



Montanari Lifts Components

*Since 2008 Made in India
traction machines by*

Montanari Group



Montanari Lifts Components

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Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

MONTANARI GROUP INDIA SITE

Each Montanari product, designed for lifts and escalators, is the essence of years of **Experience and continuous improvement** in order to ensure you best **quality. safety. reliability and durability.** We will lead you towards the best solutions. for both **new installations and modernization projects.** through dedicate technical consultancy and top class products.

We firmly believe that Innovation and investment in research and development are the driving forces for growth and value proposal.

Not just a provider, yet a real Partner. we are at your side from the early stages till the project completion.

MONTANARI GROUP operates in India through MONTANARI LIFTS COMPONENTS Pvt. Ltd. Our indian Headquarters was established in 2007 in Chakan. Pune. Since then we specialized in the manufacturing and distribution of traction machines and components for the Indian elevator & escalator market.





Montanari Lifts Components

A BRAND. **INFINITE ELEVATION SOLUTIONS.**

MONTANARI LIFTS COMPONENTS represents today a industry Leader, driven by a Ethic Business Model focused on **Quality, Trust and Respect for People and Enviroment**. Our Values are confirmed by essential Certifications:

- **ISO 9001** for its Quality Management System since 2013
- **ISO 14001** for its Environmental Management System since 2022

The Company makes continuous investment to offer Made in India products meeting the highest standards of Montanari Brand, offering a unique customer experience and contributing to the local Community's growth.

WHAT WE OFFER

- pre and after Sales Support
- technical Training courses all around India, through Montanari Academy project.
- Technical Support to industry professionals





Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

**SINCE
1970**

THE ART

**GROUP HQ
IN MODENA
ITALY**

**43,000 SQ FT
PRODUCTION
FACILITY**

**UNIQUE 50M
TEST TOWER**



OF MANUFACTURING



TRACTION MACHINES

**GUARANTEE TO ALL CUSTOMERS
ALL OVER THE WORLD THE SAME
DISTINCTIVE QUALITY OF
MONTANARI BRAND**



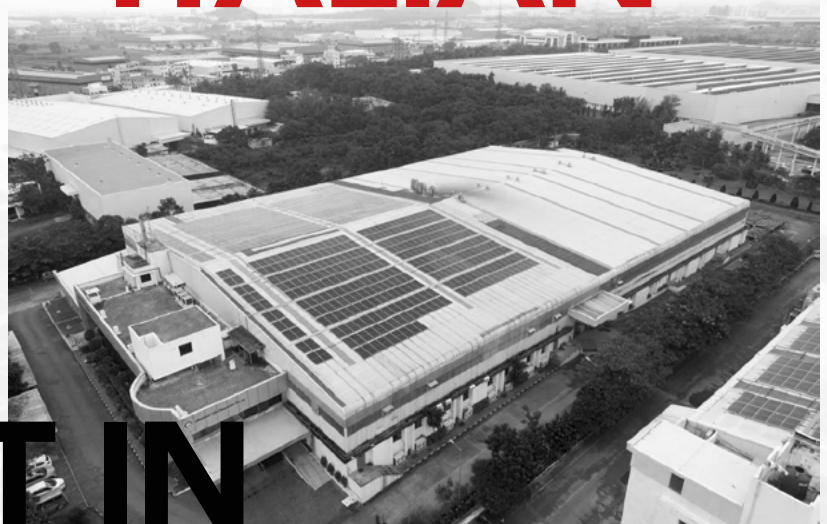
Montanari Lifts Components

SINCE 2008



**THE
ITALIAN**

**BEST MADE IN INDIA
TRACTION MACHINES
& COMPONENTS
FOR ELEVATORS'
MODERNIZATIONS &
NEW INSTALLATIONS**



HEART IN



**OVER 200,000 SQ FT
PRODUCTION FACILITY
IN PUNE (2025 EXPANSION
WITH TWO NEW SITES)**

**OVER 40,000 UNITS
PRODUCED YEARLY**

INDIAN LIFTS

**STATE-OF-THE-ART INDIAN
MANUFACTURING. COMMITMENT
TO INNOVATION & QUALITY
#1 IN INDIAN MARKET**

MONTANARI MAKES THE DIFFERENCE!

Each Montanari product is designed to serve the people who rely on it - every day, with **safety, comfort and reliability**. Our machines and components are engineered to be user-friendly, easy to install, and simple to maintain, ensuring a seamless experience for installers, technicians, end users alike.

With Montanari, **you gain far more than a product**: you gain a valuable Partnership built on trust, skill, and long-term support.

- Professional consultation during **project design and planning**
- Expert technical **assistance before and after sales**
- Specialized **training** for your staff and technicians
- **A dedicated logistics network** ensuring fast delivery & availability
- **Reliable components** designed for durability and performance
- A **customer-first approach** backed by decades of expertise

For over 55 years, Montanari has been a leading Name in the global lift industry, designing and producing best in class traction machines and elevator components.



A BRAND YOU CAN TRUST.

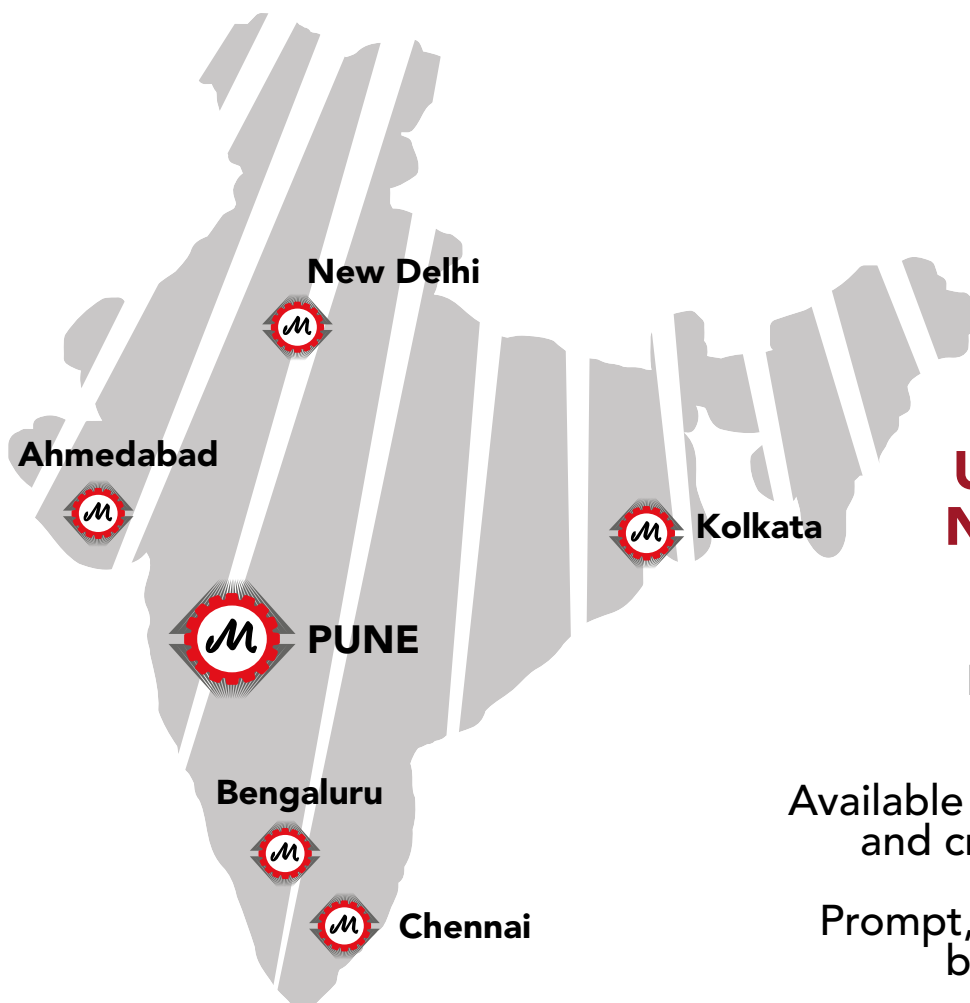


Montanari Lifts Components

DISTRIBUTION NETWORK

As a **leading global Brand** in the design, manufacturing and distribution of traction machines and components for elevators and escalators, **Montanari stands for reliability and performance**. With a production capacity of over **40,000 machines annually** dedicated to the Indian market, Montanari Lifts Components continue to support the growing local vertical mobility needs with **world-class quality and engineering**.

To ensure **best and timely support** to our customers, we have established a **strong logistics and technical support network across major indian cities** including Kolkata, Chennai, Ahmedabad, Delhi, and Bengaluru.



**UNBEATABLE
NATIONWIDE
SERVICE**

Immediate sales &
service support

Available stock of machines
and critical components

Prompt, expert assistance
by our experienced
technical team



Montanari Lifts Components

CORPORATE SOCIAL RESPONSIBILITY

In today's evolving business landscape, success is no longer measured only by financial growth, but also by the **positive impact a Company creates for Society** - the ethical practices, sustainable development, and meaningful contributions locally done. By actively participating in social and environmental initiatives, enterprises demonstrate **responsibility beyond profits**, building Trust, credibility, and long-term Relationships with Stakeholders and Communities.

OUR COMMITMENT



Since foundation, we embraced a ethic business model, committed to **sustainable manufacturing**, environmental protection through **resource saving and footprint minimization**, in full compliance to work safety regulations.

ACT

SAVE

Since decades we have been implementing annual **CSR Programmes**, conceived to support **Education, Environment, and Social** projects, in collaboration with local institutions and no-profit organizations.

Concrete actions to thank and support the Pune Community, that has been contributing to our journey and relentless Growth.



CARE



Montanari Lifts Components

FOR BRIGHTER AND GREENER FUTURE

PEOPLE

Promoting **education, healthcare, social inclusivity and skill development** is essential to create new opportunities for underprivileged groups and differently abled people.

Besides other ongoing social initiatives, in 2025 we were particularly proud to start supporting the **Jagriti School for Blind Girls in Pune**, training and housing over 170 visually impaired kids from rural and disadvantaged backgrounds.



CERTIFICATION ISO14001



In 2022 Montanari was one of the first industry players to obtain the **ISO14001 Certification**, a tangible recognition of our commitment towards **sustainable business management and environmental protection**. This voluntary Certification proves that our design, manufacturing, and distribution activities are made paying **the utmost attention to resource saving, energy efficiency, footprint reduction and pollution prevention**.



ENVIRONMENT

Montanari Team joyfully participated in multiple **tree plantation drives in Pune**, in collaboration with local environmental ONG, to improve biodiversity, air quality and green cover. *Just in 2025 we planted more than 350 plants!*

CHOOSING A MONTANARI
TRACTION MACHINE IS
**TECHNICALLY, SOCIALLY
& ENVIRONMENTALLY**
... A VERY WISE DECISION!



Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

GEARBOXES



MONTANARI LIFTS COMPONENTS

Manufacturing plant.

Pune - Maharashtra: view of gearbox manufacturing area.



**DURABLE
AND RELIABLE
TRACTION MACHINES.**

**FOR YOUR MOST
CHALLENGING
LIFT PROJECTS.**

1:1		LOAD									
		kg									
		408	544	680	884	1500	2000	2500	3500	4500	5500
Static load	kg	2000	M67								
		2300	M77								
		2700	M77H								
		3200	M87								
		5000	M93								
		7000	MADE IN ITALY - M98								
		9800	MADE IN ITALY - M105 - M105B								
		15000	MADE IN ITALY - M109								

#16



M67

#18



M77-M77H

#20



M87

#22



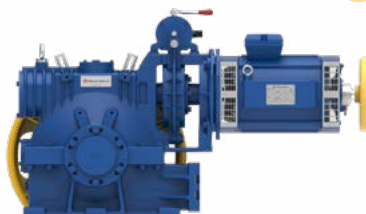
M93

#24



M98

#26



M105 - M105B

#32



M109

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Latest updated material are available on our official channels or upon request.
All images shown are for representation purposes only.

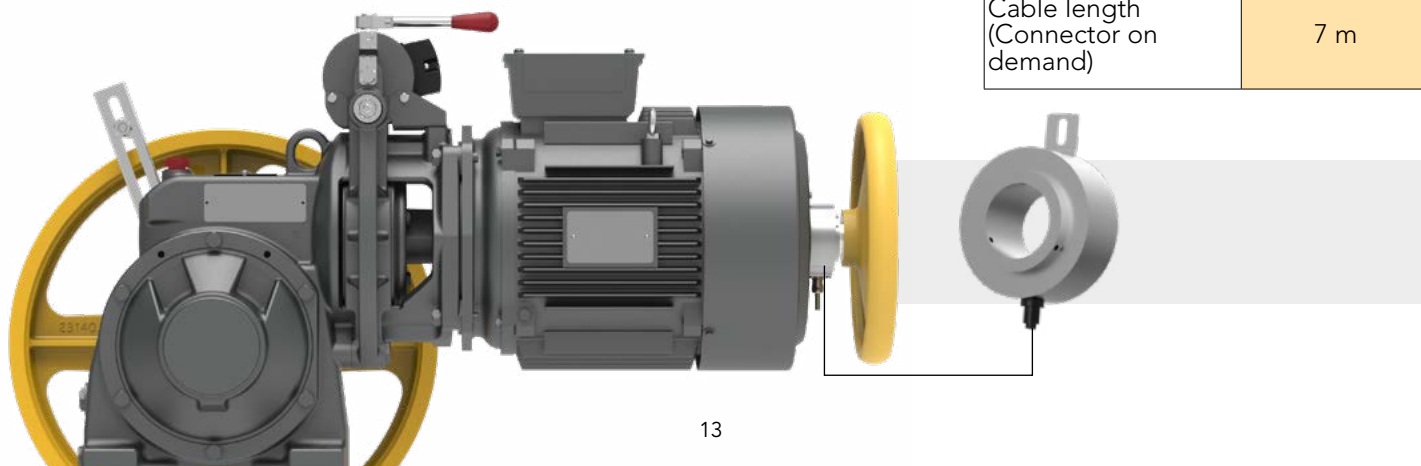
MODULARITY

All Montanari gearboxes can be disassembled into three parts to allow transport and assembly work in machine room.



ENCODER: TECHNICAL FEATURES

Exit circuit	PushPull Line Driver
Output signal	A B Z A B Z
Voltage	5 - 30VDC
Standard Resolution	1024ppr
Protection degree	IP54
Operating temperature	-4 / +100°C
Cable length (Connector on demand)	7 m

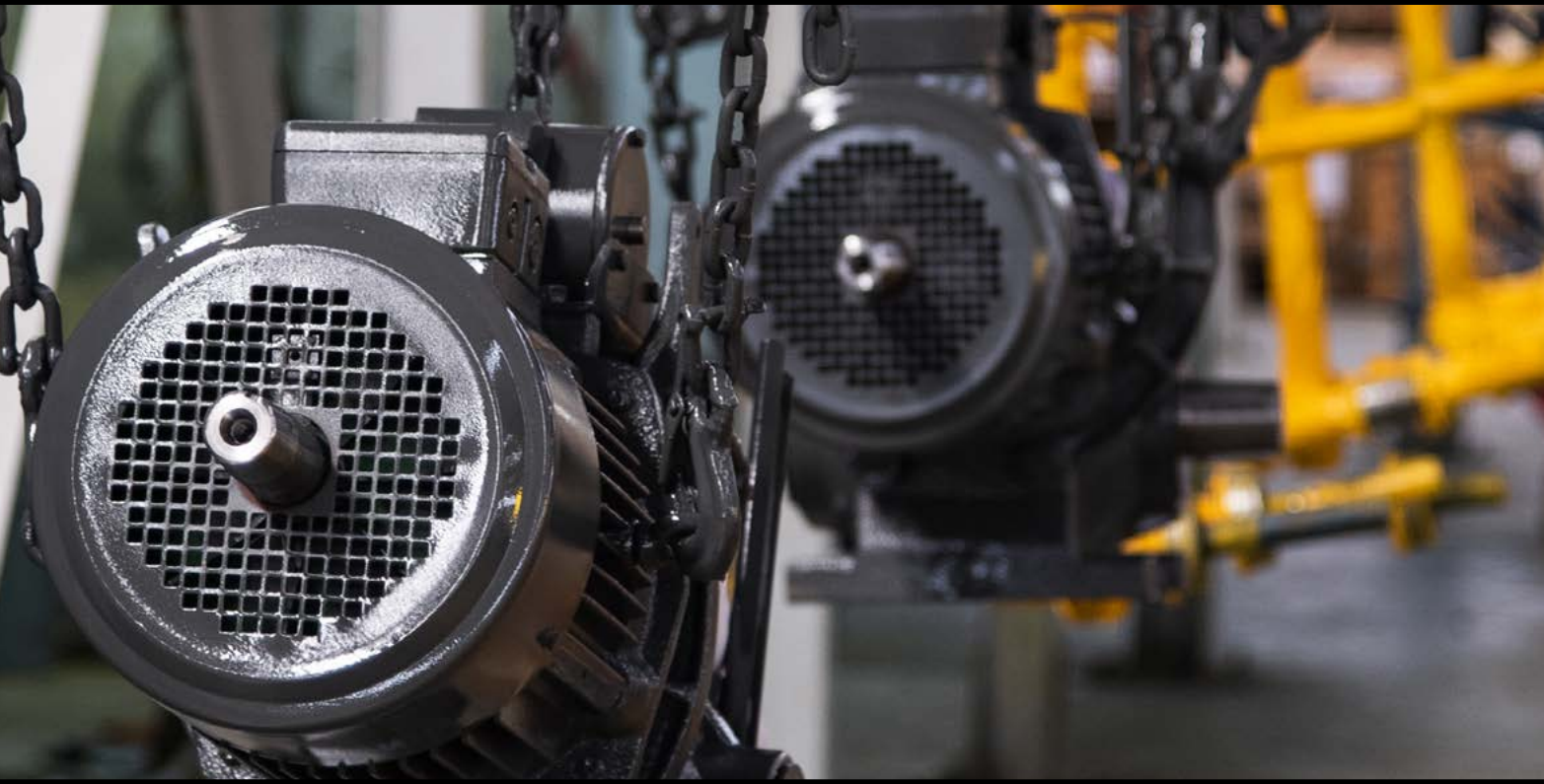




Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

GEARBOX TECHNICAL FEATURES



Montanari gears are designed for use in lifts and freight lifts in compliance with the directives and the regulations in force.

All gears have:

- a worm of hardened ground steel;
- centrifugally cast antifriction bronze crown;
- slow shaft of hardened and tempered alloy steel;
- brake equipped with independent arms and a twin magnetic circuit, available in various voltages between 24 and 220 V d.c.;
- high-resistance cast iron pulley;
- electric motors of own production.

Mineral oils with the following characteristics: Viscosity ISO VG 220 - following Index 95 - Additive EP.

Synthetic oils with the following characteristics: Viscosity ISO VG 220 - Viscosity Index 151 - Ascertained compatibility with traces of mineral oil.

OPERATING DATA

The Montanari gears are designed for use in standard and freight lifts:

- running time between the first and the last stop of 35 - 40 s max;
- cyclic duration factor of 50%;
- startings/hour varying from 90 to 240.

The allowable static load on the shaft is generally valid for all directions. Always read the indications given in the operation and maintenance manual.

PARAMETERS FOR LOAD TABLES ELABORATION:

for each type of gear are indicated the load values including the rope weight (x2), according to rated speed and power for installations balanced at 50%;

- unbalanced ropes weight;
- we report the synchronous speed detected as follows: car descending, 1/2 charge at the middle of the ride (IS14665 - 4; EN81-1:1998 /12.6 - EN81-20:2014/5.9.2.4.).

SUPPOSED SHAFT EFFICIENCY: $i = 0,8$

SUPPOSED DAILY WORKING CYCLE: 8 HOURS

With the following load examples the life expectancy ratio of each type of machine, with maximum acceptable power applied, is 30.000 hours.

A) WITH REFERENCE TO THE LOADS we have considered:

- running with 100% load for 50% of time;
- running with 10% load for 30% of time;
- running with 50% load for 20% of time.

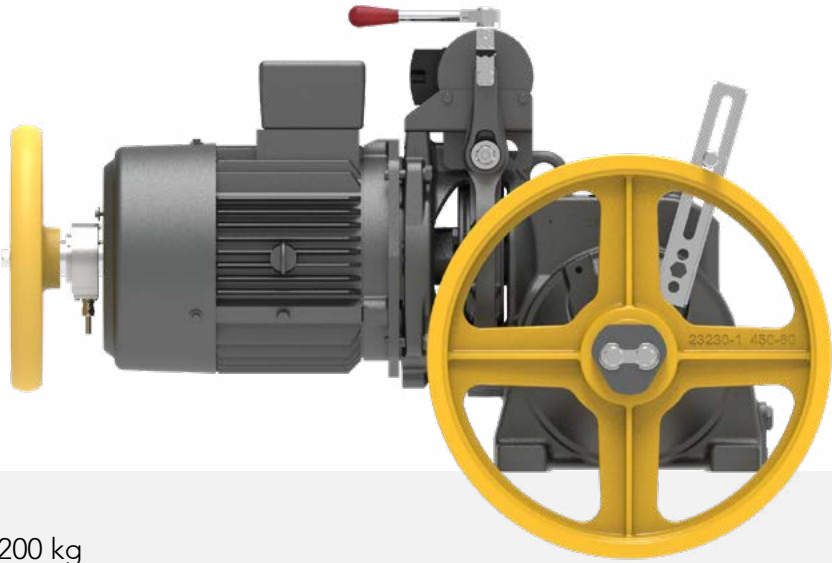
B) WITH REFERENCE TO THE STARTS PER HOUR USED AGAINST TIME PERIOD:

- 240 sts/h for 3 hours/day;
- 180 sts/h for 5 hours/day.

For installations where divertor pulleys are provided, the load value must be multiplied by a suitable reduction factor according to the following table. For longer runs or higher cyclic duration factors, contact the sales office of Montanari.

TAB. 1							
DIVERTOR UNITS QUANTITY	1	2	3	4	5	6	7
REDUCTION FACTOR							
BALL BEARINGS	0,99	0,98	0,97	0,96	0,95	0,94	0,93

TOP
SELLER
408 kg
1 m/s
T.S. 520 mm



Static Load | **M67** - 2200 kg

Motor | VVVF 4 P

Gearbox Weight | M67 - 80 kg

Oil Capacity | 1,7 l

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OUR WEBSITE

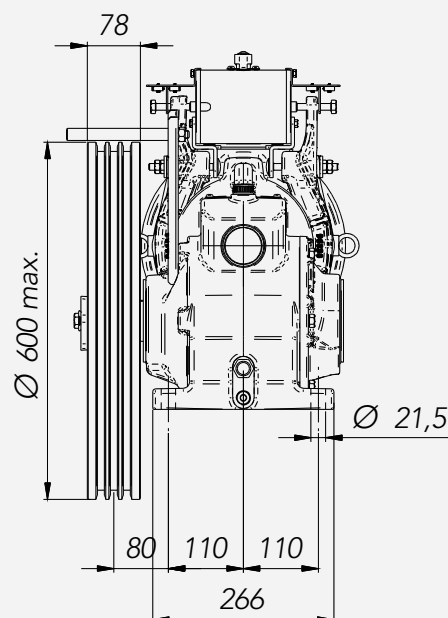
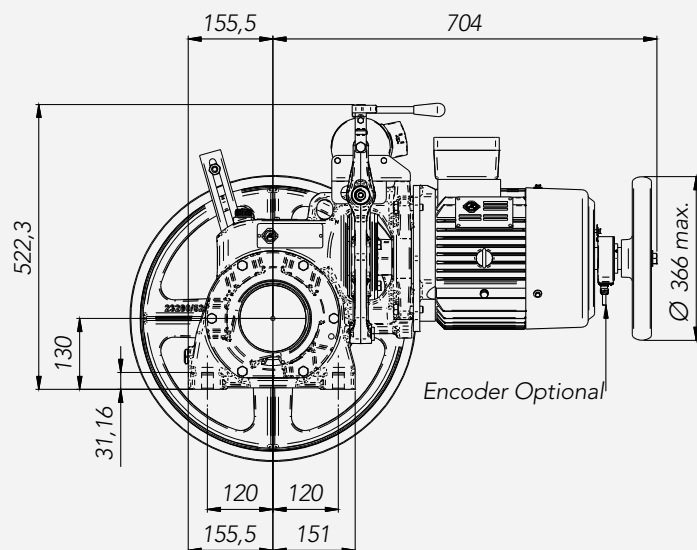


Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/46	838	0.72
1/37	750	0.74

4P - VVF 1500 RPM

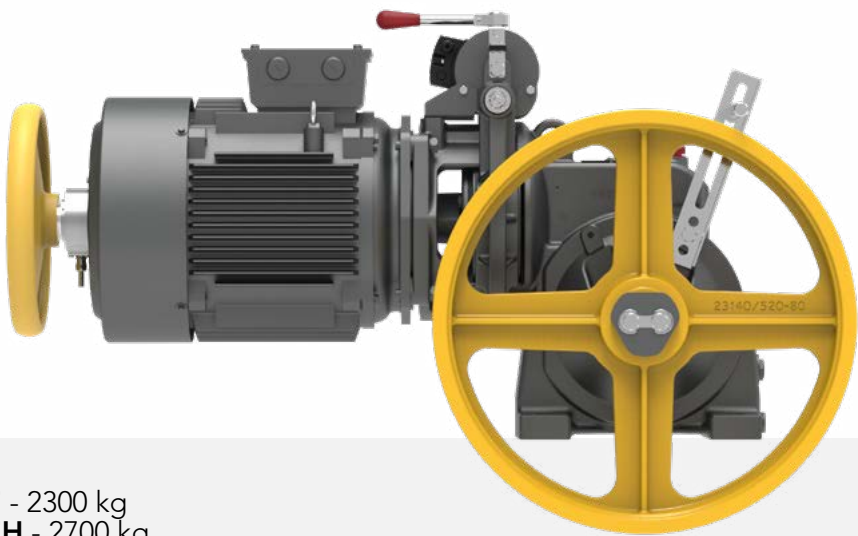


 ø mm	 	 kW Async.	
		4	
		m/s	kg
520	1/46	0,89	557
550	1/46	0,94	527
450	1/37	0,96	532
600	1/46	1,02	483
520	1/37	1,10	460
550	1/37	1,17	435





TOP
SELLER
544 kg
1 m/s
T.S. 520 mm

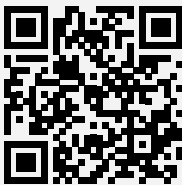


Static Load | **M77** - 2300 kg
M77H - 2700 kg

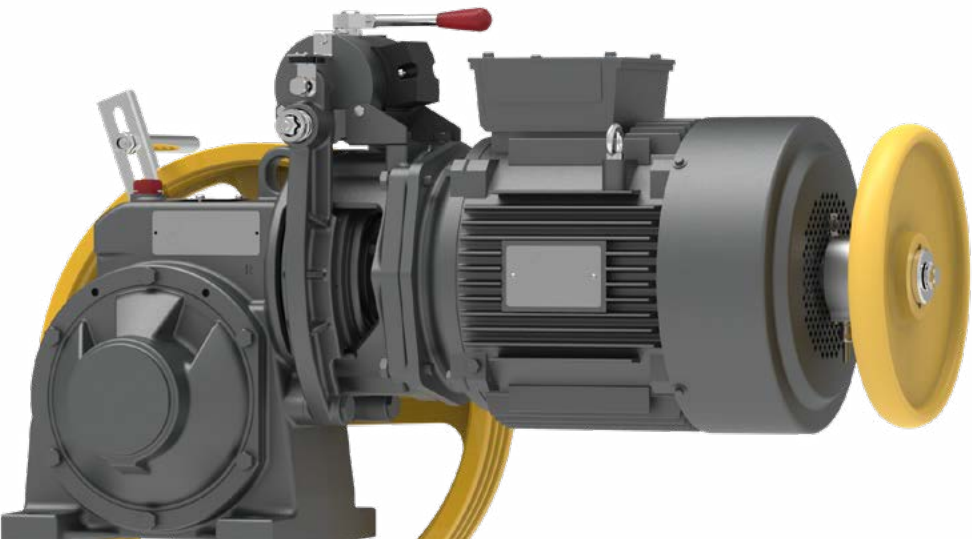
Motor | VVVF 4 P

Gearbox Weight | M77/M77H - 100kg

Oil Capacity | 3 l

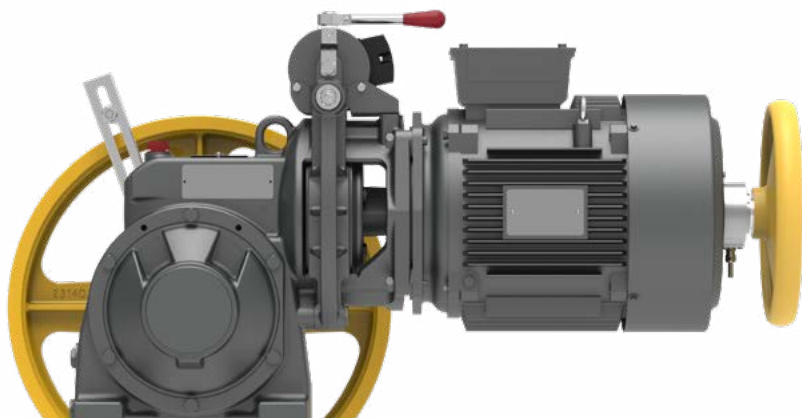


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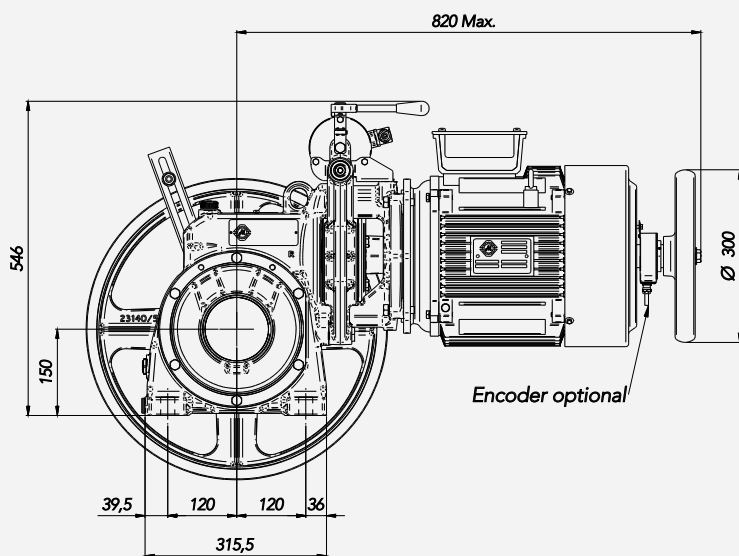


Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/55	750	0.58
1/37	995	0.84
2/55	764	0.78

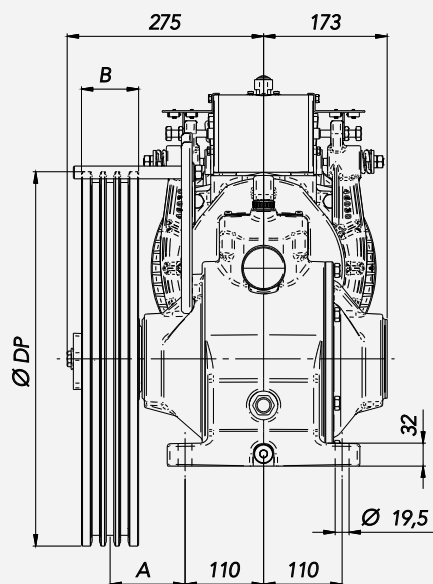
4P - VVVF 1500 RPM



 ø mm	 	 m/s	kW Async.		
			4	5,5	7,5
			kg		
520	1/55	0,74	635		
550	1/55	0,79	600		
400	1/37	0,85	672	811	963
600	1/55	0,86	550		
450	1/37	0,96	598	721	856
520	1/37	1,10	517	624	741
400	2/55	1,14	464	623	693
550	1/37	1,17	489	590	700
600	1/37	1,27	448	541	642
450	2/55	1,29	412	554	616
520	2/55	1,49	357	479	533
550	2/55	1,57	337	453	504
600	2/55	1,71	309	415	462

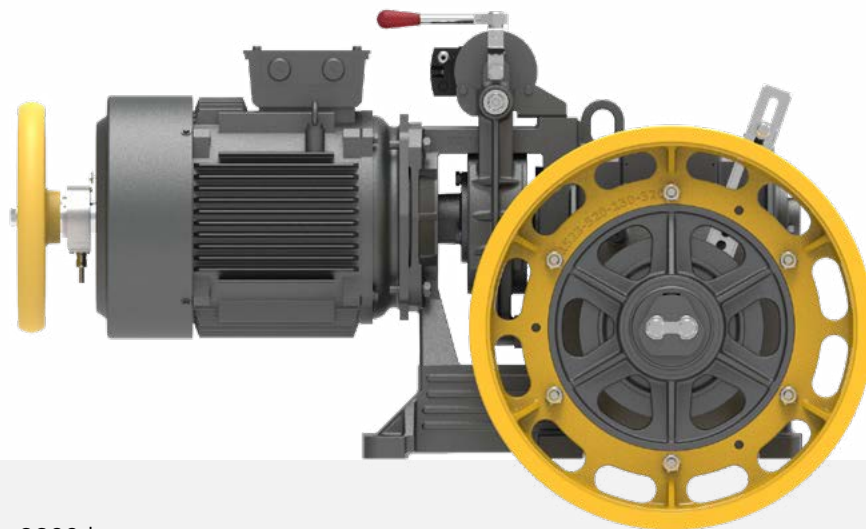


DP	B	A
mm	mm	mm
≤600	115	105



TOP
SELLER

816 kg
1 m/s
T.S. 520 mm



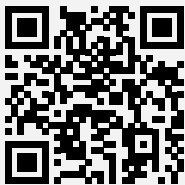
Static Load | **M87** - 3200 kg

Motor | VVVF 4 P

Gearbox Weight | M87 - 169 kg

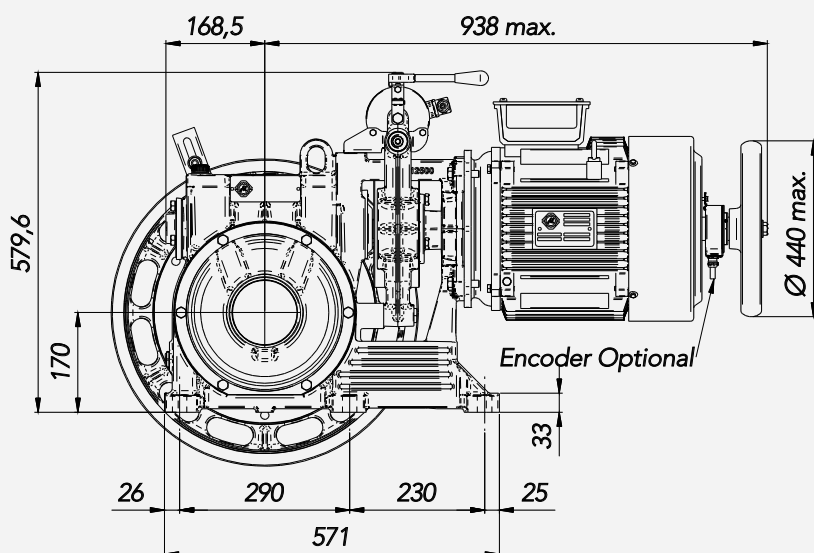
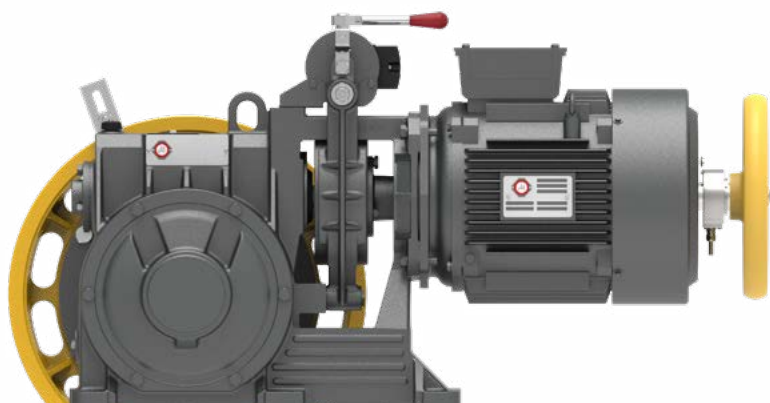
Oil Capacity | 5 l

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OUR WEBSITE

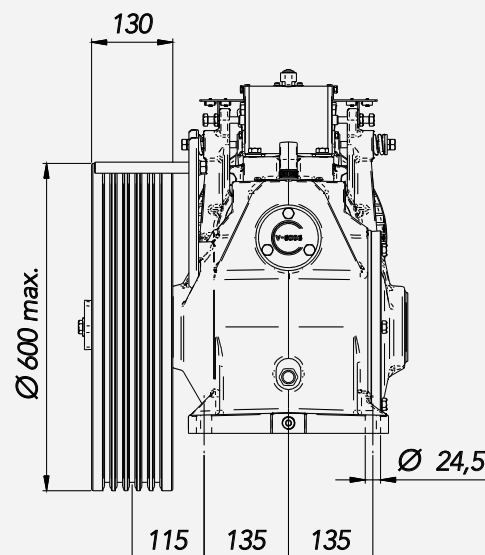


Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/37	1465	0.72
2/41	1060	0.82
2/50	1350	0.84

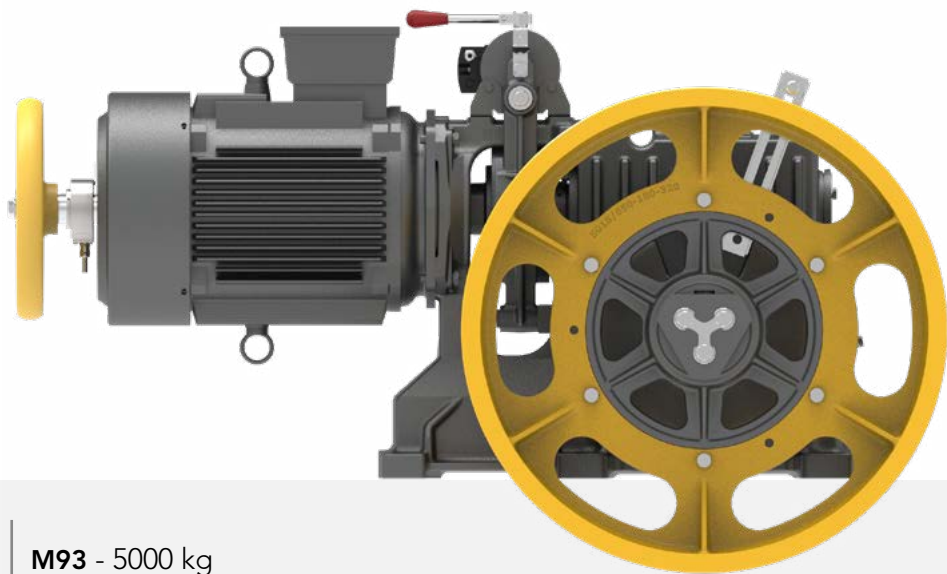
4P - VVVF 1500 RPM



		kW Async.		
		7,5	9	11
ø mm		m/s	kg	
480	1/37	1,02	900	996
520	1/37	1,10	831	919
550	1/37	1,17	786	869
600	1/37	1,27	720	796
480	2/50	1,51	710	852
520	2/50	1,63	655	786
550	2/50	1,73	619	743
480	2/42	1,80	582	698
600	2/50	1,88	568	681
520	2/41	1,94	537	645
550	2/41	2,06	508	610
600	2/41	2,24	466	559

