NiceIndustrial Doors

Automation systems for industrial applications: sectional and rolling doors, high speed doors and dock levellers

Catalogue

2012



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- 4|11 The Nice World
- 12|13 Nice for industrial applications
- 16|24 Applications for sectional balanced doors
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Nice

Nice Total Control

Home integrated solutions. Ease of use, aesthetic quality, safety.

Nice is easy to offer because it's easy to install and use, thanks to a range of products which links innovation to design:

technology for the installer comfort for the user simplicity for everyone.

With Nice, gates, garage doors, blinds and shutters are always under control, as well as lighting and alarm systems.

Intomation

05/01/2012

Cates

66

OS A





Nice History



1993

The first transmitters: very Nice!

With Nice, transmitters become an object to show: functional and powerful, but miniaturized and elegant. The transmitter itself, shown in the car or attached to the key ring, becomes the Nice first way of communication which rouses an immediate request through the most powerful media: the word-of-mouth.

1995

Handy design: effortless and with just one hand. In its first generation of motors

Nice conceives unlocking mechanisms made of simple keys, easy to activate with just one hand. There will no longer be any waiting under the rain, physical effort or painstaking research for a key which cannot be found, while getting into the house with your hands full of shopping bags or while carrying a baby.

2003

BUS systems: much more simplicity.

Nice puts on the market the Nice BlueBUS system which changes the concept of automation by making installation really easy and quick: nothing but two wires now connect all system devices, which can be later amplified with the same simplicity.

The absence of polarity and the clamps identified by the serigraphies, make the connection even easier and really error-free.

2005

The modular control: choice and rationality.

Nice goes beyond the idea of finished products introducing the concept of modularity: a wide product range available without the problem of the warehouse management. Unique parts, composed in a different way, generate a wide range of "custom-made" solutions: it is the innovative technology of the NiceWay transmitters.



2000 "International Design Gallery" Expo 2000 Hannover



2001 Best of Category "Design for the Environment" XIX Compasso d'Oro





INTEL DESIGN

> 1999, 2003 2005 "ADI Design Index"



'Trophée

d'Argent" Trophée du Design

Batima



"Innovation Prize" R+T Stuttgart

2006



"Innovation &

Design Award" LivinLuce grandesign ()

2008 "Grandesign Etico International Award"



2007

Opera marks the future of the automation.

Anticipating installer requests, Nice presents the innovative Opera system which makes the work for the installer even easier thanks to the remote control of any automation system via PC and PDA, while the end-user can manage home automations via mobile and Smartphone, PC and PDA.

2008

Solemyo: energy in nature! With Nice, solar power now

allows to "move" automations even far away from the electrical loads, avoiding the inconvenience of expensive masonry or unsightly wiring ducts for the control wires. It is the Nice wireless technology: an ecological and smart system, energy-saving.

2009

NiceHome System, security combines with automation.

Nice combines the simplicity and completeness of its control devices with the professionalism of the alarm systems the Group companies have developed according to their 30-year experience.

Apart from the alarm system, the user can directly manage up to 16 controls for automations, lighting and electrical loads. Everything with a 100% wireless solution: the maximum safety with the maximum ease.

2011

Nice + FontanaArte: light is movement.

Thanks to the acquisition of FontanaArte, Nice enters the lighting system complementary field with a wide range of integrated home solutions: a new angle and richness to its pursuit of elegance and excellence, to offer an innovative contribution to the needs of everyday life.

FontanaArte S.p.A.

Founded in 1932 by the architect Gio Ponti, FontanaArte is one of the Italian design firms which has "made history in lighting and furnishings" in Italy and around the world. Featuring a design culture which has founded its main concept upon the interplay between technology and beauty, FontanaArte has created a series of timeless objects of splendid shapes and forms, many of which have become design classics on exhibit in some of the world's most important museums.

www.fontanaarte.com



Nice Headquarters

"Devised by Italian minds, unprovoking yet unmistakable in design, with a sense of movement which transmits and knows how to match technological contents in a playful way"

Lauro Buoro Chairman of Nice S.p.A.

Project by Studio Carlo Dal Bo.

A Nice Place.

A new building, large and functional, to meet the needs of an ever-growing firm, reflecting its international focus and product personality: a training area and a showroom to interact with customers; an auditorium to foster institutional relationships with the world around. At the core of its architecture, Nice has placed the person. To "feel good" is a priority for Nice: for its staff the company offers gym, sauna, Turkish bath, bar.

Environmentally conscious art installations surround a pond, while the cultivations of the garden change with the seasons: this is the Nice gift to nature.

Come and discover the Nice world: www.niceforyou.com



Nice Centre for Technology

Nice has made significant investments to guarantee even higher quality standards, which not only comply with directives and regulations, but also allow a continuous product improvement. Through its advanced laboratories Nice carefully tests and controls its products every day in order to grant safety, quality, reliability and durability.

