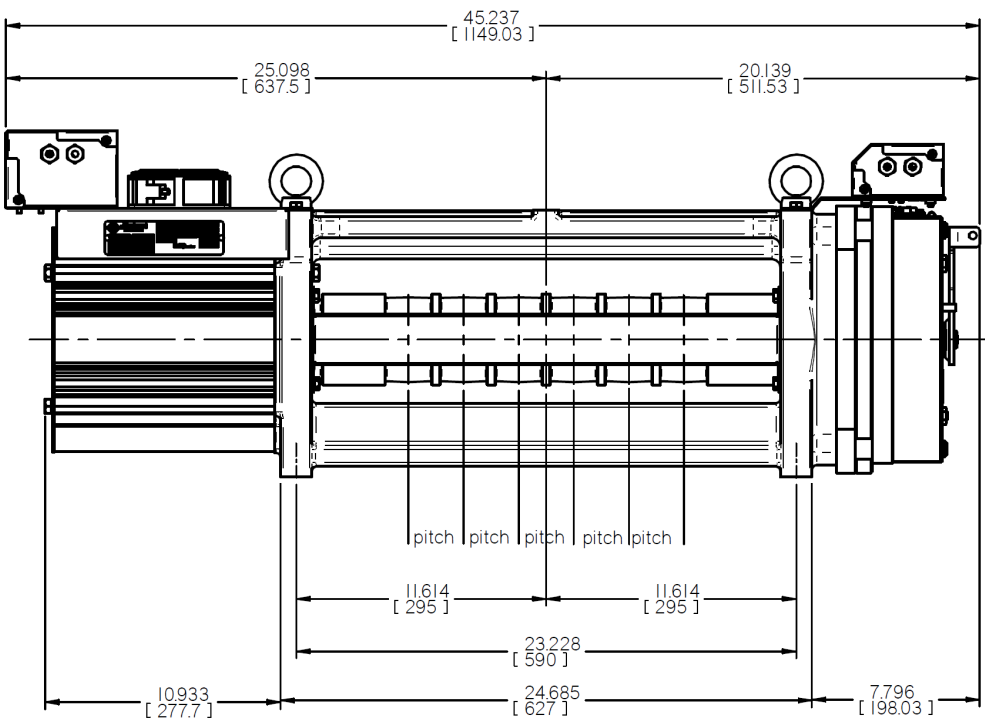
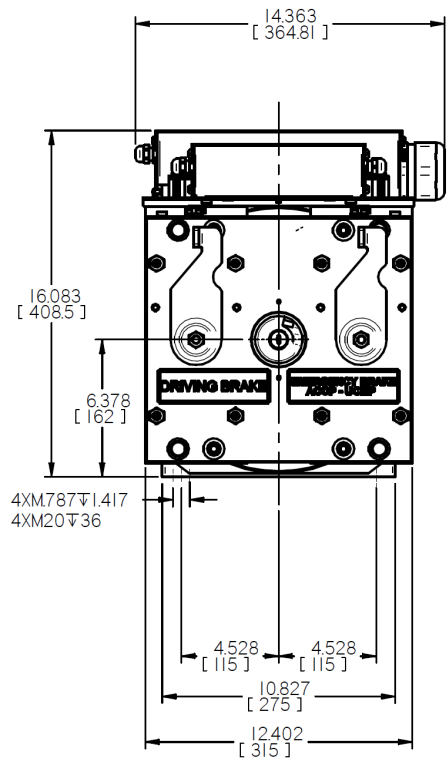


# GEARLESS - BELT RANGE

## MBA140 - 200



MBA200



Montanari  
NORTH AMERICA Inc.

THE NEW MONTANARI SOLUTION  
FOR YOUR **BELT LIFT SYSTEMS!**





# COMPACT DESIGN FOR MAXIMUM VERSATILITY

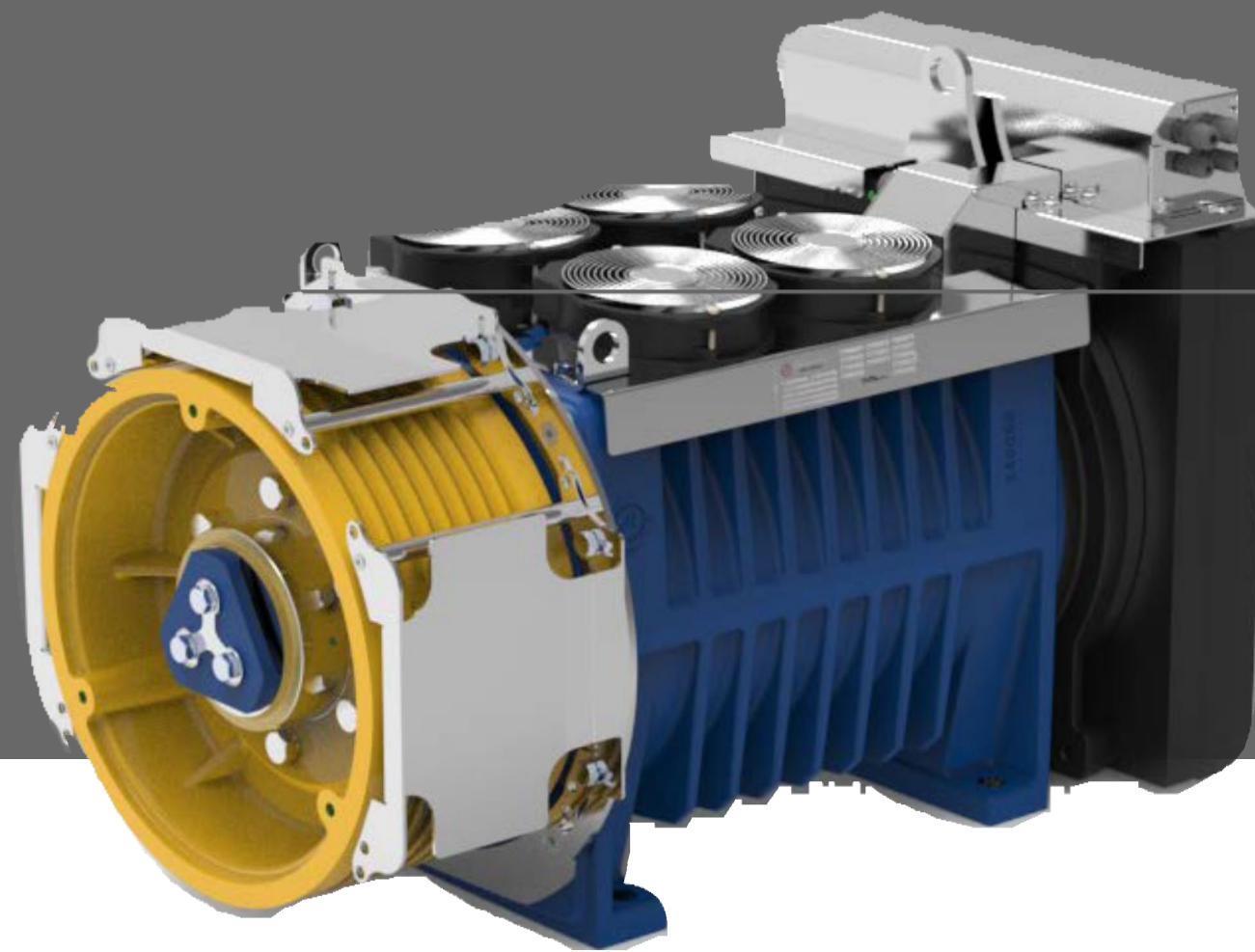
REDUCED DIMENSION to optimise transportation  
and installation - IDEAL FOR MRL and restricted  
space projects