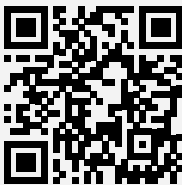


TOP
SELLER
2.000 kg 2:1
0,5 m/s
T.S. 520 mm



Static Load	M93 - 5000 kg
Motor	VVVF 4 P
Gearbox Weight	M93 - 250kg
Oil Capacity	7 l

MORE ON
OUR WEBSITE

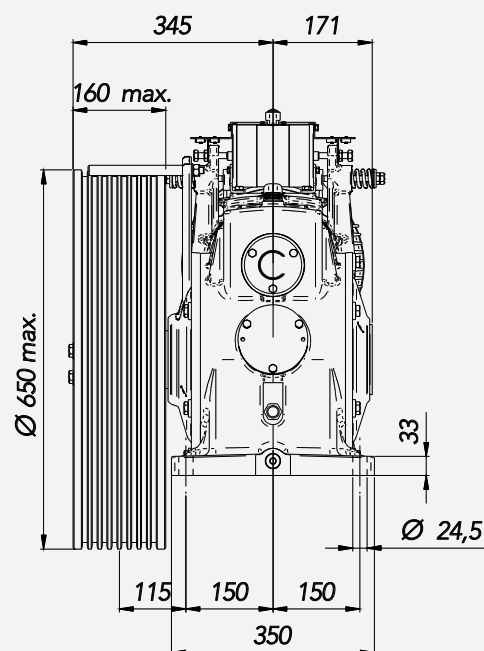
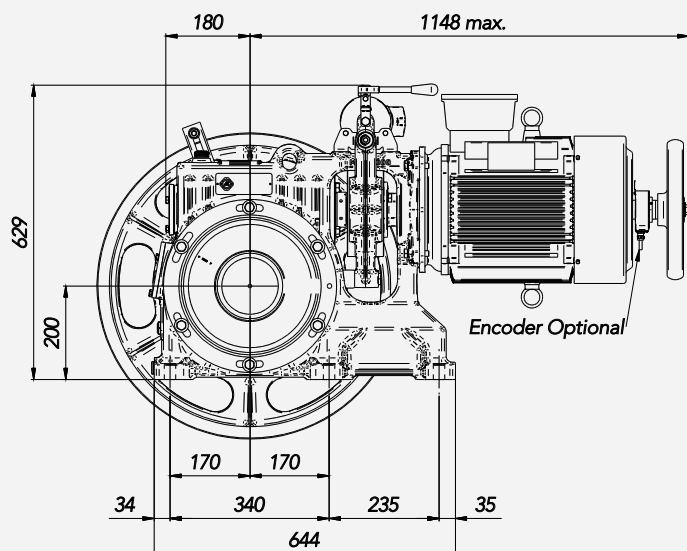


Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/39	2475	0.77
2/49	1905	0.82

4P - VVVF 1500 RPM

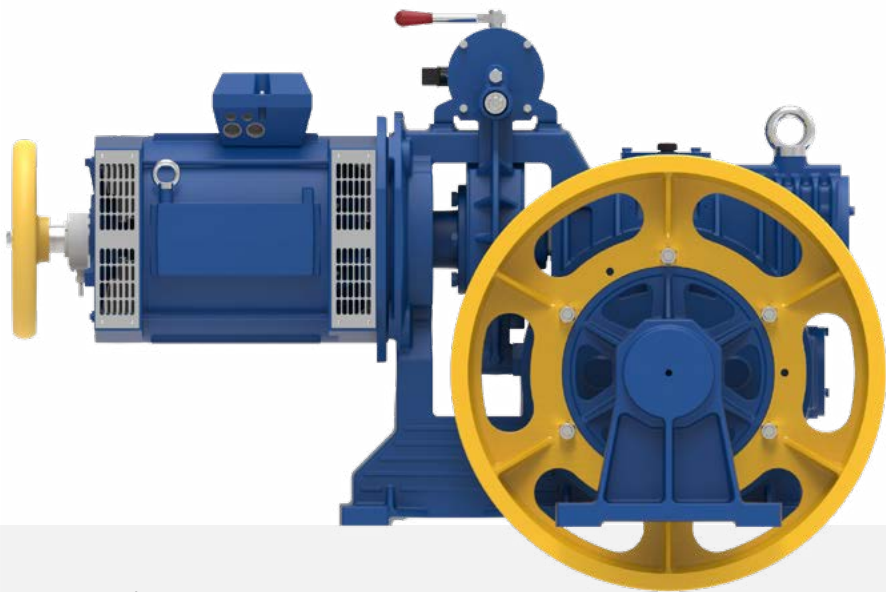


			kW Async.			
			9	11	13	15
ø mm		m/s	kg			
520	1/39	1,05	1124	1374	1553	
550	1/39	1,11	1063	1299	1468	
600	1/39	1,21	974	1191	1346	
650	1/39	1,31	899	1099	1242	
520	2/49	1,67	752	919	1086	1140
550	2/49	1,76	711	869	1027	1078
600	2/49	1,92	652	797	942	988
650	2/49	2,08	602	735	869	912





TOP
SELLER
3.000 kg 2:1
0,5 m/s
T.S. 520 mm



Static Load | **M98** - 7000 kg

Motor | VVVF 4 P

Gearbox Weight | M98 - 480kg

Oil Capacity | 9 l

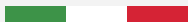


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Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/37	3501	0.76
2/49	3146	0.83

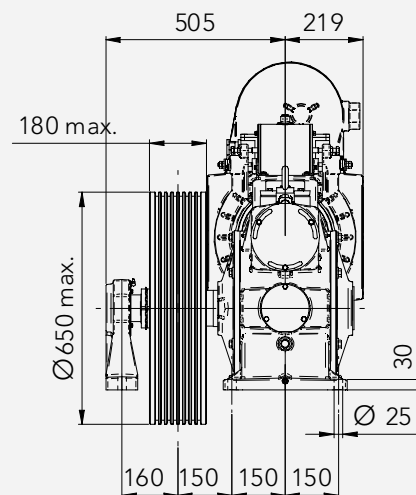
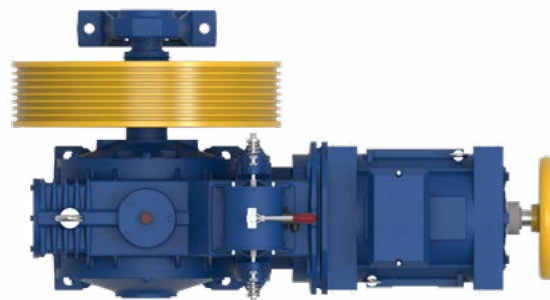
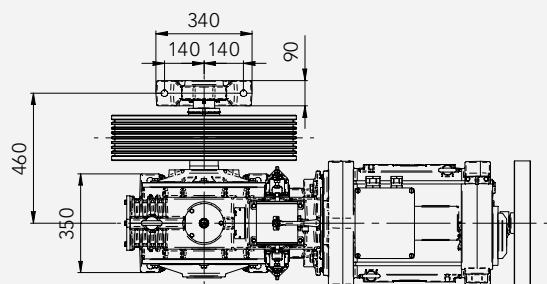
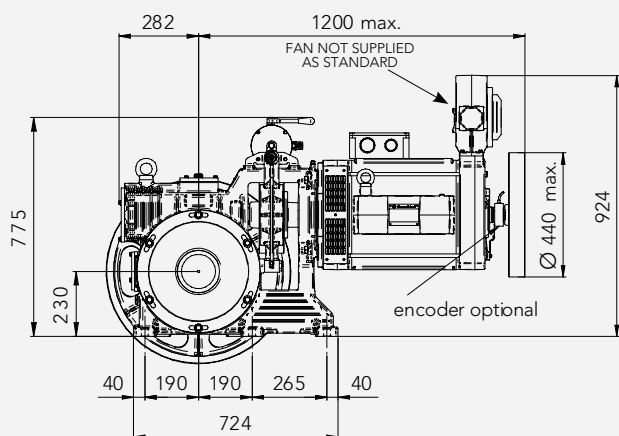
IMPORTED FROM ITALY



4P - VVVF 1500 RPM



		kW Async.			
		15	18,5	22	26
ø mm		kg			
520	1/37	1,10	1755	2164	2196
550	1/37	1,17	1659	2046	2076
600	1/37	1,27	1521	1875	1903
650	1/37	1,38	1404	1731	1757
520	2/49	1,67	1269	1565	1861
550	2/49	1,76	1200	1480	1759
600	2/49	1,92	1100	1356	1613
650	2/49	2,08	1015	1252	1489



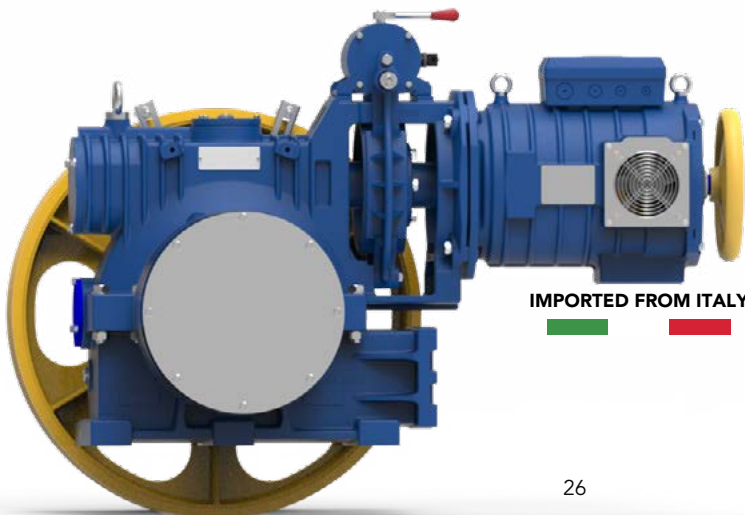
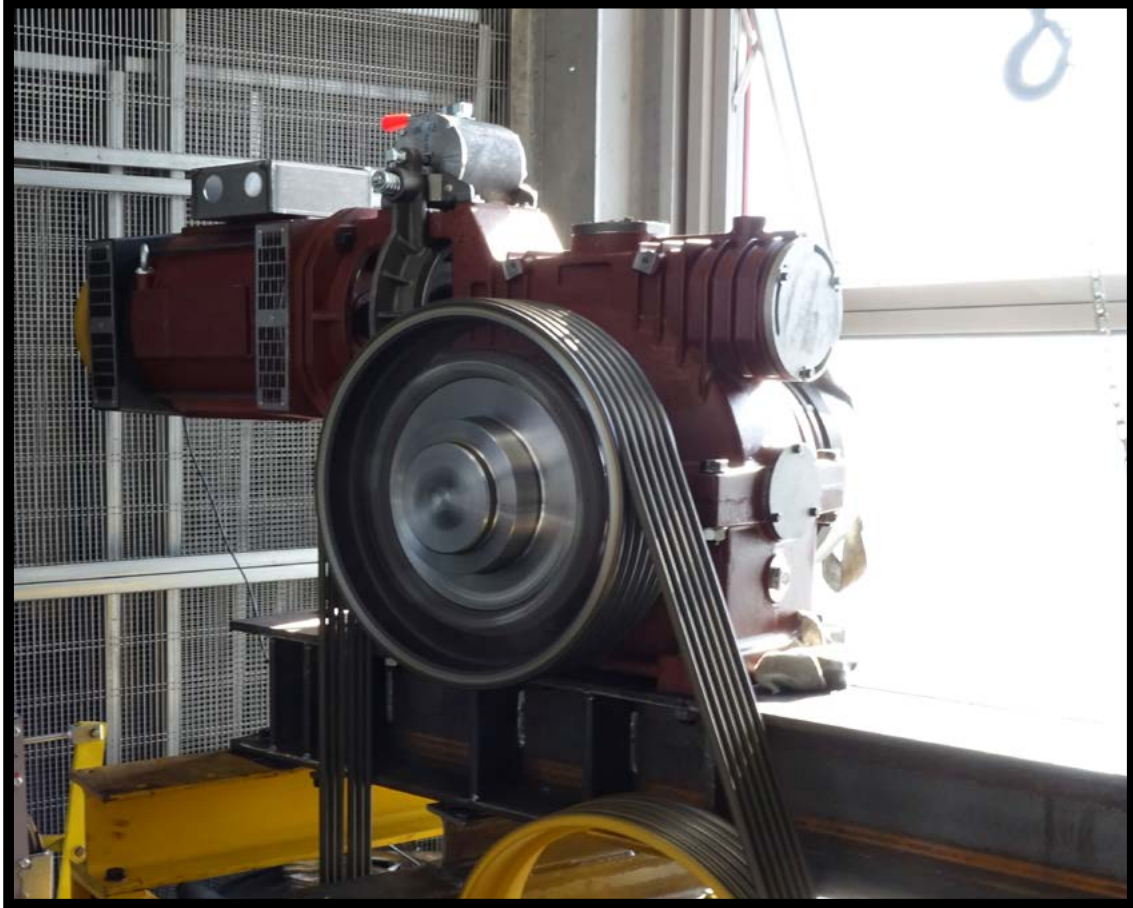


Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

9800 kg Static Load

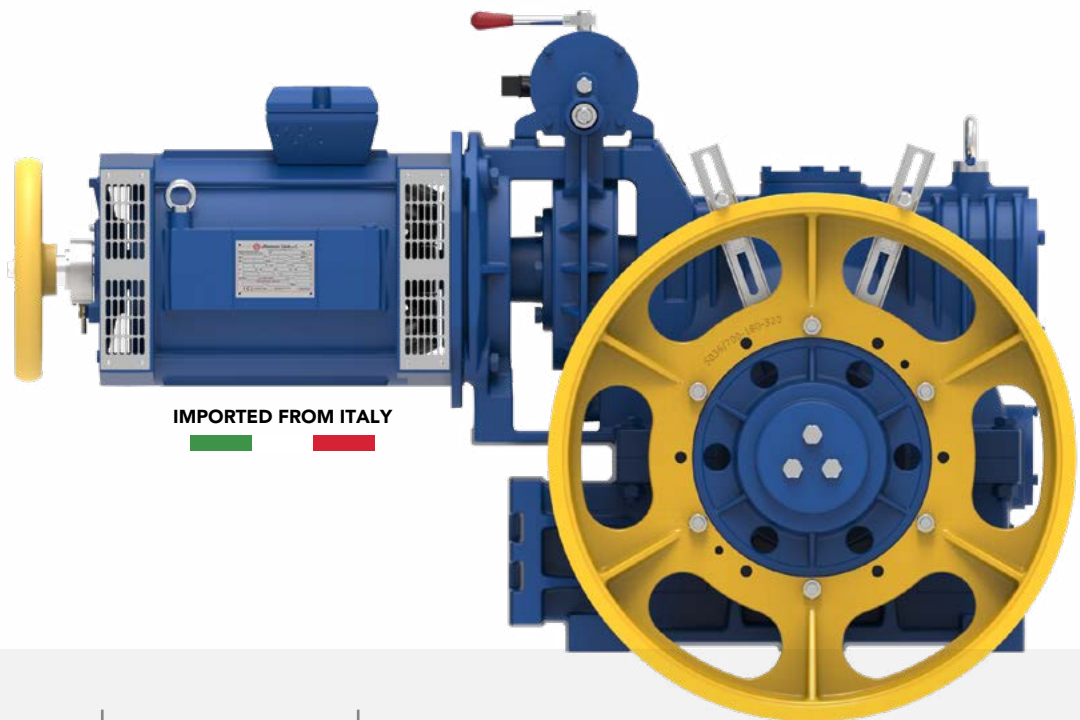
Only two supporting points, without outer bearing!



IMPORTED FROM ITALY



TOP
SELLER
1600/2000 kg
1 - 2,5 m/s
T.S. 600/650 mm



IMPORTED FROM ITALY

Static Load	M105 M105B M105 - B3motor	9800 kg
Motor	B9 - B3 VWF 4 - 6 P AC2 4/16 - 6/24 P	
Reductor Weight	M105 - 520 kg M105B - 670 kg M105 - B3motor - 605 kg M105B - B3motor - 755 kg	Oil Capacity 16.50 l

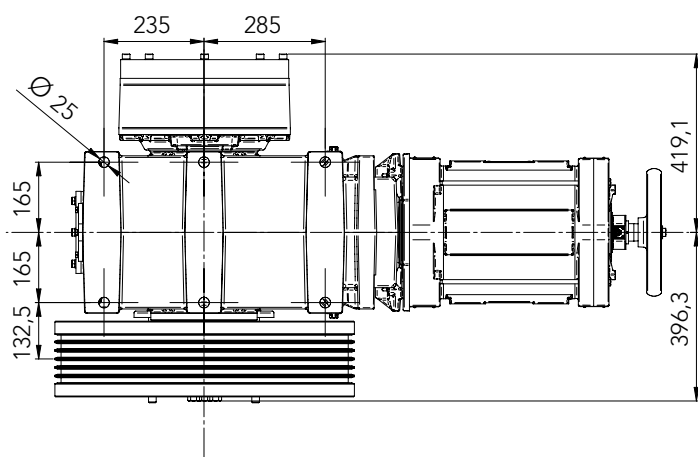
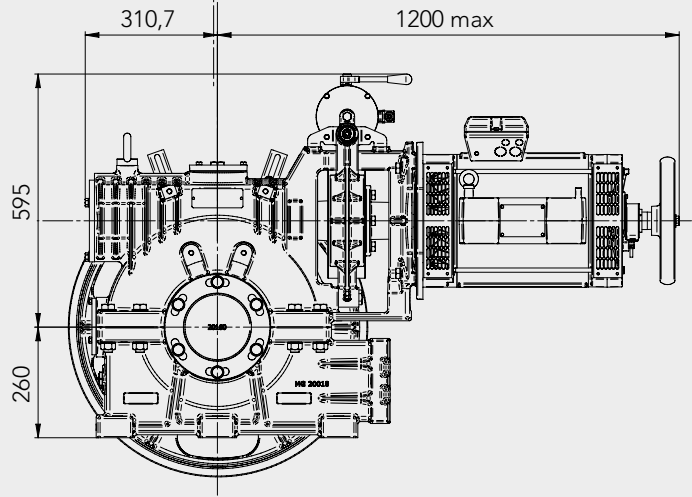
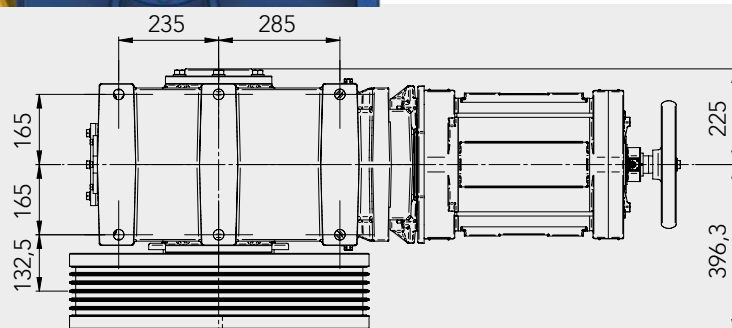
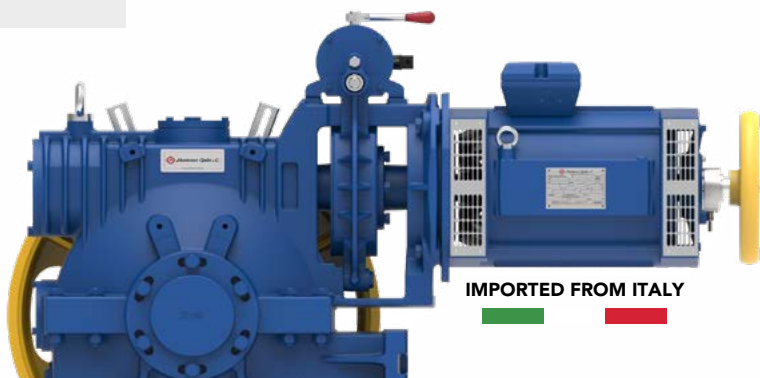
Ratio	Torque Moment	Efficiency	
		1500/1800 RPM	1000/1200 RPM
1/71	5250	0.71	0.68
1/65	5454	0.73	0.70
1/49	5550	0.77	0.74
2/63	4363	0.85	0.83
2/53	4446	0.85	0.83
4/67	3950	0.89	0.87

Bedplate & Safety guards #36-37

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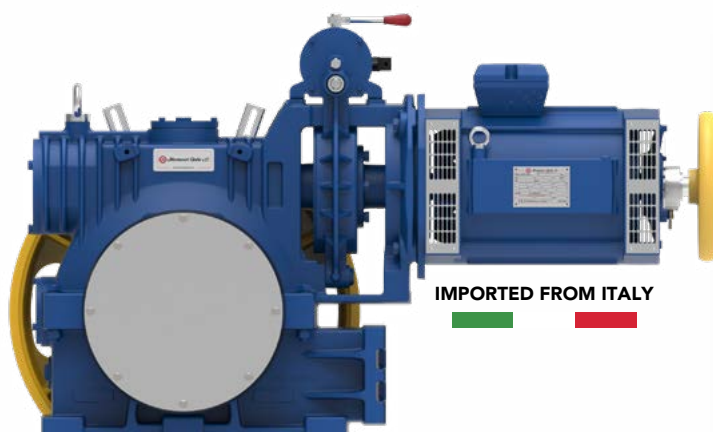
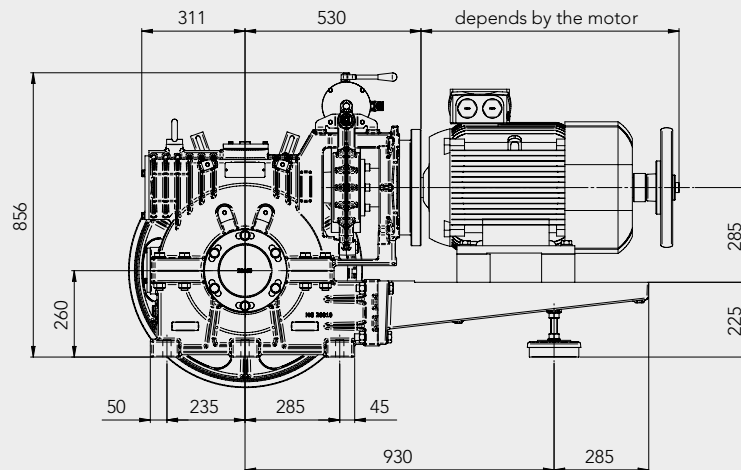
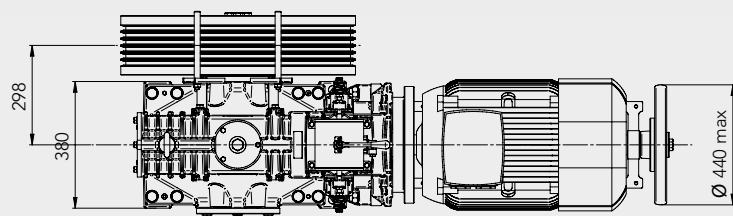
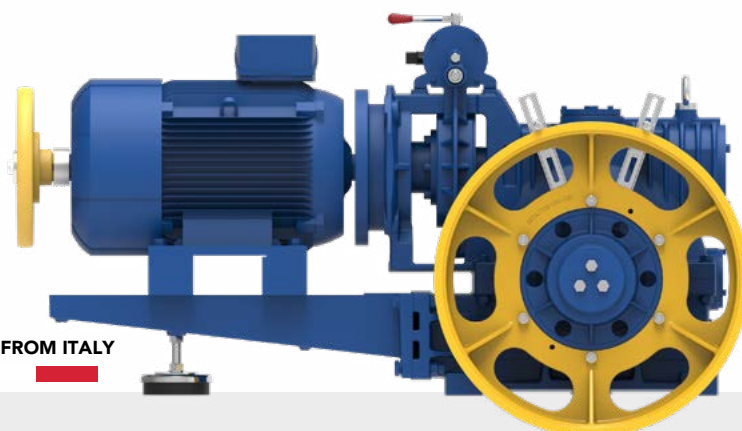


RANGE
M105

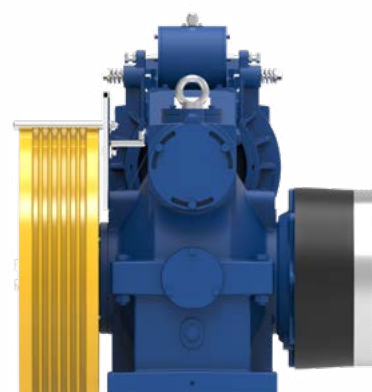
 M105
 M105B
M105**M105B**
Auxiliary brake on slow shaft
EN81 - 20: Compliant

M105B3

IMPORTED FROM ITALY



IMPORTED FROM ITALY



4P - VVVF 1500 RPM

6P - VVVF 1000 RPM

		kW Async.									
		11	13	15	18,5	22	26	30	37	45	
		m/s	kg								
450	1/71	0,50	2665	3150	3635	3806					
480	1/71	0,53	2499	2953	3407	3568					
450	1/65	0,54	2509	2965	3421	3953					
520	1/71	0,58	2307	2726	3145	3293					
480	1/65	0,58	2352	2780	3207	3706					
550	1/71	0,61	2181	2577	2974	3114					
520	1/65	0,63	2171	2566	2961	3421					
580	1/71	0,64	2068	2444	2820	2953					
600	1/71	0,66	1999	2363	2726	2854					
550	1/65	0,66	2053	2426	2799	3235					
580	1/65	0,70	1947	2300	2654	3067					
650	1/71	0,72	1845	2181	2516	2635					
600	1/65	0,72	1882	2224	2566	2965					
450	1/49	0,72	1969	2327	2685	3312	3745				
700	1/71	0,77	1713	2025	2337	2446					
480	1/49	0,77	1846	2182	2517	3105	3511				
650	1/65	0,79	1737	2053	2369	2737					
750	1/71	0,83	1599	1890	2181	2283					
520	1/49	0,83	1704	2014	2324	2866	3241				
700	1/65	0,85	1613	1906	2199	2542					
800	1/71	0,88	1499	1772	2044	2141					
550	1/49	0,88	1611	1904	2197	2709	3064				
750	1/65	0,91	1505	1779	2053	2372					
580	1/49	0,93	1528	1805	2083	2569	2905				
600	1/49	0,96	1477	1745	2014	2484	2809				
800	1/65	0,97	1411	1668	1924	2224					
650	1/49	1,04	1363	1611	1859	2293	2592				
700	1/49	1,12	1266	1496	1726	2129	2407				
450	2/63	1,12	1416	1673	1931	2381	2831	3163			
750	1/49	1,20	1181	1396	1611	1987	2247				
480	2/63	1,20	1327	1569	1810	2232	2654	2965			
800	1/49	1,28	1108	1309	1510	1863	2106				
520	2/63	1,30	1225	1448	1671	2060	2450	2737			
450	2/53	1,33	1065	1259	1452	1791	2130	2517	2904	3223	
550	2/63	1,37	1158	1369	1580	1948	2317	2588			
480	2/53	1,42	998	1180	1361	1679	1997	2360	2723	3021	
580	2/63	1,45	1098	1298	1498	1847	2197	2454			
600	2/63	1,50	1062	1255	1448	1786	2124	2372			
520	2/53	1,54	922	1089	1257	1550	1843	2178	2513	2789	
650	2/63	1,62	980	1158	1337	1648	1960	2190			
550	2/53	1,63	871	1030	1188	1465	1743	2059	2376	2637	
580	2/53	1,72	826	976	1127	1390	1652	1953	2253	2500	
700	2/63	1,75	910	1076	1241	1531	1820	2033			
600	2/53	1,78	799	944	1089	1343	1597	1888	2178	2417	
750	2/63	1,87	849	1004	1158	1429	1699	1898			
650	2/53	1,93	737	871	1005	1240	1474	1743	2011	2231	
800	2/63	1,99	796	941	1086	1339	1593	1779			
700	2/53	2,07	685	809	934	1151	1369	1618	1867	2072	
450	4/67	2,11	788	932	1075	1326	1576	1863	2150	2651	2915
750	2/53	2,22	639	755	871	1075	1278	1510	1743	1934	
480	4/67	2,25	739	873	1008	1243	1478	1747	2015	2486	2733
800	2/53	2,37	599	708	817	1007	1198	1416	1634	1813	
520	4/67	2,44	682	806	930	1147	1364	1612	1860	2294	2523
550	4/67	2,58	645	762	879	1085	1290	1524	1759	2169	2385
580	4/67	2,72	612	723	834	1029	1223	1446	1668	2057	2262
600	4/67	2,81	591	699	806	994	1182	1397	1612	1988	2187
650	4/67	3,05	546	645	744	918	1091	1290	1488	1836	2018
700	4/67	3,28	507	599	691	852	1013	1198	1382	1704	1874
750	4/67	3,52	473	559	645	795	946	1118	1290	1591	1749
800	4/67	3,75	443	524	605	746	887	1048	1209	1491	1640

		kW Async.									
		7,5	9	11	13	15	18,5	22	26	30	
		m/s	kg								
0,33	2611	3133	3806								
0,35	2448	2937	3568								
0,36	2460	2953	3609	3953							
0,38	2259	2711	3293								
0,39	2307	2768	3383	3706							
0,41	2136	2563	3114								
0,42	2129	2555	3123	3421							
0,43	2026	2431	2953								
0,44	1958	2350	2854								
0,44	2013	2416	2953	3235							
0,47	1909	2291	2800	3067							
0,48	1807	2169	2635								
0,48	1845	2214	2707	2965							
0,48	1961	2353	2876	3399	3736						
0,52	1678	2014	2446								
0,51	1838	2206	2696	3186	3502						
0,52	1703	2044	2498	2737							
0,55	1566	1880	2283								
0,56	1697	2036	2489	2941	3233						
0,56	1582	1898	2320	2542							
0,59	1469	1762	2141								
0,59	1604	1925	2353	2781	3056						
0,60	1476	1772	2165	2372							
0,62	1521	1826	2231	2637	2898						
0,64	1471	1765	2157	2549	2802						
0,64	1384	1661	2030	2224							
0,69	1357	1629	1991	2353	2586						
0,75	1261	1513	1849	2185	2401						
0,75	1414	1697	2074	2451	2828	3163					
0,80	1176	1412	1726	2039	2241						
0,80	1325	1591	1944	2297	2651	2965					
0,85	1103	1324	1618	1912	2101						
0,86	1224	1468	1794	2121	2447	2737					
0,89	1060	1273	1555	1838	2121	2616	3111	3223			
0,91	1157	1388	1697	2005	2314	2588					
0,95	994	1193	1458	1723	1988	2452	2916	3021			
0,96	1097	1316	1609	1901	2194	2454					
1,00	1060	1272	1555	1838	2121	2372					
1,03	918	1101	1346	1591	1835	2264	2692	2789			
1,08	979	1175	1436	1697	1958	2190					
1,09	868	1041	1273	1504	1735	2140	2545	2637			
1,15	823	987	1207	1426	1646	2029	2413	2500			
1,16	909	1091	1333	1575	1818	2033					
1,19	795	954	1166	1379	1591	1962	2333	2417			
1,25	848	1018	1244	1470	1697	1898					
1,28	734	881	1077	1273	1468	1811	2154	2231			
1,33	795	954	1166	1378	1591	1779					
1,38	682	818	1000	1182	1363	1682	2000	2072			
1,41	797	957	1169	1382	1594	1966	2338	2763	2915		
1,48	636	764	933	1103	1273	1569	1866	1934			
1,50	747	897	1096	1295	1495	1843	2192	2591	2733		
1,58	596	716	875	1034	1193	1471	1750	1813			
1,63	690	828	1012	1196	1380	1701	2023	2391	2523		
1,72	652	783	957	1130	1304	1609	1913	2261	2385		
1,81	618	742	907	1072	1237	1525	1814	2144	2262		
1,88	598	717	877	1036	1196	1475	1754	2072	2187		
2,03	552	662	809	957	1104	1361	1619	1913	2018		
2,19	512	615	752	888	1025	1264	1503	1776	1874		
2,34	478	574	701	829	957	1180	1403	1658	1749		
2,50	448	538	658	777	897	1106	1315	1554	1640		

4/16P - AC2 1500/375 RPM

6/24P - AC2 1000/250 RPM

 ø mm		kW Async.									
		13	15	18,5	22	26	30	37	45	55	
		m/s	kg								
450	1/71	0,50	2739	3161	3806						
480	1/71	0,53	2568	2963	3568						
450	1/65	0,54	2578	2975	3669	3953					
520	1/71	0,58	2370	2735	3293						
480	1/65	0,58	2417	2789	3440	3706					
550	1/71	0,61	2241	2586	3114						
520	1/65	0,63	2231	2575	3175	3421					
580	1/71	0,64	2125	2452	2953						
600	1/71	0,66	2054	2370	2854						
550	1/65	0,66	2110	2434	3002	3235					
580	1/65	0,70	2000	2308	2847	3067					
650	1/71	0,72	1896	2188	2635						
600	1/65	0,72	1934	2231	2752	2965					
450	1/49	0,72	2024	2335	2880	3424	3745				
700	1/71	0,77	1761	2032	2446						
480	1/49	0,77	1897	2189	2700	3210	3511				
650	1/65	0,79	1785	2060	2540	2737					
750	1/71	0,83	1643	1896	2283						
520	1/49	0,83	1751	2021	2492	2963	3241				
700	1/65	0,85	1657	1912	2359	2542					
800	1/71	0,88	1541	1778	2141						
550	1/49	0,88	1656	1910	2356	2802	3064				
750	1/65	0,91	1547	1785	2201	2372					
580	1/49	0,93	1570	1812	2234	2657	2905				
600	1/49	0,96	1518	1751	2160	2568	2809				
800	1/65	0,97	1450	1673	2064	2224					
650	1/49	1,04	1401	1616	1994	2371	2592				
700	1/49	1,12	1455	1679	2070	2462	2910	3163			
450	2/63	1,12	1301	1501	1851	2201	2407				
750	1/49	1,20	1364	1574	1941	2308	2728	2965			
480	2/63	1,20	1214	1401	1728	2055	2247				
800	1/49	1,28	1138	1313	1620	1926	2106				
520	2/63	1,30	1259	1453	1792	2131	2518	2737			
450	2/53	1,33	1094	1263	1557	1852	2189	2525	3115	3223	
550	2/63	1,37	1190	1374	1694	2014	2381	2588			
480	2/53	1,42	1026	1184	1460	1736	2052	2368	2920	3021	
580	2/63	1,45	1129	1302	1606	1910	2258	2454			
600	2/63	1,50	1091	1259	1553	1847	2182	2372			
620	2/53	1,54	947	1093	1348	1603	1894	2185	2695	2789	
550	2/63	1,62	1007	1162	1433	1705	2014	2190			
550	2/53	1,63	895	1033	1274	1515	1791	2066	2548	2637	
580	2/53	1,72	849	980	1208	1437	1698	1959	2417	2500	
700	2/63	1,75	935	1079	1331	1583	1871	2033			
600	2/53	1,78	821	947	1168	1389	1642	1894	2336	2417	
750	2/63	1,87	873	1007	1242	1477	1746	1898			
650	2/53	1,93	758	874	1078	1282	1515	1748	2156	2231	
800	2/63	1,99	818	944	1165	1385	1637	1779			
700	2/53	2,07	704	812	1001	1191	1407	1624	2002	2072	
450	4/67	2,11	810	935	1153	1371	1620	1869	2305	2804	2915
750	2/53	2,22	657	758	934	1111	1313	1515	1869	1934	
480	4/67	2,25	759	876	1081	1285	1519	1752	2161	2629	2733
800	2/53	2,37	616	710	876	1042	1231	1421	1752	1813	
520	4/67	2,44	701	809	998	1186	1402	1618	1995	2427	2523
550	4/67	2,58	663	765	943	1122	1326	1529	1886	2294	2385
580	4/67	2,72	628	725	894	1064	1257	1450	1789	2176	2262
600	4/67	2,81	608	701	865	1028	1215	1402	1729	2103	2187
650	4/67	3,05	561	647	798	949	1122	1294	1596	1941	2018
700	4/67	3,28	521	601	741	881	1041	1202	1482	1803	1874
750	4/67	3,52	486	561	692	823	972	1122	1383	1682	1749
800	4/67	3,75	456	526	648	771	911	1051	1297	1577	1640

 m/s	kW Async.									
	9	11	13	15	18,5	22	26	30	37	
	m/s	kg								
0,33	2724	3330	3806							
0,35	2554	3122	3568							
0,36	2567	3138	3709	3953						
0,38	2358	2882	3293							
0,39	2407	2942	3477	3706						
0,41	2229	2724	3114							
0,42	2222	2716	3209	3421						
0,43	2114	2583	2953							
0,44	2043	2497	2854							
0,44	2101	2567	3034	3235						
0,47	1992	2435	2877	3067						
0,48	1886	2305	2635							
0,48	1926	2354	2781	2965						
0,48	2046	2501	2955	3410	3745					
0,52	1751	2141	2446							
0,51	1918	2344	2771	3197	3511					
0,52	1777	2172	2567	2737						
0,55	1635	1998	2283							
0,56	1771	2164	2558	2951	3241					
0,56	1651	2017	2384	2542						
0,59	1532	1873	2141							
0,59	1674	2046	2418	2790	3064					
0,60	1540	1883	2225	2372						
0,62	1587	1940	2293	2646	2905					
0,64	1535	1876	2217	2558	2809					
0,64	1444	1765	2086	2224						
0,69	1417	1731	2046	2361	2592					
0,75	1475	1803	2131	2459	3033	3163				
0,75	1315	1608	1900	2192	2407					
0,80	1383	1690	1998	2305	2843	2965				
0,80	1228	1500	1773	2046	2247					
0,85	1151	1407	1662	1918	2106					
0,86	1277	1560	1844	2128	2624	2737				
0,89	1107	1352	1598	1844	2275	2705	3197	3223		
0,91	1207	1475	1744	2012	2481	2588				
0,95	1037	1268	1498	1729	2132	2536	2997	3021		
0,96	1145	1399	1653	1908	2353	2454				
1,00	1106	1352	1598	1844	2274	2372				
1,03	958	1170	1383	1596	1968	2341	2766	2789		
1,08	1021	1248	1475	1702	2099	2190				
1,09	905	1107	1308	1509	1861	2213	2615	2637		
1,15	859	1049	1240	1431	1765	2099	2480	2500		
1,16	948	1159	1370	1581	1950	2033				
1,19	830	1014	1199	1383	1706	2029	2398	2417		
1,25	885	1082	1279	1475	1820	1898				
1,28	766	936	1107	1277	1575	1873	2213	2231		
1,33	830	1014	1199	1383	1706	1779				
1,38	711	869	1028	1186	1462	1739	2055	2072		
1,41	832	1017	1201	1386	1710	2033	2403	2772	2915	
1,48	664	811	959	1107	1365	1623	1918	1934		
1,50	780	953	1126	1300	1603	1906	2253	2599	2733	
1,58	622	761	899	1037	1279	1522	1798	1813		
1,63	720	880	1040	1200	1480	1759	2079	2399	2523	
1,72	681	832	983	1134	1399	1663	1966	2268	2385	
1,81	645	789	932	1076	1326	1577	1864	2151	2262	
1,88	624	762	901	1040	1282	1525	1802	2079	2187	
2,03	576	704	832	960	1184	1408	1663	1919	2018	
2,19	535	654	772	891	1099	1307	1545	1782	1874	
2,34	499	610	721	832	1026	1220	1442	1663	1749	
2,50	468	572	676	780	962	1144	1352	1560	1640	