The Nice laboratories complies with ISO 9001 certification, known all over the world for the quality management, besides of being in accordance with EN 17025 standards which set the general requirements for testing labs. All the Nice CE certified products comply with the relevant European Directives and the leading internationally recognized standards.

The Nice laboratories have been recognized by:

- LCIE (France)
- TÜV Rheinland (Germany)
- Nemko (Norway)
- Cetecom (Germany)
- FCC (USA)
- IC (Canada)
- Intertek (Sweden)



Be Extreme Be Nice

For freedom, for the contact with nature and the need for environmental awareness; for the team effort and the ability to handle the unpredictable, Nice chooses to invest in the sport of sailing by participating in the forefront of the international Extreme 40 circuit.

... for a world without barriers...



Nice Arts

In the frame of the increasingly need for renewal and changing values in sustainability, Nice contributes defining new scenarios through the promotion of eco-compatible design. With the "Nice Arts" project in 2010 Nice is ranked among the top 265 in excellence representing Italy at Shanghai World Expo: "Better City, better life".

Lighting sculptures by Jacopo Foggini

Plasteroid Interni Mutant Architecture & Design, 2011

Golden Fleece Interni Think Tank, 2010

Ofigea Interni Green Energy Design, 2008

Golden Fleece and Ofigea are now installed at the Nice Headquarters.

With the "F.e.e.l." project (For Everyone Everywhere Liberty) Nice promotes activities, initiatives and products which give greater freedom in movement and more individual autonomy even to those who have special needs, such as the elderly and the disabled.





Nice systems for industrial closures

Easy to install and program automation systems for made-to-measure solutions. Nice is presenting the series of gearmotors for automating sectional doors, shutters and high speed doors for industrial use.

Advanced technology, quality of details, and durable and reliable operation stand behind these automations having safety requirements and performance characteristics compliant with the most recent European standards and directives.

To make your selection easier, Nice proposes a series of configurations in which you will find the codes indicated in each section.

To define the ideal

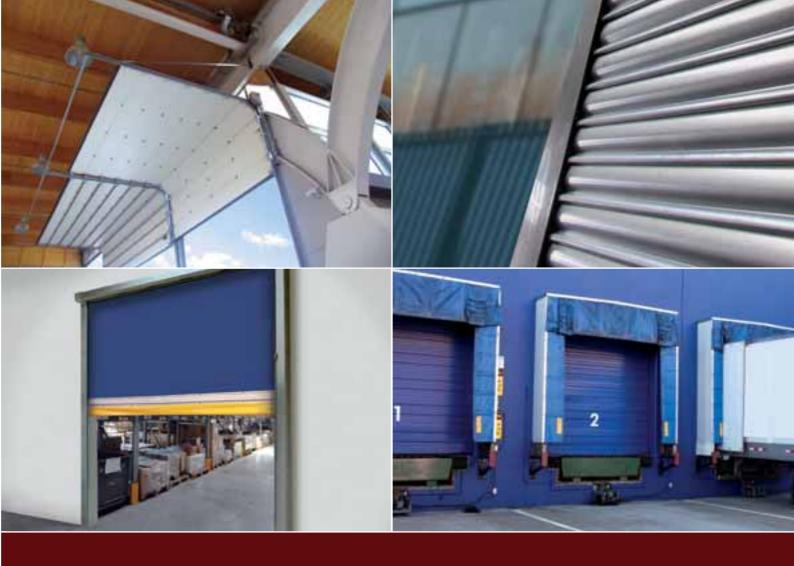
gearmotor according to the model, it is possible to choose the following features*:

- Mechanical or electronic
- limit switch
- Limit switch rpm
- Shaft diameter
- Type of manual emergency release
- For the motors of the HDF and RDF series, the distance between the shaft centre and

the end of the fixing bracket. The relevant control unit (UST series) is to be matched to the gearmotor. On the following pages you will find the **control units** recommended for each gearmotor type indicated. The stations can be customised both by applying optional additional modules dedicated to specific functions on them and with button, plug and signalling LED variants.

The Nice Industrial range is also offered in **preassembled kits** including: motor, station and cables; everything you need is inside the packing, without having to make additional connections.

*(not all combinations are possible; consult the tables and technical drawings in each section to this regard)



For SW/SD series sectional balanced doors

Gearmotors for industrial sectional doors in various versions, also with electronic limit switch. Flexible technology with the possibility of choosing between different manual emergency releases: with handle, cable or chain.

For HDF series high speed doors

Gearmotors for industrial high speed doors equipped with electronic limit switch to get a practical and versatile solution suited to all types of applications. The inverter checks the speed and therefore optimises the efficiency of the complete system.

For RD and RDF series rolling shutters with chain transmission

Gearmotors for rolling shutters and roller grilles for industrial use with the highest safety level, also owing to the integrated parachute device and the possibility to connect safety systems such as optical or resistive sensitive edges.