QUIET OPERATION for  
improved usage experience

LIGHTER TO TRANSPORT

EASIER TO INSTALL

MAXIMUM COMFORT



## GEARLESS RANGE



# SILENT OPERATION FOR MAXIMUM COMFORT

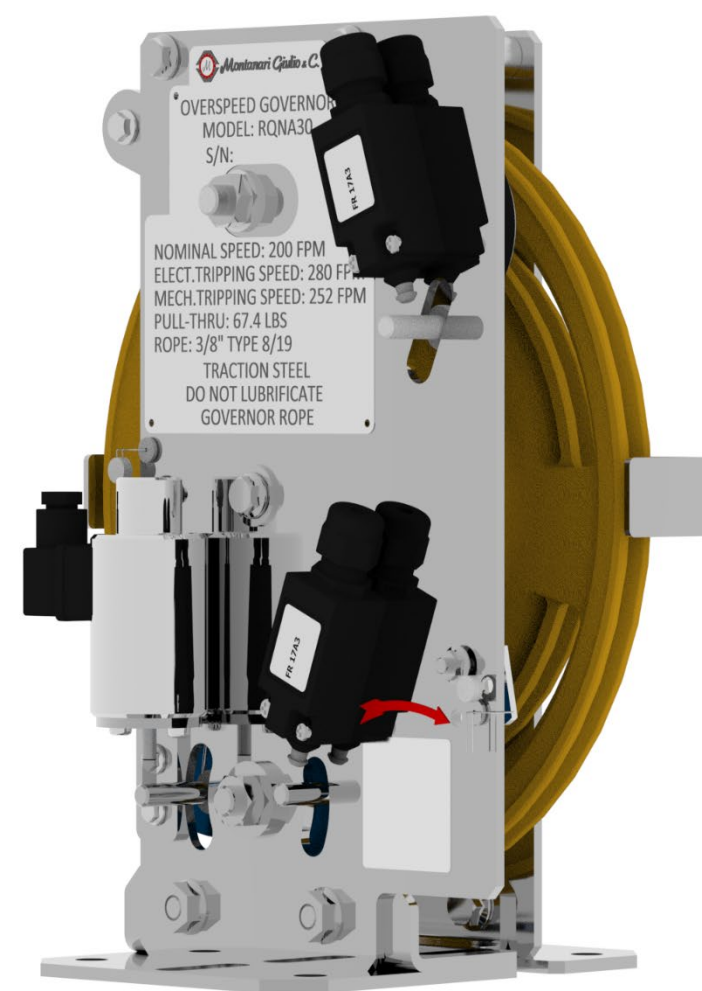


*Lift Ride Simulation with Belt MBA200 in MONTANARI Test Tower  
(Italian Headquarters)*





# SPEED GOVERNOR - RQNA



**Sheave**  
300mm

**Speed**  
From 100  
up to 600 fpm

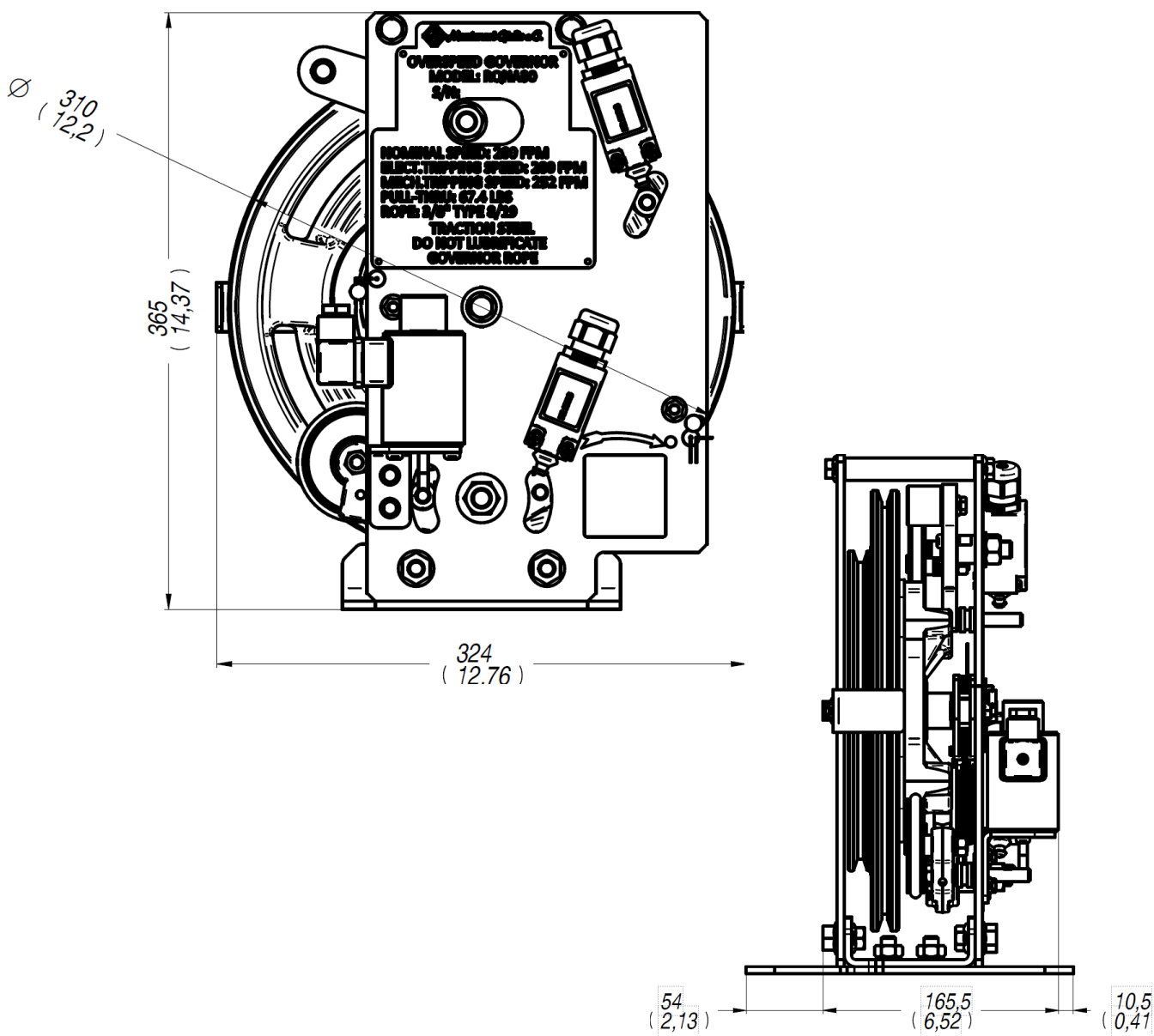
**Groove**  
Hardned V groove for  
max adherence without  
sheave worn out

**TESTING GROOVE**  
Allow user to conduct the  
periodical safety gear test  
without impacting on the  
elevator structure

MODEL	RQNA Rated speed	COMMON DATA	
		MAX. TRAVEL HEIGHT	ROPE Ø
	V [ftm]	[ft]	[mm /in]
Version			
100	100	246*	From 6 to 8 mm
150	150		
200	200		
300	300		From 0,24" to 0,31"
350	350		