M109



Static Load | **M109** - 15000 kg

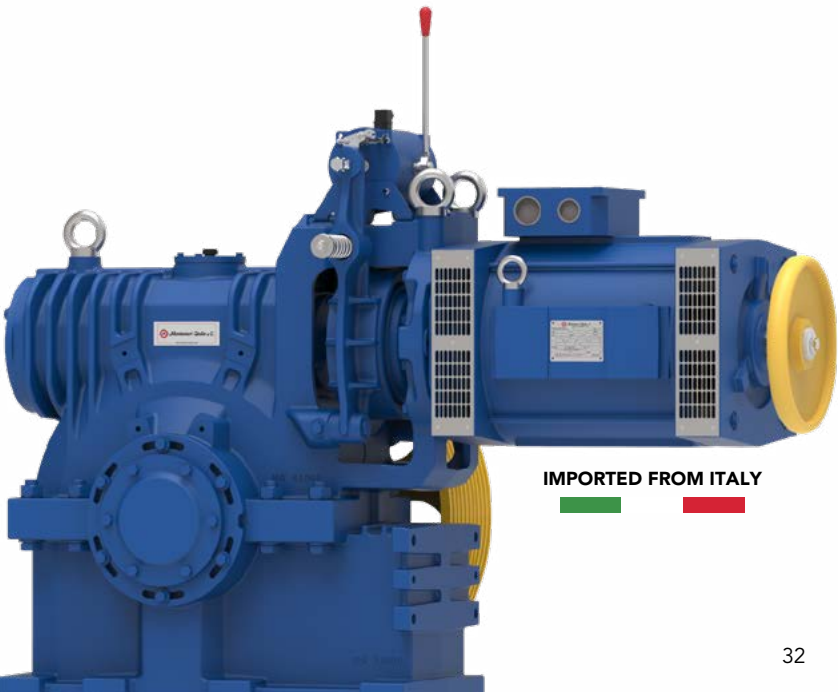
Motor | VVVF 4 P

Gearbox Weight | M109 - 890kg

Oil Capacity | 38 l



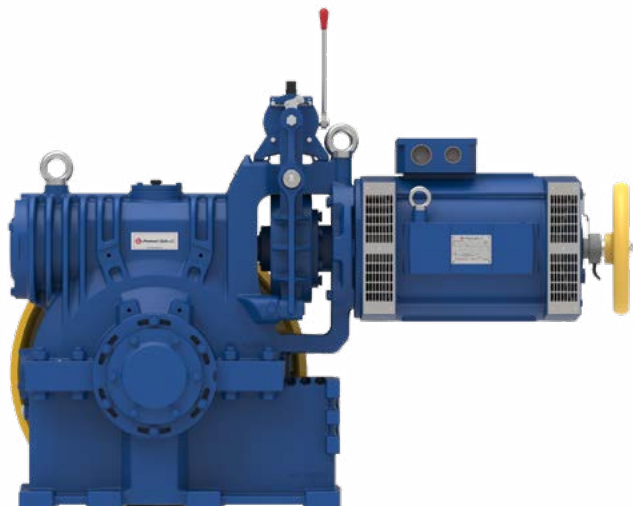
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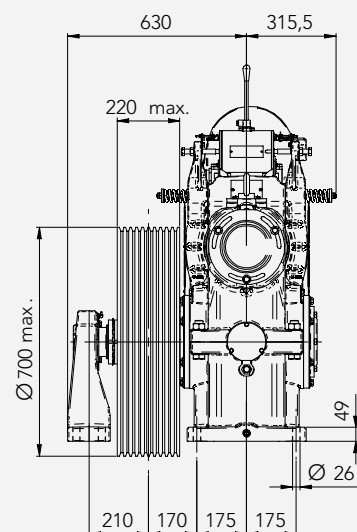
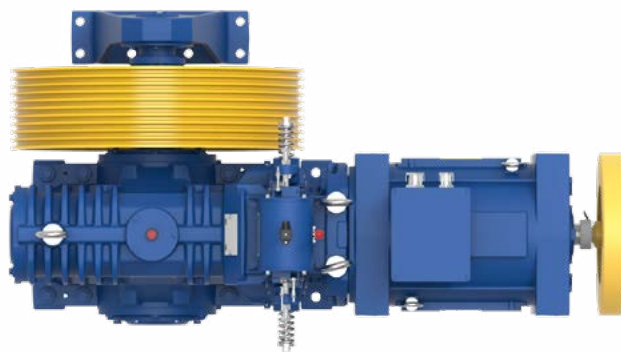
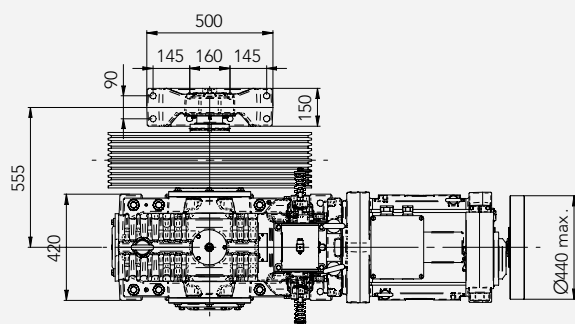
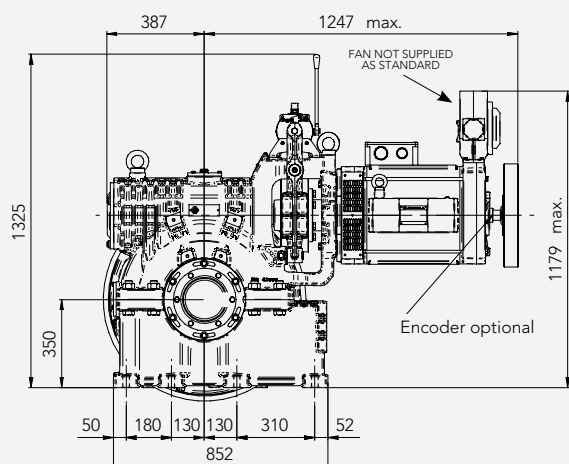
Ratio	Torque Moment	Efficiency
	Nm	1500 RPM
1/49	11749	0.81
2/55	10635	0.88
Brake with overexcitation		
207 / 104V DC - 560 / 70 Watt		

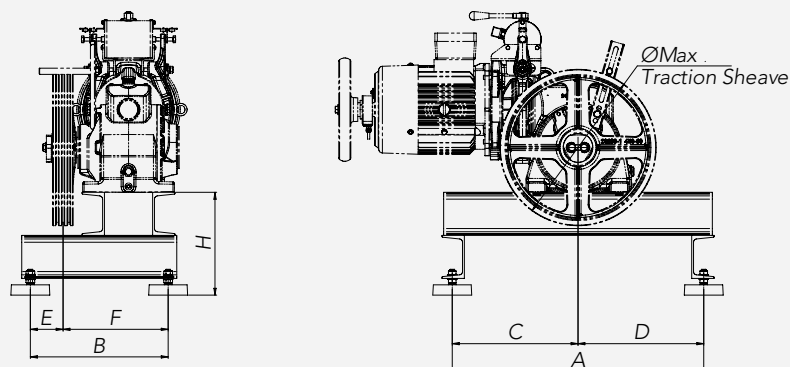
4P - VVVF 1500 RPM



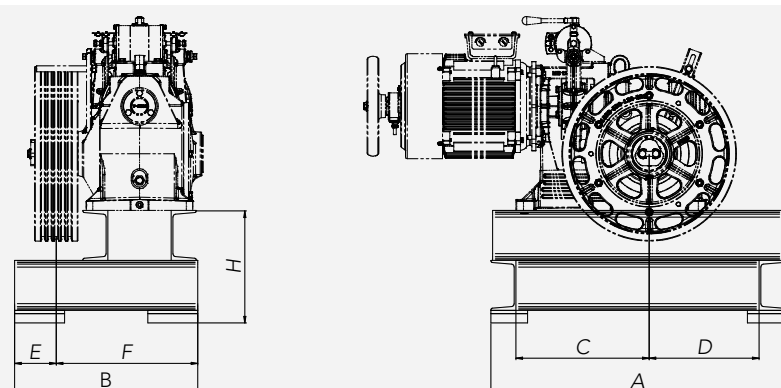
	
ø mm	
650	1/49
700	1/49
650	2/55
700	2/55

	kW Async.			
	22	26	30	37
m/s	kg			
1,04	2906	3434	3962	4887
1,12	2698	3189	3679	4538
1,86	1772	2094	2416	2980
2,00	1645	1944	2243	2767

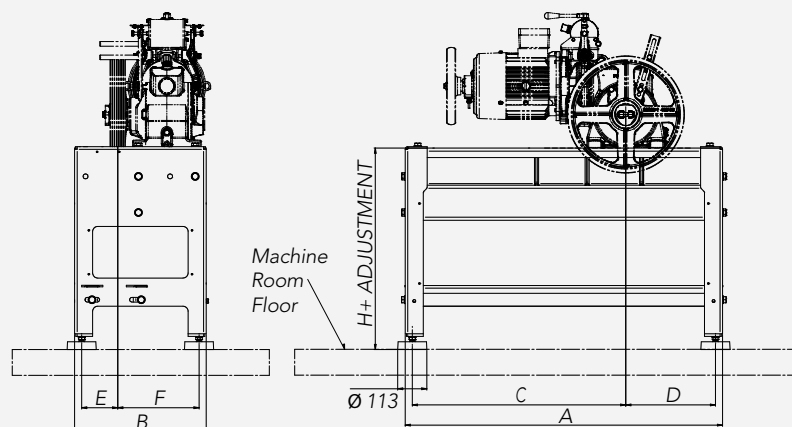


**LOW BEDPLATE**

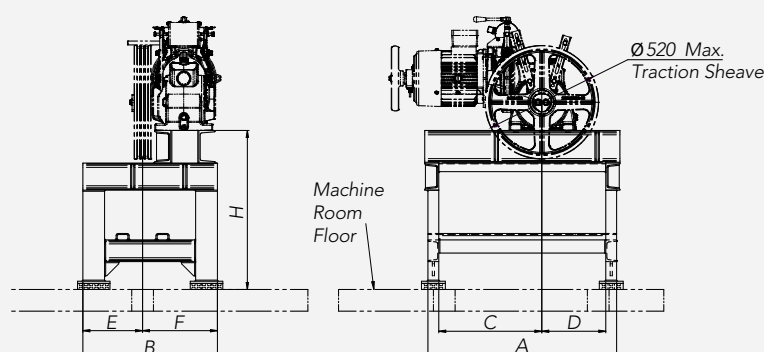
Mod.	A	B	C	D	E	F	H	Ø D max
	mm	mm	mm	mm	mm	mm	mm	mm
M67	730	400	365	365	95	305	295	520
M77 / M77H	730	400	365	365	95	305	295	520

**LOW BEDPLATE**

Mod.	A	B	C	D	E	F	H	Ø D max
	mm	mm	mm	mm	mm	mm	mm	mm
M87	880	550	400	330	125	425	336	600
M93	1145	750	480	480	250	500	385	600

**HIGH BEDPLATE**

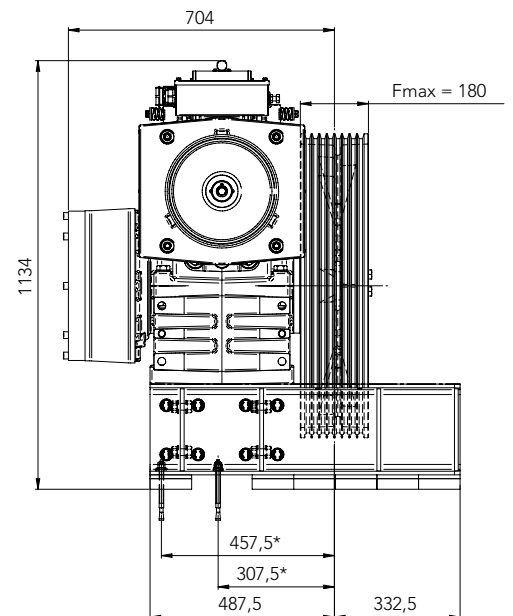
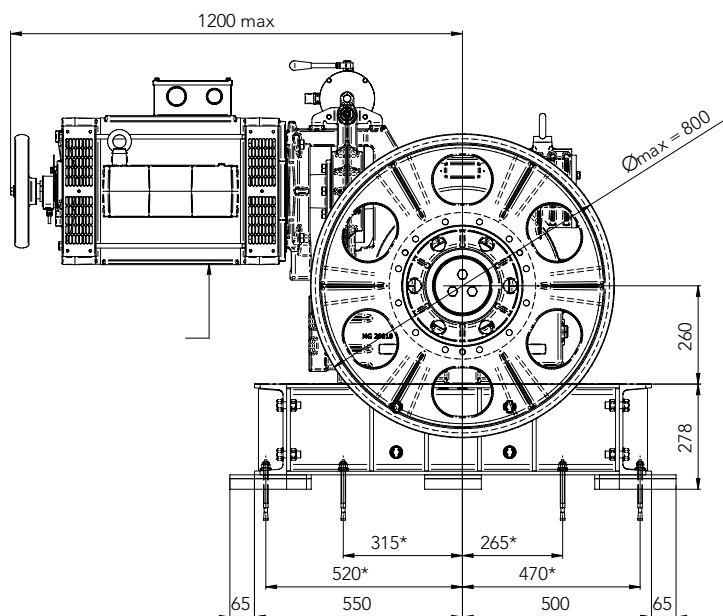
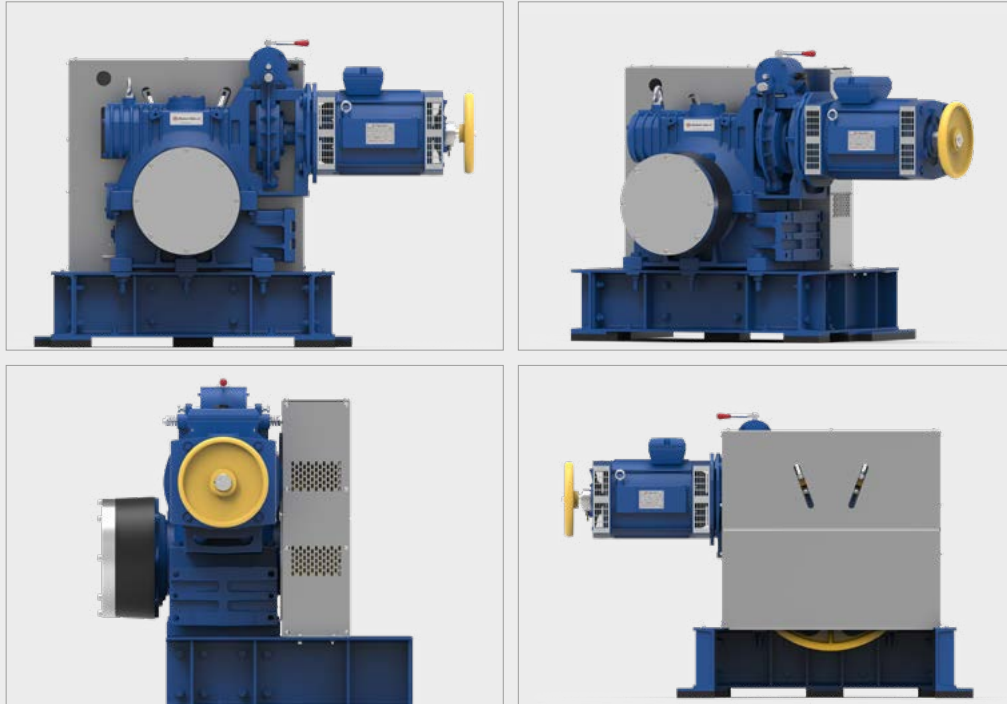
Mod.	A	B	C	D	E	F	H	Ø D max
	mm	mm	mm	mm	mm	mm	mm	mm
M67	1230	51	828	348	140	315	780	520
M77 / M77H	1230	51	828	348	140	315	780	520

**HIGH COMPACT BEDPLATE**

Mod.	A	B	C	D	E	F	H	Ø D max
	mm	mm	mm	mm	mm	mm	mm	mm
M67	870	620	475	295	275	345	733	520
M77 / M77H	870	620	475	295	275	345	733	520
M87	1140	670	760	380	250	420	796	600

M105 Range

- Standard low demontable bedframe for M105 (right/left). Complete protection **optional (Tab.1)**.



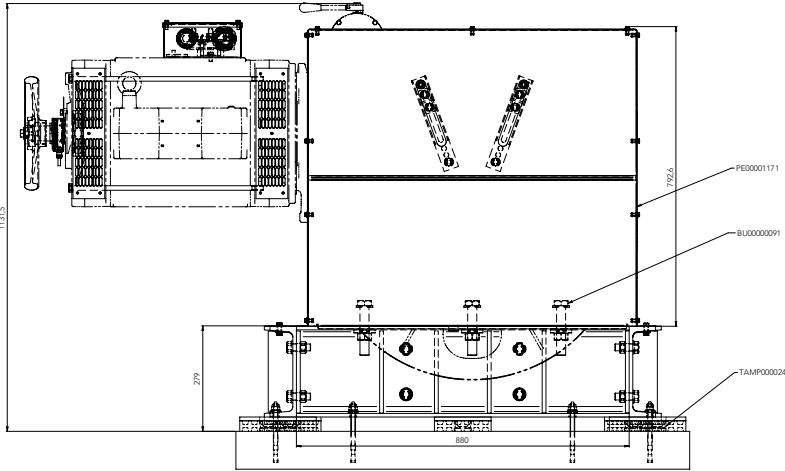
Values with an asterisk are valid for for anchor bolts size

M12

BEDPLATES



M105 Range

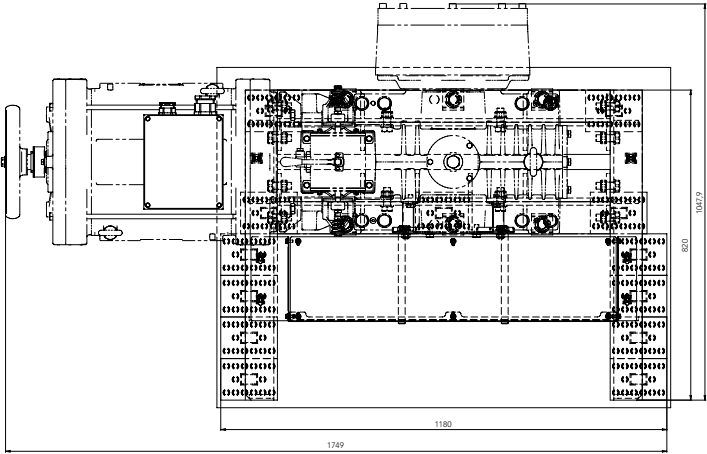


Drawing with accessories

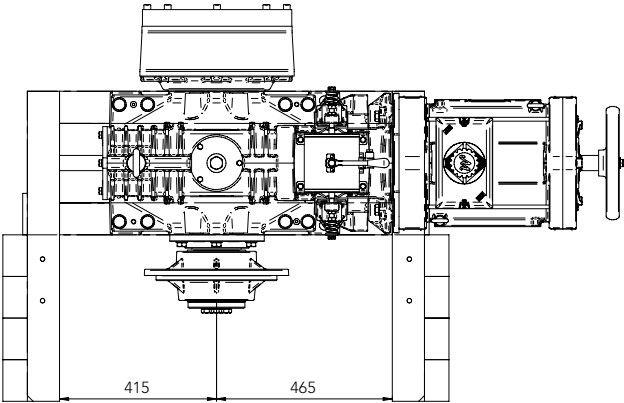
TAB. 1

ACCESSORIES
Complete protection
Buffer
Fixing bolts for gearbox

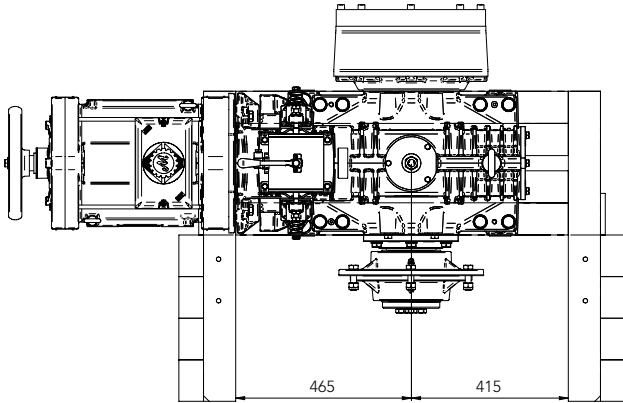
NOTE: Not included. To be ordered separately.



Left hand



Right hand



Distances for right or left-handed machines

An aerial photograph of a large, modern industrial facility. The building has a vast, flat roof covered with numerous rectangular solar panels arranged in a grid pattern. The building's exterior is light-colored with some darker horizontal bands. To the left, there's a smaller, white, box-like structure. The surrounding area includes other industrial buildings, trees, and a distant cityscape with hills under a hazy sky.

MONTANARI INDIAN HQ

**BASED IN PUNE
SINCE 2008**

**3 STATE-OF-THE-ART FACILITIES
FOR OVER 200,000 SQ FT
PRODUCTION AREA**



Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

GEARLESS



Manufacturing plant.
Pune - Maharashtra: view of gearless manufacturing line.



**WE FIRMLY BELIEVE
THAT INNOVATION
AND INVESTMENT IN
RESEARCH AND
DEVELOPMENT ARE
THE ENGINE
FOR GROWTH
AND VALUE CREATION.**



Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

TECHNICAL FEATURES

Montanari gearless machines are designed to be used in lifts and lifting platforms in accordance with the directives and standards in force and with the following technical features:

- hardened alloy steel shaft & high resistance alloy cast iron pulley;
- certified brake both for excess speed in lifting and against uncontrolled movements of the cab;
- brake with levers for manual release;
- 100% tested for max load;
- **short circuit torque always higher than the rated one for emergency manoeuvres in full safety.**

OPERATING DATA

Montanari gearless machines are designed to be used in standard lifts:

- travel time from the first to the last stop max. 50 second;
- 40% service intermittent operation;
- 180 starts/h for 24 h/day;
- for longer travels and/or intermittent operation, refer to Montanari sales department.

The life at rated power corresponds to 20,000 hours.

SELECTION TABLE

The following table was prepared according to the following points:

- system balanced at 50%;
- rope weight 30 kg;
- compartment output 85%;
- the max number of ropes and their diameter is indicated;
- possibility of further layout conditions not listed in the table, along with solutions designed for each type of system.

Operating data is only by way of example.

For detailed operating data ask to Montanari sales department.

GEARLESS

2:1		LOAD															
		kg															
		340	408	544	680	884	1020	1200	1350	1600	2000	2500	3000				
PULLEY DIAMETER	mm	120	MGX19														
		160	MGX19														
		240	MG127XS/S														
			MG127M														
			MG127ML														
			MG127L														
		320	MG127XS/S														
			MDT92														
			MG127M														
			MG127ML														
			MG127L														
			MG137S														
			MG137M														
			MG137ML														
			MG137L														
			400	MG137S													
		MG137M															
		MG137ML															
		MG137L															
		440	MADE IN ITALY - MG34XL														
		480	MG137S														
			MG137M														
			MG137ML														
			MG137L														
MADE IN ITALY - MG34XL																	
520	MG137S																
	MG137M																
	MG137ML																
	MG137L																
	MADE IN ITALY - MG34XL																

#42

MGX19



#45

MG127XS



#46

MG127S



#48

MG127M



#50

MG127ML



#52

MG127L



#55

MG137S



#58

MG137M



#61

MG137ML



#64

MG137L



#68

MGV34XL



#80

MDG45



#82

MDG45-FG



#84

MDG63

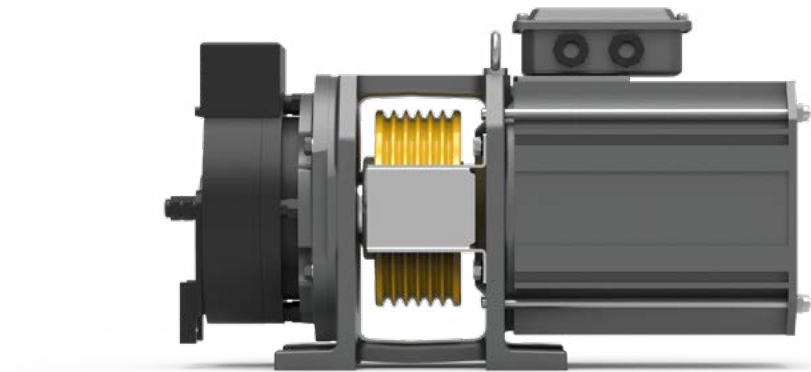


#86

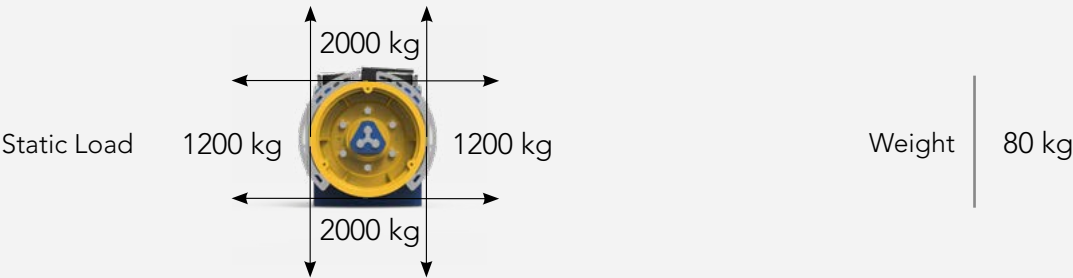
MDG100



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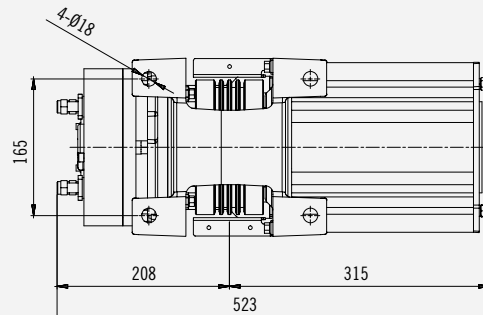
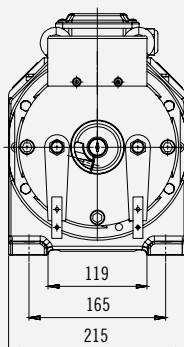
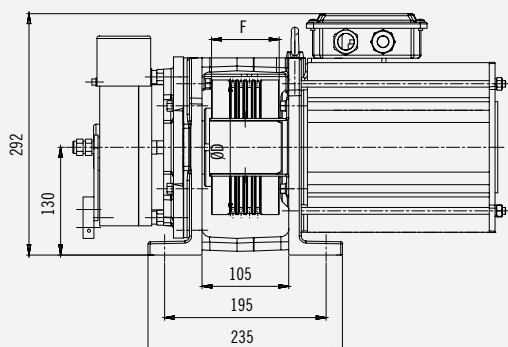
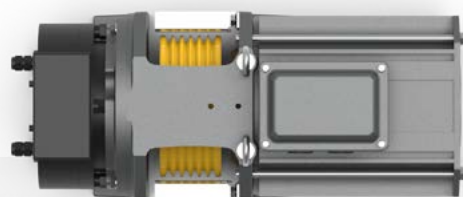
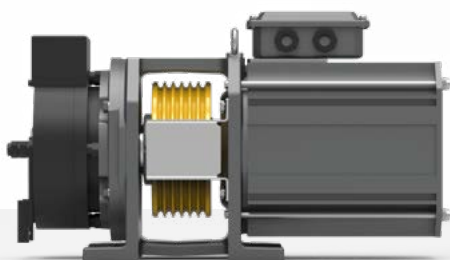


Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
125 S5-25%ED 180s/h	≥140	16	Endat Sincos	7
Brake				
DSZ 100MT 207 V [2x100Nm]				

		Ropes		
ØD	F	Ø	n°	Pitch
mm		mm		mm
120	72	6	6	10
160				



2:1	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 220V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
	340	0,15	160	6xØ6	10	108	0,4	35,8	4,8	7,3
		0,3	160	6xØ6	10	108	0,8	71,6	9,5	7,3
		0,6	160	6xØ6	10	108	1,6	150,0	20,0	8,5
	408	0,15	160	6xØ6	10	122	0,5	35,8	4,8	8,3
		0,3	160	6xØ6	10	122	0,9	71,6	9,5	8,3
	544	0,15	120	6xØ6	10	118	0,6	47,7	6,4	8,0
		0,3	120	6xØ6	10	118	1,2	95,5	12,7	8,0





Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

RANGE

MGI27

A perfect solution for many applications



MGI27XS

MGI27S

MGI27M

MGI27ML-L



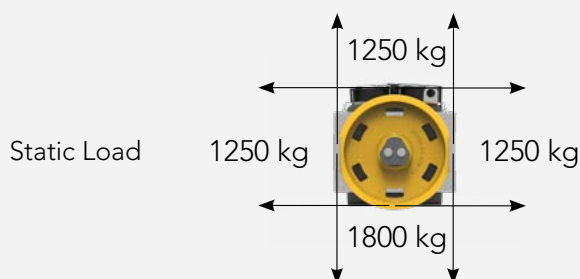
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TRACTION MACHINES

GEARLESS

MGI27XS

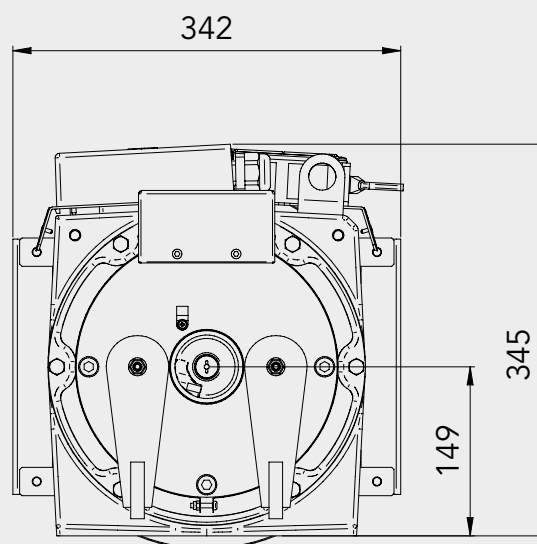
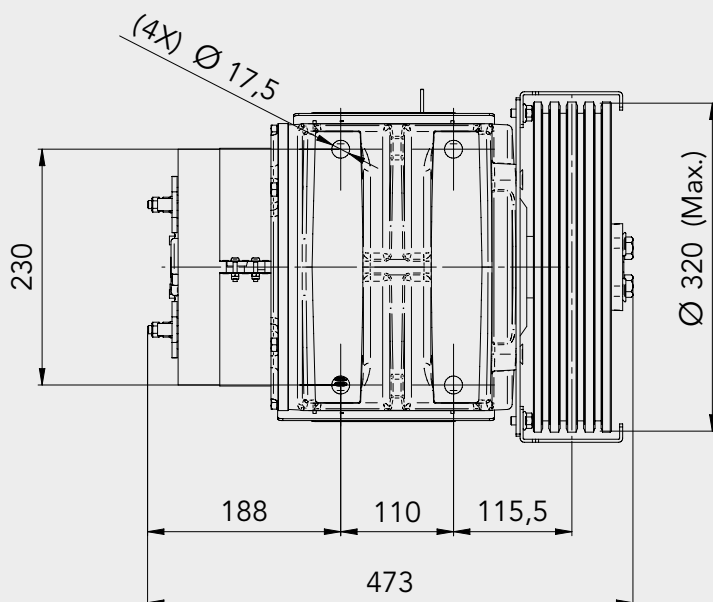


Weight | 100 kg

**CONFIGURATION
RATON
2:1**

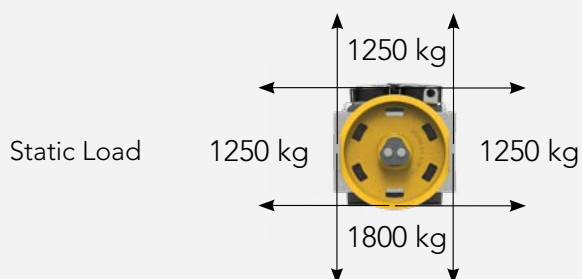
408 kg
1m/s
320 mm
4x8 mm ropes
205 Nm
2.6 kW
9.5 A

Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable	Weight
Nm	Nm	n°	Mod.	m	kg
205 S5 - 35% ED 120 s/h	205	16	Endat Sincos	7	100
Brake					
EMFR200 [2x250Nm]					





SINGLE PHASE

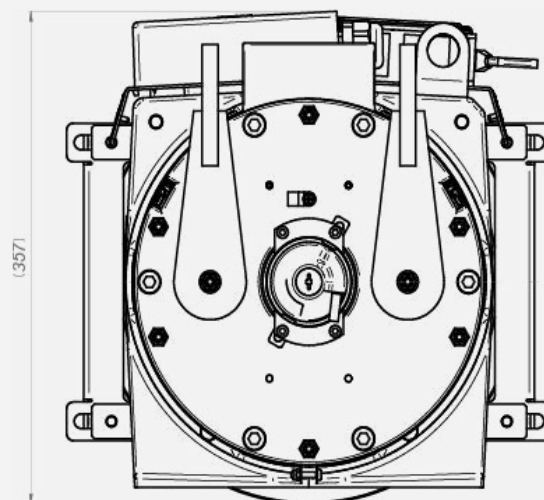
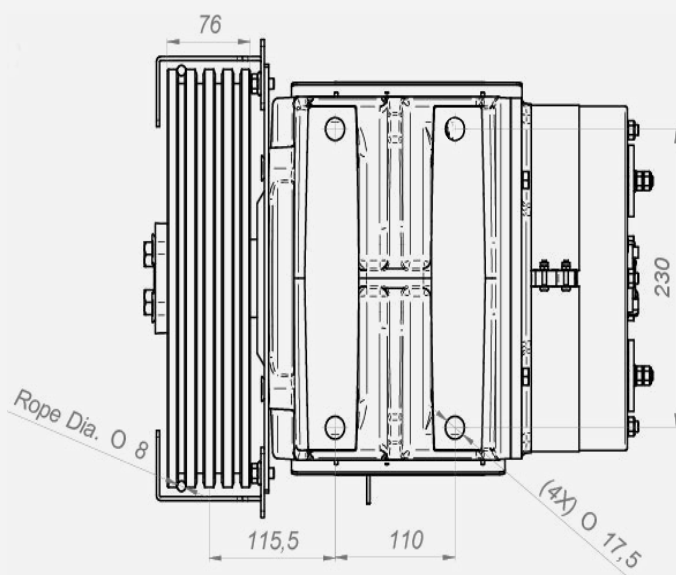


Weight 100 kg

CONFIGURATION RATON 2:1

408 kg
1m/s
320 mm
4x8 mm ropes
205 Nm
2.6 kW
9.5 A

Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable	Weight
Nm	Nm	n°	Mod.	m	kg
205 S5 - 35% ED 120 s/h	205	16	Endat Sincos	7	100
Brake					
EMFR200 [2x250Nm]					





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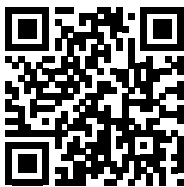
GEARLESS&GEARBOX
TRACTION MACHINES

MGI27XS

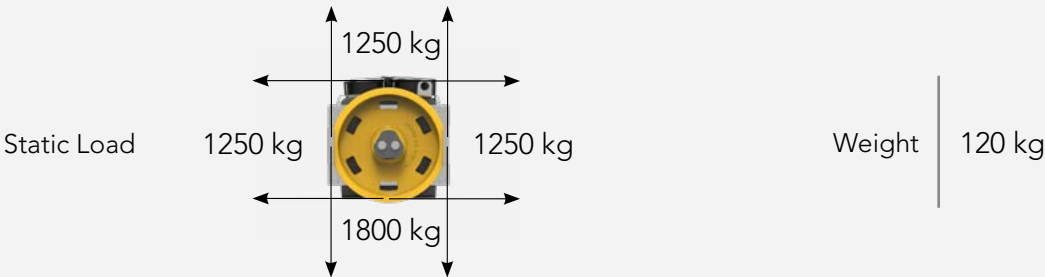


The new gearless MGI27XS is a response to one of the most demanded lift systems in Indian market. It **maximises installation needs and cost optimisation** while enhancing ride comfort and safety which is for us a priority. An eXcellent ride starts with XS.