For Combi-Control and UDL series loading ramps

Control units for high flexibility loading ramps. It is possible to choose from different programs, both automatic and in deadman mode.

Combi-Control is a combined station to simultaneously control the loading ramp and the associated door.

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Applications for sectional balanced doors	16 17 18 19 20 23	Selection guide SW/SD Series Gearmotors Technical drawings
Applications for high speed doors	24 25 26 27 28 33	Selection guide HDF Series Gearmotors Technical drawings
Applications for rolling shutters	34 35 36 37 38 51	Selection guide RDF Series Gearmotors Technical drawings
Applications for shutters with chain transmission	52 53 54 57 58 67	Selection guide RD Series Gearmotors Technical drawings
Control units and accessories	68 69 70 71 72 73	Selection guide Stations for sectional doors, rolling shutters and high speed doors UST1, UST1K, UST2, UST1-FU Stations for loading ramps UDL1, UDL2 Stations for sectional doors, shutters and loading ramps Combi-Control

Nice SW/SD series for sectional doors selection guide

Follow the arrow and choose the right product

For sectional balanced doors

Automatic locking	single-phase 230 Vac	— 70 Nm, 20 rpm —	mechanical / electronic limit switch	SW-70-20
gearmotors SW/SD		— 100 Nm, 24 rpm ——	mechanical / electronic limit switch	SD-100-24
	three-phase 400 Vac -	— 120 Nm, 20 rpm ——	mechanical / electronic limit switch	SD-120-20
		— 140 Nm, 20 rpm ——	mechanical / electronic limit switch	SD-140-20

Indication of the station choice to combine with the SW/SD gearmotors

SD/SW Series Gearmotors

Control unit	SW-70-20-KU SW-70-20-KE SW-70-20-E	SD-100-24-KU SD-100-24-E SD-100-24-KE SD-100-24-KE2	SD-120-20-KU SD-120-20-E SD-120-20-KE SD-120-20-KE2	SD-140-20-KU SD-140-20-E SD-140-20-KE SD-140-20-KE2						
UST2*		•	•	•						
UST1	•	•	•	•						
UST1K-2,2 kW	•	•	•	•						
UST1K-1,1 kW	•	•	•	•						

*to use only for gearmotors with mechanical limit switch.

Important note:

The weight lifted cannot be the only criteria used for choosing the gearmotor.

The fall of a sectional balanced door can be avoided if the gearmotor is able to support the wing weight even if the spring breaks.

The static overturning moment is the maximum load allowed for the mechanism at the time the spring breaks.

The Mstat static overturning moment is calculated with the following formula:

 $Mstat \ [Nm] = wing \ weight \ [N] \times cable \ winder \ drum \ radius \ [m]$

Considering that two balancing springs can yield at the same time, it is recommended to size the gearmotor so that it is able to support

- the total weight of the wing when there are one or two springs

- 2/3 of the weight of the wing when there are three springs

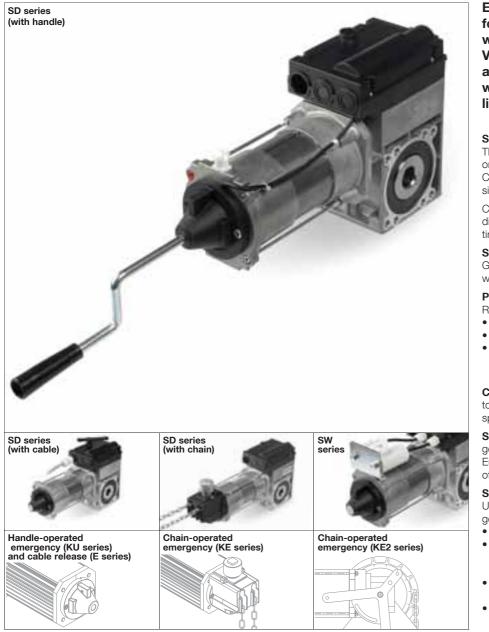
- 1/2 of the weight of the wing when there are four springs.

When making this choice, the considerably greater gearmotor breaking load is not to be contemplated. In the case of cable winder drums of the incremental type, the greater winding diameter is to be considered.

Consider the maximum sustainable force of the cables.