**Anticreeping  
device\***  
Solid steel plunger for  
UCMP

*\*Optional available*



**SAFETY RANGE**  
**SAFETY AND QUALITY ALWAYS FIRST!**



# CUSTOM MACHINE SELECTION

AUTONOMOUSLY OR SUPPORTED

DIRECT DOWNLOAD OF TECHNICAL DATA SHEET AND FINAL QUOTATION

Montanari Group

GEARLESS&GEARBOX TRACTION MACHINES

CONFIGURATION ID 2006089 - FRAMES AND PROTECTIONS

TYPE OF FRAME

☒ NONE

☐ HIGH FRAME

☐ LOW FRAME

TYPE OF PROTECTION

☒ NONE

☐ COMPLETE PROTECTION

☐ PROTECTION TILE

ROPE CLAMPS

NONE

WOODEN CASE 167x80x115cm

PACKAGING

EXTRA

EXTRA

EXTRA

EXTRA

DELIVERY TIME

8 WORKING WEEKS FROM ORDER CONFIRMATION

STAMP ON TECHNICAL SHEET

☒ YES

☐ NO

AMOUNT [Euro]

AMOUNT [Euro]

AMOUNT [Euro]

AMOUNT [Euro]

Start over

Back

Forward

Refresh

Cart

Specifications

Save

Cancel

Message log

Error log

Show history

USER-FRIENDLY CONFIGURATION (speed, load, sheave size, ropes number, grooves type, bedplates, guardings...)

CONFIGURATION ID 2006089 - INSTALLATION PARAMETERS

STANDARD

ASME A17.1 2022

DEVICE

☒ GEARBOX

☐ GEARLESS

INSTALLATION RIDE [ft]

42.6

CABIN SPEED [fpm]

1.2700 [m/s]

ENTER CABIN SPEED [fpm]

ROPING

< select >

MANUAL ENTRY

INSTALLATION LAYOUT

MOTOR DRIVE TYPE

VVVF - 4 POLES

INSTALLATION EFFICIENCY

0.84

DIVERTING PULLEYS

DIVERTER

COUNTERWEIGHT

SIDE D1

D=650 mm - 25.59 in

DIAMETER [mm]

650

GAMMA ANGLE [°] - BETA ANGLE [°] - MIN/MAX

WRAP ANGLE [°]

REQUIRED WRAP ANGLE [°]

U GROOVE

< select >

[GAMMA: 35] [WRAP ANGLE MIN: 98 MAX: 175] [PS: 6.6]

CI GROOVE TYPE

< select >

[GAMMA: 50] [WRAP ANGLE MIN: 101 MAX: 175] [PS: 6.4]

V GROOVE

< select >

[GAMMA: 40] [WRAP ANGLE MIN: 112 MAX: 175] [PS: 5.8]

HARDENED GROOVE

YES

ENTER WRAP ANGLE INTO MIN AND MAX RANGE [ 98 / 175 ]

Start over

Back

Forward

Refresh

Cart

Specifications

Save

Cancel

Message log

Error log

Show history

Montanari North America Inc.

CUSTOMER CODE 1062190539

OFFER 2005401

14/10/2024 15:57:46

COMPANY TRIUMPH ELECTRICAL SUPPLY

USER a.montanari

ADDRESS 215 E 2ND ST, MINEOLA

NOTES

CITY NEW YORK

E-MAIL

REF. INSTALLATION 3500lbs 250 RM 2.1

TECHNICAL SHEET

The calculation is based on data supplied by the customer, who is responsible for verifying their completeness and correctness.

INPUT INSTALLATION DATA

RULE	ASME A17.1 2022
LOAD [kg]	1900
CABIN SPEED [fpm]	250.00
ROPING	2.1
CAR WEIGHT [kg]	4400.00
CABLES WEIGHT [kg]	45.82
OVERLOAD FACTOR [N]	152
WEIGHT OF THE HANDLING EQUIPMENT [kg]	0
MACHINE DISTANCE [m]	155.00
COUNTERWEIGHT [kg]	5075.00
COMPENSATION ROPES [N]	100
COMPENSATION CHAIN MASS [kg]	205.00
ACCELERATION REQUIRED [m/s²]	0.00
EFFICIENCY OF THE INSTALLATION	0.82
VOLTAGE [V]	208
ACCELERATION VARIATION [m/s²]	0.00
START/STOP	260
INSTALLATION DUTY CYCLE [N]	40

TRACTION MACHINE

CABIN

COUNTERWEIGHT

MGA34L

TRACTION ROPES

NUMBER OF ROPES [no]	4	ROPE DIAMETER [in]	0.50
ROPE WEIGHT [kg]	226.64	ROPE RESISTANCE [N]	70000
ROPE TYPE	UNITED ROPES - 8X19 SEALEY		

TRACTION SHEAVE

TRACTION SHEAVE [N]	20.47
TYPE OF GROOVE	VEE
NUMBER OF GROOVES [no]	4
WRAP ANGLE [°]	180
WRAP ANGLE ACCORDING TO THE ADHERENCE [°]	[ 174/180 ]

45 s

0.78 h

OPERATING DATA

RESULTS

NAME PLATE DATA

AVERAGE OPERATING OUTPUT POWER [W]

17.7

7360

27.3

OPERATING STATIC LOAD [kg]

1412.35

MAX. STATIC LOAD [kg]

13227

MAX OPERATING STARTING TORQUE [N-m]

101.73

MAX. TORQUE [N-m]

2065.17

AVERAGE OPERATING TORQUE [N-m]

71.24

RATED TORQUE [N-m]

1105.00

MAX CURRENT AT STARTING TORQUE [A]

83

MAX CURRENT [A]

152.00

MAX OPERATING CURRENT [A]

12.4

RATED CURRENT [A]

85.00

OPERATING SPEED [rpm]

12.4

RATED SPEED [rpm]

120

OPERATING FREQUENCY [Hz]

63.25

RATED FREQUENCY [Hz]

60.0

GEARLESS INERTIA [kg-m²]

2798.97

RATED THERMIC TORQUE [N-m]

767.09

INSTALLATION INERTIA [kg-m²]

2864.04

MOTOR POLES [N]

16

TOTAL INERTIA [kg-m²]

2864.04

BSME CERTIFICATE

MAVR

CSA Certification N° 125216

RULE CALCULATION RESULTS

MINIMUM SAFETY FACTOR	8.09	REAL SAFETY FACTOR	15.26
MINIMUM SAFETY FACTOR ACCORDING TO EN81-50	16.97		
SPECIFIC PRESSURE (EN81-1-1985) [kg]	6.27		
STATIC FORCE [N]	18584.96		

CALCULATION T1/T2 vs E\*(F/A)

LOAD AND UNLOAD OPERATIONS	1.63	<=	2.57	T1= 20921	T2= 14202	F= 0.261	A= 180
DOWNWARDS EMERGENCY BRAKING	1.49	<=	1.92	T1= 15245	T2= 10218	F= 0.208	A= 180
UPWARDS EMERGENCY BRAKING	1.49	<=	1.92	T1= 15245	T2= 10218	F= 0.208	A= 180
CAR/COUNTERWEIGHT BLOCKED	16.80	>=	6.16	T1= 18589	T2= 1008	F= 0.322	A= 180

MONTANARI NORTH AMERICA INC.