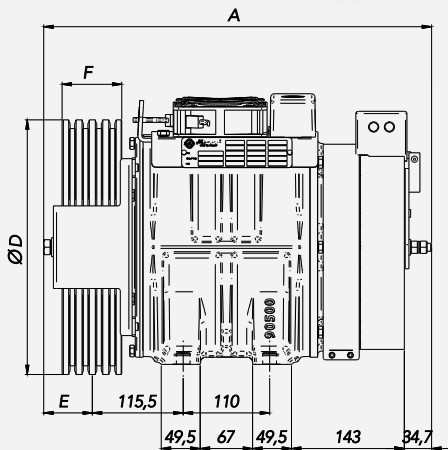
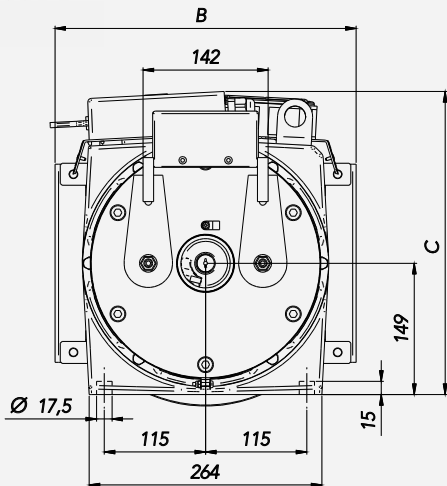
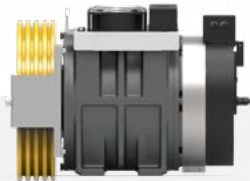




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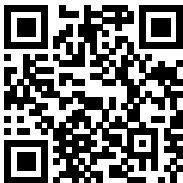
Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
250 S5 - 40% ED 180 s/h	300	16	Endat Sincos	7
Brake				
EMFR400MTX [2x400Nm]				



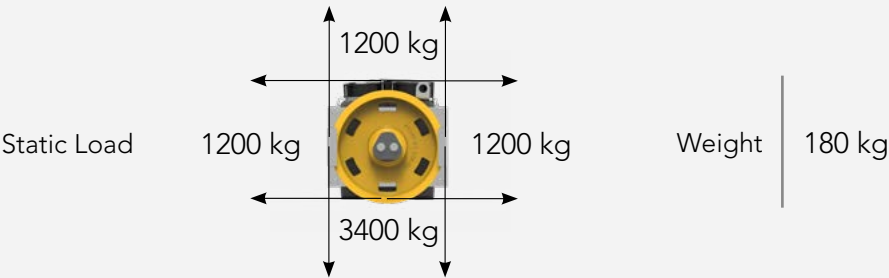


		Ropes			Dimensions			
ØD	F	Ø	min - max	Pitch	A	B	C	E
mm		mm	n°	mm	mm	mm	mm	mm
240	80	6	6	12	493	301	344	61
320	75	8	4	12		342		

	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	340	0,5	240	6xØ6	12	162	1,3	79,6	10,6	7,1
			320	4xØ8	12	216	1,3	59,7	8,0	7,0
		0,63	240	6xØ6	12	162	1,7	100,3	13,4	7,1
			320	4xØ8	12	216	1,7	75,2	10,0	9,5
		1	240	6xØ6	12	162	2,7	159,2	21,2	9,4
			320	4xØ8	12	216	2,7	119,4	15,9	9,5
		1,5	240	6xØ6	12	162	4,0	238,7	31,8	12,3
			320	4xØ8	12	216	4,0	179,0	23,9	12,5
		1,6	240	6xØ6	12	162	4,3	254,6	34,0	12,3
			320	4xØ8	12	216	4,3	191,0	25,5	12,5
		1,75	240	6xØ6	12	162	4,7	278,5	37,1	12,3
			320	4xØ8	12	216	4,7	208,9	27,9	16,4
		2	240	6xØ6	12	162	5,4	318,3	42,4	14,3
			320	4xØ8	12	216	5,4	238,7	31,8	16,4
		2,5	240	6xØ6	12	162	6,7	397,9	53,1	19,1
			320	4xØ8	12	216	6,7	298,4	39,8	19,1
	408	0,5	240	6xØ6	12	184	1,5	79,6	10,6	8,1
			320	4xØ8	12	245	1,5	59,7	8,0	7,9
		0,63	240	6xØ6	12	184	1,9	100,3	13,4	8,1
			320	4xØ8	12	245	1,9	75,2	10,0	10,8
		1	240	6xØ6	12	184	3,1	159,2	21,2	10,7
			320	4xØ8	12	245	3,1	119,4	15,9	10,8
		1,5	240	6xØ6	12	184	4,6	238,7	31,8	14,0
			320	4xØ8	17	245	4,6	179,0	23,9	14,2
		1,6	240	6xØ6	12	184	4,9	254,6	34,0	14,0
			320	4xØ8	12	245	4,9	191,0	25,5	14,2
		1,75	240	6xØ6	12	184	5,4	278,5	37,1	14,0
			320	4xØ8	12	245	5,4	208,9	27,9	18,6
		2	240	6xØ6	12	184	6,1	318,3	42,4	16,3
			320	4xØ8	12	245	6,1	238,7	31,8	18,6
		2,5	240	6xØ6	12	184	7,7	397,9	53,1	21,7
			320	4xØ8	12	245	7,0	298,4	39,8	21,4
	544	0,5	240	8xØ6	12	235	2,0	79,6	10,6	10,4
			320	4xØ8	12	275	3,4	75	16	12,1
		1	240	8xØ6	12	235	3,9	159,2	21,2	13,7
			320	4xØ8	12	275	3,4	120	16	12,1
		1,5	240	8xØ6	12	235	5,9	238,7	31,8	17,9
		1,6	240	8xØ6	12	235	6,3	254,6	34,0	17,9
		1,75	240	8xØ6	12	235	6,9	278,5	37,1	17,9
		2	240	8xØ6	12	235	7,8	318,3	42,4	20,9
		2,5	240	8xØ6	12	235	9,8	397,9	53,1	27,8
			320	4xØ8	12	275	9,8	397,9	53,1	27,8



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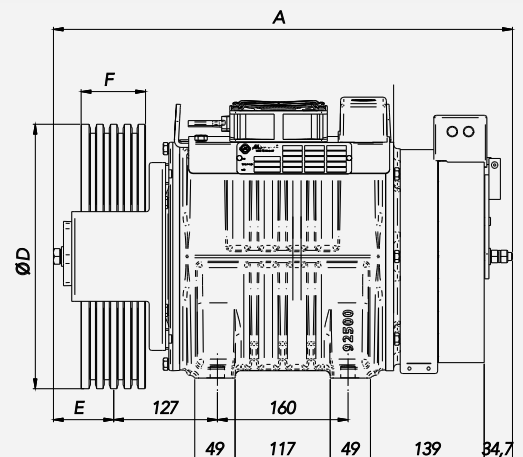
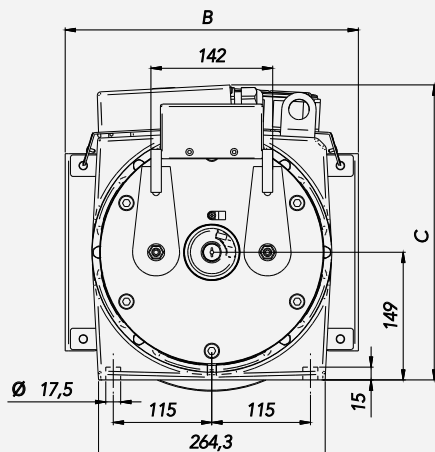


Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
385 S5 - 40% ED 180 s/h	450	16	Endat Sincos	7
Brake				
EMFR400MTX [2x400Nm]				

		Ropes			Dimensions			
ØD	F	Ø	min - max	Pitch	A	B	C	E
mm	mm	mm	n°	mm	mm	mm	mm	mm
240	105	6	6	12	562	301	370	74
320	78	8	4	12		342		

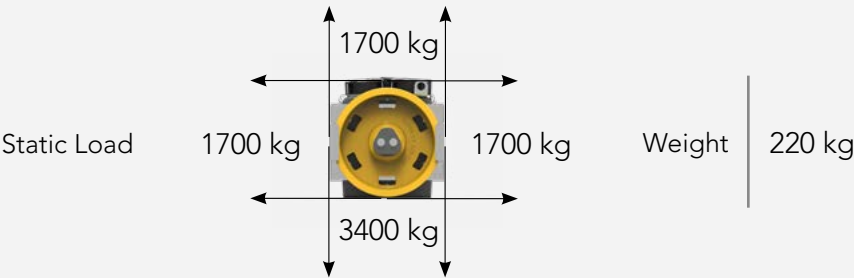
* Special Traction Sheave up to 480 mm. Please contact Montanari Sales Department for further indications.

	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	544	0,5	240	6xØ6	12	224	1,9	79,6	10,6	7,0
			320	4xØ8	12	299	1,9	59,7	8,0	9,3
		0,63	240	6xØ6	12	224	2,4	100,3	13,4	8,7
			320	4xØ8	12	299	2,4	75,2	10,0	9,3
		1	240	6xØ6	12	224	3,7	159,2	21,2	11,6
			320	4xØ8	12	299	3,7	119,4	15,9	11,6
		1,5	240	6xØ6	12	224	5,6	238,7	31,8	15,7
			320	4xØ8	12	299	5,6	179,0	23,9	15,5
		1,6	240	6xØ6	12	224	6,0	254,6	34,0	15,7
			320	4xØ8	12	299	6,0	191,0	25,5	15,5
		1,75	240	6xØ6	12	224	6,5	278,5	37,1	15,7
			320	4xØ8	12	299	6,5	208,9	27,9	21,0
		2	240	6xØ6	12	224	7,5	318,3	42,4	20,4
			320	4xØ8	12	299	7,5	238,7	31,8	21,0
		2,5	240	6xØ6	12	224	9,3	397,9	53,1	30,3
			320	4xØ8	12	299	9,3	298,4	39,8	27,2
	680	0,5	240	6xØ6	12	280,3	2,3	79,6	10,6	8,7
			320	4xØ8	12	373,7	2,3	59,7	8,0	11,6
		0,63	240	6xØ6	12	280,3	2,9	100,3	13,4	10,9
			320	4xØ8	12	373,7	2,9	75,2	10,0	11,6
		1	240	6xØ6	12	280,3	4,7	159,2	21,2	14,6
			320	4xØ8	12	373,7	4,7	119,4	15,9	14,6
		1,5	240	6xØ6	12	280,3	7,0	238,7	31,8	19,7
			320	5xØ8	12	373,7	7,0	179,0	23,9	19,4
		1,6	240	6xØ6	12	280,3	7,5	254,6	34,0	19,7
			320	4xØ8	12	373,7	7,5	191,0	25,5	19,4
		1,75	240	6xØ6	12	280,3	8,2	278,5	37,1	19,7
			320	4xØ8	12	373,7	8,2	208,9	27,9	26,2
	816	0,5	240	6xØ6	12	324,9	11,0	79,6	10,6	10,1
			320	4xØ8	12	428,3	11,0	59,7	8,0	13,6
		0,63	240	6xØ6	12	324,9	2,7	100,3	13,4	12,7
			320	4xØ8	12	428,3	2,7	75,2	10,0	13,6
		1	240	6xØ6	12	324,9	3,4	159,2	21,2	16,9
			320	4xØ8	12	428,3	3,4	119,4	15,9	17,6
		1,5	240	6xØ6	12	324,9	5,4	238,7	31,8	22,8
			320	4xØ8	12	428,3	5,4	179,0	23,9	23,4





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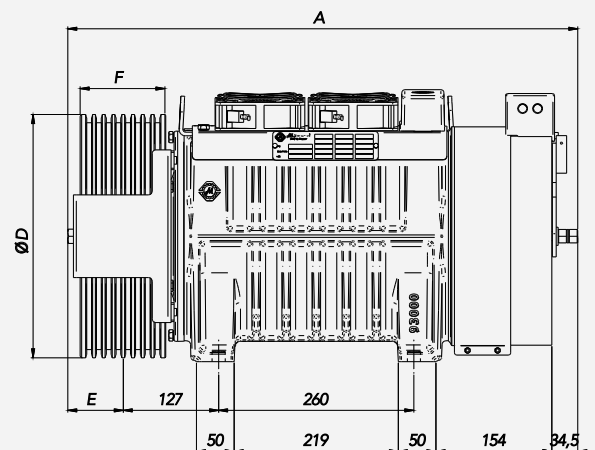
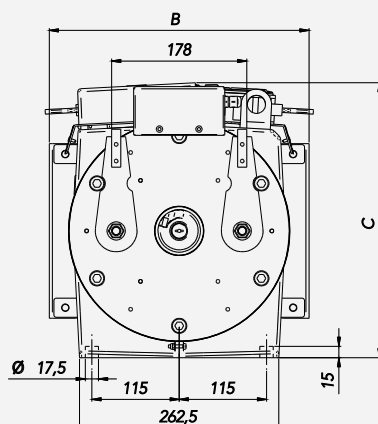
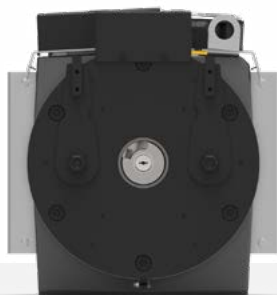


Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
530 S5 - 40% ED 180 s/h	600	16	Endat Sincos	7
Brake				
EMFR600MTX [2x600Nm]				

		Ropes			Dimensions			
ØD	F	Ø	min - max	Pitch	A	B	C	E
mm	mm	mm	n°	mm	mm	mm	mm	mm
240	105	6	6	12	679	301	362	74
320	80	8	6	12		342		

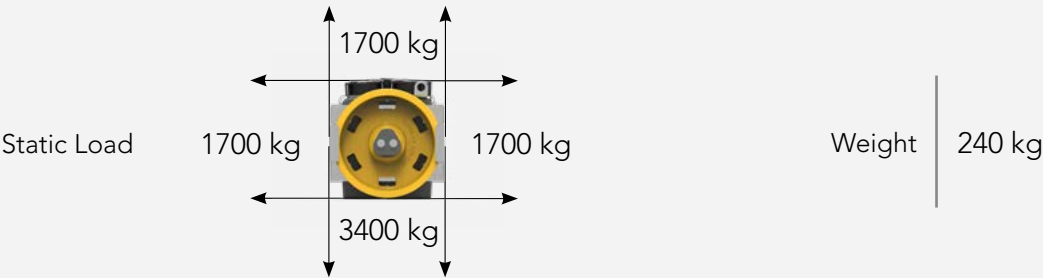
* Special Traction Sheave up to 600 mm. Please contact Montanari Sales Department for further indications.

	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	884	0,5	320	8xØ8	12	469	2,9	59,7	8,0	13,3
		0,63	320	8xØ8	12	469	3,7	75,2	10,0	13,3
		1	320	8xØ8	12	469	5,9	119,4	15,9	16,8
		1,5	320	8xØ8	12	469	8,8	179,0	23,9	22,1
		1,6	320	8xØ8	12	469	9,4	191,0	25,5	22,1
		1,75	320	8xØ8	12	469	10,3	208,9	27,9	30,1
		2	320	8xØ8	12	469	11,7	238,7	31,8	30,1
		2,5	320	8xØ8	12	469	14,7	298,4	39,8	32,8
	1020	0,5	240	10xØ6	12	396	3,3	79,6	10,6	11,2
			320	8xØ8	12	527	3,3	59,7	8,0	14,9
		0,63	240	10xØ6	12	396	4,2	100,3	13,4	14,2
			320	8xØ8	12	527	4,2	75,2	10,0	14,9
		1	240	10xØ6	12	396	6,6	159,2	21,2	18,7
			320	8xØ8	12	527	6,6	119,4	15,9	18,9
		1,5	240	10xØ6	12	396	9,9	238,7	31,8	25,4
			320	8xØ8	12	527	9,9	179,0	23,9	24,9
		1,6	240	10xØ6	12	396	10,5	254,6	34,0	25,4
			320	8xØ8	12	527	10,5	191,0	25,5	24,9
		1,75	240	10xØ6	12	396	11,5	278,5	37,1	27,6
			320	8xØ8	12	527	11,5	208,9	27,9	33,8
		2	320	8xØ8	12	527	13,2	238,7	31,8	33,8
		2,5	320	8xØ8	12	527	16,5	298,4	39,8	36,8
	1088	0,5	240	10xØ6,5	12	414	3,5	79,6	10,6	11,7
		0,63	240	10xØ6,5	12	414	4,4	100,3	13,4	14,9
		1	240	10xØ6,5	12	414	6,9	159,2	21,2	19,5
		1,5	240	10xØ6,5	12	414	10,4	238,7	31,8	26,6
		1,6	240	10xØ6,5	12	414	11,0	254,6	34,0	26,6
		1,75	240	10xØ6,5	12	414	12,1	278,5	37,1	28,9
	1350	0,5	240	10xØ6	12	514	4,3	79,6	10,6	14,6
		0,63	240	10xØ6	12	514	5,4	100,3	13,4	18,4
		1	240	10xØ6	12	514	8,6	159,2	21,2	24,3
		1,5	240	10xØ6	12	514	12,9	238,7	31,8	33,0
		1,6	240	10xØ6	12	514	13,7	254,6	34,0	33,0
		1,75	240	10xØ6	12	514	15,0	278,5	37,1	35,9





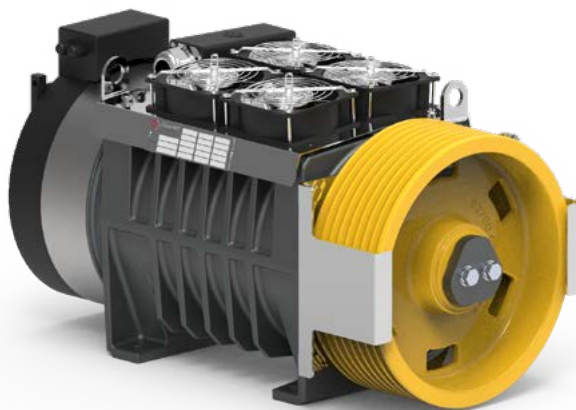
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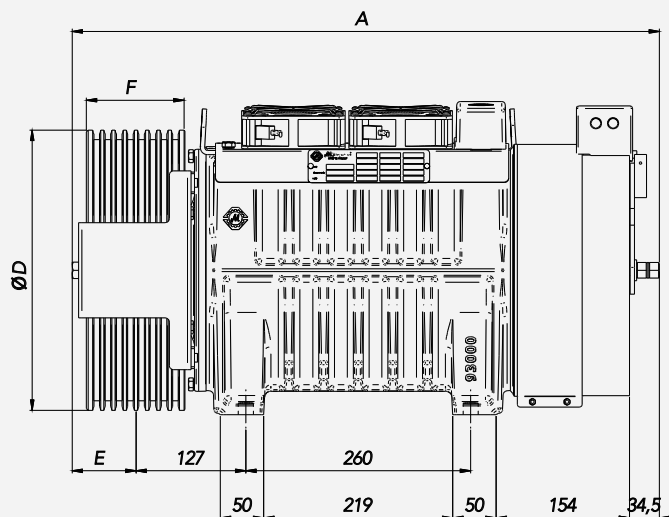
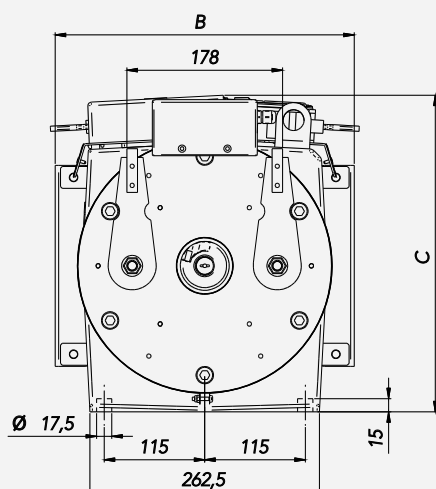
Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
630 S5 - 40% ED 180 s/h	750	16	Endat Sincos	7
Brake				
EMFR600MTX [2x600Nm]				

		Ropes			Dimensions			
ØD	F	Ø	min - max	Pitch	A	B	C	E
mm		mm	n°	mm	mm	mm	mm	mm
240	105	6	6	12	679	301	362	74
320	115	8	7	12		342		

* Special Traction Sheave up to 600 mm. Please contact Montanari Sales Department for further indications.



2:1	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
	1224	0,5	320	8xØ8	12	622	3,9	59,7	8,0	14,8
		0,63	320	8xØ8	12	622	4,9	75,2	10,0	21,7
		1	320	8xØ8	12	622	7,8	119,4	15,9	21,7
		1,5	320	8xØ8	12	622	11,7	179,0	23,9	31,6
		1,6	320	8xØ8	12	622	12,4	191,0	25,5	31,6
		1,75	320	8xØ8	12	622	13,6	208,9	27,9	31,6
		2	320	8xØ8	12	622	15,5	238,7	31,8	39,5
		2,5	320	8xØ8	12	622	19,4	298,4	39,8	51,3
		3	320	8xØ8	12	622	23,3	358,1	47,7	51,3
	1600	0,5	240	10xØ6,5	12	596	5,0	79,6	10,6	20,8
		0,63	240	10xØ6,5	12	596	6,3	100,3	13,4	20,8
		1	240	10xØ6,5	12	596	9,9	159,2	21,2	26,5
		1,5	240	10xØ6,5	12	596	14,9	238,7	31,8	37,8
		1,6	240	10xØ6,5	12	596	15,9	254,6	34,0	37,8
		1,75	240	10xØ6,5	12	596	17,4	278,5	37,1	49,2
		2	240	10xØ6,5	12	596	19,9	318,3	42,4	49,2





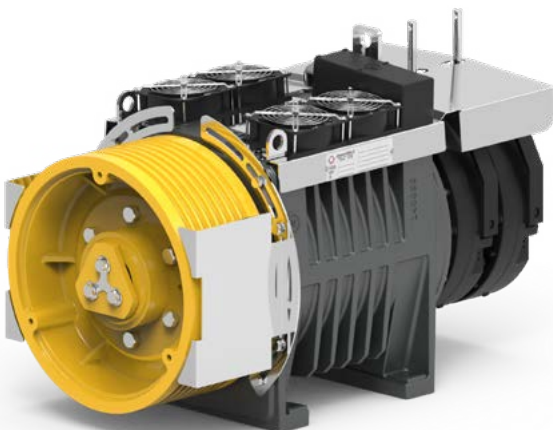
Montanari Group

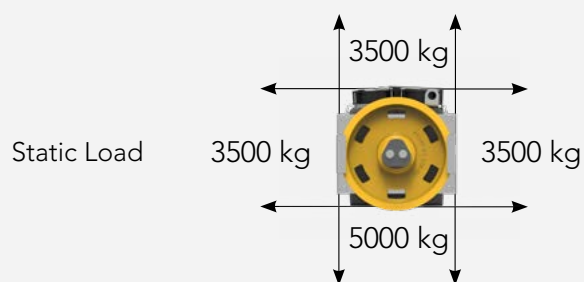
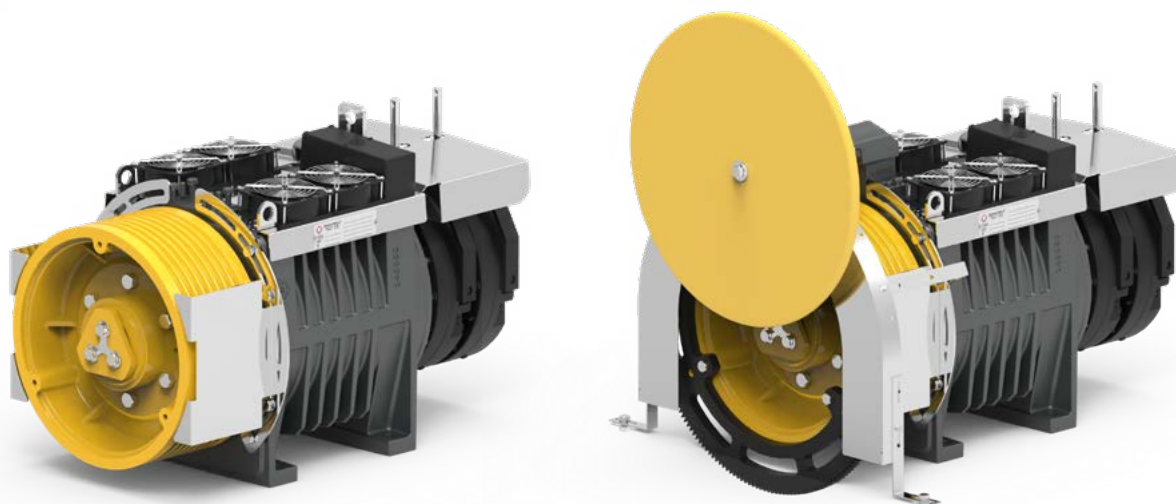
GEARLESS&GEARBOX
TRACTION MACHINES

RANGE

MGI37

One gearless for both MR&MRL use.





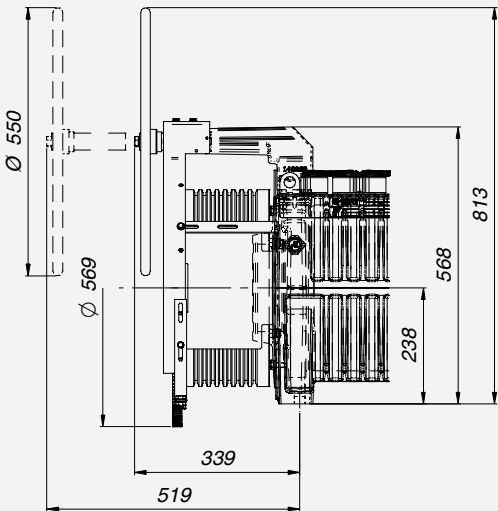
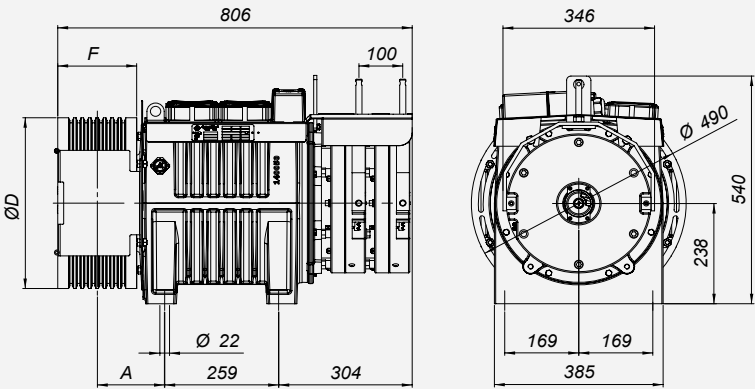
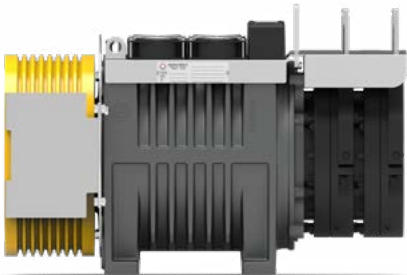
Weight | 472 kg

Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
850 S5 - 40% ED 180 s/h	900	16	Endat Sincos	10
Brake				
EMFR DC110V/2X2.03A [2X1400Nm]				

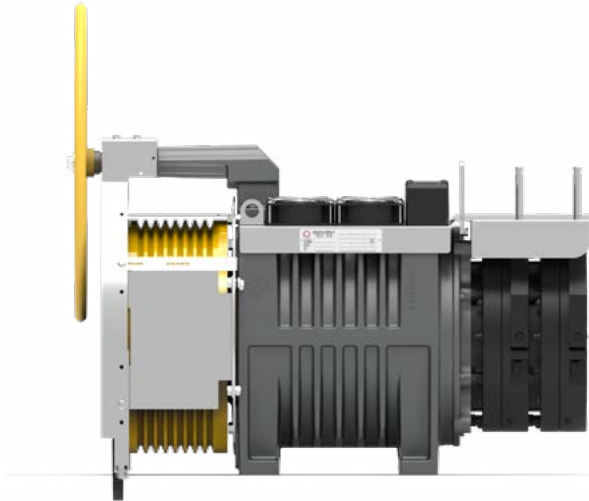
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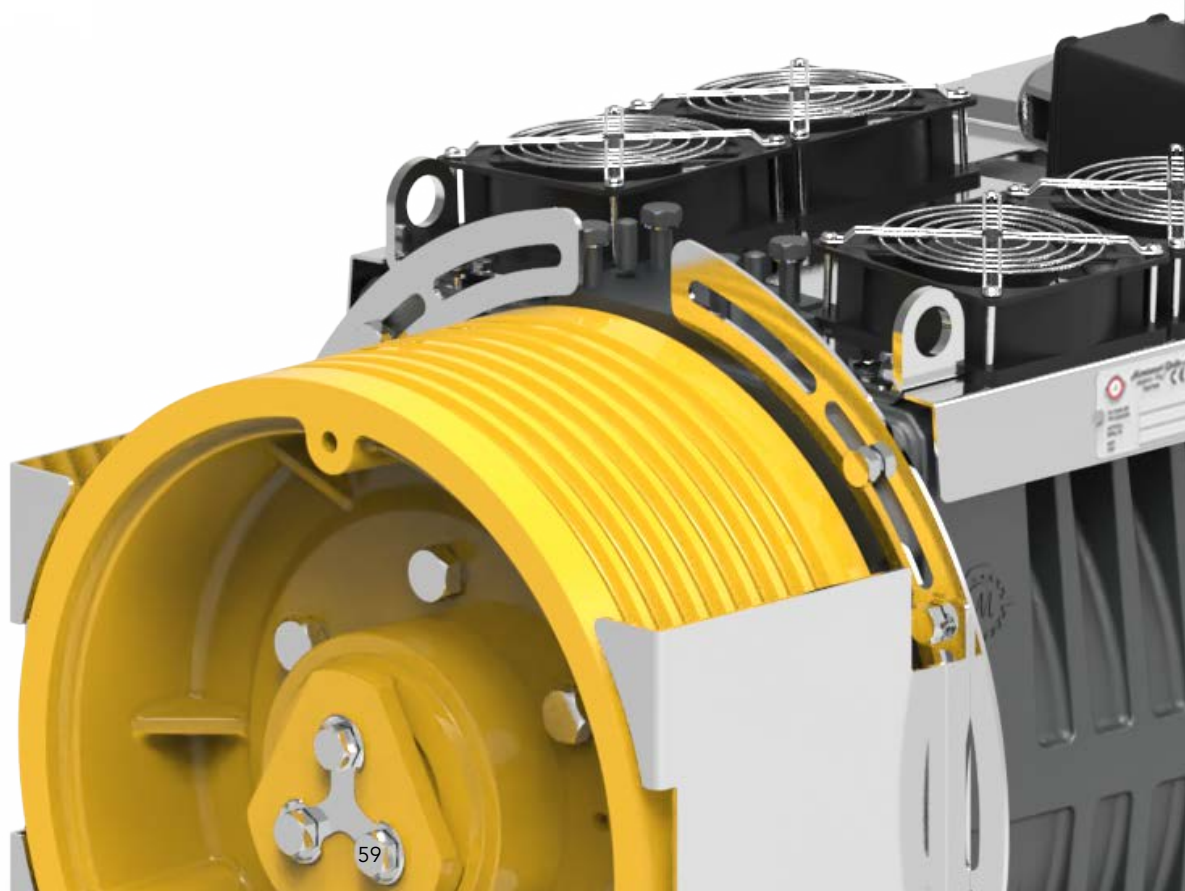
		Ropes			Dimensions
ØD	F	Ø	min - max	Pitch	A
mm	mm	mm	n°	mm	mm
320	180	8	3 - 10	12	153
400		10			
480		12	3 - 8	20	
520	145	13	3 - 7		



Machine Room Use

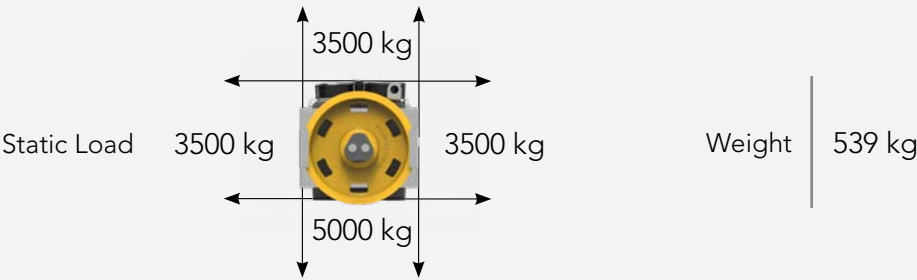
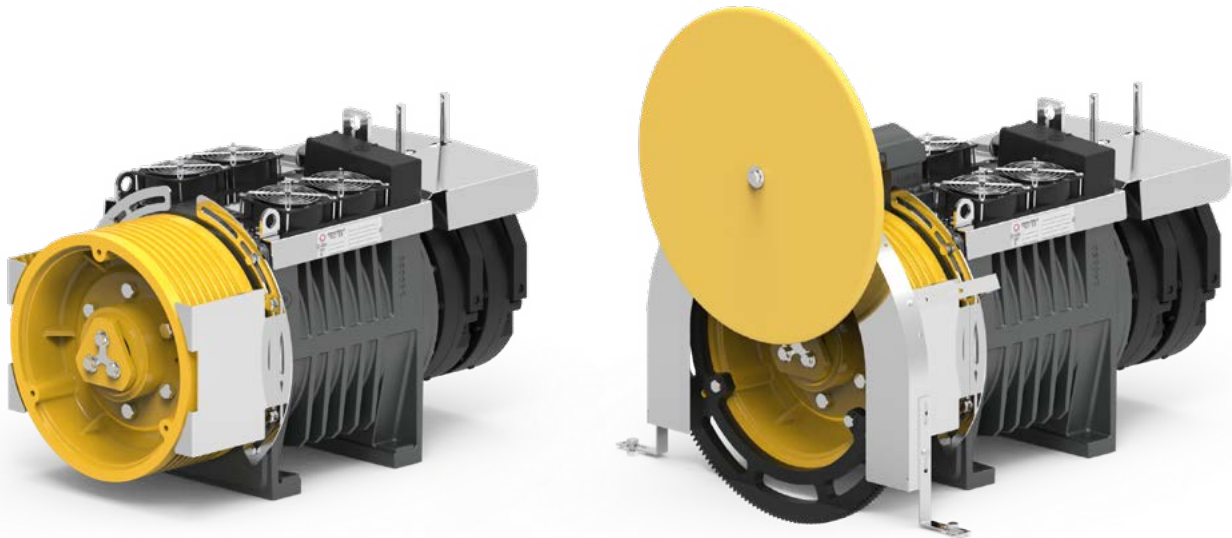


2:1	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	1088	0,63	400	10xØ10	17	728	4,6	60,2	8,0	15,0
			480	9xØ12	20	874	4,6	50,1	6,7	18,0
			520	6xØ13	20	947	4,6	46,3	6,2	19,5
		1	400	10xØ10	17	728	7,3	95,5	12,7	21,0
			480	9xØ12	20	874	7,3	79,6	10,6	25,2
			520	6xØ13	20	947	7,3	73,5	9,8	27,4
		1,6	400	10xØ10	17	728	11,7	152,8	20,4	36,4
			480	9xØ12	20	874	11,7	127,3	17,0	43,7
			520	6xØ13	20	947	11,7	117,5	15,7	31,6
		2	400	10xØ10	17	728	14,6	191,0	25,5	36,4
			480	9xØ12	20	874	14,6	159,2	21,2	43,7
			520	6xØ13	20	947	14,6	146,9	19,6	47,3
		2,5	400	10xØ10	17	728	18,2	238,7	31,8	48,6
			480	9xØ12	20	874	18,2	198,9	26,5	43,7
			520	6xØ13	20	947	18,2	183,6	24,5	47,3
		3	400	10xØ10	17	728	21,8	286,5	38,2	48,6
			480	9xØ12	20	874	21,8	238,7	31,8	58,3
			520	6xØ13	20	947	21,8	220,4	29,4	63,1
	1360	0,63	400	10xØ10	17	885	5,6	60,2	8,0	18,2
		1	400	10xØ10	17	885	8,9	95,5	12,7	25,6
		1,6	400	10xØ10	17	885	14,2	152,8	20,4	44,3
		2	400	10xØ10	17	885	17,7	191,0	25,5	44,3
		2,5	400	10xØ10	17	885	22,1	238,7	31,8	59,0
		3	400	10xØ10	17	885	26,6	286,5	38,2	59,0
	1600	0,63	320	10xØ8	12	812	6,4	75,2	10,0	23,5
		1	320	10xØ8	12	812	10,2	119,4	15,9	27,1
		1,6	320	10xØ8	12	812	16,2	191,0	25,5	27,1
		2	320	10xØ8	12	812	20,3	238,7	31,8	27,1
		2,5	320	10xØ8	12	812	25,4	298,4	39,8	27,1





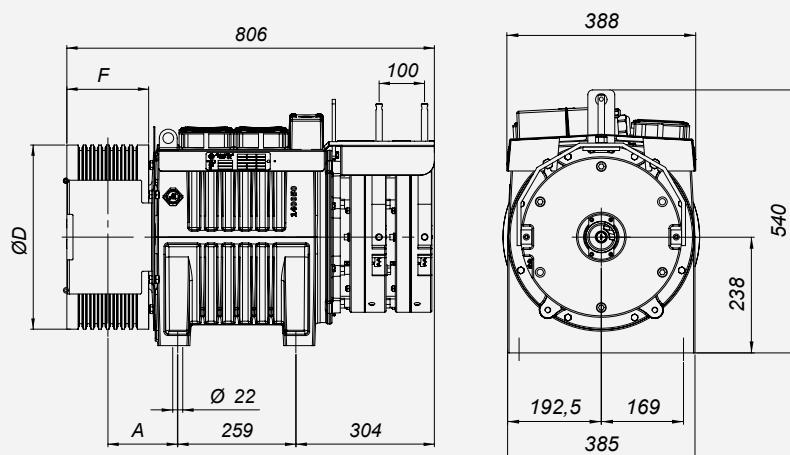
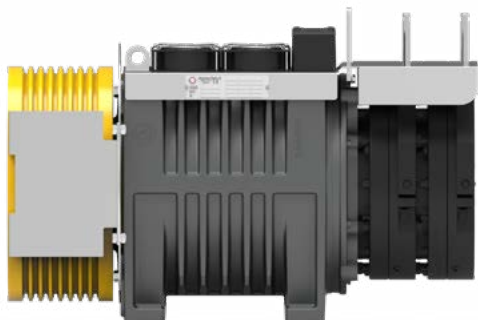
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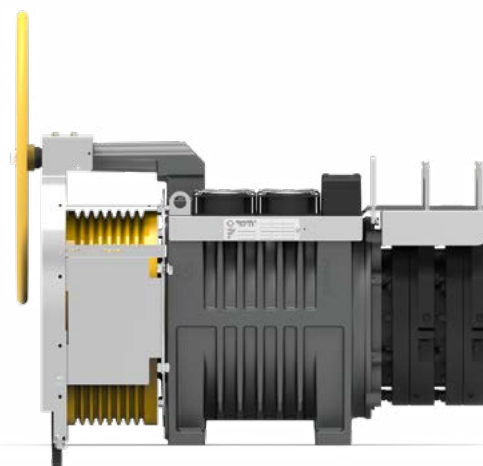
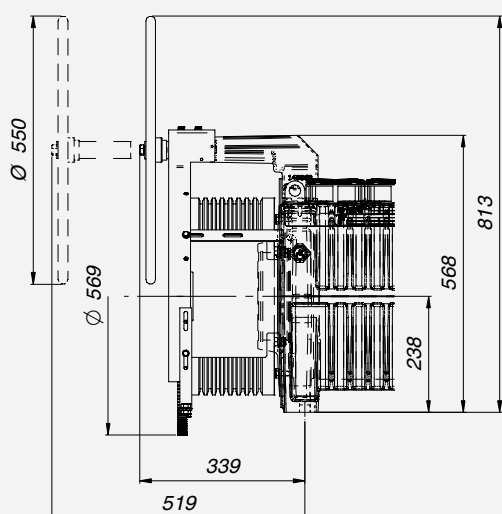
Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
1050 S5 - 40% ED 180 s/h	1250	16	Endat Sincos	10
Brake				
EMFR DC110V/2X2.03A [2X1400Nm]				