Nice SW/SD gearmotors for sectional doors



Complete preassembled kits

Code	Description
NDCK0009	SW-70-20 gearmotor with electronic limit switch and release with light 5 m chain, UST1K-1.1kW station, Schuko plug, 7 m cable
NDCK0129	SD-100-24 gearmotor with electronic limit switch and cable release, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0013	SD-100-24 gearmotor with electronic limit switch and release with light 5 m chain, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0067	SD-100-24 gearmotor with electronic limit switch and release with 5 m chain, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0024	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain, UST1 station with K1 module, EEC plug, 5 m cable
NDCK0043	SD-100-24 gearmotor with mechanical limit switch and cable release, UST2 station, EEC plug, 7 m cable
NDCK0014	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain, UST2 station, EEC plug, 7 m cable
NDCK0249	SD-140-20 gearmotor with electronic limit switch, cable release and Ø 25.4 mm shaft, UST1K-1.1kW controller, EEC plug, 5 m cable
NDCK0154	SD-140-20 gearmotor with electronic limit switch, release with light 5 m chain and Ø 31.75 mm shaft, UST1K-1.1kW station, EEC plug, 5 m cable

Gearmotors

Code	Description
NDCM0022	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain
NDCM0019	SD-100-24 gearmotor with mechanical limit switch and cable release
NDCM0023	SD-100-24 gearmotor with electronic limit switch and release with light 5 m chain
NDCM0051	SD-100-24 gearmotor with electronic limit switch, release with light 5 m chain and Ø 31.75 mm shaft

Electromechanical gearmotor for sectional doors up to 550 kg, with integrated brake. Versions for 230 Vac single-phase and 230/400 Vac three-phase, with mechanical or electronic limit switches.

Simple installation:

The gearmotor is to be installed directly on the shaft of the sectional door. Connection cables equipped with connectors simplify electrical installation.

Complete Nice gearmotor-cable-station kits are directly wired in production and allow installation time to be further reduced.

Sturdy

Gearmotor with bronze gears, with permanent lubrication

Practical:

- Release available in 3 versions: • cable release
- handle-operated emergency
- chain-operated emergency, the ideal solution for every type of application.

Compact and efficient:

torque up to 140 Nm speed up to 24 rpm

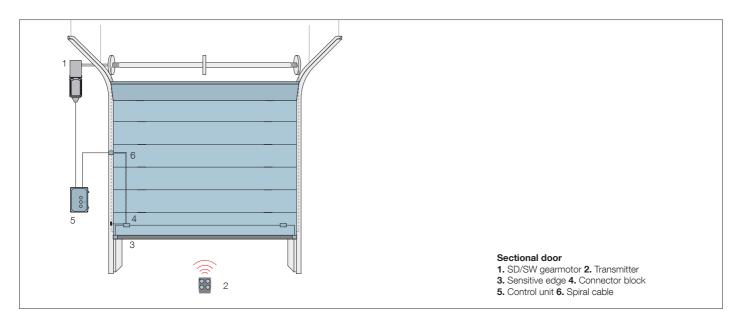
Safety:

gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

Smart

UST1 series control unit separated from the gearmotor, simple and reliable, equipped with:

- mechanical or electronic limit switches
 possibility to connect photoelectric barriers and optical or resistive
- sensitive edges 8.2 kΩdeadman or automatic control,
- control via radio or via cable
- possibility to expand with additional modules.

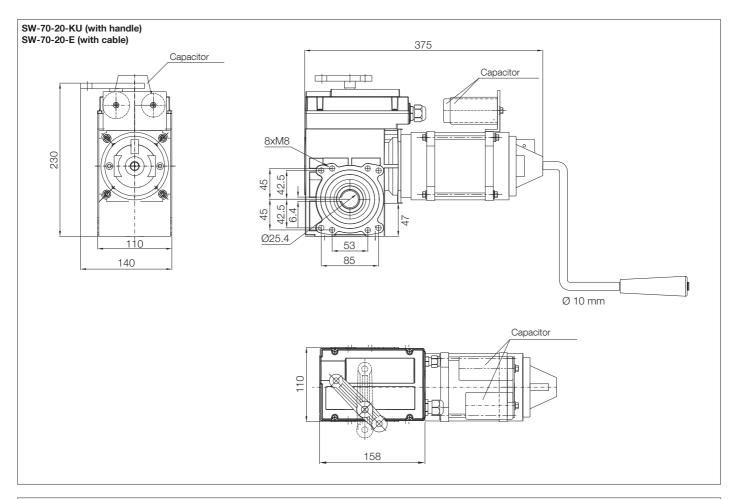


Technical data

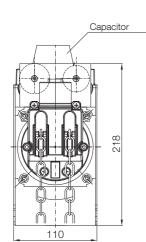
Туре	SW-70-20	SD-100-24	SD-120-20	SD-140-20		
Shaft Ø (mm)		25,4		25,4/31,75		
Max. torque (Nm)	70	100	120	140		
Rated torque (Nm)	60	80	100	120		
Static overturning moment (Nm)		230		440		
Weight lifted* (kg)		300		550		
Absorbed power (kw)	0,20	0	,37	0,55		
Working voltage (V/Hz)	1x230 V 50 Hz	3x230V/3x400V 50Hz				
Service factor (ED)	S3-20%	S3-60%				
Connection cable (no. x mm ²)	3 x 1,5		5 x 1,5			
Nominal current (A)	3,45/2,0	3,1	2,6/1,5	3,45/2,0		
Limit switch rpm			15			
Operating temperature (°C)	-5 ÷ +40					
Noise dB(A)	<70					
Protection rating (IP)		IP54				
Weight (kg)	11,5	11,1	11	12		