551, 5th Avenue, Suite 1810 New York, NY 10176

# PRODUCT CONFIGURATOR TOOL





# MULTI-VARIABLE CONFIGURATION

Traction Machine	
Roping	1:1
Max Shaft Load (lbs)	16500
Weight(lbs)	2090
Sheave	6 Grooves *1/2"(U30~96.5°) *3/4" Pitch
Sheave	5 Grooves *5/8"(U30~96.5°) *1" Pitch

Machine Part No.	Rated Load (lbs)	Speed (fpm)	Ratio	Sheave Diameter (in)	Power (HP)	Pole	Rated Speed (Rpm)	Voltage (VAC)	Rated Frequency (Hz)	Rated Current (A)
HGD245-2020-HV-L-SB	2000	200	50:1	25.6	15	4	1770	480	60	17
HGD245-2020-LV-L-SB	2000	200	50:1	25.6	15	4	1770	208	60	39
HGD245-2510-HV-L-SB	2500	100	61:1	25.6	10	6	1170	480	60	14
HGD245-2510-LV-L-SB	2500	100	61:1	25.6	10	6	1170	208	60	32
HGD245-2520-HV-L-SB	2500	200	50:1	25.6	20	4	1775	480	60	23
HGD245-2520-LV-L-SB	2500	200	50:1	25.6	20	4	1775	208	60	53
HGD245-2520-DV-L-SB	2500	200	50:1	25.6	20	4	1775	460/208	60	23/53
HGD245-2535-HV-L-SB	2500	350	61:2	25.6	25	4	1770	480	60	28
HGD245-2535-LV-L-SB	2500	350	61:2	25.6	25	4	1770	208	60	64
HGD245-2535-DV-L-SB	2500	350	61:2	25.6	25	4	1770	460/208	60	28/64
HGD245-2540-HV-L-SB	2500	400	55:2	25.6	30	4	1775	480	60	33
HGD245 2540 LV L SB	2500	400	55:2	25.6	30	4	1775	208	60	75

\*Competitor catalogue recommending a single standard parameter

U 30 - 96.5° ...ARE YOU SURE IS ALWAYS RIGHT?!

SELECTION PROCESS  
MUST CONSIDER ALSO

- P CABIN
- H TRAVEL
- V SPEED
- ROPE TYPE
- CWT BALANCING
- COMPENSATION CHAIN
- WRAP ANGLE

CONFIGURATION IS ESSENTIAL



## SYSTEM DATA

Q 2500 lbs  
200 fpm  
TS 25.6 in  
U 30-96.5°  
6 ROPES ½  
WRAP ANGLE 155°  
H 60 ft

*P 3500lbs, H 60ft, 50% CWT — OK*

*P 3500lbs, **H > 80ft**, 50% CWT — NOT ENOUGH ADHERENCE*

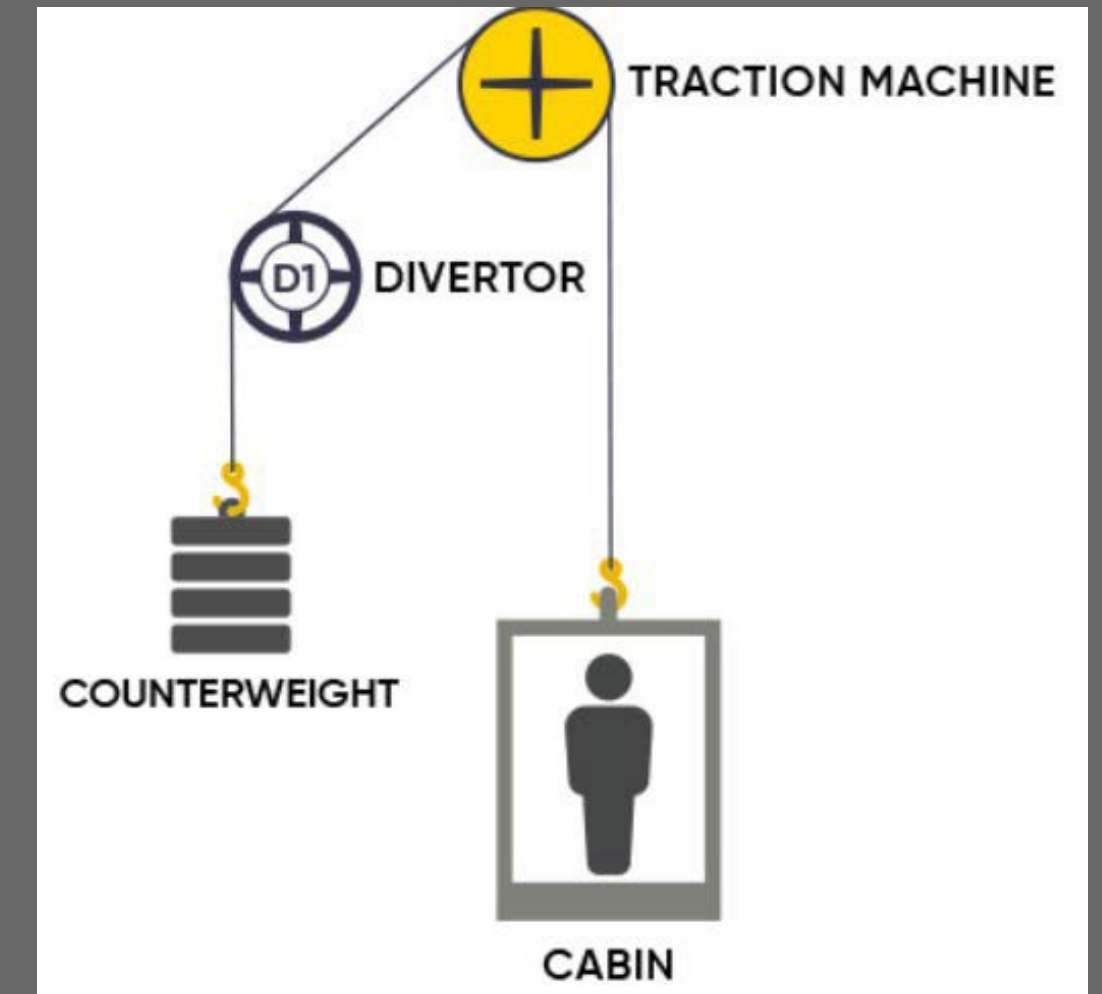
***P < 3300lbs**, H 60ft, 50% CWT — NOT ENOUGH ADHERENCE*

***P > 5500lbs**, H 60ft, 50% CWT — FAST ROPE WORNOUT\**

*P 3500lbs, H 60ft, **45% CWT** — NOT ENOUGH ADHERENCE*

*P 3500lbs, H 60ft, 50% CWT, **350fpm** — NOT ENOUGH ADHERENCE*

\*(out of EN81 safety factor)



**CUSTOM CONFIGURATION**  
**AVOID INSTALLATION PROBLEMS**  
**AND ADHERENCE/WORN OUT ISSUES!**



# A17 REGULATION\* CONSIDERS **ONLY** SPEED

Suspension Member Speed, m/s (ft/min)	Minimum Factor of Safety	
	Passenger	Freight
0.25 (50)	7.60	6.65
0.37 (75)	7.75	6.85
0.50 (100)	7.97	7.00
0.62 (125)	8.10	7.15
0.75 (150)	8.25	7.30
0.87 (175)	8.40	7.45
1.00 (200)	8.60	7.65
1.12 (225)	8.75	7.75
1.25 (250)	8.90	7.90
1.50 (300)	9.20	8.20
1.75 (350)	9.50	8.45
2.00 (400)	9.75	8.70
2.25 (450)	10.00	8.90
2.50 (500)	10.25	9.15
2.75 (550)	10.45	9.30