MGI37M

		Ropes			Dimensions
ØD	F	Ø	min - max	Pitch	A
mm	mm	mm	n°	mm	mm
320	180	8	3 - 10	12	153
400		10			
480		12	3 - 8	20	
520	145	13	3 - 7		

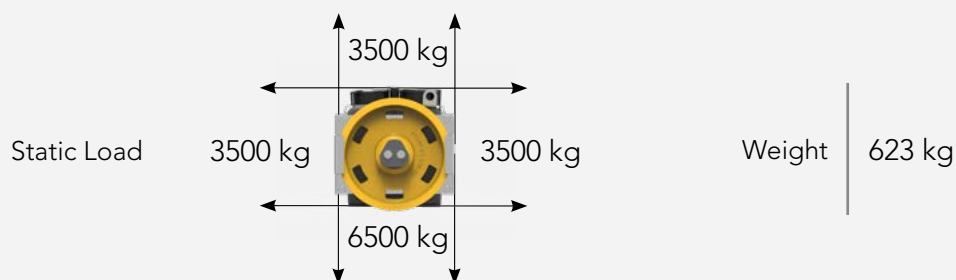
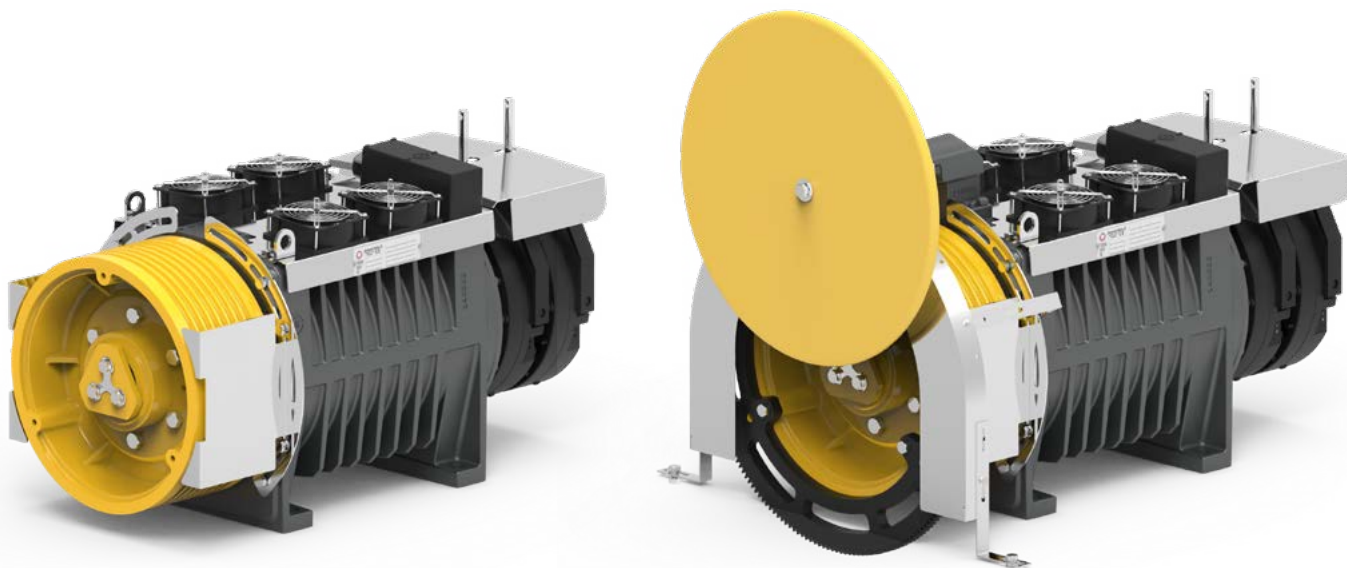


Machine Room Use

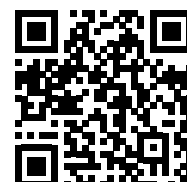


	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	1360	0,63	320	10xØ8	12	708	5,6	75,2	10,0	14,2
			400	10xØ10	17	885	5,6	60,2	8,0	17,7
			480	9xØ12	20	1062	5,6	50,1	6,7	21,2
			520	6xØ13	20	1142	5,5	46,3	6,2	20,1
		1	320	10xØ8	12	708	8,9	119,4	15,9	20,6
			400	10xØ10	17	885	8,9	95,5	12,7	25,7
			480	9xØ12	20	1062	8,9	79,6	10,6	30,9
			520	6xØ13	20	1142	8,8	73,5	9,8	22,8
		1,6	320	10xØ8	12	708	14,2	191,0	25,5	38,4
			400	10xØ10	17	885	14,2	152,8	20,4	36,3
			480	9xØ12	20	1062	14,2	127,3	17,0	43,5
			520	6xØ13	20	1142	14,1	117,5	15,7	33,2
		2	320	10xØ8	12	708	17,7	238,7	31,8	38,4
			400	10xØ10	17	885	17,7	191,0	25,5	48,1
			480	9xØ12	20	1062	17,7	159,2	21,2	43,5
			520	6xØ13	20	1142	17,6	146,9	19,6	46,8
		2,5	320	10xØ8	12	708	22,1	298,4	39,8	46,5
			400	10xØ10	17	885	22,1	238,7	31,8	48,1
			480	9xØ12	20	1062	22,1	198,9	26,5	57,7
			520	6xØ13	20	1142	22,0	183,6	24,5	62,0
		3	320	10xØ8	12	708	26,6	358,1	47,7	57,3
			400	10xØ10	17	885	26,6	286,5	38,2	58,2
			480	9xØ12	20	1062	26,6	238,7	31,8	57,7
			520	6xØ13	20	1142	26,4	220,4	29,4	62,0
	1600	0,63	320	10xØ8	12	812	6,4	75,2	10,0	16,2
			400	10xØ10	17	1016	6,4	60,2	8,0	20,3
		1	320	10xØ8	12	812	10,2	119,4	15,9	23,6
			400	10xØ10	17	1016	10,2	95,5	12,7	29,5
		1,6	320	10xØ8	12	812	16,2	191,0	25,5	44,9
			400	10xØ10	17	1016	16,2	152,8	20,4	41,6
		2	320	10xØ8	12	812	20,3	238,7	31,8	44,9
			400	10xØ10	17	1016	20,3	191,0	25,5	56,1
		2,5	320	10xØ8	12	812	25,4	298,4	39,8	53,4
			400	10xØ10	17	1016	25,4	238,7	31,8	56,1
		3	320	10xØ8	12	812	30,5	358,1	47,7	65,8
			400	10xØ10	17	1016	30,5	286,5	38,2	66,7
	2000	0,63	320	10xØ8	12	997	7,9	75,2	10,0	19,9
		1	320	10xØ8	12	997	12,5	119,4	15,9	29,0
		1,6	320	10xØ8	12	997	19,9	191,0	25,5	55,1
		2	320	10xØ8	12	997	24,9	238,7	31,8	55,1
		2,5	320	10xØ8	12	997	31,2	298,4	39,8	65,5
		3	320	10xØ8	12	997	37,4	358,1	47,7	80,7

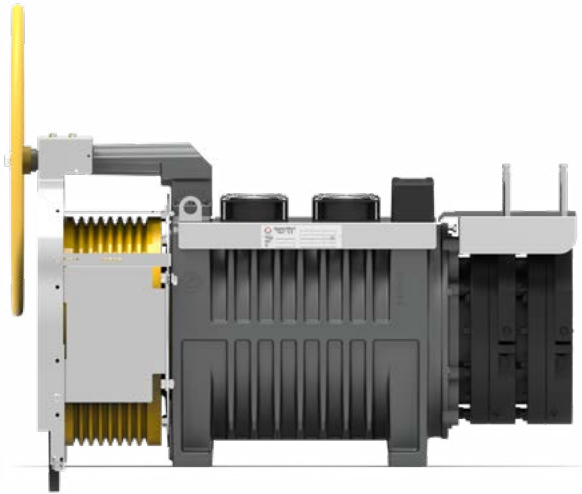
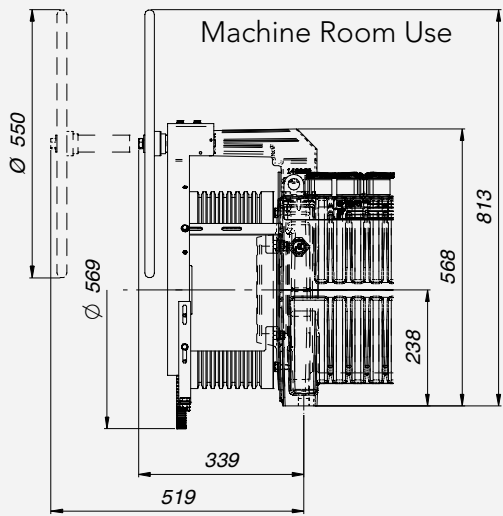
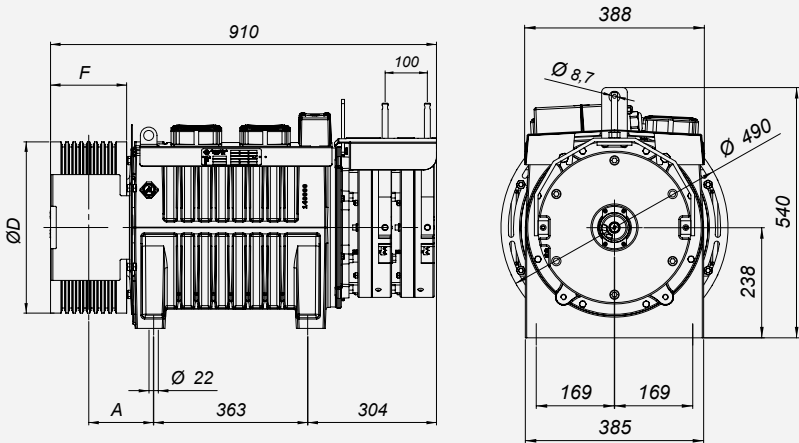
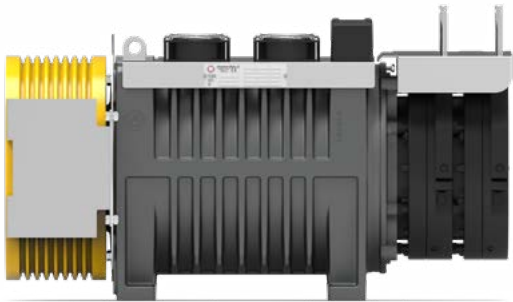




Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
1400 S5 - 40% ED 180 s/h	1900	16	Endat Sincos	10
Brake				
EMFR DC110V/2X2.03A [2X1400Nm]				



		Ropes			Dimensions
ØD	F	Ø	min - max	Pitch	A
mm	mm	mm	n°	mm	mm
320	180	8	3 - 10	12	153
400		10			
480		12	3 - 8	20	
520	145	13	3 - 7		

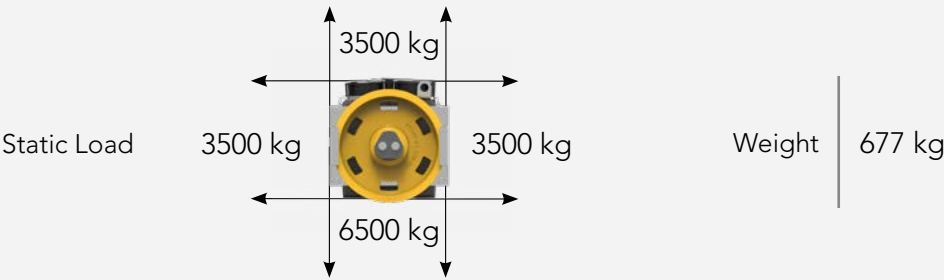
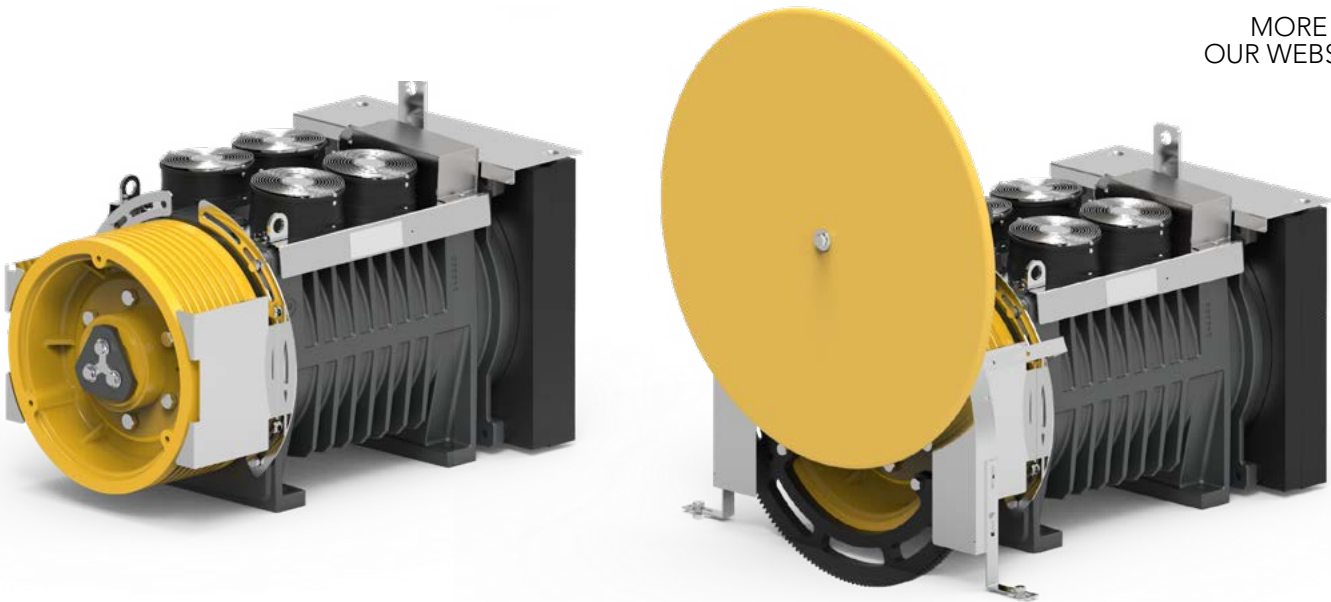


	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	1600	0,63	320	10xØ8	12	812	6,4	75,2	10,0	20,9
			400	10xØ10	17	1016	6,4	60,2	8,0	17,0
			480	9xØ12	20	1219	6,4	50,1	6,7	20,5
			520	6xØ13	20	1320	6,4	46,3	6,2	22,2
		1	320	10xØ8	12	812	10,2	119,4	15,9	23,2
			400	10xØ10	17	1016	10,2	95,5	12,7	26,1
			480	9xØ12	20	1219	10,2	79,6	10,6	31,3
			520	6xØ13	20	1320	10,2	73,5	9,8	34,0
		1,6	320	10xØ8	12	812	16,2	191,0	25,5	33,7
			400	10xØ10	17	1016	16,2	152,8	20,4	42,1
			480	9xØ12	20	1219	16,2	127,3	17,0	50,5
			520	6xØ13	20	1320	16,2	117,5	15,7	37,7
		2	320	10xØ8	12	812	20,3	238,7	31,8	41,8
			400	10xØ10	17	1016	20,3	191,0	25,5	42,1
			480	9xØ12	20	1219	20,3	159,2	21,2	50,5
			520	6xØ13	20	1320	20,3	146,9	19,6	54,7
		2,5	320	10xØ8	12	812	25,4	298,4	39,8	55,7
			400	10xØ10	17	1016	25,4	238,7	31,8	52,2
			480	9xØ12	20	1219	25,4	198,9	26,5	62,7
			520	6xØ13	20	1320	25,4	183,6	24,5	54,7
		3	400	10xØ10	17	1016	30,5	286,5	38,2	69,6
			480	9xØ12	20	1219	30,5	238,7	31,8	62,7
			520	6xØ13	20	1320	30,5	220,4	29,4	67,9
	2000	0,63	320	10xØ8	12	997	7,9	75,2	10,0	25,6
			400	10xØ10	17	1246	7,9	60,2	8,0	20,9
		1	320	10xØ8	12	997	12,5	119,4	15,9	28,5
			400	10xØ10	17	1246	12,5	95,5	12,7	32,1
		1,6	320	10xØ8	12	997	19,9	191,0	25,5	41,3
			400	10xØ10	17	1246	19,9	152,8	20,4	51,6
		2	320	10xØ8	12	997	24,9	238,7	31,8	51,3
			400	10xØ10	17	1246	24,9	191,0	25,5	51,6
		2,5	320	10xØ8	12	997	31,2	298,4	39,8	68,4
			400	10xØ10	17	1246	31,2	238,7	31,8	64,1
		3	400	10xØ10	17	1246	37,4	286,5	38,2	85,5
	2500	0,63	320	10xØ8	12	1228	9,7	75,2	10,0	31,6
		1	320	10xØ8	12	1228	15,3	119,4	15,9	35,1
		1,6	320	10xØ8	12	1228	24,6	191,0	25,5	50,9
		2	320	10xØ8	12	1228	30,7	238,7	31,8	63,2
		2,5	320	10xØ8	12	1228	38,4	298,4	39,8	84,2



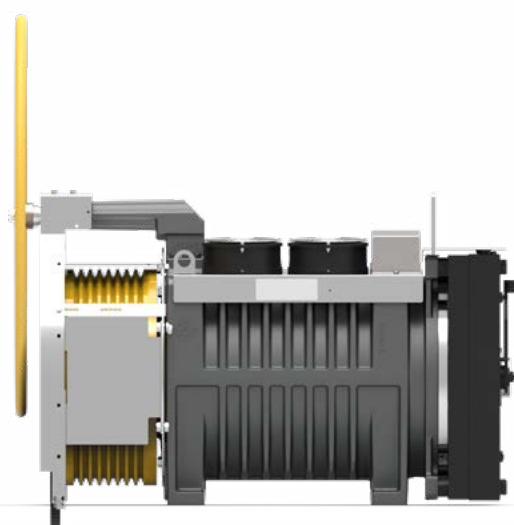
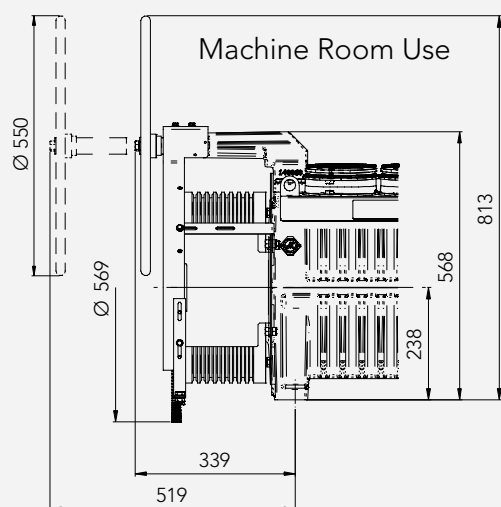
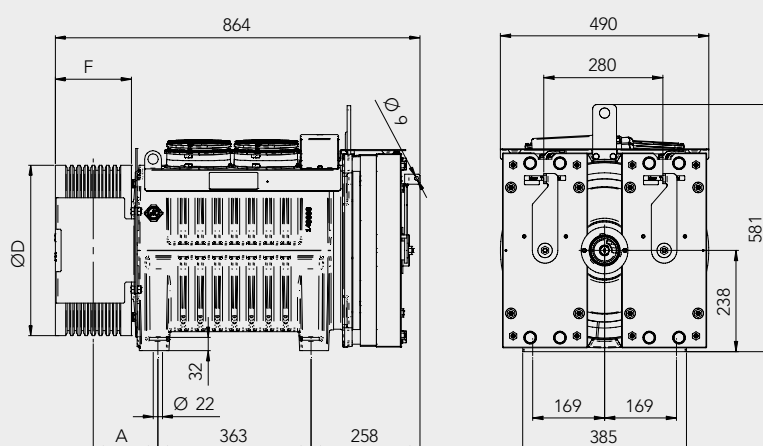
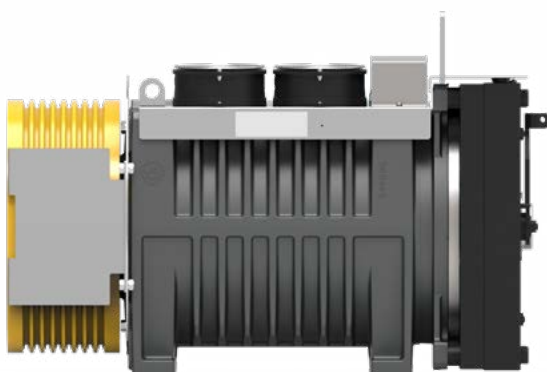


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Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
1620 S5 - 40% ED 180 s/h	1900	16	Endat Sincos	10
Brake				
RSR1500 [2x1700Nm] 2X165W - 207V _{DC}				

		Ropes			Dimensions
ØD	F	Ø	min - max	Pitch	A
mm	mm	mm	n°	mm	mm
320	180	8	3 - 10	17	153
400		10			
480		12	3 - 8	20	
520	145	13	3 - 7		



	Load		Ø	Ropes	Pitch	Torque	Power	RPM	Freq.	Current 360V
	kg	m/s	mm	max	mm	Nm	kW	RPM	Hz	A
2:1	2000	0,63	320	10xØ8	12	997	7,9	75,2	10,0	25,9
			400	10xØ10	17	1246	7,9	60,2	8,0	32,3
			480	9xØ12	20	1496	7,9	50,1	6,7	38,8
			520	6xØ13	20	1620	7,9	46,3	6,2	27,5
		1	320	10xØ8	12	997	12,5	119,4	15,9	28,9
			400	10xØ10	17	1246	12,5	95,5	12,7	32,3
			480	9xØ12	20	1496	12,5	79,6	10,6	38,8
			520	6xØ13	20	1620	12,5	73,5	9,8	42,0
		1,6	320	10xØ8	12	997	19,9	191,0	25,5	41,9
			400	10xØ10	17	1246	19,9	152,8	20,4	52,3
			480	9xØ12	20	1496	19,9	127,3	17,0	62,8
			520	6xØ13	20	1620	19,9	117,5	15,7	47,0
		2	320	10xØ8	12	997	24,9	238,7	31,8	52,3
			400	10xØ10	17	1246	24,9	191,0	25,5	52,3
			480	9xØ12	20	1496	24,9	159,2	21,2	62,8
			520	6xØ13	20	1620	24,9	146,9	19,6	68,0
		2,5	320	10xØ8	12	997	31,2	298,4	39,8	69,6
			400	10xØ10	17	1246	31,2	238,7	31,8	65,4
			480	9xØ12	20	1496	31,2	198,9	26,5	78,5
			520	6xØ13	20	1620	31,2	183,6	24,5	68,0
		3	400	10xØ10	17	1246	37,4	286,5	38,2	86,9
			480	9xØ12	20	1496	37,4	238,7	31,8	78,5
			520	6xØ13	20	1620	37,4	220,4	29,4	85,0
	2500	0,63	320	10xØ8	12	1228	9,7	75,2	10,0	31,8
			400	10xØ10	17	1535	9,7	60,2	8,0	39,8
		1	320	10xØ8	12	1228	15,3	119,4	15,9	35,6
			400	10xØ10	17	1535	15,3	95,5	12,7	39,8
		1,6	320	10xØ8	12	1228	24,6	191,0	25,5	51,5
			400	10xØ10	17	1535	24,6	152,8	20,4	64,4
		2	320	10xØ8	12	1228	30,7	238,7	31,8	64,4
			400	10xØ10	17	1535	30,7	191,0	25,5	64,4
		2,5	320	10xØ8	12	1228	38,4	298,4	39,8	85,7
			400	10xØ10	17	1535	38,4	238,7	31,8	80,5
		3	400	10xØ10	17	1535	46,0	286,5	38,2	107,1
	3000	0,63	320	10xØ8	12	1459	11,5	75,2	10,0	37,8
		1	320	10xØ8	12	1459	18,2	119,4	15,9	42,3
		1,6	320	10xØ8	12	1459	29,2	191,0	25,5	61,2
		2	320	10xØ8	12	1459	36,5	238,7	31,8	76,5
		2,5	320	10xØ8	12	1459	45,6	298,4	39,8	101,8

MONTANARI TEST TOWER IN ITALIAN HQ

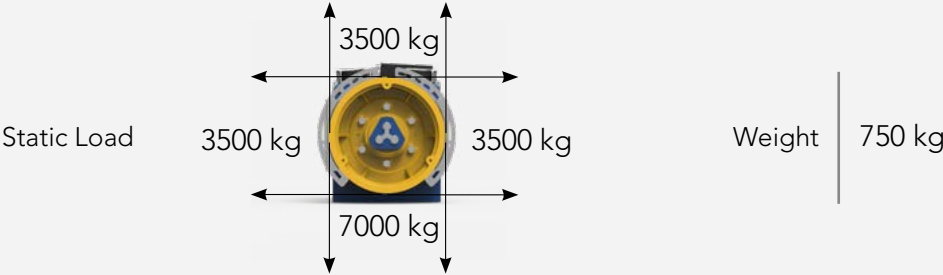
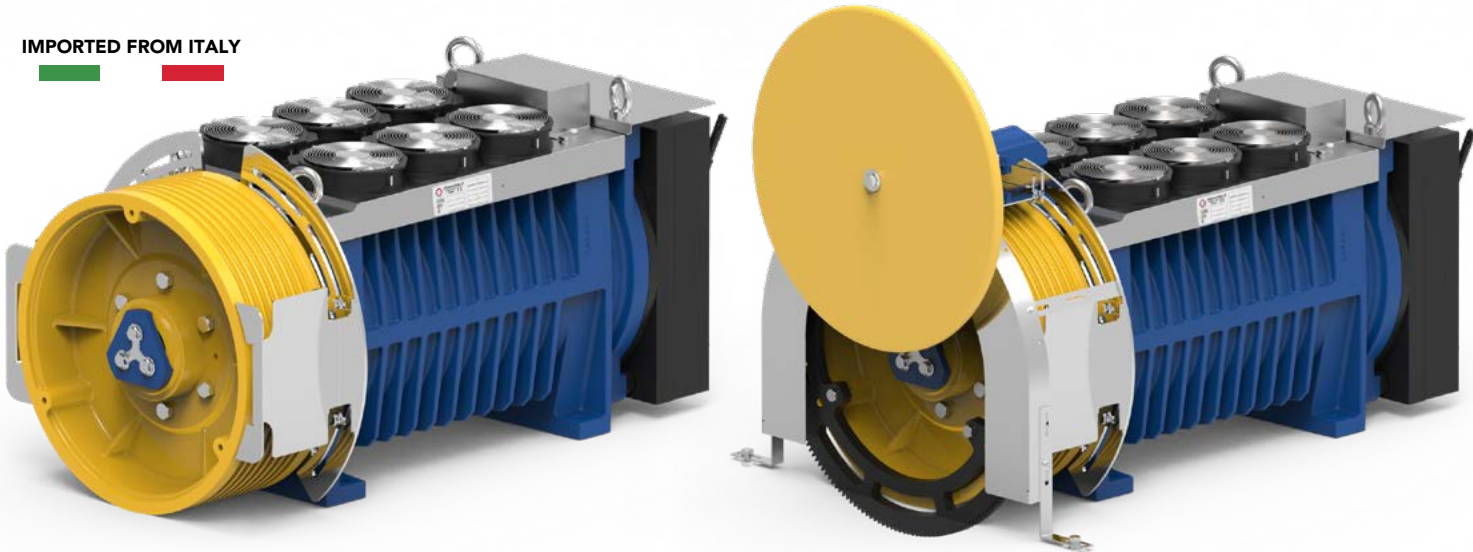
50M HIGH
3 SHAFTS

WE DON'T GUESS,
WE TEST!



MORE ON
OUR WEBSITE

IMPORTED FROM ITALY



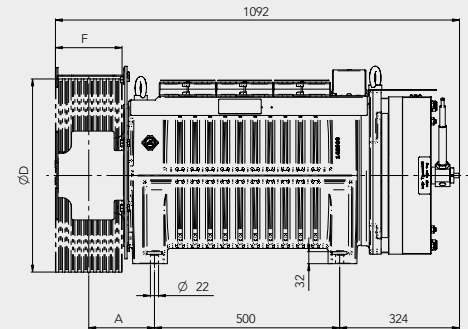
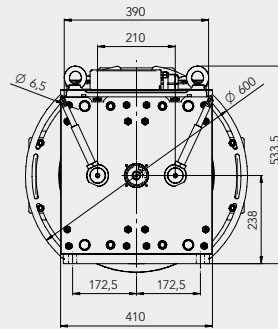
Nominal Torque	Short circuited torque	Poles	Encoder	Motor Cable
Nm	Nm			m
2200 S5 - 40% ED 180 s/h	2650	16	Endat Sincos SSI BISS	10
Brake				
RTW2000 [2x2200Nm] 2X178W - 207V _{DC}				

		Ropes			Dimensions
ØD	F	Ø	max	Pitch	A
mm	mm	mm	n°	mm	mm
400	180	10	10	17	177,5
440		11			
480		12	8	20	
520		13			

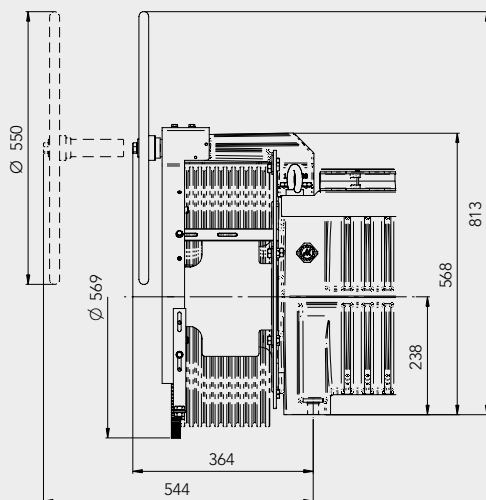
ROPING	PULLEY	LOAD								
		kg								
		1300	1375	1500	2500	2750	3000	5000	5500	6000
1:1	440									
	480									
	520									
2:1	440									
	480									
	520									
4:1	440									
	480									
	520									



IMPORTED FROM ITALY

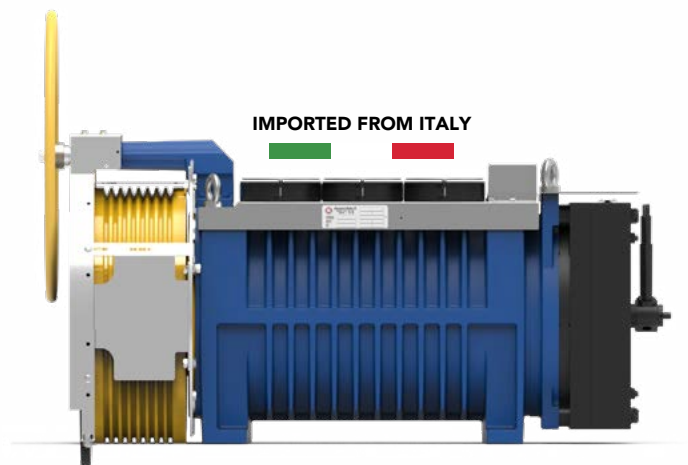


Machine Room Use



Emergency flywheel only with pulley:

400 - 480 - 520 mm



IMPORTED FROM ITALY



The MRL to MR switch kit is on demand.

1:1	Load		Ø	Torque	Power	RPM	Freq.	Current
	kg	m/s	mm	Nm	kW	RPM	Hz	A
1:1	1000	0,63	440	1422	4,1	27,3	3,6	27,1
			480	1551	4,1	25,1	3,3	29,6
			520	1680	4,1	23,1	3,1	32,1
		1	440	1422	6,5	43,4	5,8	27,1
			480	1551	6,5	39,8	5,3	29,6
			520	1680	6,5	36,7	4,9	32,1
		1,5	440	1422	9,7	65,1	8,7	37,5
			480	1551	9,7	59,7	8,0	29,6
			520	1680	9,7	55,1	7,3	32,1
		1,75	440	1422	11,3	76,0	10,1	37,5
			480	1551	11,3	69,6	9,3	40,9
			520	1680	11,3	64,3	8,6	44,3
		2	440	1422	12,9	86,8	11,6	37,5
			480	1551	12,9	79,6	10,6	40,9
			520	1680	12,9	73,5	9,8	44,3
		2,5	440	1422	16,2	108,5	14,5	45,9
			480	1551	16,2	99,5	13,3	50,1
			520	1680	16,2	91,8	12,2	44,3
		3	440	1422	19,4	130,2	17,4	45,9
			480	1551	19,4	119,4	15,9	50,1
			520	1680	19,4	110,2	14,7	54,2
		3,5	440	1422	22,6	151,9	20,3	54,9
			480	1551	22,6	139,3	18,6	59,9
			520	1680	22,6	128,5	17,1	54,2
		4	440	1422	25,9	173,6	23,1	71,7
			480	1551	25,9	159,2	21,2	59,9
			520	1680	25,9	146,9	19,6	64,9
	1300	0,63	440	1803	5,2	27,3	3,6	72,9
			480	1967	5,2	25,1	3,3	79,6
			520	2131	5,2	23,1	3,1	86,2
		1	440	1803	8,2	43,4	5,8	72,9
			480	1967	8,2	39,8	5,3	79,6
			520	2131	8,2	36,7	4,9	86,2
		1,5	440	1803	12,3	65,1	8,7	91,0
			480	1967	12,3	59,7	8,0	79,6
			520	2131	12,3	55,1	7,3	86,2
		1,75	440	1803	14,3	76,0	10,1	91,0
			480	1967	14,3	69,6	9,3	99,2
			520	2131	14,3	64,3	8,6	107,5
		2	440	1803	16,4	86,8	11,6	91,0
			480	1967	16,4	79,6	10,6	99,2
			520	2131	16,4	73,5	9,8	107,5
		2,5	440	1803	20,5	108,5	14,5	127,8
			480	1967	20,5	99,5	13,3	139,5
			520	2131	20,5	91,8	12,2	107,5
		3	440	1803	24,6	130,2	17,4	127,8
			480	1967	24,6	119,4	15,9	139,5
			520	2131	24,6	110,2	14,7	151,1
		3,5	440	1803	28,7	151,9	20,3	159,8
			480	1967	28,7	139,3	18,6	139,5
			520	2131	28,7	128,5	17,1	151,1
		4	440	1803	32,8	173,6	23,1	159,8
			480	1967	32,8	159,2	21,2	174,3
			520	2131	32,8	146,9	19,6	151,1
	1500	0,63	440	2057	5,9	27,3	3,6	83,2
		1	440	2057	9,3	43,4	5,8	83,2
		1,5	440	2057	14,0	65,1	8,7	103,8
		1,75	440	2057	16,4	76,0	10,1	103,8
		2	440	2057	18,7	86,8	11,6	103,8
		2,5	440	2057	23,4	108,5	14,5	145,8
		3	440	2057	28,0	130,2	17,4	145,8
		3,5	440	2057	32,7	151,9	20,3	182,3
		4	440	2057	37,4	173,6	23,1	182,3

2:1	Load		Ø	Torque	Power	RPM	Freq.	Current
	kg	m/s	mm	Nm	kW	RPM	Hz	A
2000	0,63		440	1422	8,1	54,7	7,3	27,1
			480	1551	8,1	50,1	6,7	29,6
			520	1680	8,1	46,3	6,2	32,1
	1		440	1422	12,9	86,8	11,6	37,5
			480	1551	12,9	79,6	10,6	40,9
			520	1680	12,9	73,5	9,8	44,3
	1,5		440	1422	19,4	130,2	17,4	45,9
			480	1551	19,4	119,4	15,9	50,1
			520	1680	19,4	110,2	14,7	54,2
	1,75		440	1422	22,6	151,9	20,3	54,9
			480	1551	22,6	139,3	18,6	59,9
			520	1680	22,6	128,5	17,1	54,2
	2		440	1422	25,9	173,6	23,1	71,7
			480	1551	25,9	159,2	21,2	59,9
			520	1680	25,9	146,9	19,6	64,9
	2,5		440	1422	32,3	217,0	28,9	100,8
			480	1551	32,3	198,9	26,5	78,3
			520	1680	32,3	183,6	24,5	84,8
	3		440	1422	38,8	260,4	34,7	100,8
			480	1551	38,8	238,7	31,8	110,0
			520	1680	38,8	220,4	29,4	119,2
	3,5		480	1551	45,2	278,5	37,1	110,0
			520	1680	45,2	257,1	34,3	119,2
			520	1680	51,7	293,8	39,2	119,2
	4		440	1739	10,0	54,7	7,3	54,7
			480	1897	10,0	50,1	6,7	50,1
			520	2055	10,0	46,3	6,2	46,3
2500	1		440	1739	15,8	86,8	11,6	86,8
			480	1897	15,8	79,6	10,6	79,6
			520	2055	15,8	73,5	9,8	73,5
	1,5		440	1739	23,7	130,2	17,4	130,2
			480	1897	23,7	119,4	15,9	119,4
			520	2055	23,7	110,2	14,7	110,2
	1,75		440	1739	27,7	151,9	20,3	151,9
			480	1897	27,7	139,3	18,6	139,3
			520	2055	27,7	128,5	17,1	128,5
	2		440	1739	31,6	173,6	23,1	173,6
			480	1897	31,6	159,2	21,2	159,2
			520	2055	31,6	146,9	19,6	146,9
	2,5		440	1739	39,5	217,0	28,9	217,0
			480	1897	39,5	198,9	26,5	198,9
			520	2055	39,5	183,6	24,5	183,6
	3		440	1739	47,4	260,4	34,7	260,4
			480	1897	47,4	238,7	31,8	238,7
			520	2055	47,4	220,4	29,4	220,4
	3,5		480	1897	55,3	278,5	37,1	278,5
			520	2055	55,3	257,1	34,3	257,1
			520	2055	63,2	293,8	39,2	293,8
3000	0,63		440	2057	11,8	54,7	7,3	39,3
	1		440	2057	18,7	86,8	11,6	54,2
	1,5		440	2057	28,0	130,2	17,4	66,4
	1,75		440	2057	32,7	151,9	20,3	79,5
	2		440	2057	37,4	173,6	23,1	103,8
	2,5		440	2057	46,7	217,0	28,9	145,8
	3		440	2057	56,1	260,4	34,7	145,8