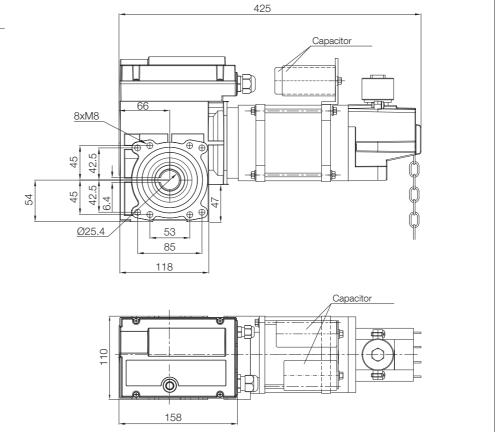
* For balanced doors with 1-4 compensating springs with a Ø 160 mm diameter cable winder drum, observe the permitted cable forces, the danger warnings and the general rules of safety.

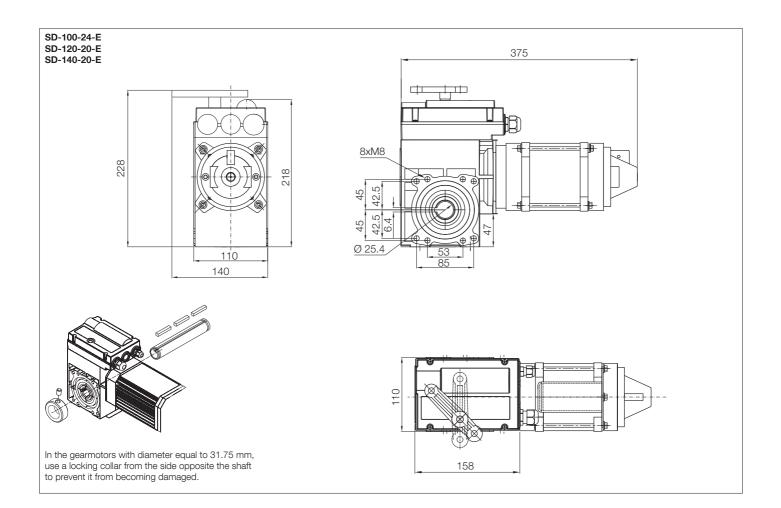
Nice SW/SD series technical drawings for sectional doors



SW-70-20-KE (with chain)