# EN 81 REGULATION IS MORE RESTRICTIVE = **SAFER**

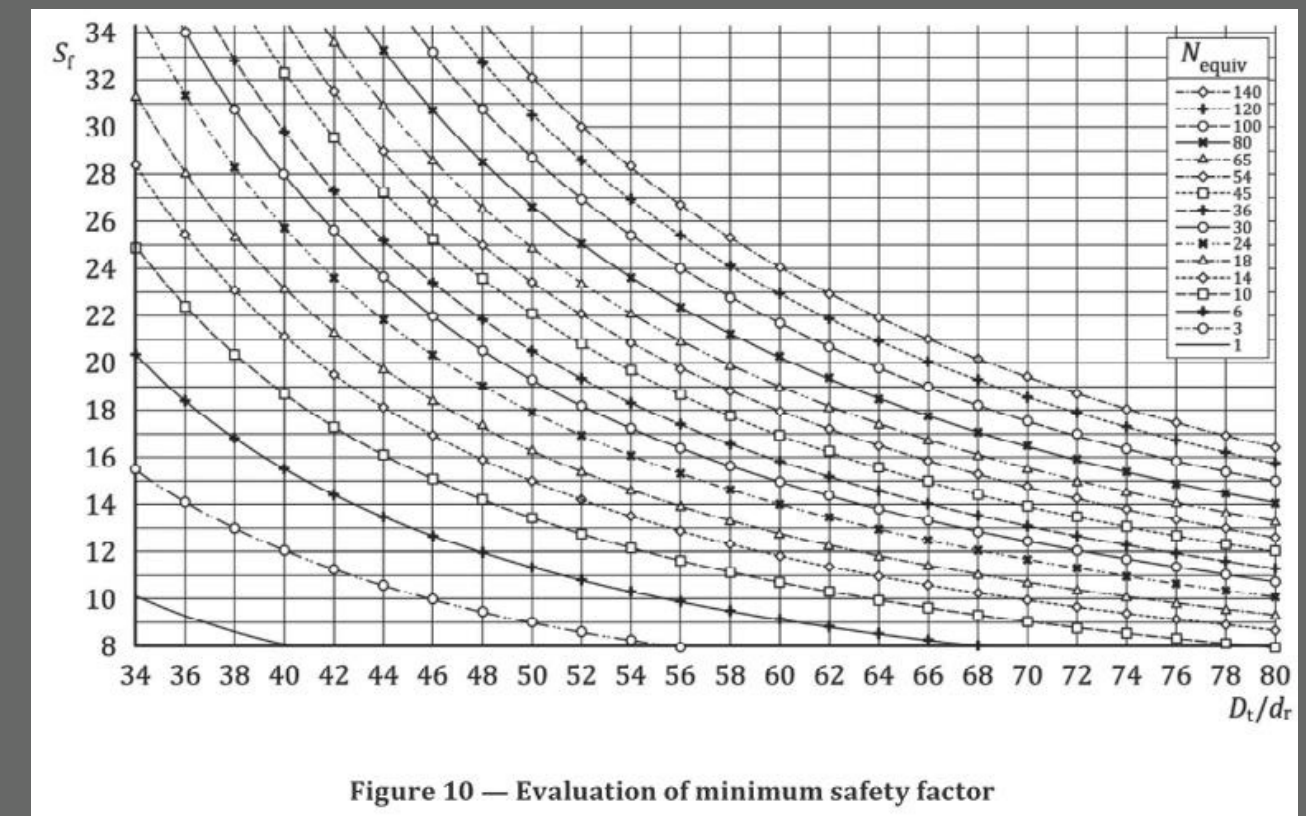


Figure 10 — Evaluation of minimum safety factor

\*Competitors refer to A17 to recommend standard value

Traction Machine	
Roping	1:1
Max Shaft Load (lbs)	16500
Weight(lbs)	2090
Sheave	6 Grooves *1/2"(U30~96.5") *3/4" Pitch
Sheave	5 Grooves *5/8"(U30~96.5") *1" Pitch

Machine Part No.	Rated Load (lbs)	Speed (fpm)	Ratio	Sheave Diameter (in)	Power (HP)	Pole	Rated Speed (Rpm)	Voltage (VAC)	Rated Frequency (Hz)	Rated Current (A)
HGD245-2020-HV-L-SB	2000	200	50:1	25.6	15	4	1770	480	60	17
HGD245-2020-LV-L-SB	2000	200	50:1	25.6	15	4	1770	208	60	39
HGD245-2510-HV-L-SB	2500	100	61:1	25.6	10	6	1170	480	60	14
HGD245-2510-LV-L-SB	2500	100	61:1	25.6	10	6	1170	208	60	32
HGD245-2520-HV-L-SB	2500	200	50:1	25.6	20	4	1775	480	60	23
HGD245-2520-LV-L-SB	2500	200	50:1	25.6	20	4	1775	208	60	53
HGD245-2520-DV-L-SB	2500	200	50:1	25.6	20	4	1775	460/208	60	23/53
HGD245-2535-HV-L-SB	2500	350	61:2	25.6	25	4	1770	480	60	28
HGD245-2535-LV-L-SB	2500	350	61:2	25.6	25	4	1770	208	60	64
HGD245-2535-DV-L-SB	2500	350	61:2	25.6	25	4	1770	460/208	60	28/64
HGD245-2540-HV-L-SB	2500	400	55:2	25.6	30	4	1775	480	60	33
HGD245-2540-LV-L-SB	2500	400	55:2	25.6	30	4	1775	208	60	75

## MULTI-FACTORS PARAMETER

Nequiv depends on Groove shape,  
N° of simple and reverse bending,  
TS Diameter

# ROPE SAFETY FACTOR - A17 vs EN81



# MONTANARI CONFIGURATOR CONSIDERS BOTH REGULATIONS to guarantee maximum **safety** and maximize ropes and sheaves' **duration**

## SYSTEM DATA

Q 3500 lbs  
P 4500 lbs  
RATIO 1:1  
6 ROPES 5/8in V45°

RULE CALCULATION RESULTS			
MINIMUM SAFETY FACTOR A17.1	9,50	REAL SAFETY FACTOR	18,32
MINIMUM SAFETY FACTOR ACCORDING TO EN81-50	16,42		
SPECIFIC PRESSURE (EN81-1:1985) [N/mm²]	6,97		
MAX. PRESSURE (EN81-1:1985) [N/mm²]	7,05		
STATIC FORCE [N]	37002,64		

FOLLOWING A17 REGULATION, POSSIBLE TO INSERT ONLY 4 ROPES — THIS WOULD CAUSE **FAST WORNOUT!!**

*\*We also check the old EN81-1 1985 who looks the pressure on the grooves*

## ROPE SAFETY FACTOR - EN81







**PEOPLE  
TOOLS  
TIME**

**COST!**

**SHEAVE REPLACEMENT - COMPETITORS**





**NOT *JUST* A TRACTION MACHINE!**



*Montanari*  
NORTH AMERICA Inc.