4:1	Load		Ø	Torque	Power	RPM	Freq.	Current
	kg	m/s	mm	Nm	kW	RPM	Hz	A
4:1	4000	0,5	440	1422	12,9	86,8	11,6	37,5
			480	1551	12,9	79,6	10,6	40,9
			520	1680	12,9	73,5	9,8	44,3
		0,63	440	1422	16,3	109,4	14,6	45,9
			480	1551	16,3	100,3	13,4	50,1
			520	1680	16,3	92,6	12,3	44,3
		1	440	1422	25,9	173,6	23,1	71,7
			480	1551	25,9	159,2	21,2	59,9
			520	1680	25,9	146,9	19,6	64,9
		1,5	440	1422	38,8	260,4	34,7	100,8
			480	1551	38,8	238,7	31,8	110,0
			520	1680	38,8	220,4	29,4	119,2
		1,6	440	1422	41,4	277,8	37,0	100,8
			480	1551	41,4	254,6	34,0	110,0
			520	1680	41,4	235,1	31,3	119,2
		1,75	480	1551	45,2	278,5	37,1	110,0
			520	1680	45,2	257,1	34,3	119,2
		2	520	1680	51,7	293,8	39,2	119,2
	5000	0,5	440	1739	15,8	86,8	11,6	47,4
			480	1897	15,8	79,6	10,6	51,7
			520	2055	15,8	73,5	9,8	56,1
		0,63	440	1739	19,9	109,4	14,6	56,1
			480	1897	19,9	100,3	13,4	61,2
			520	2055	19,9	92,6	12,3	56,1
		1	440	1739	31,6	173,6	23,1	87,8
			480	1897	31,6	159,2	21,2	76,8
			520	2055	31,6	146,9	19,6	83,2
		1,5	440	1739	47,4	260,4	34,7	123,3
			480	1897	47,4	238,7	31,8	134,5
			520	2055	47,4	220,4	29,4	145,8
		1,6	440	1739	50,6	277,8	37,0	123,3
			480	1897	50,6	254,6	34,0	134,5
			520	2055	50,6	235,1	31,3	145,8
		1,75	480	1897	55,3	278,5	37,1	134,5
			520	2055	55,3	257,1	34,3	145,8
		2	520	2055	63,2	293,8	39,2	145,8
	6000	0,5	440	2057	18,7	86,8	11,6	56,1
		0,63	440	2057	23,6	109,4	14,6	66,4
		1	440	2057	37,4	173,6	23,1	103,8
		1,5	440	2057	56,1	260,4	34,7	145,8
		1,6	440	2057	59,8	277,8	37,0	145,8

BELT GEARLESS RANGE OVERVIEW



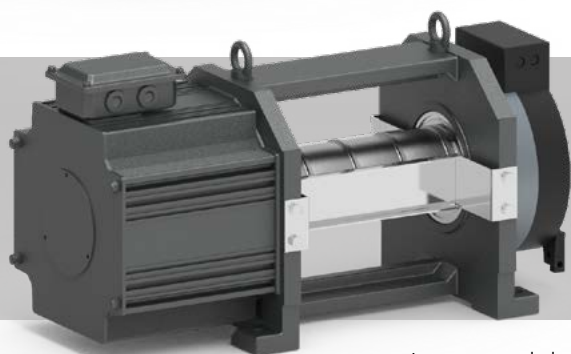
MDG45



MDG45-FG



MDG63



MDG100

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static load
2000 kg

load
450 kg

speed
up to 1 m/s

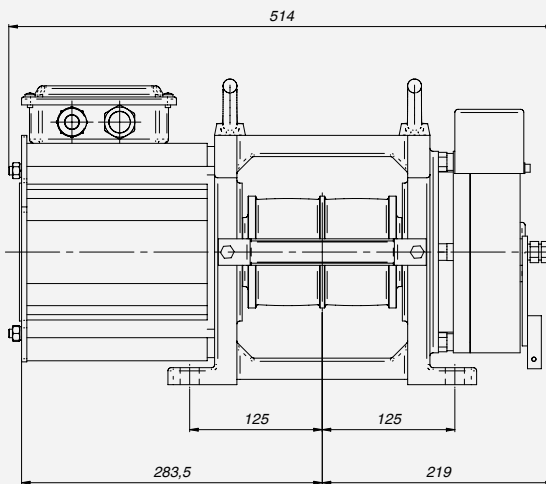
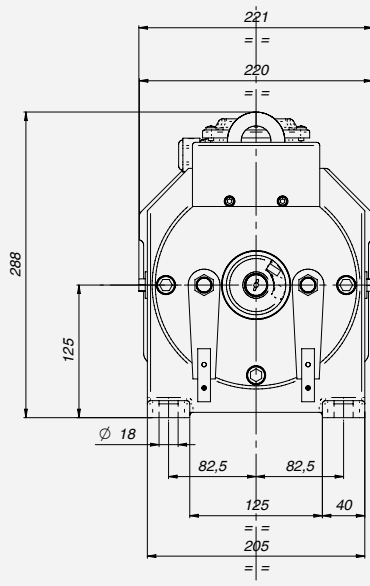
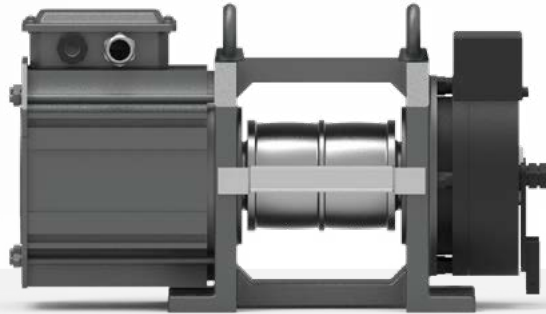
sheave
100 mm

weight
90 kg

Encoder	Poles	Nominal Torque	IP Code	BELT		
				Width	min - max	Pitch
		Nm		mm	n°	mm
ECN 1313 ERN 1387	16	74 S5-25%	IP41	60	2	65
Brake						
[2x125Nm] - 154W - DC110V/1.4A						

	Load		Sheave				Torque	Power	RPM	Freq.	Current 380V	Current 220V
			Ø	Width	n	Pitch						
	kg	m/s	mm	mm		mm	Nm	kW	RPM	Hz	A	A
2:1	260	0,30	100	60	2	65	43	0,5	115	15,3	2,7	4,3
		0,40						0,7	153	20,4	2,7	4,3
		0,50						0,9	191	25,5	2,7	5,5
		0,63						1,1	241	32,1	2,7	5,5
		1,00						1,7	382	50,9	4,3	7,9
	320	0,30					53	0,6	115	15,3	3,4	5,3
		0,40						0,8	153	20,4	3,4	5,3
		0,50						1,1	191	25,5	3,4	6,8
		0,63						1,3	241	32,1	3,4	6,8
		1,00						2,1	382	50,9	5,3	9,8
	400	0,30					66	0,8	115	15,3	4,2	6,6
		0,40						1,1	153	20,4	4,2	6,6
		0,50						1,3	191	25,5	4,2	8,5
		0,63						1,7	241	32,1	4,2	8,5
		1,00						2,6	382	50,9	6,6	12,2
	450	0,30					74	0,9	115	15,3	4,8	7,4
		0,40						1,2	153	20,4	4,8	7,4
		0,50						1,5	191	25,5	4,8	9,5
		0,63						1,9	241	32,1	4,8	9,5
		1,00						3,0	382	50,9	7,4	13,7

- 1 - The values are obtained considering system balanced at the 45%
2 - Data are subject to change without prior notice





static load
2000 kg

load
450 kg

speed
up to 1 m/s

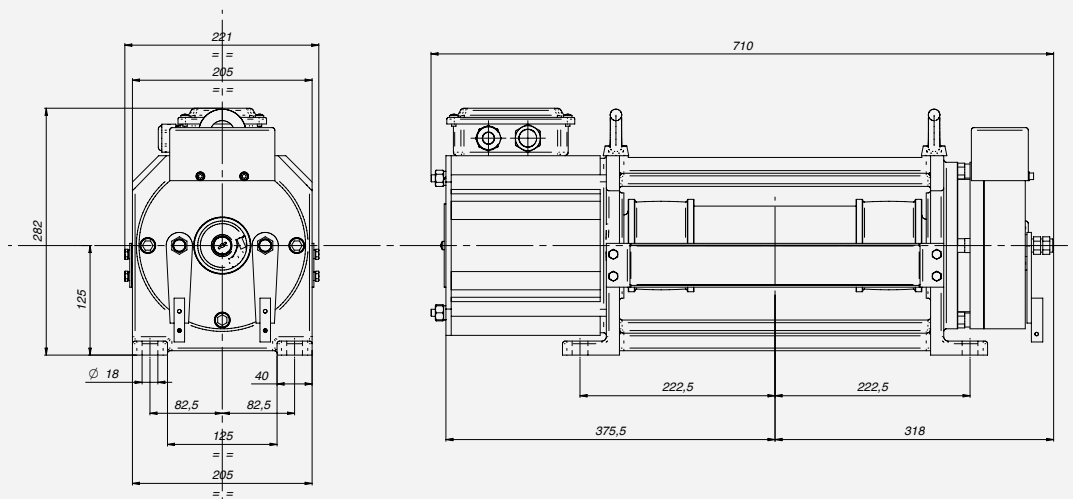
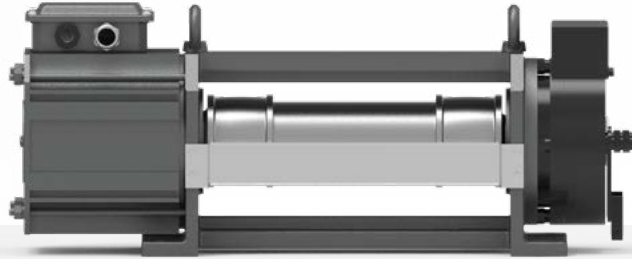
sheave
100 mm

weight
95 kg

Encoder	Poles	Nominal Torque	IP Code	BELT		
				Width	min - max	Pitch
		Nm		mm	n°	mm
ECN 1313 ERN 1387	16	74 S5-25%	IP41	60	2	260
Brake						
[2x125Nm] - 154W - DC110V/1.4A						

	Load		Sheave				Torque	Power	RPM	Freq.	Current 380V	Current 220V
			Ø	Width	n	Pitch						
	kg	m/s	mm	mm		mm	Nm	kW	RPM	Hz	A	A
2:1	260	0,30	100	60	2	65	43	0,5	115	15,3	2,7	4,3
		0,40						0,7	153	20,4	2,7	4,3
		0,50						0,9	191	25,5	2,7	5,5
		0,63						1,1	241	32,1	2,7	5,5
		1,00						1,7	382	50,9	4,3	7,9
	320	0,30					53	0,6	115	15,3	3,4	5,3
		0,40						0,8	153	20,4	3,4	5,3
		0,50						1,1	191	25,5	3,4	6,8
		0,63						1,3	241	32,1	3,4	6,8
		1,00						2,1	382	50,9	5,3	9,8
	400	0,30					66	0,8	115	15,3	4,2	6,6
		0,40						1,1	153	20,4	4,2	6,6
		0,50						1,3	191	25,5	4,2	8,5
		0,63						1,7	241	32,1	4,2	8,5
		1,00						2,6	382	50,9	6,6	12,2
	450	0,30					74	0,9	115	15,3	4,8	7,4
		0,40						1,2	153	20,4	4,8	7,4
		0,50						1,5	191	25,5	4,8	9,5
		0,63						1,9	241	32,1	4,8	9,5
		1,00						3,0	382	50,9	7,4	13,7

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static load
2000 kg

load
630 kg

speed
up to 1 m/s

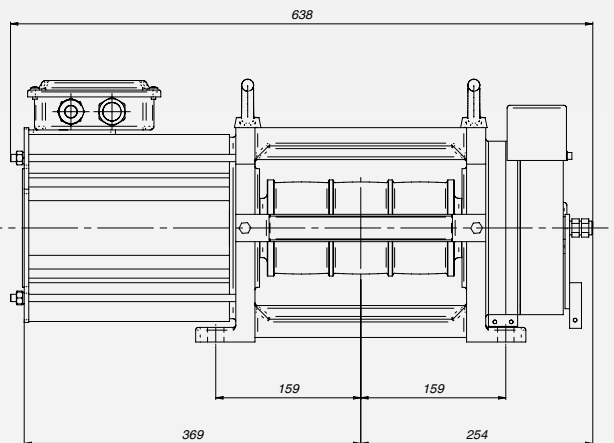
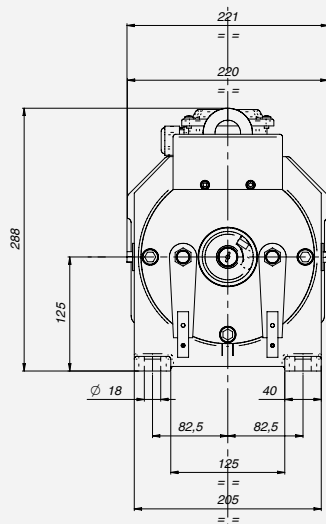
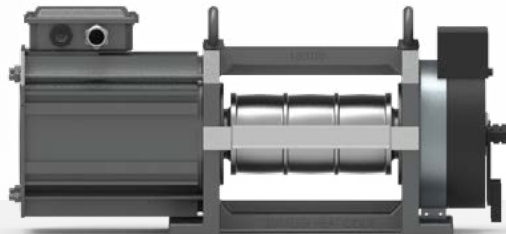
sheave
100 mm

weight
120 kg

Encoder	Poles	Nominal Torque	IP Code	BELT		
				Width	min - max	Pitch
		Nm		mm	n°	mm
ECN 1313 ERN 1387	16	104 S5-40%	IP41	60	3	65
Brake						
[2x125Nm] - 154W - DC110V/1.4A						

2:1	Load		Sheave				Torque	Power	RPM	Freq.	Current 380V	Current 220V
			Ø	Width	n	Pitch						
	kg	m/s	mm	mm		mm	Nm	kW	RPM	Hz	A	A
	630	0,30	100	60	3	65	104	1,2	115	15,3	5,0	8,7
		0,40						1,7	153	20,4	5,0	8,7
		0,50						2,1	191	25,5	7,0	11,9
		0,63						2,6	241	32,1	7,0	11,9
		0,75						3,1	286	38,2	8,7	16,9
		1,00						4,1	382	50,9	8,7	16,9

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static load
2100 kg

load
1000 kg

speed
up to 1 m/s

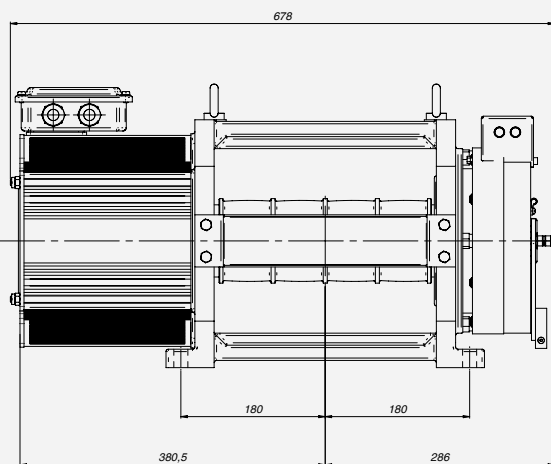
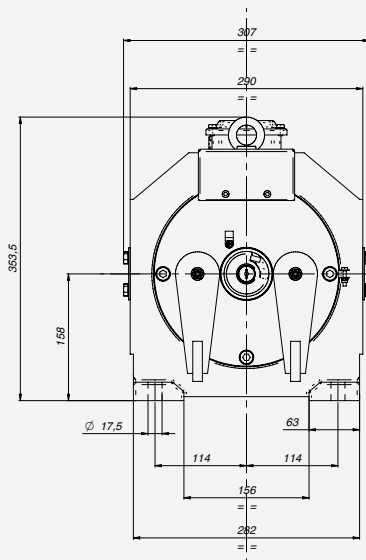
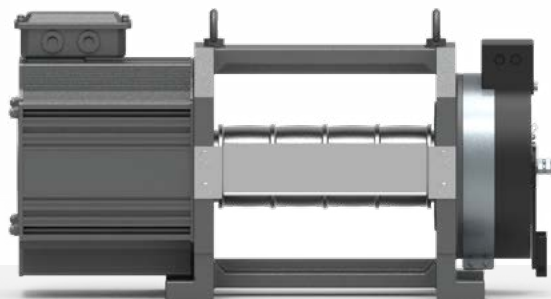
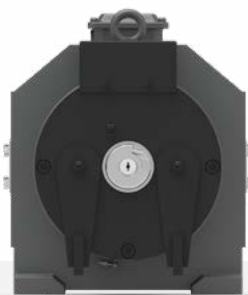
sheave
100 mm

weight
140 kg

Encoder	Poles	Nominal Torque	IP Code	BELT		
				Width	min - max	Pitch
		Nm		mm	n°	mm
ECN 1313 ERN 1387	16	164 S5-40%	IP41	60	4	65
Brake						
[2x200Nm] - 209W - DC110V/1.9A						

2:1	Load		Sheave				Torque	Power	RPM	Freq.	Current 380V	Current 220V
			Ø	Width	n	Pitch						
	kg	m/s	mm	mm		mm	Nm	kW	RPM	Hz	A	A
800	0,4	0,4	100	60	4	65	131	2,03	153	20,4	9,3	5,9
		0,5						2,54	191	25,5	14,7	7,4
		1,0						5,08	382	50,9	19,3	9,3
	0,4	0,4					164	2,54	153	20,4	11,6	6,8
		0,5						3,17	191	25,5	18,4	9,2
		1,0						6,35	382	50,9	24,3	11,6

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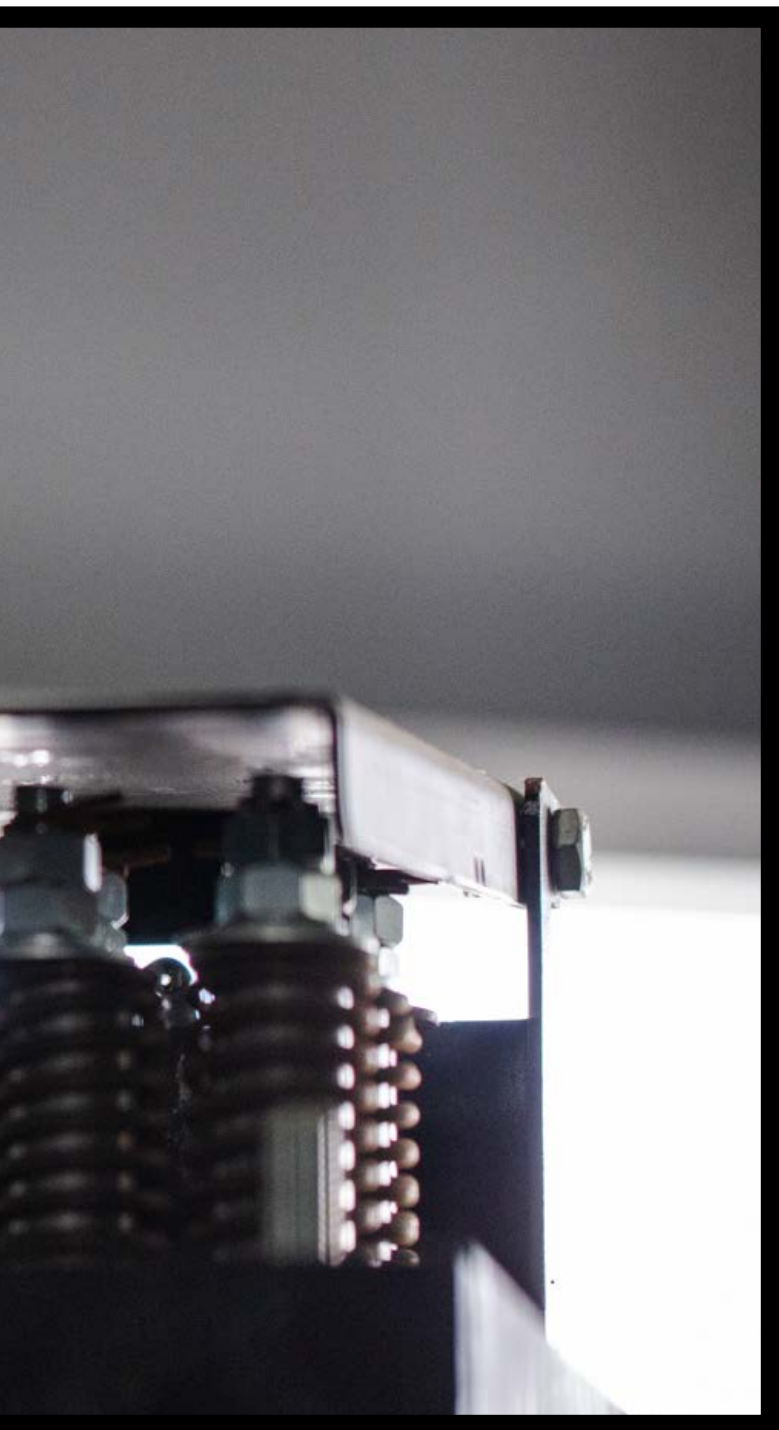


Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

SAFETY





SAFETY IS A PRIORITY.

**WE START FROM THIS
PREMISE FOR THE
DESIGN OF EVERY
MINIMUM DETAIL.**

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Latest updated material are available on our official channels or upon request.
All images shown are for representation purposes only.



Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

SPEED GOVERNORS

TECHNICAL FEATURES

The speed governors manufactured by Montanari can be used for cabin or counterweight safety gears. Operation can be in both downward and upward direction. The choice of the desired model is possible from the selection table.

Different accessories are available depending on the model of speed governor:

- remote control;
- anticreeping;
- encoder;
- phonic wheel;
- protection cover.

GENERAL NOTES

Speed governors compliant with Directive 95/16/CE - 2014/33/UE.
Orders should specify operation speed V and tripping speed V1.
GROOVES
On request for all speed governors the ≥ 50 HRC hardness heat-treated groove can be supplied.
ELECTROMAGNET
Characteristics for the remote control electromagnet (CR):
12 – 24 – 48 D.C. Volts, 230 A.C. Volts. ED 10%
CONTACT CHARACTERISTICS
Standard
Manual reset
AC 15 - 230V – 6A / DC 13 – 48V – 2A
OPTIONAL - IP65
Manual reset
AC15 – 230V – 4A

KEY TO SYMBOLS

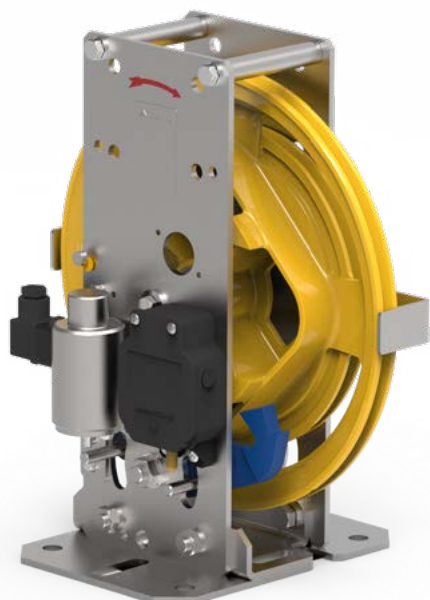
Vn m/s	nominal speed
V1 m/s	tripping speed
BA	Type of base
	1 = standard
	3 = narrow
Ø PUL	pulley diameter
M	handside
	DX = right, SX = left
BD	bi-directional
CR	remote control
FC	limit switch
CT	contact type
	A: 1 standard elec. Contact
N	no
S	yes

On request speed governors can be supplied in other configurations apart from those illustrated in this catalogue.

RANGE		RQ			RQ-A			NOR
MODEL		RQ200	RQ250	RQ300	RQ-A200	RQ-A250	RQA-300	NOR
SHEAVE DIAMETER	mm	200	250	300	200	250	300	300
ROPES	mm	6 - 6,5	6 - 8		6 - 6,5		6 - 6,5 - 8	6 - 8
TEST SHEAVE		YES			YES			YES
RATED SPEED	m/sec	≤ 1,60	≤ 2,00	≤ 2,40	0,15 - 2,00	0,30 - 2,50	0,30 - 3,00	0,30 - 1,50
TRIPPING SPEED	m/sec	0,5 - 2	0,63 - 2,50	0,75 - 3	0,30 - 2,60	0,50 - 3,23	0,50 - 3,45	0,40 - 2,00
DRIVE SYSTEM		HARPOON			HARPOON			HARPOON
		MONO/BIDIRECTIONAL			MONO/BIDIRECTIONAL			MONODIRECTIONAL
BASE		STANDARD			STANDARD			STANDARD
BOLT HOLES PITCH CIRCLE	mm	130			170			219
BOLT SLOT PITCH CIRCLE	mm	163						-
BASE		NARROW			NARROW			-
BOLT HOLES PITCH CIRCLE	mm	132			132			

COMPONENTS								
REMOTE CONTROL		OPTIONAL			OPTIONAL			-
ENCODER		OPTIONAL			OPTIONAL			-
ANTICREEPING		OPTIONAL			OPTIONAL			-
COVER		OPTIONAL			OPTIONAL			
LIMIT SWITCH		-			-			-
PHONIC WHEEL		OPTIONAL			OPTIONAL			-
SPECIAL EXECUTION		RQ200	RQ250	RQ300	RQ-A200	RQ-A250	RQA-300	NOR
REDUCED HEIGHT		OPTIONAL	-	-	OPTIONAL	-	-	-
HANGING		OPTIONAL			OPTIONAL			
REDUCED HEIGHT/HANGING		OPTIONAL	-	-	OPTIONAL	-	-	

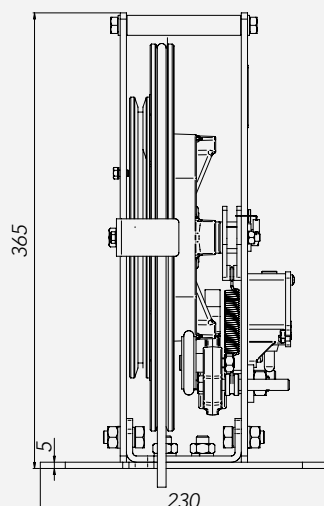
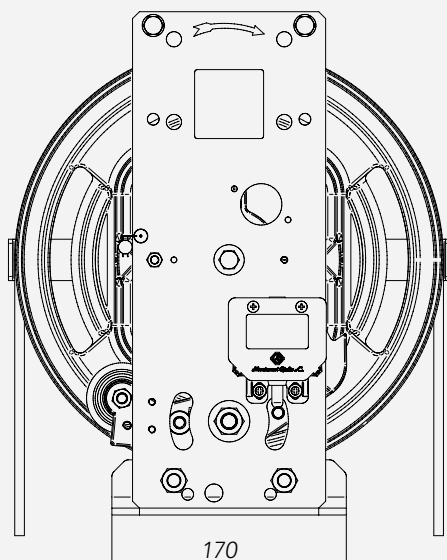
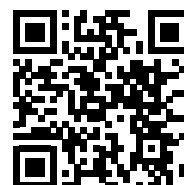




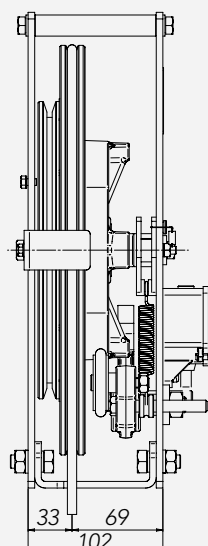
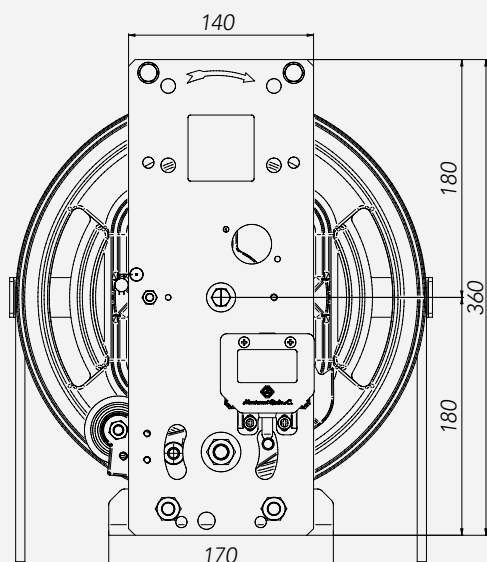
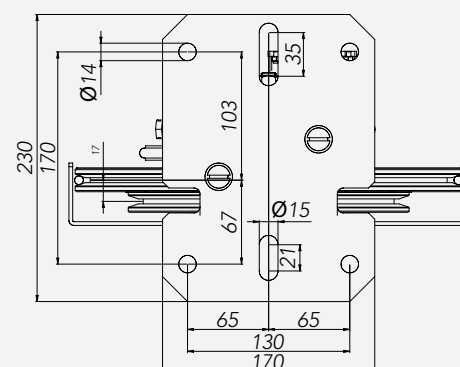
RQ	Vn	Ø Rope
mm	m/s	mm
200	≤ 1,60	6 - 6,5
250	≤ 2,00	6 - 8
300	≤ 2,40	6 - 8

+
on request
anticreeping
encoder
remote control
phonic wheel

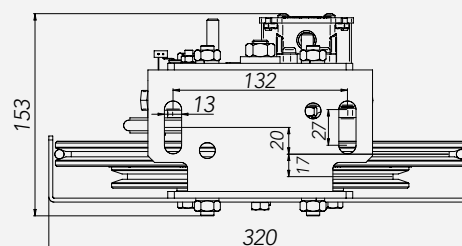
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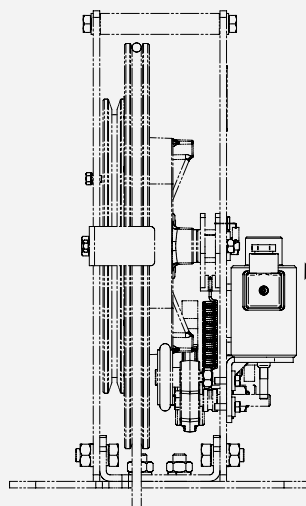
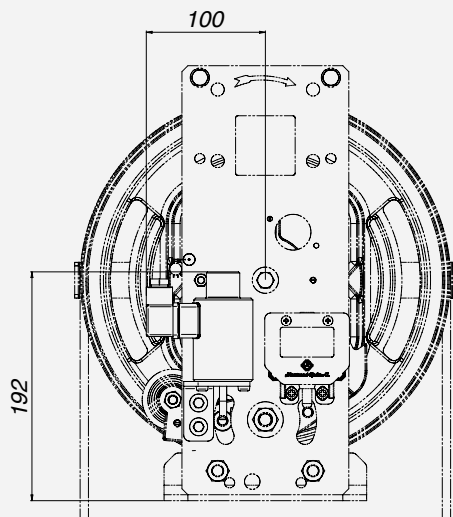


STANDARD BASE

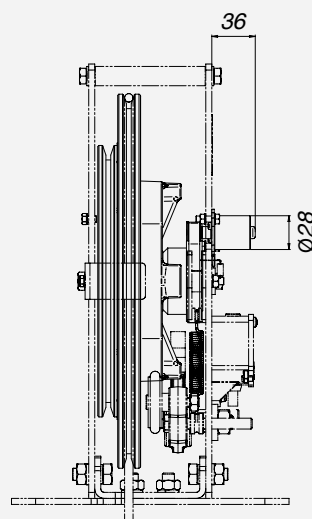
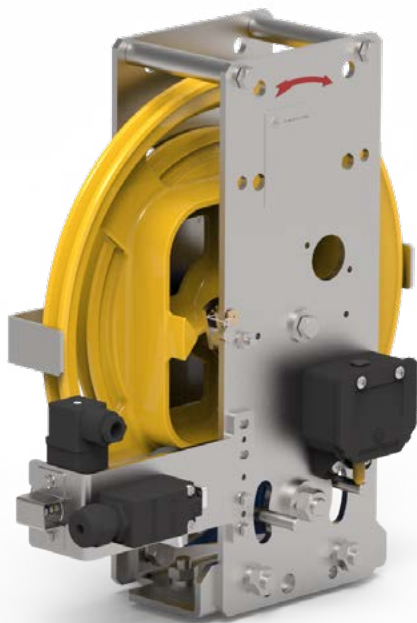
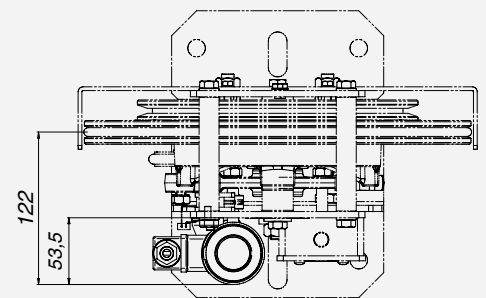


NARROW BASE

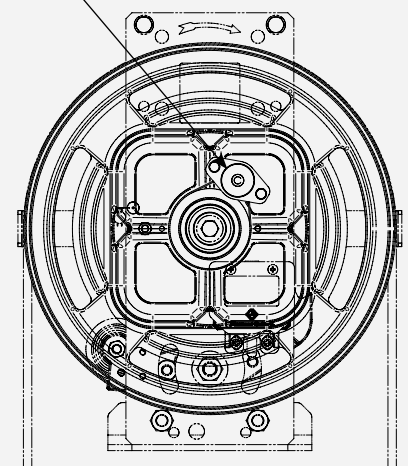




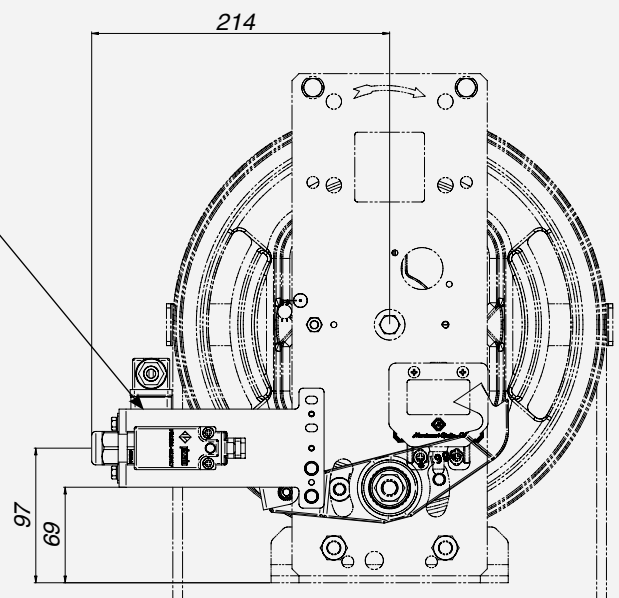
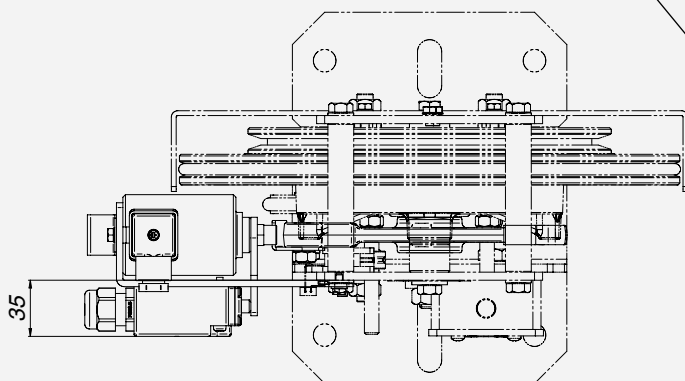
REMOTE CONTROL



ENCODER



ANTICREEPING



PHONIC WHEEL



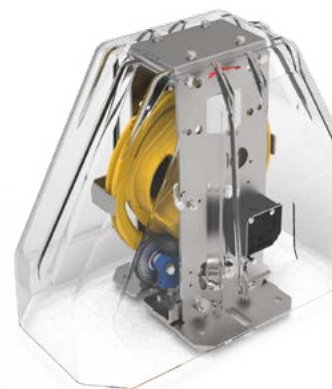
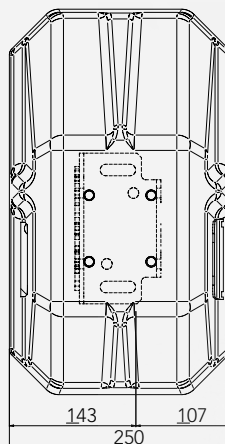
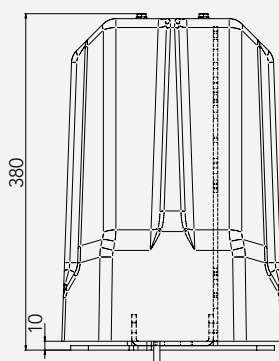
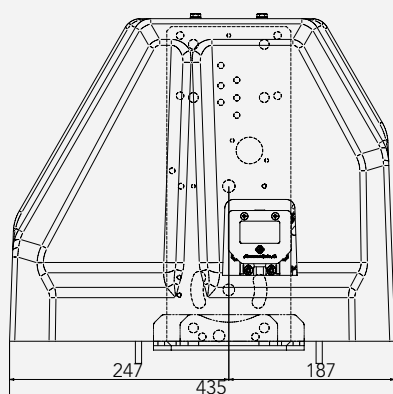
300mm

250mm

200mm

TECHNICAL FEATURES

INDUCTIVE SENSOR		PNP
SUPPLY	Vdc	10-30 V
	IoutMAX	100 mA
RESOLUTION		10,5 mm/pulse
POSSIBILITY TO ADD A FURTHER SENSOR AT 90° FOR DIRECTION CONTROL		



ART. PE0000521

ANTI-CREEPING - Electrical data

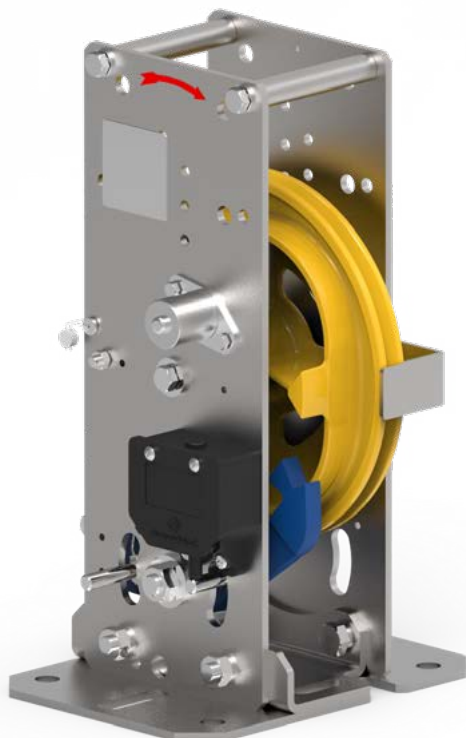
ARTICLE	ELECTROMAGNET	CONTACT OF ANTI-CREEPING	CONTACT OF THE SPEED-GOVERNOR
RQxxxxxx50xx3	12 Vdc 100% ED 0,95 A 20° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with manual reset 2NC, AC-15, Ue/Ie 400 V / 3 A 2NC, DC-13, Ue/Ie 24 V / 10 A IP54
RQxxxxxx51xx3	24 Vdc 100% ED 0,48 A 20° C IP 41		
RQxxxxxx52xx3	48 Vdc 100% ED 0,24 A 20° C IP 41		
RQxxxxxx59xx3	230 Vac 100% ED 0,06 A 10° C IP 41		
RQxxxxxx51xx4	24 Vdc 100% ED 0,48 A 20° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with electrical reset 2NC, DC-13, Ue/Ie 24 V / 6 A Electromagnet 24 V DC – 15% / + 10%, 4,2 A -15% 3% ED, IP67
RQxxxxxx52xx4	48 Vdc 100% ED 0,24 A 20° C IP 41		Contact with electrical reset 2NC, DC-13, Ue/Ie 24 V / 6 A Electromagnet 48 V DC – 15% / + 10%, 2,1 A -15% 3% ED, IP67
RQxxxxxx59xx4	230 Vac 100% ED 0,06 A 10° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with electrical reset 2NC, DC-15, Ue/Ie 250 V / 6 A Electromagnet 230 V AC – 15% / + 10%, 0,5 A -15% 3% ED, IP67