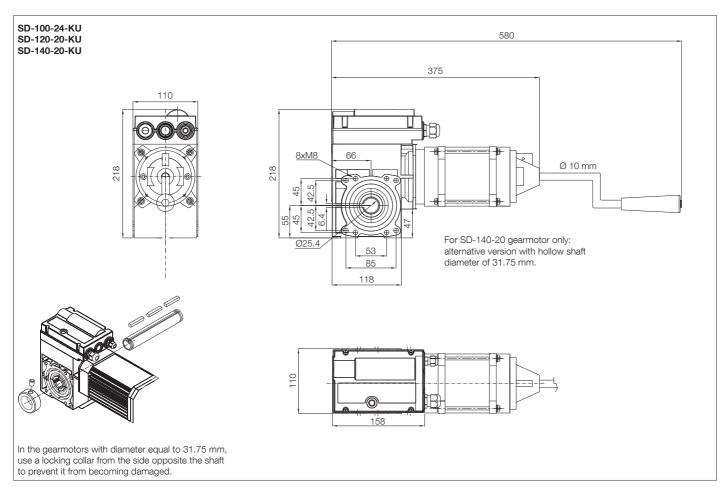




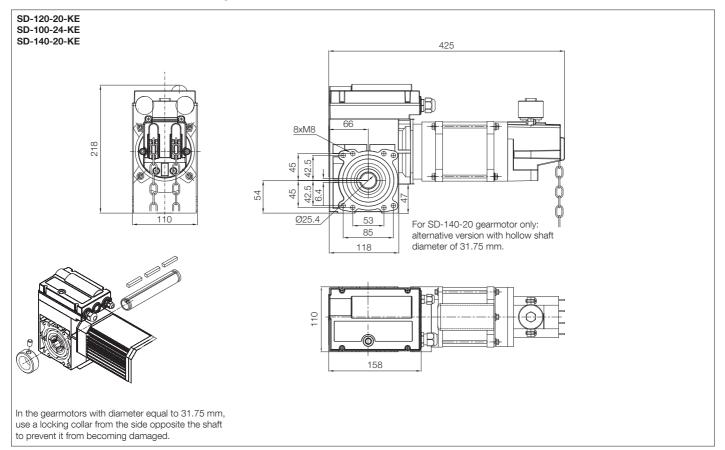


Nice SW/SD series technical drawings for sectional doors

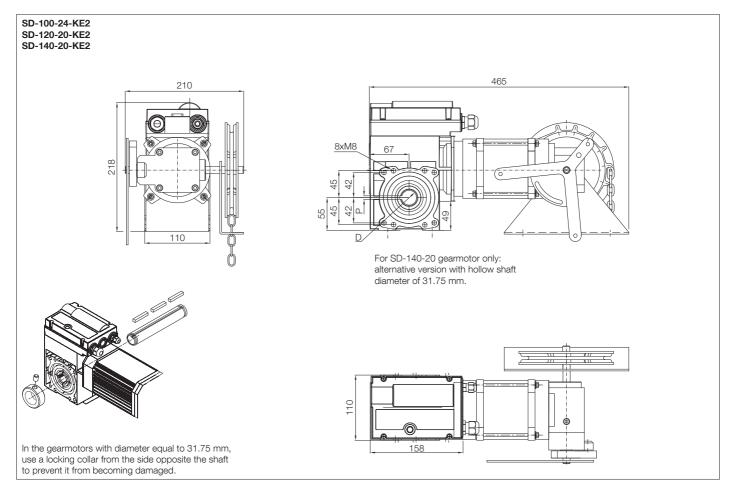
Model SD series, release with handle



Model SD series, release with light chain



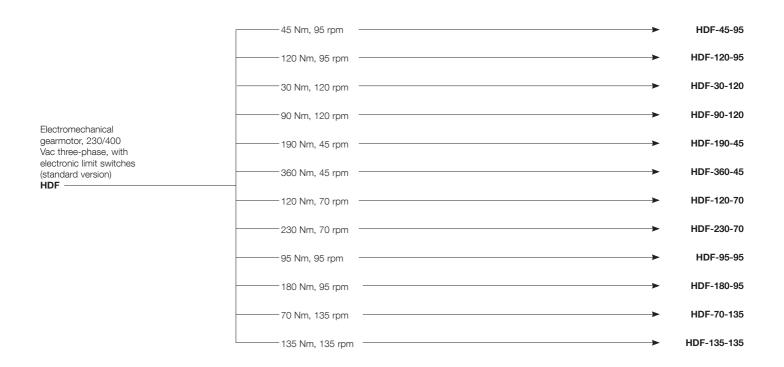
Model SD series, release with chain



Nice HDF series for high speed doors selection guide

Follow the arrow and choose the right product

For high speed doors



Selection guide of the acceptable maximum weights according to the model and winding pipe with inverter at 50 Hz

_							HDF series						
Ē		45-95	120-95	30-120	90-120	190-45	360-45	120-70	230-70	95-95	180-95	70-135	135-135
20 (r	108,0 x 3,6	46	46	31	93	187	280	93	187	98	187	612	820
102	133,0 x 4,0	37	37	25	76	152	228	76	152	80	152	499	668
EN	159,0 x 4,5	31	31	21	64	128	191	64	128	67	128	418	560
pipe	177,8 x 5,0	28	28	19	57	114	171	57	114	60	114	375	502
teel	193,7 x 5,4	26	26	18	53	105	158	53	105	55	105	344	461
Ś	219,1 x 5,9	23	23	15	46	93	139	46	93	49	93	305	405

The weight table is based on a friction value of 20%, with a sheet thickness of 2 mm.

For frequencies greater than 50 Hz the maximum weight is reduced by 5% for each frequency increase of 10%; the values shown in the table are calculated for operation with max. 80 Hz.

Please note:

If gearmotor operation without inverter is planned, it must be clearly indicated in the order because in this case it may be necessary to equip the gearmotors with a more powerful brake.



Nice HDF series gearmotors for high speed doors



Complete preassembled kits

Code	Description
NDCK0408	HDF-30-120 gearmotor with electronic limit switch and shaft diameter of 30 mm, UST1-FU station with K5 module and Schuko plug, 1.5 kW inverter, shielded 5 m cable
NDCK0209	HDF-95-95 gearmotor with electronic limit switch and shaft diameter of 40 mm, UST1-FU station with K5 module and Schuko plug, 2.2 kW inverter, shielded 5 m cable

Gearmotors

Description
HDF-30-120 gearmotor with mechanical limit switch and shaft diameter of 30 mm
HDF-45-95 gearmotor with electronic limit switch and shaft diameter of 30 mm
HDF-135-135 gearmotor with mechanical limit switch and shaft diameter of 40 mm

Electromechanical gearmotor for high speed doors, with electronic* limit switches, handle-operated emergency (KU series), integrated parachute device, brake and fixing bracket.

Simple installation:

The HDF series is to be installed directly on the shaft of the door (Ø 25 mm, Ø 30 mm and Ø 40 mm). Cables equipped with connectors simplify electrical connections.

Complete gearmotor-cable-inverter-station kits are directly wired in production and allow installation time to be further reduced.

Compact and efficient:

torque up to 360 Nm speed up to 135 rpm at 50 Hz.