## PRE-SALE

- MACHINE TYPE SELECTION
- MACHINE CONFIGURATION  
*Configurator Tool*
- CUSTOM QUOTATION

## PURCHASE

- TIMELY DELIVERY
- MANUALS AND TECHNICAL REPORTS

## AFTER- SALE

- TECHNICAL SUPPORT  
*MONTANARI Technicians  
U.S. Support Team*
- SMART TOOLS FOR 24/7 ASSISTANCE  
*APP for Data consultation  
Predictive IOT  
BUTTERFLY*

***YOUR LONG-TERM TECHNICAL PARTNER!***





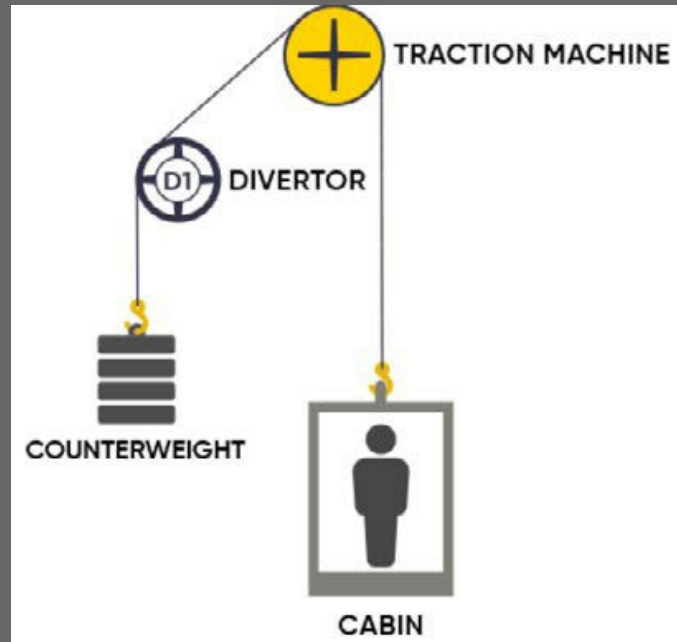
# MACHINE SELECTION



*Montanari*  
NORTH AMERICA Inc.



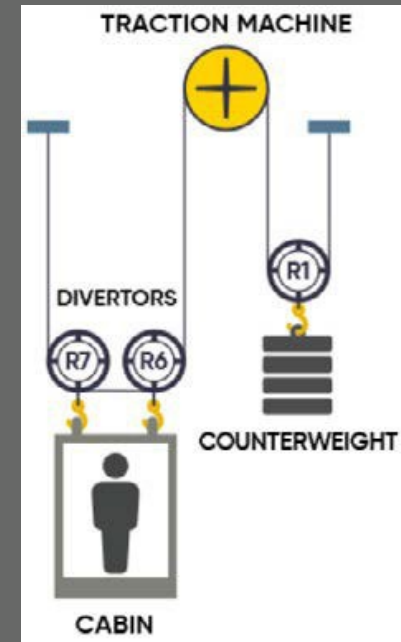
# RATIO 1:1



**TORQUE 2845 ft-lbs / 52 rpm**  
**Gearless weight 4800lbs**  
**6 ropes 5/8in 316lbs**  
(considering same lifetime)  
**Gearless efficiency 90%**

**TS 25.6in**

# RATIO 2:1



**TORQUE 770 ft-lbs / 169 rpm**  
**Gearless weight 1500lbs**  
**10 ropes 10mm 410lbs**  
(considering same lifetime)  
**Gearless efficiency 90%**

**TS 15.7in**

# GEARLESS

## SYSTEM DATA

Q 3500lbs  
P 4000lbs  
V 350fpm  
45% CWT  
H 90ft

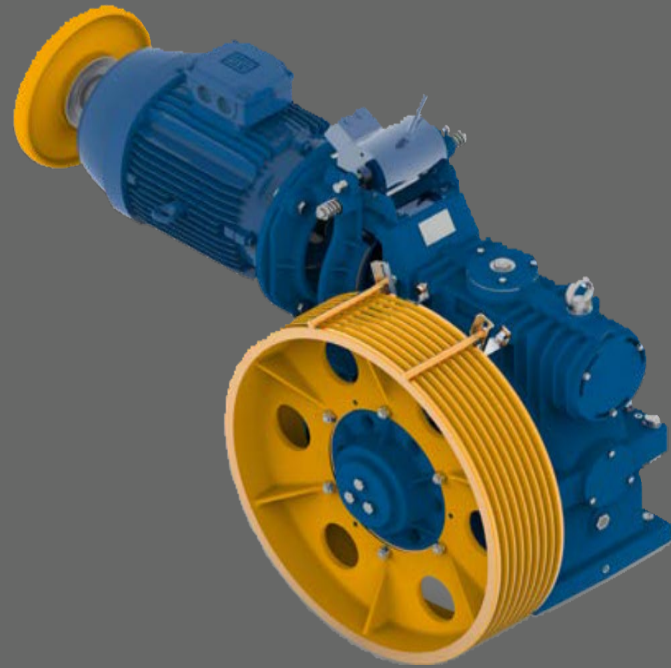
**2:1 RATIO**  
**SMALLER MACHINE**  
**FOR SAME LOAD**

**AT LOWER SPEED IT WOULD**  
**GET EVEN MORE EFFICIENT**  
**(LESS CONSUMPTION)**

# MACHINE SELECTION

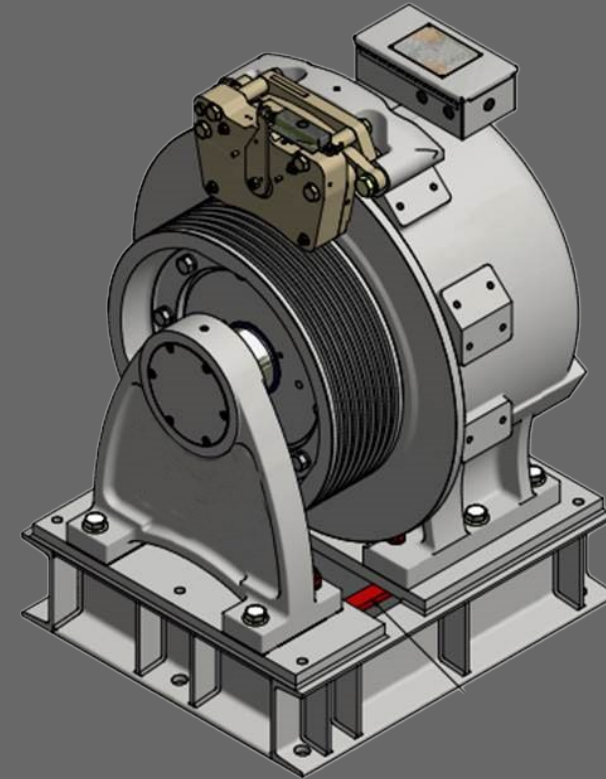


# GEARED



TORQUE 2845 ft-lbs / 22rpm  
Gearbox + Motor weight **2400 lbs**  
Efficiency: Motor 95%, Gear 85%  
Total efficiency 81%

# GEARLESS



TORQUE 2845 ft-lbs / 22rpm  
Gearless weight 4800 lbs  
Gearless efficiency 81%

## 1:1 RATIO

### SYSTEM DATA

Q 3500 lbs  
P 4000 lbs  
V 150 fpm  
45% CWT  
H 90 ft  
TS 25.6 in

**LIGHTER** MACHINE FOR  
SAME PERFORMANCE

AT LOWER SPEED GET  
EVEN MORE EFFICIENT

DO NOT UNDERVALUE  
GEARED SOLUTIONS!