RQ		AAA	B	C	D	E	FF	GG	H
AAA	200	PULLEY	Ø 200 mm						
	250		Ø 250 mm						
	300		Ø 300 mm						
B	M	DRIVE SYSTEM	Monodirectional						
	B		Bidirectional						
C	D	TRIPPING CONFIGURATION	Clockwise						
	S		AntiClockwise						
D	0	BASE	Standard						
	1		Narrow						
E	0	Vn	< 1,60 m/s						
	5		≥ 1,60 m/s						
Optional									
FF	00	REMOTE CONTROL	NO					H=4 or C	
	01		12V DC						
	02		24V DC						
	03		48V DC						
	10		230V AC						
	50	ANTICREEPING	12V DC					H=3 or 4 or C	
	51		24V DC						
	52		48V DC						
	59		230V AC						
GG	00	CONFIGURATION	NO						
	01		Encoder standard						
	05		Phonic wheel						
H	0	OPTIONAL	Standard contact 1NC						
	3		Contact with manual reset 2NC						
	4		Contact with electrical reset 2NC						
	C		Contact with automatic reset Vn ≤ 1,0 m/s - 2NC						

ENCODER DATA

RQ-A	PRECISION	CABLE LENGTH
mod.	mm/pulse	m
200	0,14	7
250	0,18	
300	0,21	

ENCODER STANDARD (COD. GG = 01): 1024 IMPULS REV.
 BIDIRECTIONAL + 0 LINE DRIVER (AD26LS31) 5V ÷ 30V



RQ-A	Vn		Ø Rope
mm	m/s		mm
	min	max	
200	0,15	≤ 2,00	6 - 6,5
250	0,30	≤ 2,50	6 ÷ 8
300	0,30	≤ 3,00	

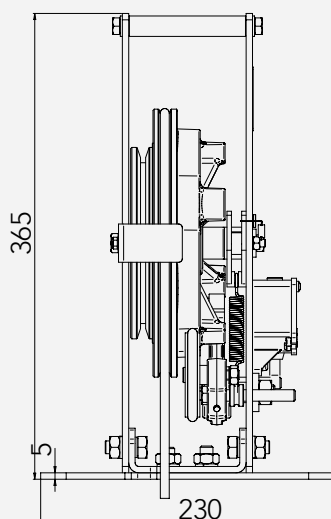
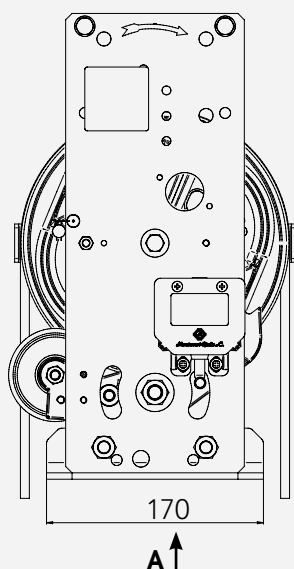


on request

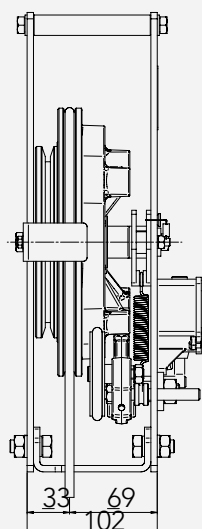
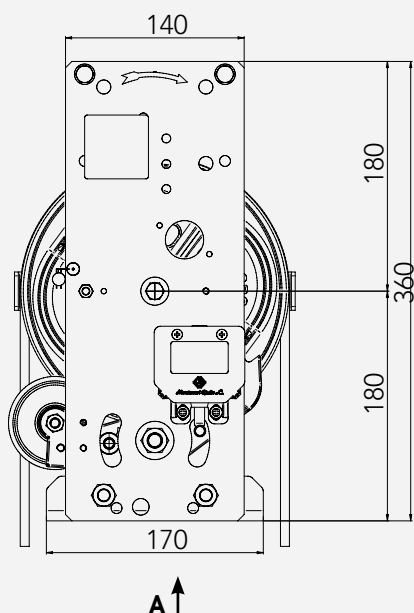
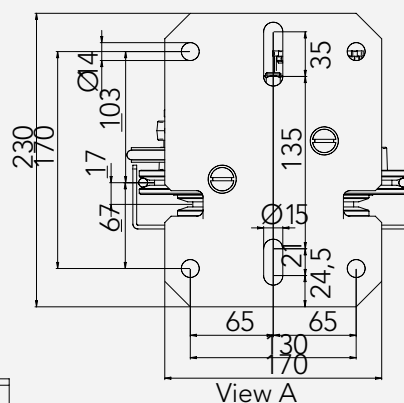
anticreeping
encoder
remote control
phonic wheel



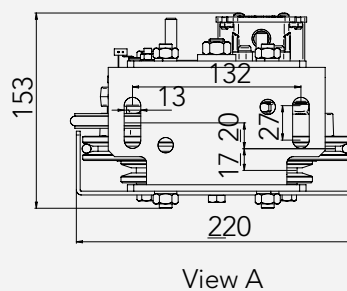
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STANDARD BASE



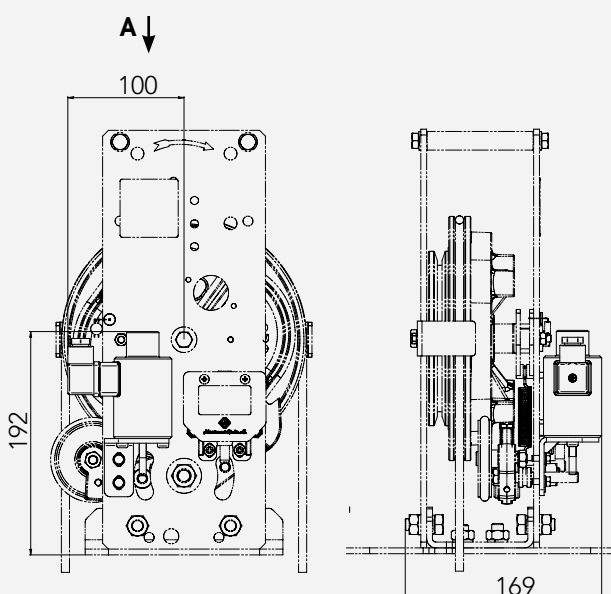
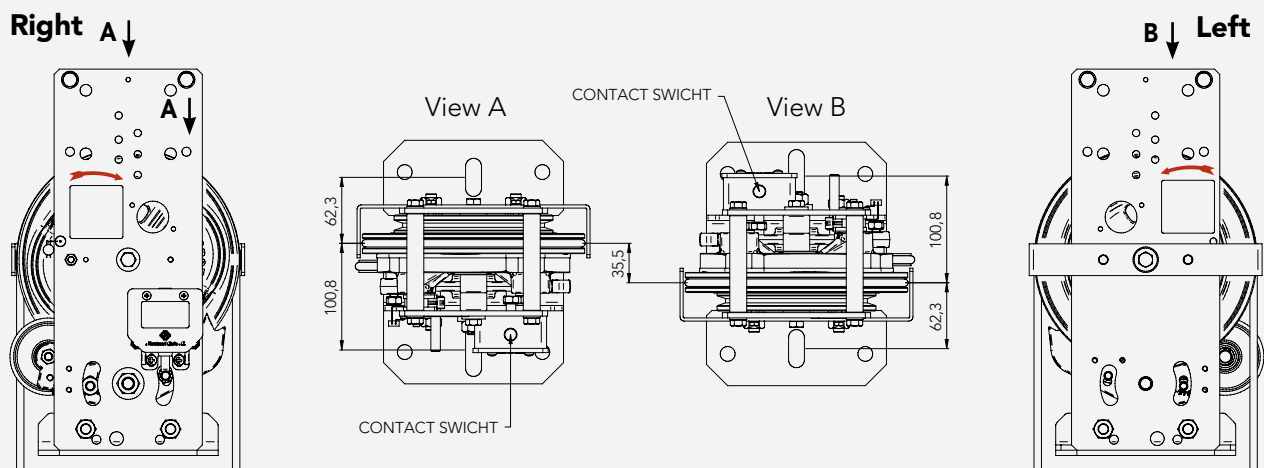
NARROW BASE



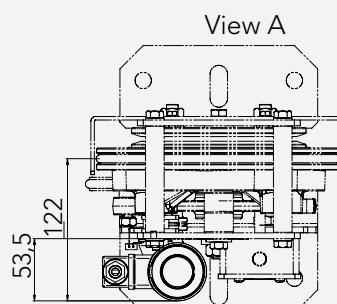
IMPORTANT

One way RQ-A: handside definition

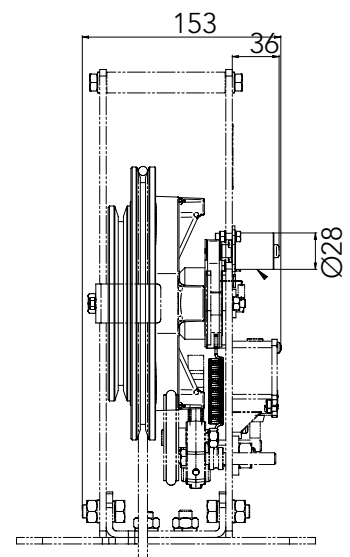
The arrow on the speed governor indicates the direction of intervention of the safety gear. In the right-hand one way configuration it is on the contact side while in the left-hand configuration it is on the opposite side. See the drawing below.



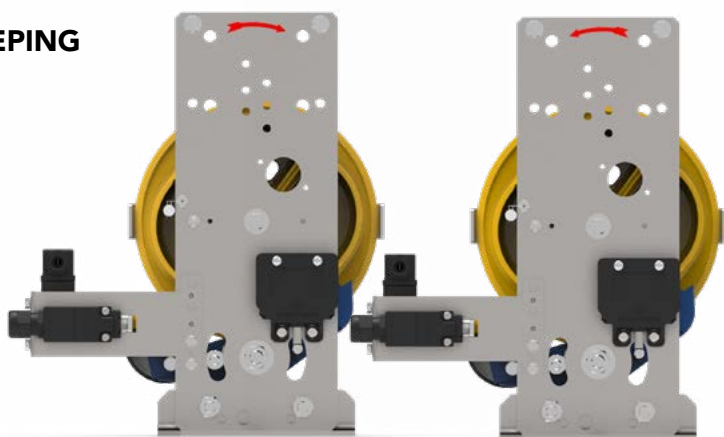
REMOTE CONTROL



ENCODER



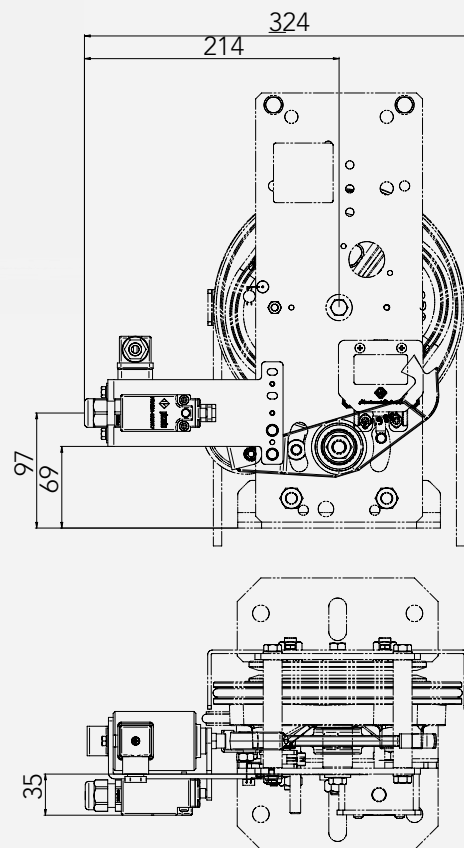
ANTICREEPING



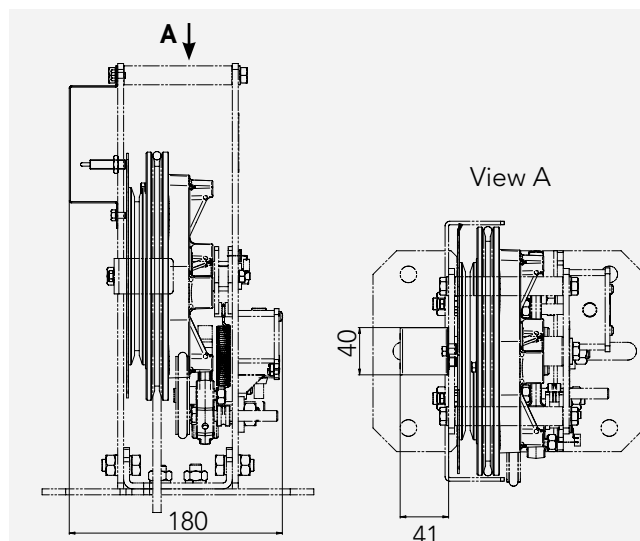
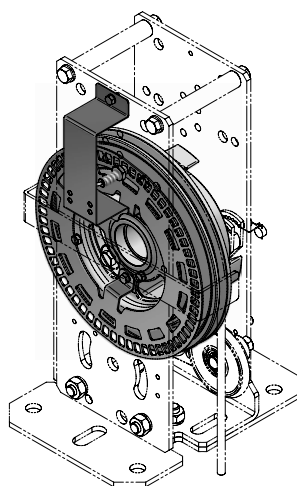
Only Bidirectional / Remote control included

Note: the downward direction of the safety gear is indicated by the arrow.

If due to space requirements it is necessary to install the speed governor rotated by 180 °, attention must be paid to the direction of the intervention.



PHONIC WHEEL



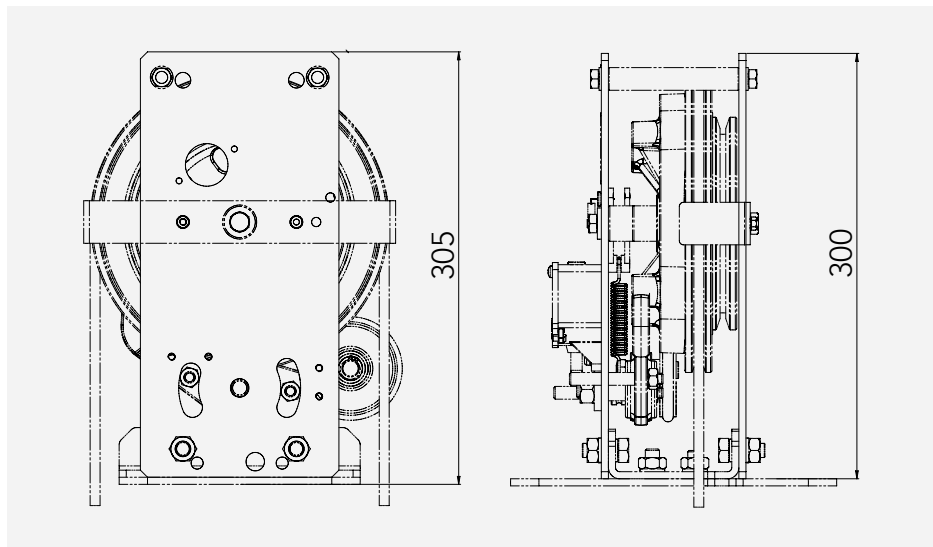
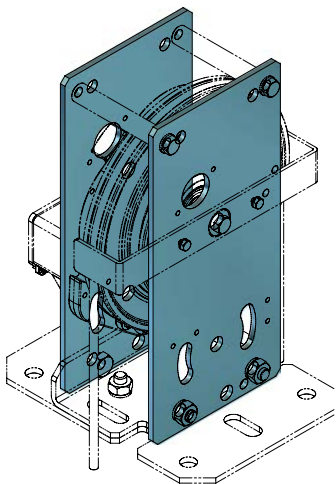
TECHNICAL FEATURES

TECHNICAL FEATURES		
INDUCTIVE SENSOR		PNP
SUPPLY	Vdc	10-30 V
	IoutMAX	100 mA
RESOLUTION		
POSSIBILITY TO ADD A FURTHER SENSOR AT 90° FOR DIRECTION CONTROL		

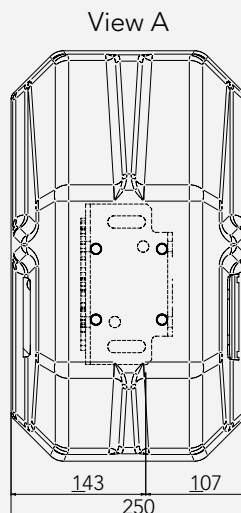
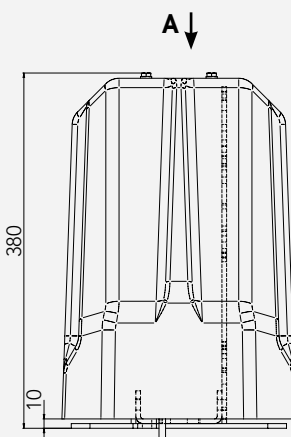
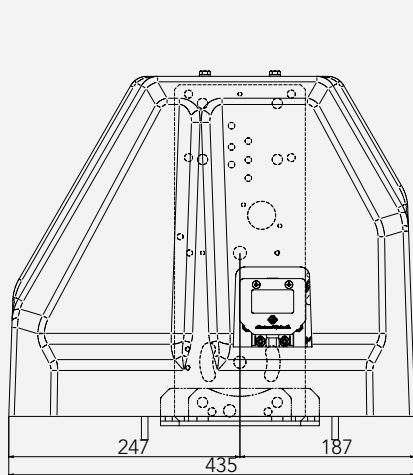
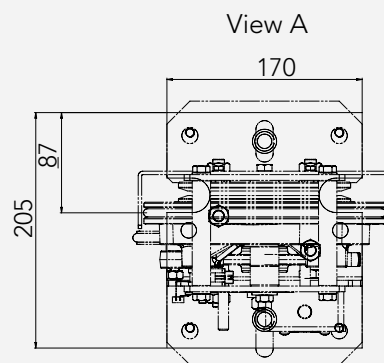
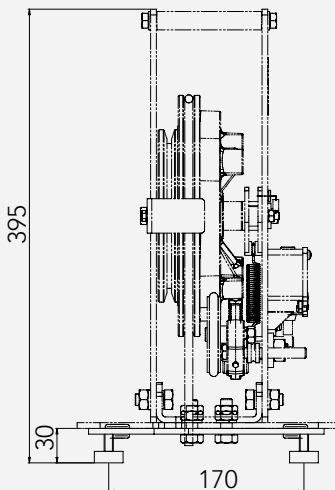
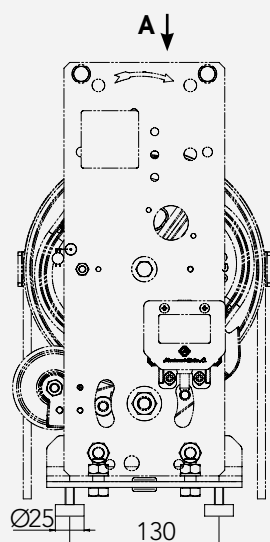
10,5 mm/pulse

LOWERED

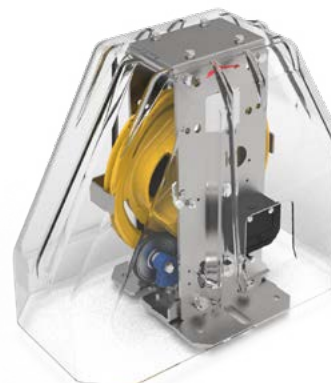
Only for RQ-A200



ANTIVIBRATION BASE



COVER



ART. PE00000521

RQ	AA	B	C	D	E	FGH	I	L	0	A

AA	20	PULLEY	Ø 200 mm	
	25		Ø 250 mm	
	30		Ø 300 mm	
B	0	PULLEY TREATMENT	Normal	
	1		Tempered	
C	0	TRIPPING CONFIGURATION	Bidirectional DX / Clockwise	
	1		Bidirectional SX / AntiClockwise	
	2		One Way DX / Clockwise	
	3		One Way SX / AntiClockwise	
D	0	BASE	Narrow	
	1		Standard	
E	2	CONTACT	2NC - IP4X: Manual Reset	
	3		2NC - IP 4X - V≤1m/s: Automatic reset	
	4		1NC 12V IP4X: Electrical Reset	
	5		1NC 24V IP4X: Electrical Reset	
	6		1NC IP67: Manual Reset	
	7		2NC 24V IP67: Electrical Reset	
	8		2NC 48V IP67: Electrical Reset	
	9		2NC 230V IP67: Electrical Reset	
Optional				
F G H	000	REMOTE CONTROL	NO	
	100		12V DC	
	200		24V DC	
	300		48V DC	
	400		230V AC	
	011	ANTICREEPING	12V DC	Only Bidirectional / Remote control included
	021		24V DC	
	031		48V DC	
	041		230V AC	
	051		100V DC	
I	0	CONFIGURATION	Standard	
	1		Hanged	
	2		Lowered (H300mm/only for RQ-A200)	
L	0	ENCODER	NO	
	1		Encoder standard	
	4		Pred. Encoder (No Encoder)	
	7	PHONIC WHEEL	Without inductive sensor	
	8		With inductive sensor	

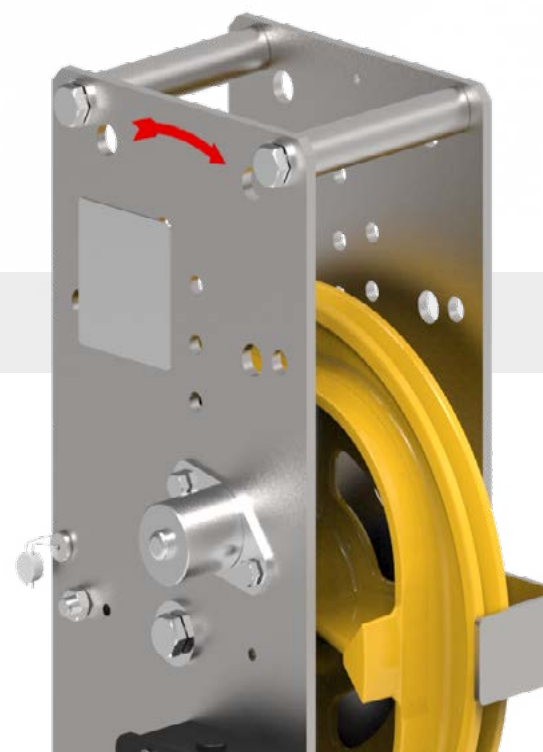
ANTI-CREEPING - Electrical data

ARTICLE	ELECTROMAGNET	CONTACT OF ANTI-CREEPING	CONTACT OF THE SPEED-GOVERNOR
RQxxxxx2x11xxxA	12 Vdc 100% ED 0,95 A 20° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with manual reset 2NC, AC-15, Ue/Ie 400 V / 3 A 2NC, DC-13, Ue/Ie 24 V / 10 A IP54
RQxxxxx2x21xxxA	24 Vdc 100% ED 0,48 A 20° C IP 41		
RQxxxxx2x31xxxA	48 Vdc 100% ED 0,24 A 20° C IP 41		
RQxxxxx2x41xxxA	230 Vac 100% ED 0,06 A 10° C IP 41		
RQxxxxx7x21xxxA	24 Vdc 100% ED 0,48 A 20° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with electrical reset 2NC, DC-13, Ue/Ie 24 V / 6 A Electromagnet 24 V DC – 15% / + 10%, 4,2 A -15% 3% ED, IP67
RQxxxxx8x31xxxA	48 Vdc 100% ED 0,24 A 20° C IP 41		Contact with electrical reset 2NC, DC-13, Ue/Ie 24 V / 6 A Electromagnet 48 V DC – 15% / + 10%, 2,1 A -15% 3% ED, IP67
RQxxxxx9x41xxxA	230 Vac 100% ED 0,06 A 10° C IP 41	1NC – 1NO AC-15, Ue/Ie 250 V / 6 A DC-15, Ue/Ie 24 V / 6 A IP67	Contact with electrical reset 2NC, DC-15, Ue/Ie 250 V / 6 A Electromagnet 230 V AC – 15% / + 10%, 0,5 A -15% 3% ED, IP67

ENCODER DATA

RQ-A	PRECISION	CABLE LENGTH
mod.	mm/pulse	m
200	0,14	7
250	0,18	
300	0,21	

ENCODER STANDARD (COD. GG = 01): 1024 IMPULS REV.
BIDIREZIONALE + 0 / BIDIRECTIONAL + 0 LINE DRIVER (AD26LS31) 5V ÷ 30V





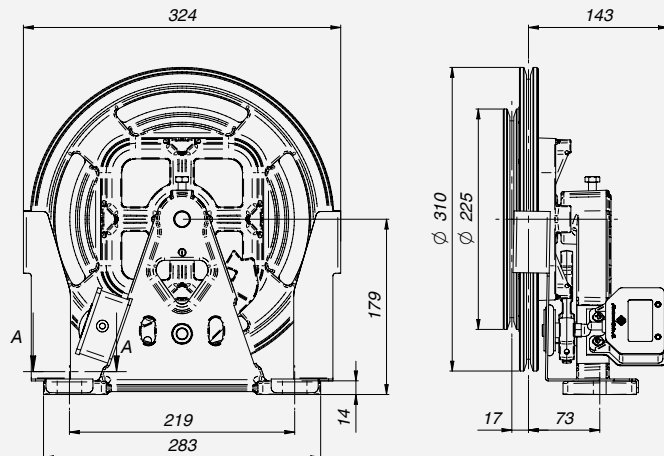
MORE ON
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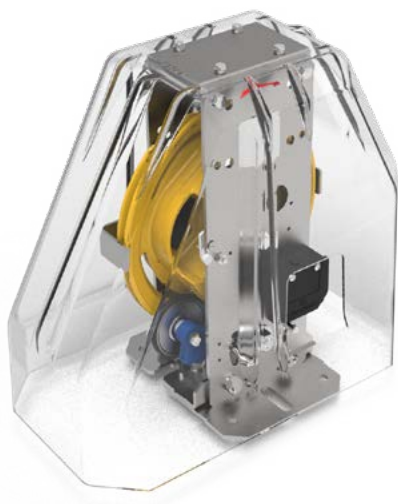
Metal Sheet protection on request.

Speed governor with pulley dia. 300 mm and test groove, one-way or bidirectional. TÜV approved according to Directive 95/16/CE - 2014/33/UE. Rated speed up to 1,50 m/s. Available also with protection upon request.

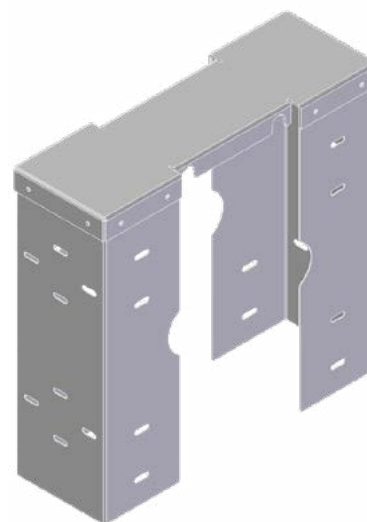
Features		Vn	
		0,30 - 0,44	0,45 - 1,50
One way	Right side	AC0001040E	AC00010400
	Left side	AC0001050E	AC00010500



HANDSIDE DX

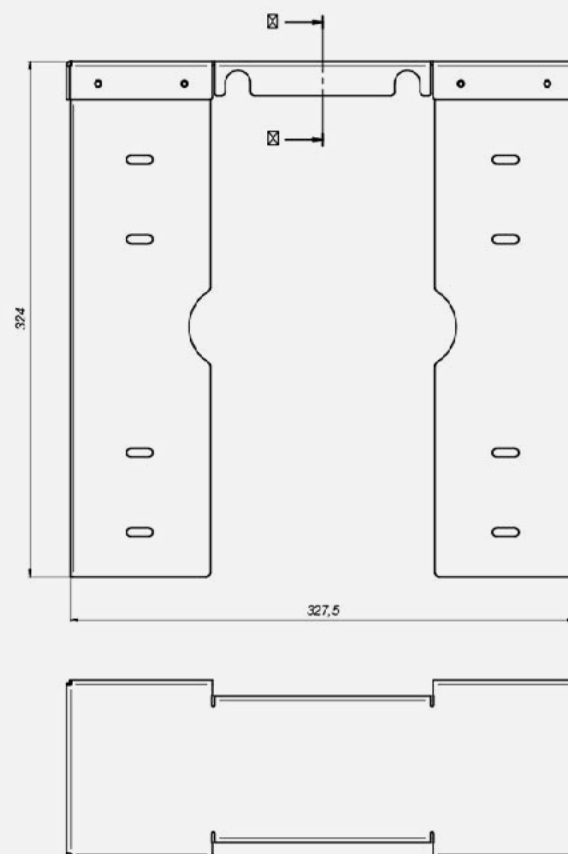
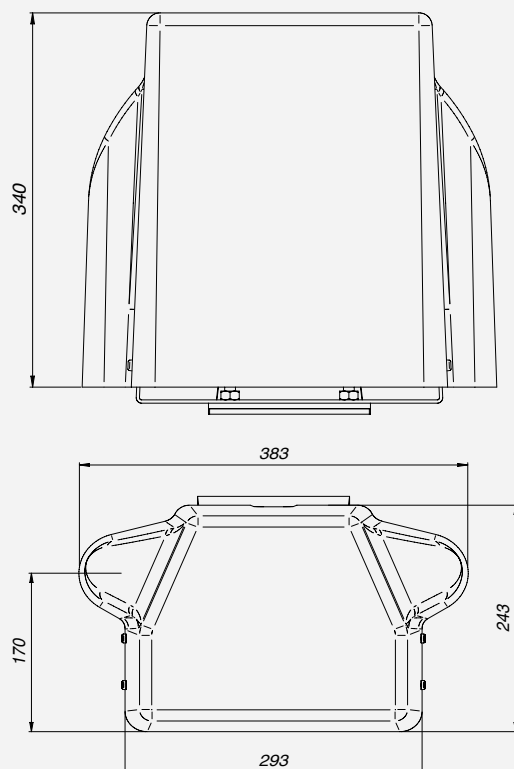


ART. PE00000521



SHEET METAL COVER

ART. PE00000176
ART. PE00000178
ART. PE00000179



Mod.	Art.
NOR	PE00000179
RQ/RQ-A	PE00000521

ONE-WAY

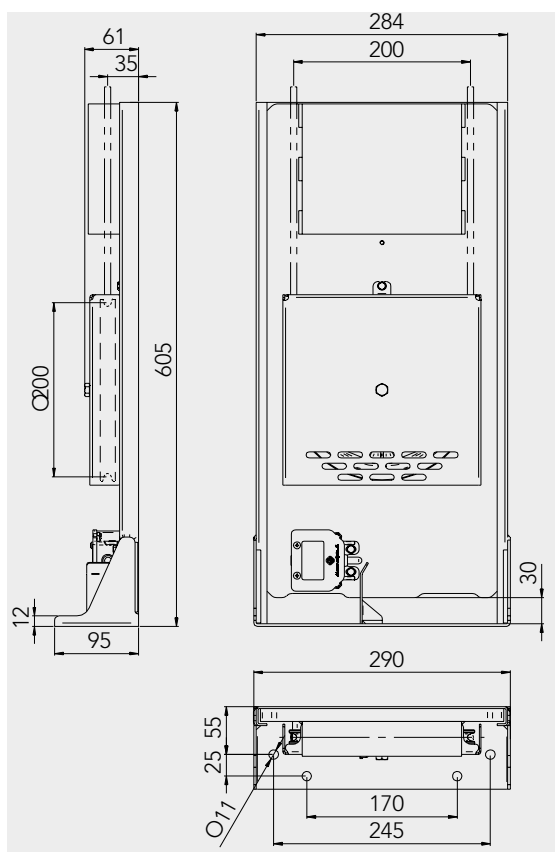
TEV200

TEV300



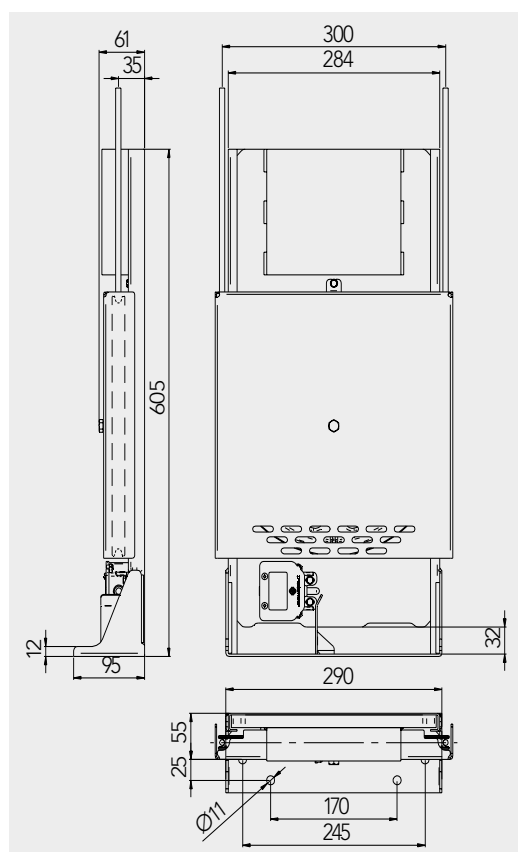
TEV200

ART.	TEV0000200	WEIGHT	29 kg
------	------------	--------	-------



TEV300

ART.	TEV0000300	WEIGHT	30 kg
------	------------	--------	-------





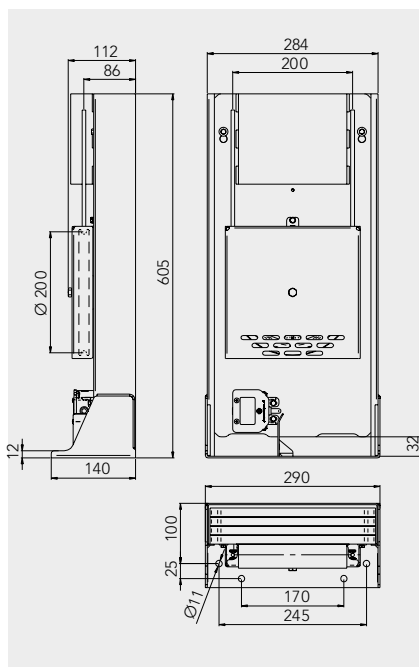
BIDIRECTIONAL

TEV200BD

TEV300BD

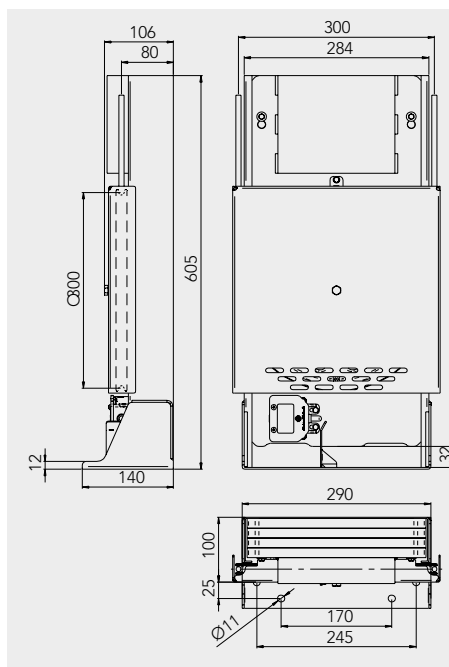
TEV200BD

ART.	TEVBD00200	WEIGHT	85 kg
------	------------	--------	-------

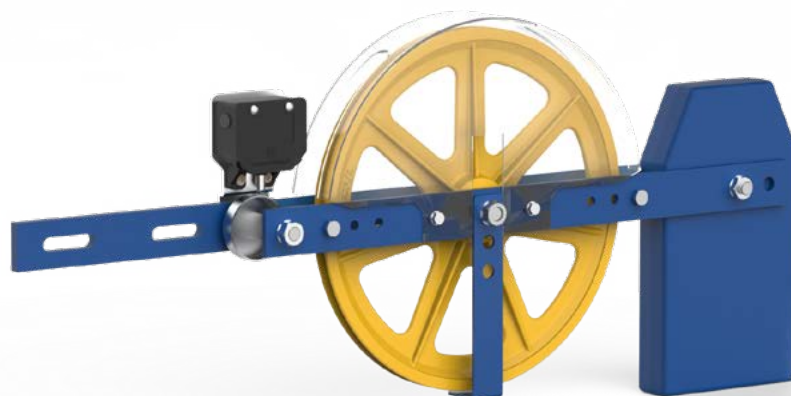


TEV300BD

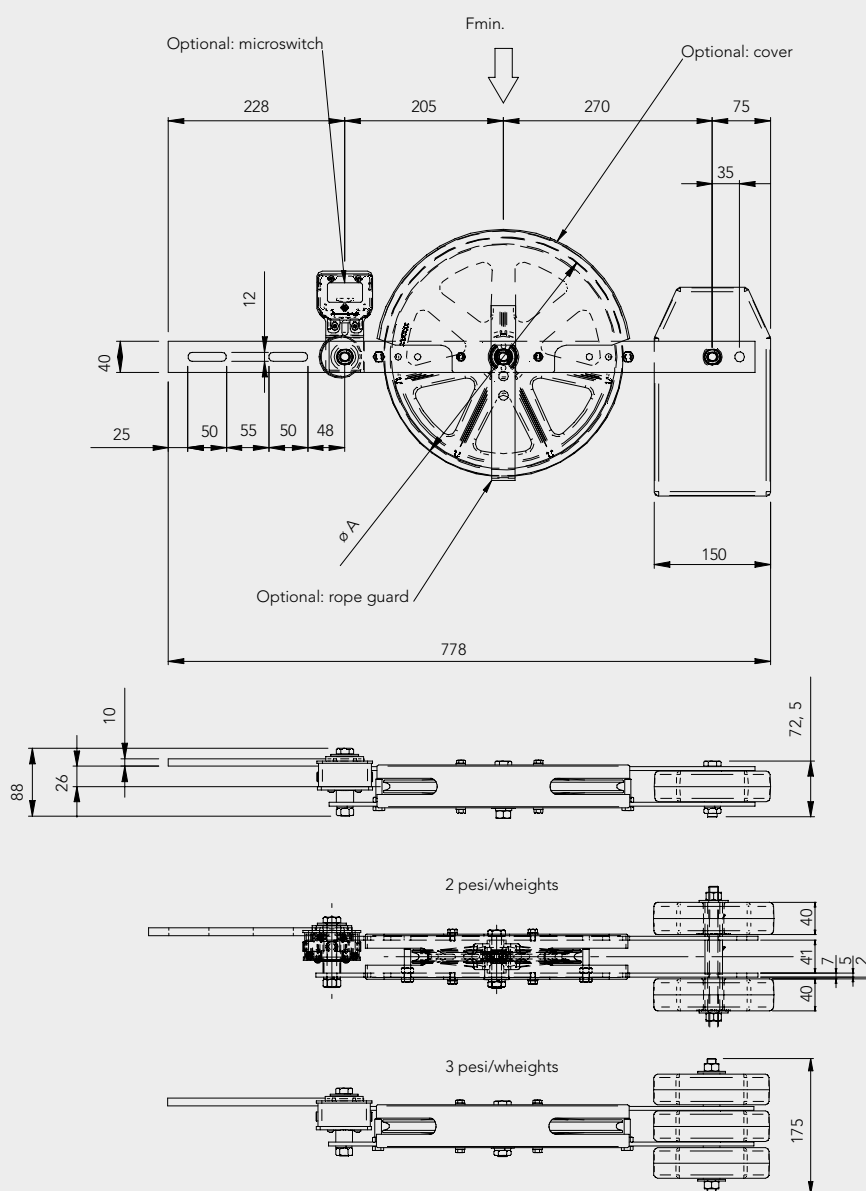
ART.	TEVBD00300	WEIGHT	85 kg
------	------------	--------	-------

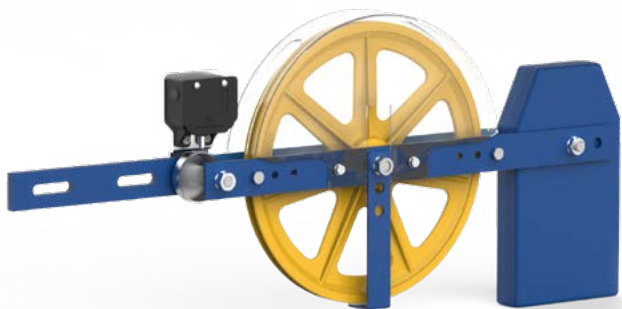


SAFETY CONTACT	
MANUAL RESET	CODE: AC00000556 MODEL: CMM01 - AC15 3A 400V, DC 13 10A 24V - IP4X
AUTOMATIC RESET	CODE: AC00000551 MODEL: CMT01 - AC15 3A 400V, DC 13 10A 24V - IP4X



HORIZONTAL





ART.	Ø A	Fmin	WEIGHTS	SPEED GOVERNOR
	mm	N	n°	
TE00000820	200	223	1	ONE WAY
TE00000825	250			
TE00000830	300			
TE00000860	200	530	2	ONE WAY
TE00000865	250			
TE00000870	300			
TE00000840	200	777	3	BIDIRECTIONAL
TE00000845	250			
TE00000850	300			

The overall length of the horizontal tension device TAB163.1 is lower than the other models on the market.