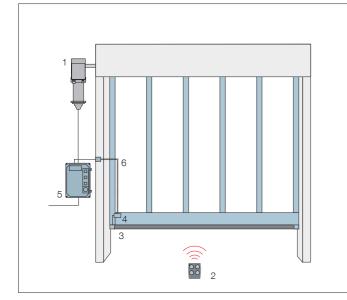
Practical: release available with handle-operated emergency.

Unbeatable safety:

due to the integrated antifall safety system and the chance to connect safety devices and optical or resistive 8.2 k Ω sensitive bars, the gearmotors are compliant with the most recent European standards and directives.

Recommended control unit UST1-FU **UST1-FU** with integrated inverter.

*Versions with mechanical limit switch for use without inverter, to be associated with the other UST series stations, are also available.



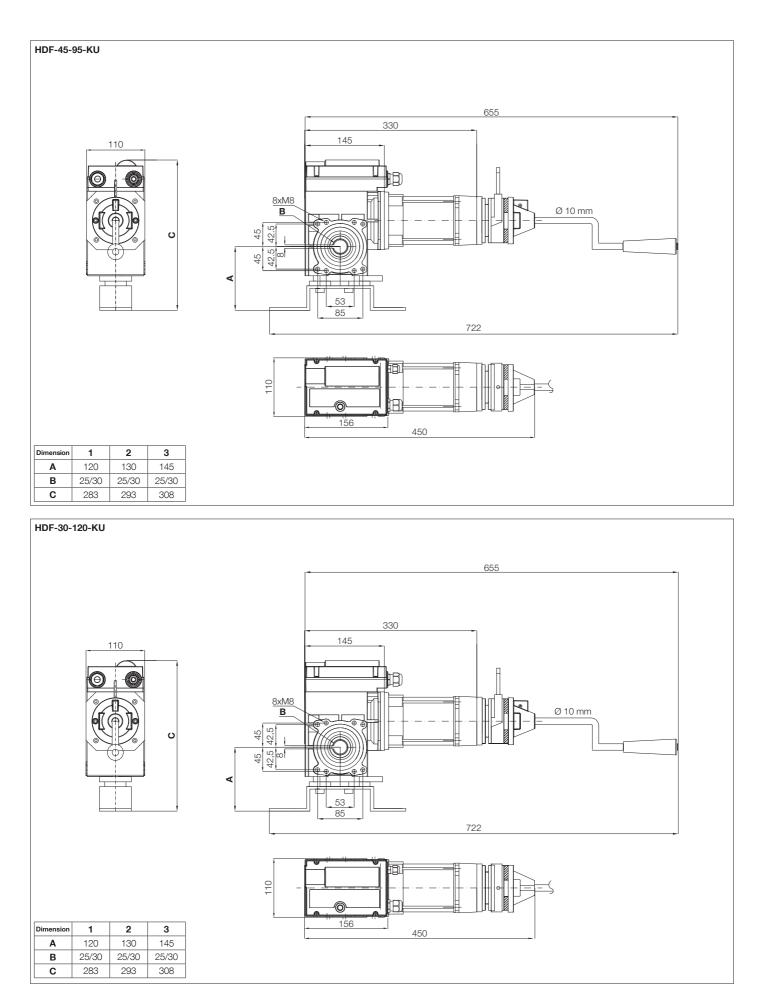


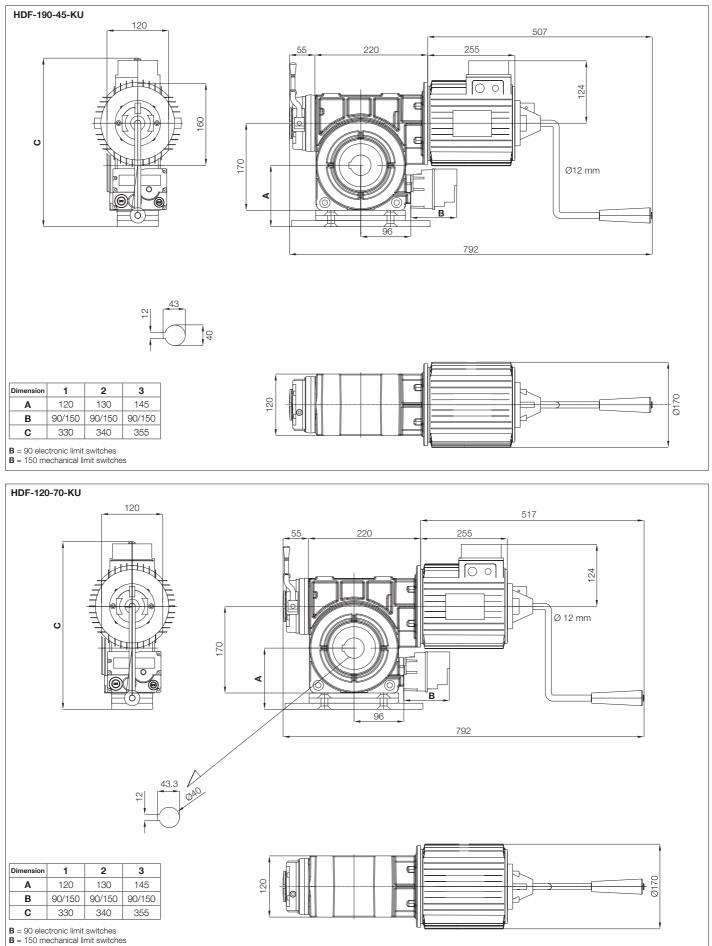
Technical data

Туре	HDF-45-95	HDF-120-95	HDF-30-120	HDF-90-120	HDF-190-45	HDF-350-45		
Shaft Ø (mm)	25/30	25/30	25/30	25/30	40	40		
Max. torque (Nm)	45	120	33	90	190	350		
Rated torque (Nm)	36	100	30	80	170	300		
Speed at 50 Hz (rpm)	95	95	120	120	45	45		