## MACHINE SELECTION





# POST-SALES



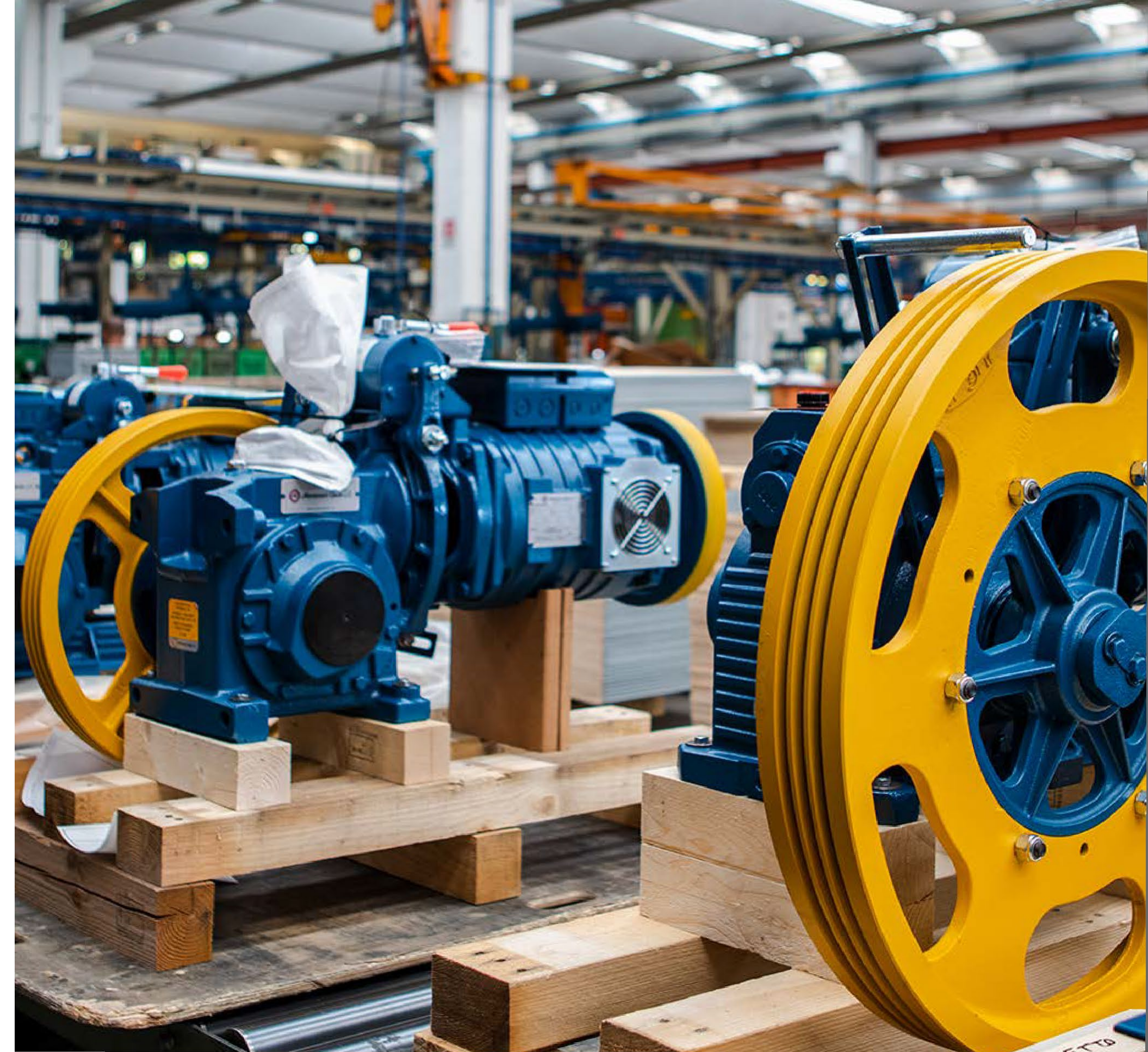
*Montanari*  
NORTH AMERICA Inc.



# SERVICE FAST AND EFFICIENT

STRATEGIC PARTNERSHIP WITH  
TRIUMPH ELECTRICAL SUPPLY TO  
MINIMIZE LEAD TIME AND GUARANTEE  
REACTIVE TECHNICAL **SUPPORT**