***NOTE:**

On request the fixing plate is also available with a 15 mm slot.
For the 200 and 300 mm version possibility of cast iron pulley.

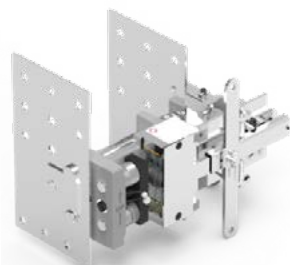
OPTIONAL

Cover	PE00000151
Rope protection	ANTE000000
Safety switch	AC00000553

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SAFETY GEARS





Montanari produces a wide range of safety gear units compliant with Directive 95/16/CE - 2014/33/EU Type-examination certificate available:

- instantaneous safety gears;
- one-way progressive safety gears (downwards);
- two-way progressive safety gears (upwards/downwards).

KEY TO SYMBOLS

P	Cabin mass including accessories
Q	Capacity
V	Cabin speed
V1	Tripping speed
H	Guide-rail tickness
TOS	Dry and lubed drawn guides
TO	Drawn and lubed guides
TS	Drawn and non lubed drawn guides
LOS	Dry and lubed machined guides
LO	Machined and lubed guides
LS	Machined and non - lubed guides
SF	Ascending brake force
Bil	Balance factor (0.5 = 50%)
g	Acceleration by force of gravity
dec	Deceleration by ascending brake force (dec ≤ g)

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TAB282.2 - INSTANTANEOUS

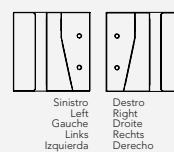
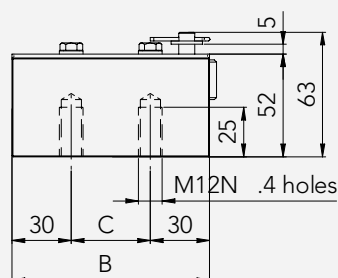
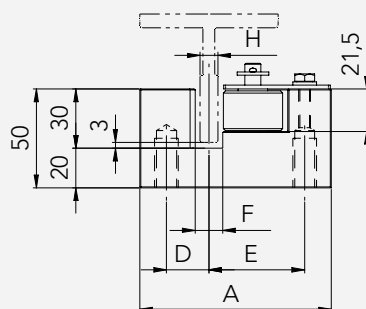
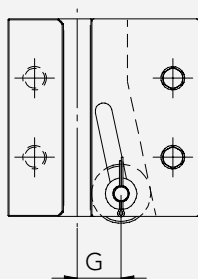
TYPE	V m/s	H mm	ART.	A	B	C	D	E	F	G
PL50	0,63	8	AC00000874	97	100	40	21.5	48.5	14	22
		9	AC00000875							
		10	AC00000876							

V1		PL50	
		H	
		8-9 mm	10 mm
Counterweight	Cabin	m/s	P + Q max kg
		0,1	1647
		0,2	1628
		0,3	1597
		0,4	1556
		0,5	1506
		0,6	1449
		0,7	1387
		0,8	1322
		0,9	1255
		1,0	1188
		1,1	1122
		1,2	1057
		1,32	983
		1,5	879
		1,65	800



PL50

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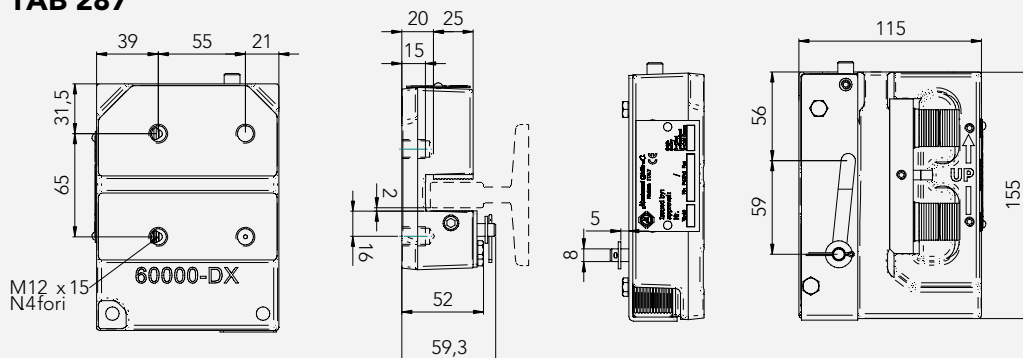


TAB	ART.	H mm	Vn m/s	V1 m/s	P + Q max kg
287	AC00001502	11 - 16	2	2,88	LS 582 - 4300 LO 635 - 4190 TS 638 - 3469 TO 626 - 2813
	AC00001503	7 - 10			
287.1	AC00001508	11 - 16			
	AC00001509	7 - 10			

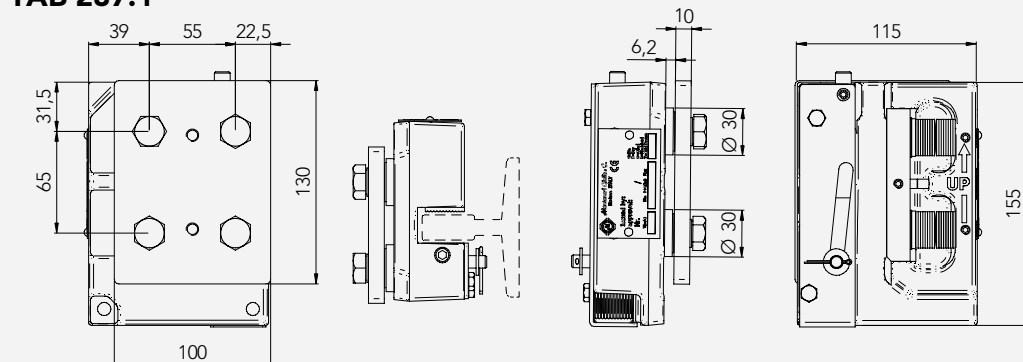
Suitable for cantilevered frames



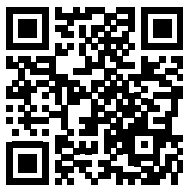
TAB 287



TAB 287.1



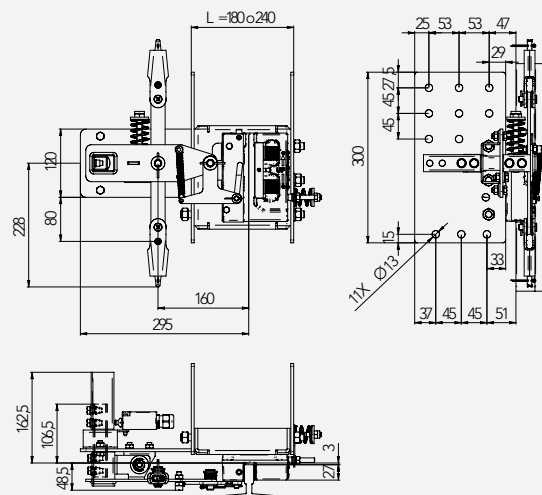
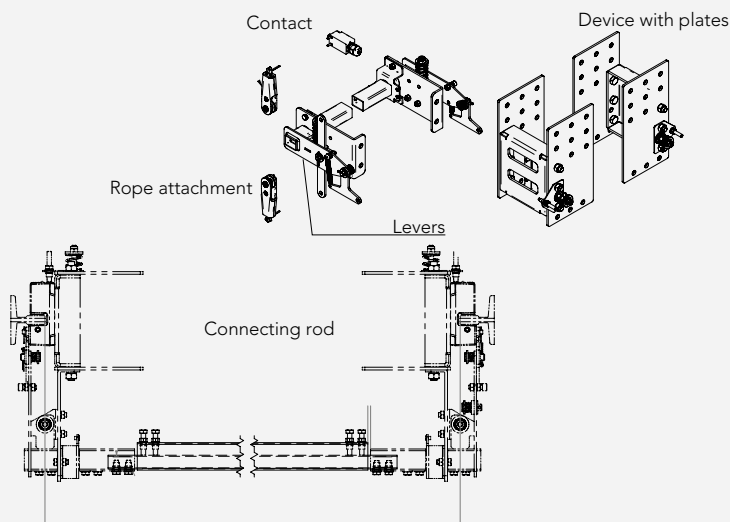
Suitable for standard frames



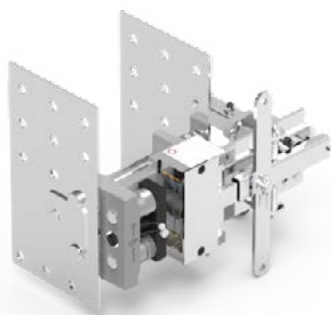
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OUR WEBSITE

TAB287 - 287.1 - OPTIONAL

Device with plates	AC00001504	L = 180 mm
	AC00001505	L = 240 mm
Group of levers	AC00001500	L = 180 mm
	AC00001501	L = 240 mm
Connecting rod	AC00000361	800 ≤ DBG ≤ 1150
	AC00000362	1150 ≤ DBG ≤ 1800
	AC00000363	1800 ≤ DBG ≤ 2150
Contact with manual reset	AC00001506	Pizzato FR17A3-K15
Contact with automatic reset	AC00001507	Pizzato FR6A1-C1 CPL
Rope attachment	AV90000486	Ø 5 – 6.5 mm
	AV90000545	Ø 6 – 8 mm

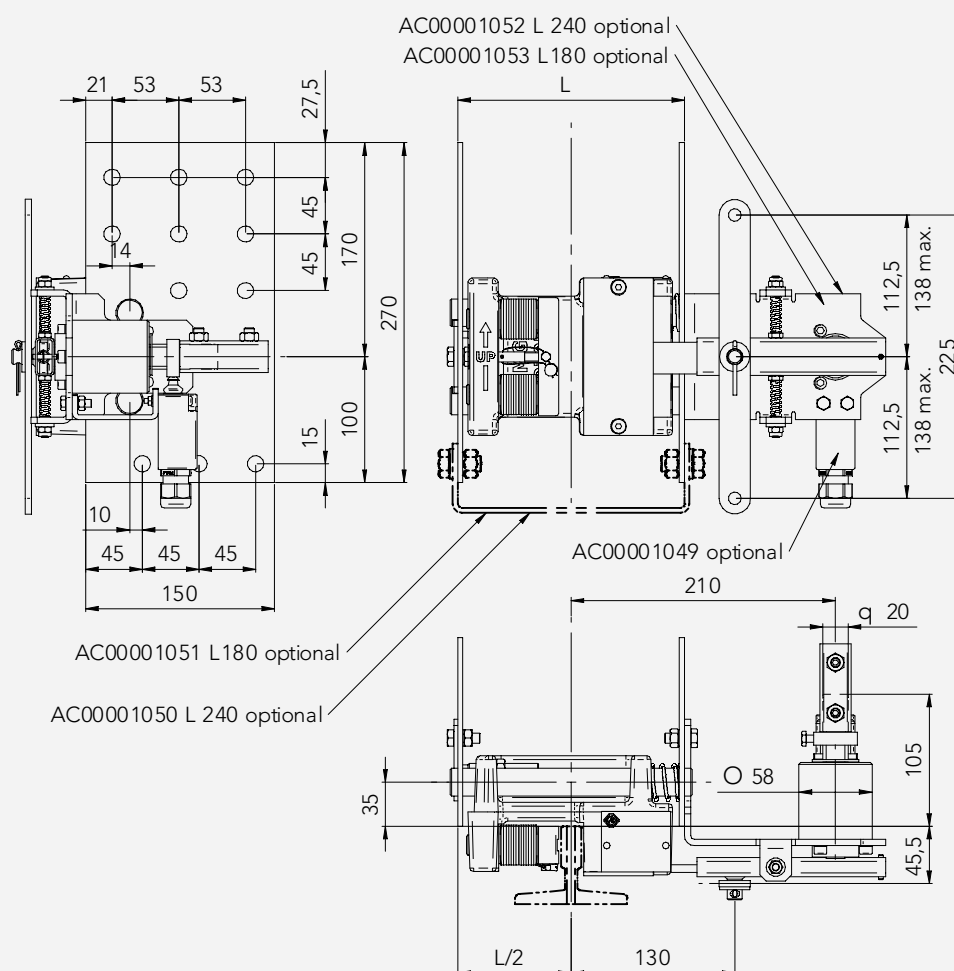


TAB283.10 - 12
TWO-WAY PROGRESSIVE



Suitable for standard frames

TYPE	L	ART	P + Q max kg	SF N	V m/s	V1 m/s	H mm
PPR25BD	180	AC00001054	TO 568 - 3002 TS 605 - 2864 LO 716 - 2561 LS 601 - 2919	8916 ÷ 47124 9495 ÷ 44948 11234 ÷ 40202 9441 ÷ 45820	2,29	2,63	8 - 16
	240	AC00001055					
PPR40BD	180	AC00001089	TO 3002 - 3997 TS 2865 - 4009 LO 2562 - 4662 LS 2920 - 4638	8916 ÷ 47124 9495 ÷ 44948 11234 ÷ 40202 9441 ÷ 45820			
	240	AC00001090					



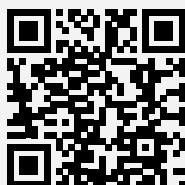
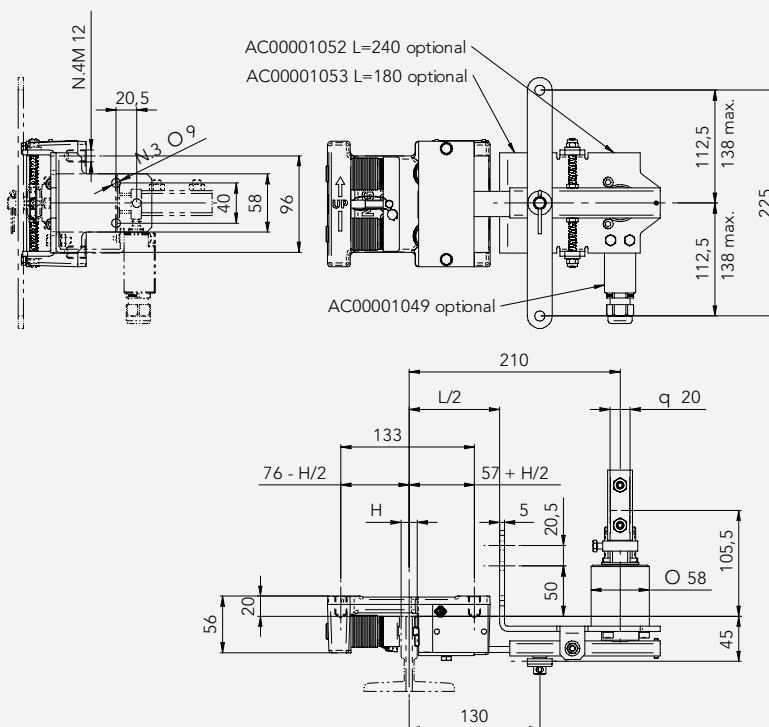
MORE ON
OUR WEBSITE

TAB283.11 - 13
TWO-WAY PROGRESSIVE



Suitable for cantilevered frames

TYPE	L	ART	P + Q max kg	SF N	V m/s	V1 m/s	H mm
PPR25BD	90/120	AC00001056	TO 568 - 3002 TS 605 - 2864 LO 716 - 2561 LS 601 - 2919	47124 ÷ 62735 44949 ÷ 62921 40203 ÷ 73173 45821 ÷ 72790	2,29	2,63	8 - 16
PPR40BD	-	AC00001091	TO 3002 - 3997 TS 2865 - 4009 LO 2562 - 4662 LS 2920 - 4638	47124 ÷ 62735 44949 ÷ 62921 40203 ÷ 73173 45821 ÷ 72790			



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OPTIONAL TAB283.10-11-12-13		
Electrical contact for safety gears	PPR25BD	AC00001049
Adapter for sliding shoe, safety gear	PPR25BD Tab. T.283.10 L = 240	AC00001050
	PPR25BD Tab. T.283.10 L = 180	AC00001051
Group of levers for safety gear type	PPR25BD Tab. T.283.10 L=240 Tab. T.283.11 L=120	AC00001052
	PPR25BD Tab. T.283.10 L=180 Tab. T.283.11 L=90	AC00001053
Connecting rod	AC00001099	800 ≤ DBG ≤ 1200
	AC00001100	1200 < DBG ≤ 1600
	AC00001101	1600 < DBG ≤ 2150
Rope attachment	AV90000486	Ø 6 - 6.5 mm

Calculation check to determine SF braking force required for ascent:

$$SF = (2 \times P + Bil \times Q) \times dec + Bil \times Q \times g$$



Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

COMPONENTS



Italian Management and manufacturing plant.
Modena - Italy: view of the testing tower shaft.



**NEVER NEGLECT
THE DETAILS
TO GET GREAT
RESULTS.**

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Montanari Group

GEARLESS&GEARBOX
TRACTION MACHINES

DIVERTING PULLEYS



Diverting pulleys are available in different configurations and can be supplied with or without shaft and brackets. The maximum load specified shall be understood as a static load, while assessments of duration can be performed only knowing operating conditions, load and speed on the pulley.

Pulleys with different features are available upon request (pitch, $\varnothing$ ropes, grooves no. and load).

WITHOUT SHAFT



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WITH SHAFT



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WITH KEEPER BRACKETS

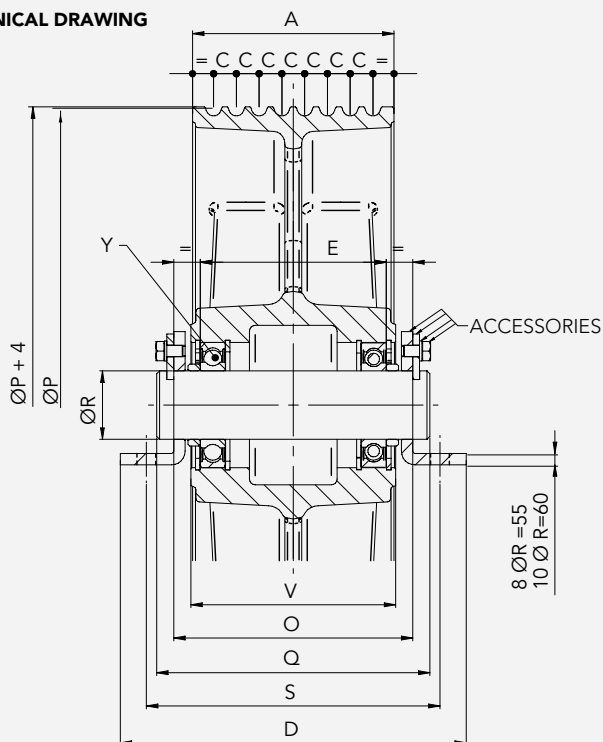


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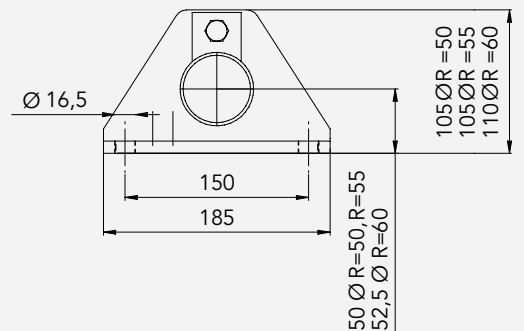


PULLEY CONFIGURATION			Pulley Diameter	Mount. Hole C.D.	Mount Bracket E2E Distance	Shaft Groove Distance	Shaft Length	Shaft Diam.	No. Of Grooves	Rope Diam.	Face Width	Bearing E2E Distance	Pitch	Bearing Hub Width	Bearing Used	Max. Load
WITH SHAFT	WITHOUT SHAFT	WITH KEEPER BRACKETS	P	S	D	O	Q	R	G	B	A	E	C	V	Y	
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
PS02411090	PS02400090	PS02413090	240	184	224	150	170	50	5	6,5	90	81	12	95	6210	1800
PS02411091	PS02400091	PS02413091		224	264	190	210									
PS02411092	PS02400092	PS02413092		264	304	230	250									
PS02411093	PS02400093	PS02413093		184	224	150	170		6							
PS02411094	PS02400094	PS02413094		224	264	190	210									
PS02411095	PS02400095	PS02413095		264	304	230	250		7							
PS02411096	PS02400096	PS02413096		184	224	150	170									
PS02411097	PS02400097	PS02413097		224	264	190	210									
PS02411098	PS02400098	PS02413098		264	304	230	250		8							
PS02411099	PS02400099	PS02413099		184	224	150	170									
PS02411100	PS02400100	PS02413100		224	264	190	210									
PS02411101	PS02400101	PS02413101			264	304	230		250							
PS03211189	PS03200189	PS03213189	320	184	224	150	170	55	4	8	77	82	17	96	6011	2100
PS03211190	PS03200190	PS03213190		224	264	190	210									
PS03211191	PS03200191	PS03213191		264	304	230	250									
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PS03211193	PS03200193	PS03213193		264	304	230	250		6							
PS03211141	PS03200141	PS03213141		184	224	150	170									
PS03211194	PS03200194	PS03213194		224	264	190	210									
PS03211195	PS03200195	PS03213195		264	304	230	250		7							
PS03211196	PS03200196	PS03213196		184	224	150	170									
PS03211197	PS03200197	PS03213197		224	264	190	210									
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PS03211200	PS03200200	PS03213200		264	304	230	250									
PS03211201	PS03200201	PS03213201		184	224	150	170									
PS03211202	PS03200202	PS03213202		224	264	190	210		8							
PS03211203	PS03200203	PS03213203		264	304	230	250									
PS03211204	PS03200204	PS03213204		224	264	190	210									
PS03211205	PS03200205	PS03213205		264	304	230	250									
		PS03213072		180	220	146	170		4		79	83,7	12	96	6011	2100

TECHNICAL DRAWING



SUPPORT TECHNICAL DRAWING

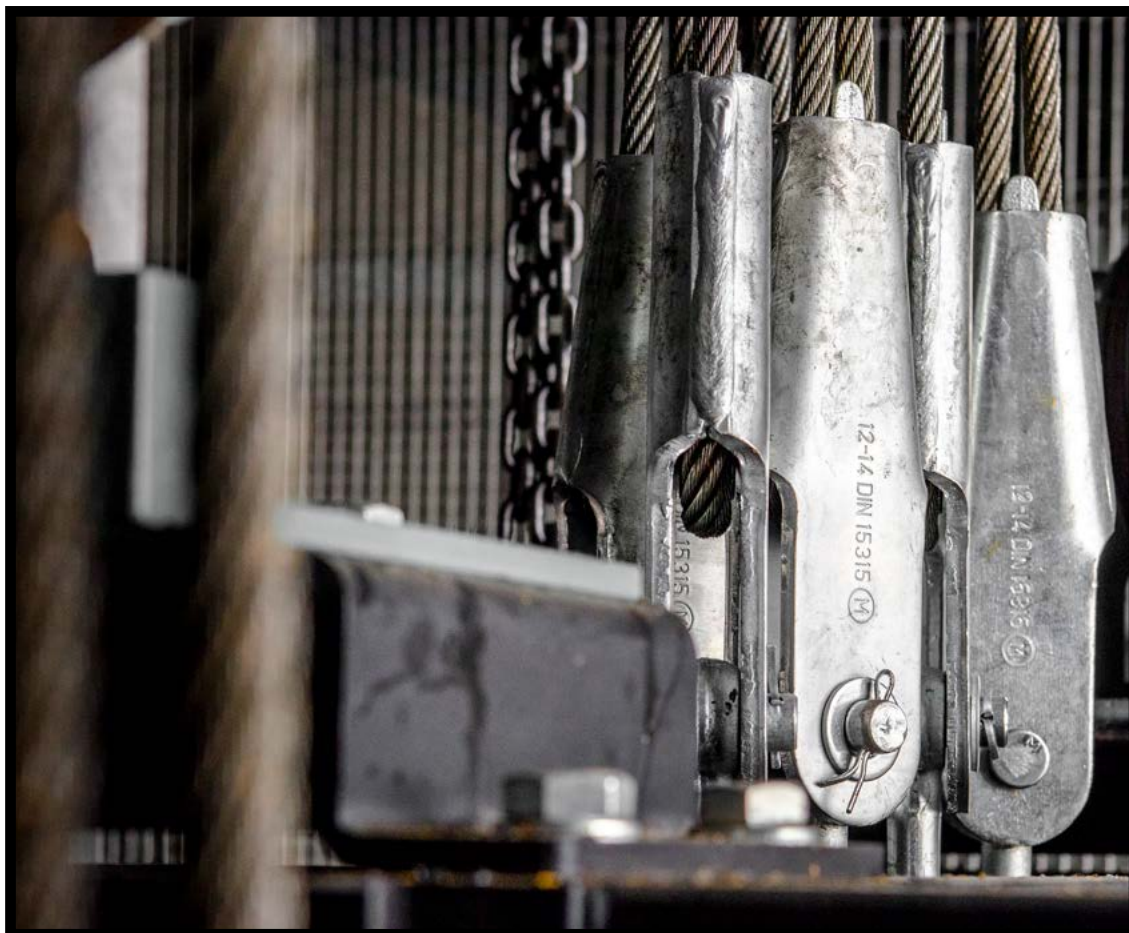


DIVERTING PULLEYS

PULLEY CONFIGURATION			Pulley Diameter	Mount. Hole C.D.	Mount Bracket E2E Distance	Shaft Groove Distance	Shaft Length	Shaft Diam.	No. Of Grooves	Rope Diam.	Face Width	Bearing E2E Distance	Pitch	Bearing Hub Width	Bearing Used	Max. Load		
WITH SHAFT	WITHOUT SHAFT	WITH KEEPER BRACKETS	P	S	D	O	Q	R	G	B	A	E	C	V	Y			
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		daN (kg)		
PS04011268	PS04000268	PS04013268	400	184	224	150	170	55	3	10	75	82	17	96	6011	2100		
PS04011269	PS04000269	PS04013269		224	264	190	210											
PS04011270	PS04000270	PS04013270		264	304	230	250		4									
PS04011271	PS04000271	PS04013271		184	224	150	170											
PS04011272	PS04000272	PS04013272		224	264	190	210											
PS04011273	PS04000273	PS04013273		264	304	230	250											
PS04011263	PS04000263	PS04013263		184	224	150	170		5									
PS04011274	PS04000274	PS04013274		224	264	190	210											
PS04011275	PS04000275	PS04013275		264	304	230	250											
PS04011276	PS04000276	PS04013276		184	224	150	170											
PS04011277	PS04000277	PS04013277		224	264	190	210											
PS04011278	PS04000278	PS04013278		264	304	230	250											
PS04011279	PS04000279	PS04013279		184	224	150	170		6									
PS04011280	PS04000280	PS04013280		224	264	190	210											
PS04011281	PS04000281	PS04013281		264	304	230	250		4									
		PS04013048		180	220	146	170											
PS05211114	PS05200114	PS05213114	520	184	224	150	170	55	4	10	87	82	17	96	6211	3950		
PS05211115	PS05200115	PS05213115		224	264	190	210											
PS05211116	PS05200116	PS05213116		264	304	230	250		5									
PS05211117	PS05200117	PS05213117		184	224	150	170											
PS05211118	PS05200118	PS05213118		224	264	190	210											
PS05211119	PS05200119	PS05213119		264	304	230	250											
PS05211112	PS05200112	PS05213112		184	224	150	170		6									
PS05211120	PS05200120	PS05213120		224	264	190	210											
PS05211121	PS05200121	PS05213121		264	304	230	250											
PS05211122	PS05200122	PS05213122		238	284	190	214				60							
PS05211123	PS05200123	PS05213123		278	324	230	254											
PS05211124	PS05200124	PS05213124		238	284	190	214											
PS05211125	PS05200125	PS05213125		278	324	230	254											
PS05211126	PS05200126	PS05213126		278	324	230	254											
PS05211129	PS05200129	PS05213129		184	224	150	170	55	3	13		71	82	19	96	6211	5100	
PS05211130	PS05200130	PS05213130		224	264	190	210											
PS05211131	PS05200131	PS05213131		264	304	230	250		4									
PS05211132	PS05200132	PS05213132		184	224	150	170											
PS05211133	PS05200133	PS05213133		224	264	190	210		5									
PS05211134	PS05200134	PS05213134		264	304	230	250											
PS05211135	PS05200135	PS05213135		184	224	150	170											
PS05211136	PS05200136	PS05213136		224	264	190	210											
PS05211137	PS05200137	PS05213137		264	304	230	250											
PS05211138	PS05200138	PS05213138		238	284	190	214				60	6	130	122	138	6212	6200	
PS05211139	PS05200139	PS05213139		278	324	230	254											
PS05211140	PS05200140	PS05213140		264	304	230	254		7									
PS05211141	PS05200141	PS05213141		264	304	230	254											
							8		177	154		170						6300



ROPE ATTACHMENTS



The rope attachment is symmetrical and compliant with the current regulations. Standard lengths are reported on the catalogue, other sizes are available on demand.
Orders should contain the rope attachment item code and the one of the accessories.

SYMMETRICAL WITH SPRING AND DISTANCE PIECE



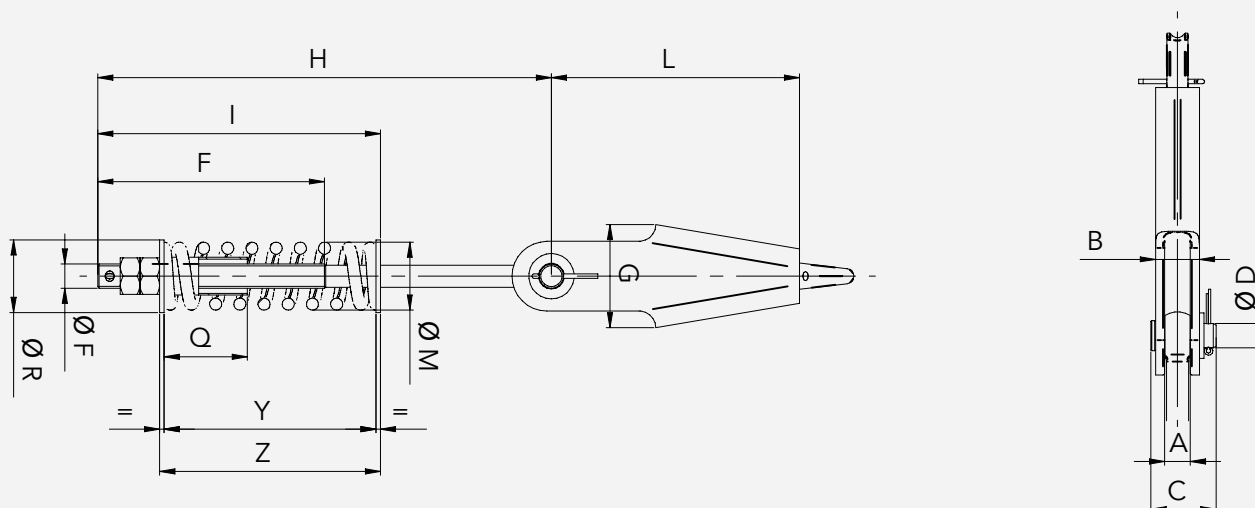
Item	Rope	A	B	C	D	F	G	H	I	L	ØF	Breaking load
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN
AC00000487	6 - 8	14	22	36	12	150	45	300	162	130	M12	40.0
AC00000488	9 - 11	17	29	48	16	150	60	300	167	167	M16	73.0
AC30000489	12 - 14	22	38	60	18	200	74	460	174	174	M20	89.3

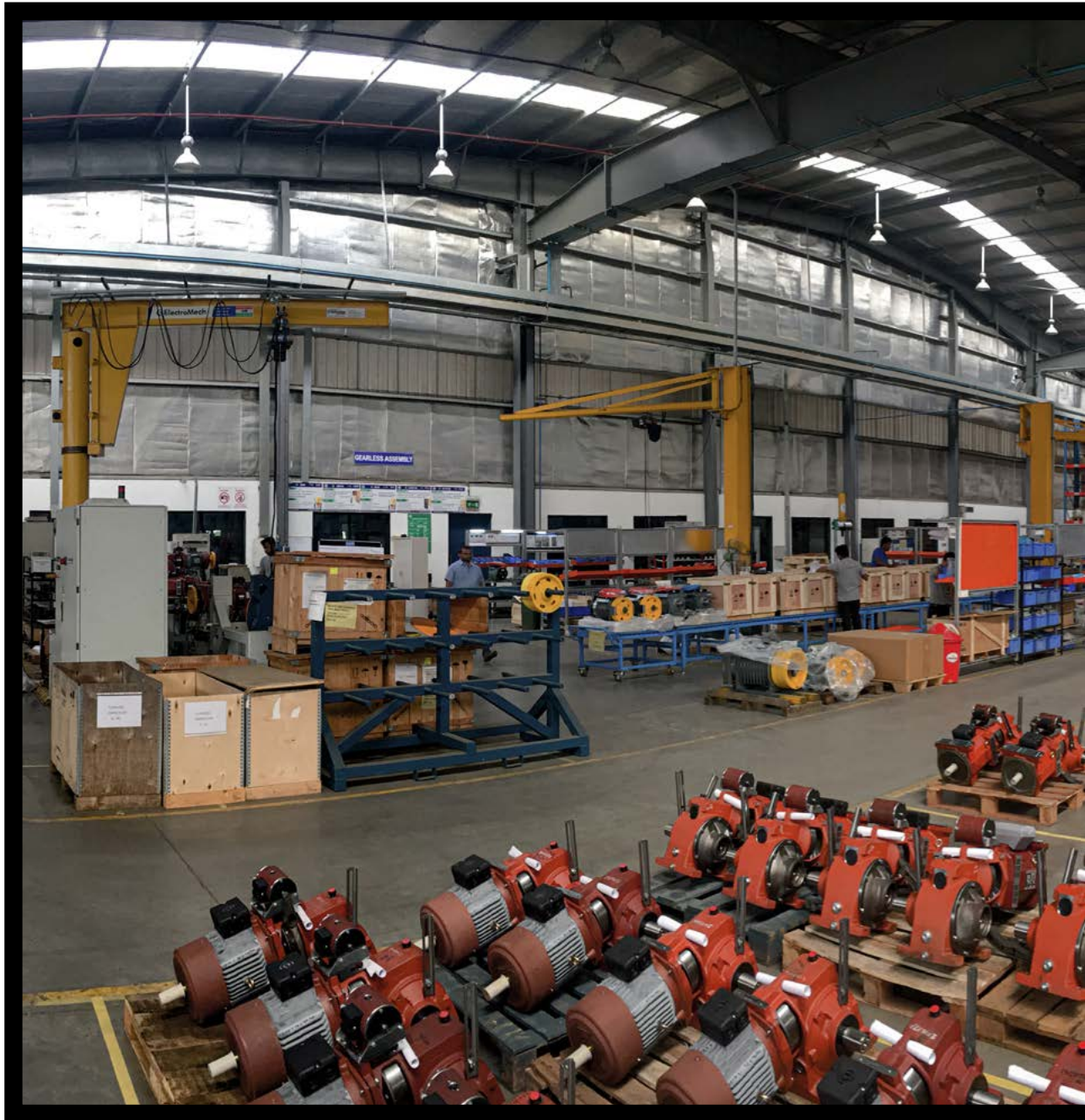


MORE ON
OUR WEBSITE

**Spring with distance piece							
Rope attachment	Item	Max. Load	ØM	ØR	Q	Y	Z
		kg	mm	mm	mm	mm	mm
6 - 8	AC00000484	70	35	38	55	100	105
9 - 11	AC00000485	120	40	38	55	120	125
12 - 14	AC00000486	300	52	50	65	150	155

** Not included. At the moment of the order write the item code.





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3 facilities for over 200,000 sq ft



MONTANARI LIFTS COMPONENTS MANUFACTURING PLANT

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THE ITALIAN HEART IN INDIAN LIFTS

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Montanari Lifts Components

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