**TIMELY** DELIVERY thanks to  
ready-to-ship product stock in local  
warehouses and vast distribution  
network





**montanariapp**  
AVAILABLE FOR ANDROID & iOS  
mobile&desktop

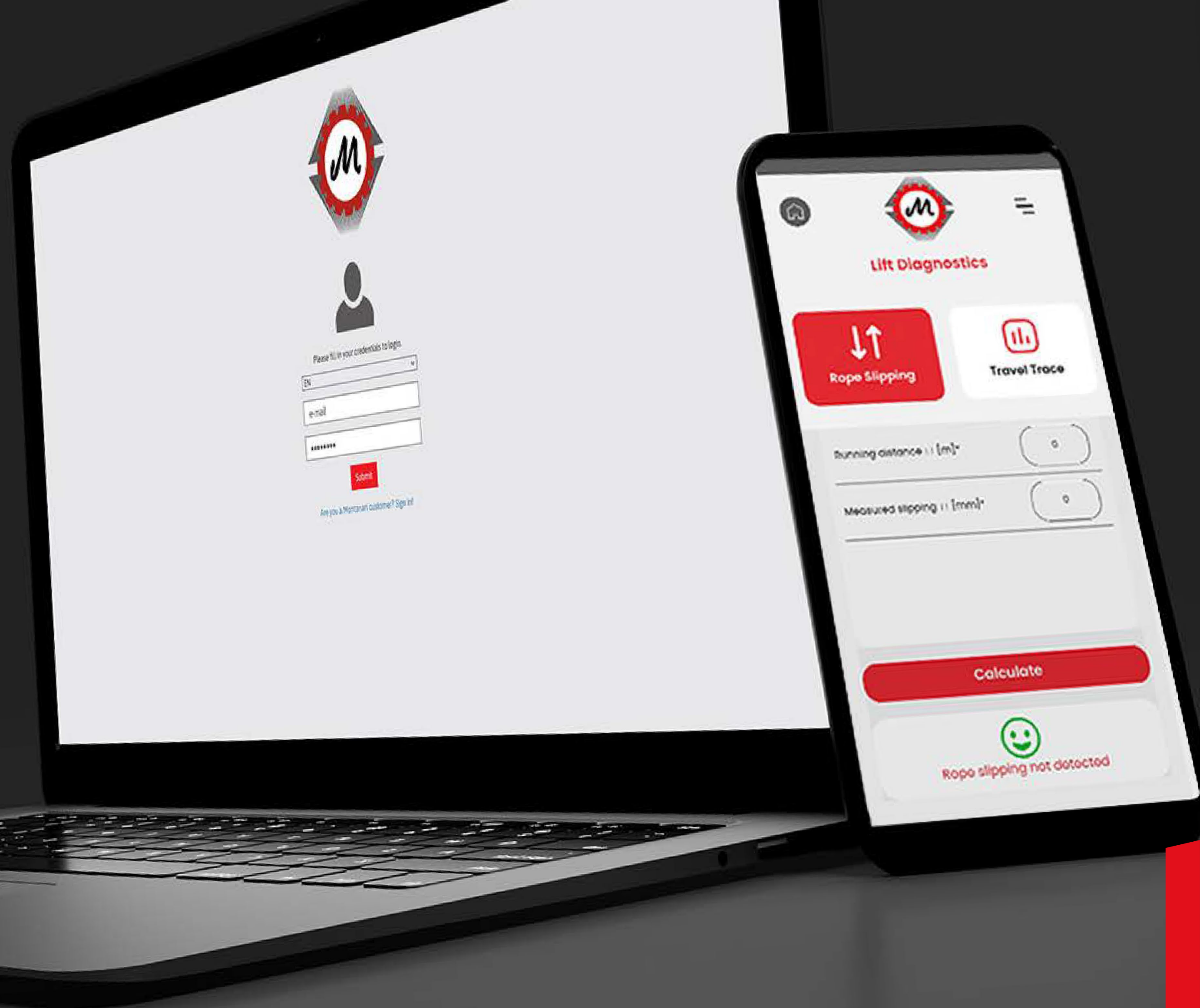
**INSTALLATION DATA  
CONTROL**

**REMOTE OPERATION  
MONITORING**

**CONVENIENT MANUALS  
AND CERTIFICATES'  
CONSULTATION**



Scan to  
**WORK  
SMARTER!**







**BUTTERFLY**  
THINK INSIDE THE BOX

# YOUR NEW UNIQUE **IOT** SOLUTION



**PREDICTIVE Maintenance**  
for breakdown prevention

**SMART Remote control** for  
max safety in MRL systems

**POWERFUL Continuous data**  
monitoring for system alerts

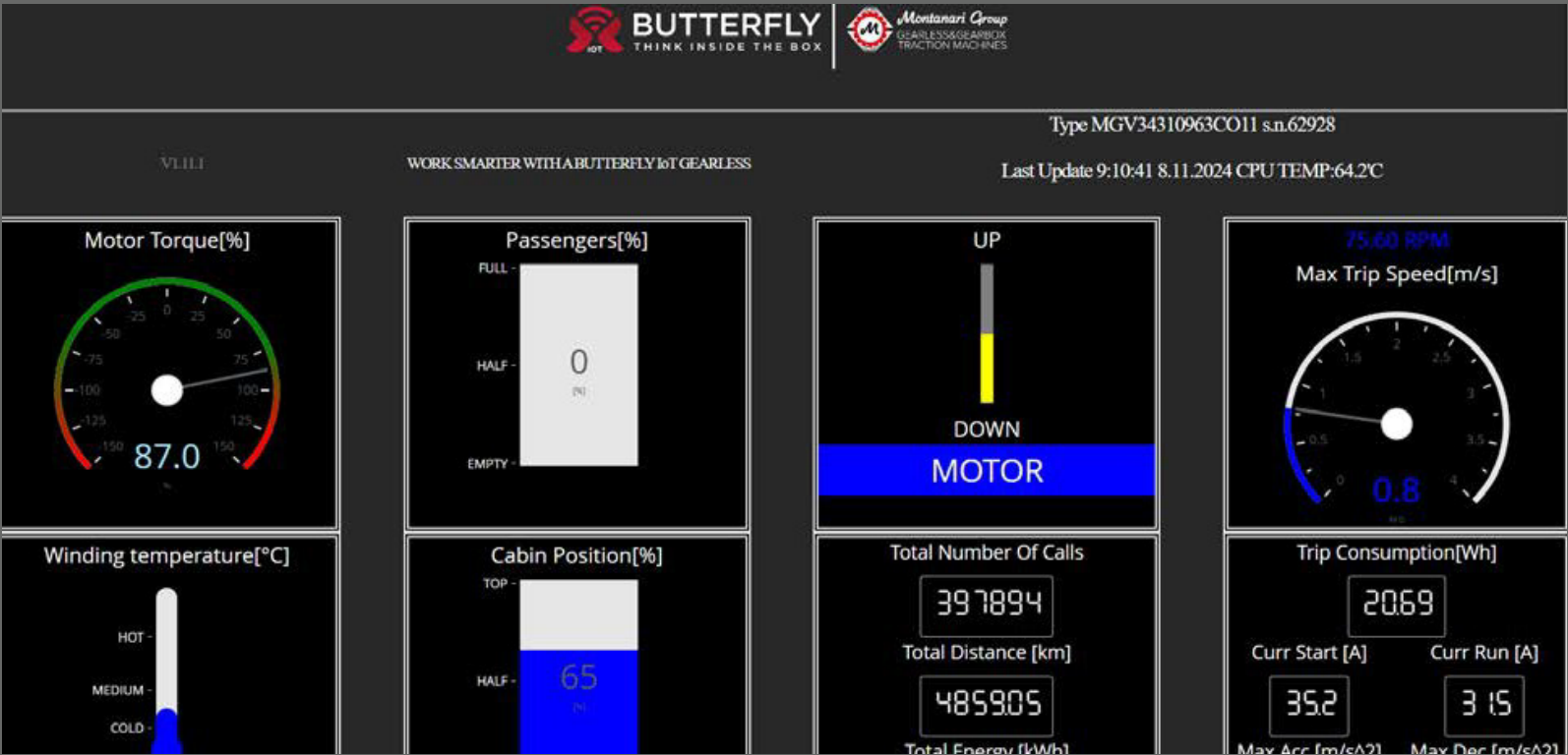
**CONVENIENT Flat purchase rate**  
+ Data Analysis & Support Fee

Compact device installed on  
MONTANARI traction machines





# IOT BUTTERFLY - DATA MONITORING



LIVE MONITOR ON SINGLE RIDE AND HISTORICAL REPORT (FROM IOT INSTALLATION DATE)

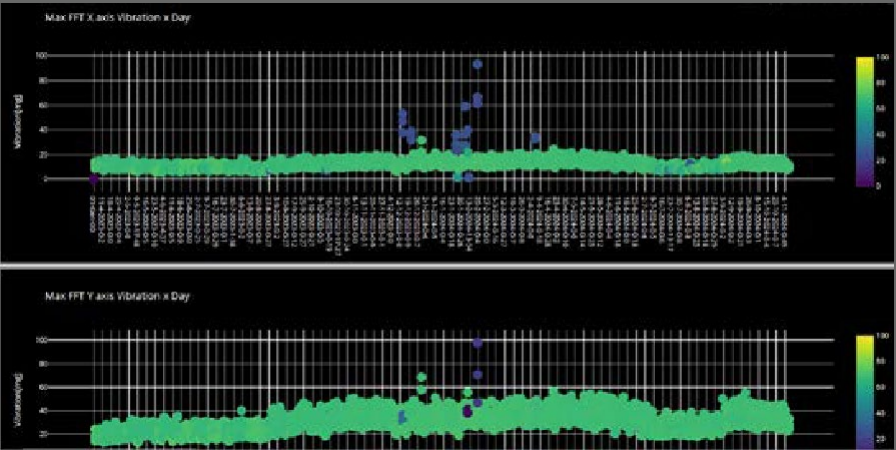
PREDICTIVE ANALYSIS FOR BREAKOUT PREVENTION AND EFFICIENT MAINTENANCE PLANNING

SMART ALERTS THROUGH EMAIL IN CASE OF ANOMALIES OR INTERVENTION NEED



## DETAILED REPORTS ON LIFT SYSTEM'S PERFORMANCE

- MOTOR PERFORMANCE
- CABIN POSITION
- LIFT USAGE
- TEMPERATURES
- CONSUMPTIONS



# PREDICTIVE ANALYSIS TOOL





# THANK YOU