Motor power (kW)	0,75	1,1	0,75	1,1	1,5	2,2		
Limit switch rpm	15	15	15	15	10-20	10-20		
Working voltage (V/Hz)	3x230 V / 3x400 V 50 Hz							
Duty Cycle			S 3 -	- 60%				
Connection cable (no. x mm ²)			5 ×	: 1,5				
Operating temperature (°C)		-5÷+40						
Noise dB(A)	<70							
Protection rating (IP)	IP 54							
Weight (kg)	16,9	16,9	15,8	15,8	30,5	34		

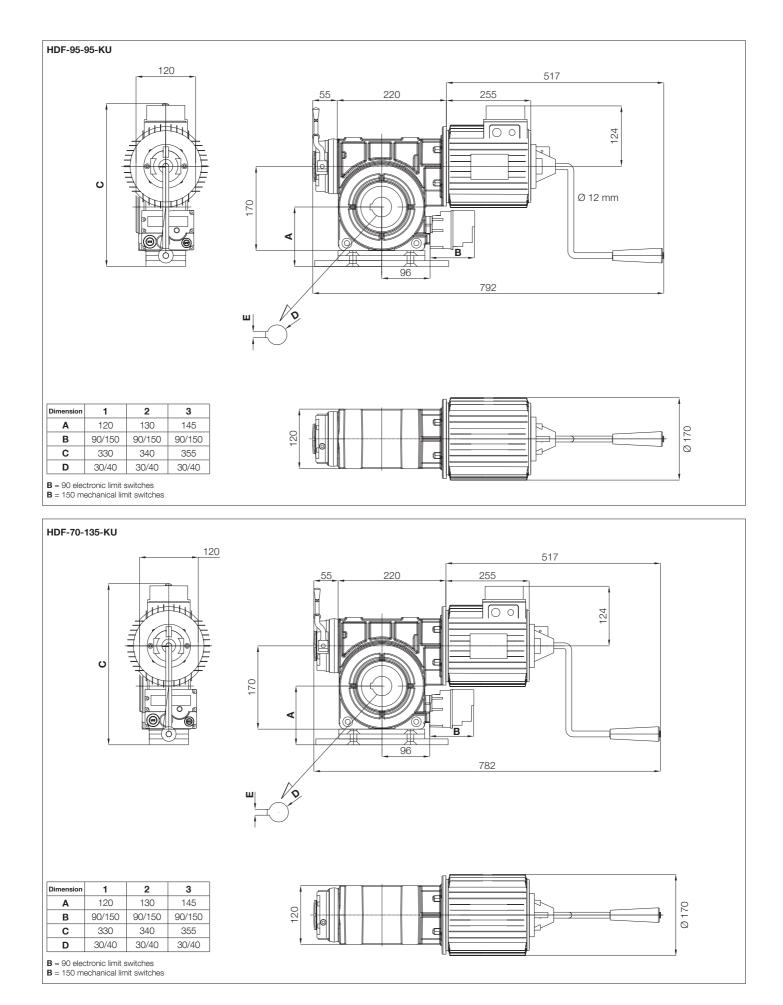
Туре	HDF-120-70	HDF-230-70	HDF-95-95	HDF-180-95	HDF-70-135	HDF-135-135		
Shaft Ø (mm)	40	40	30/40	30/40	30/40	30/40		
Max. torque (Nm)	120	230	95	180	70	135		
Rated torque (Nm)	100	200	90	150	55	100		
Speed at 50 Hz (rpm)	70	70	95	95	135	135		
Motor power (kW)	1,5	2,2	1,5	2,2	1,5	2,2		
Limit switch rpm	10-20	10-20	10-20	10-20	10-20	10-20		
Working voltage (V/Hz)			3x230 V / 3>	(400 V 50 Hz				
Duty Cycle			S 3 -	60%				
Connection cable (no. x mm ²)			5 x	1,5				
Operating temperature (°C)		-5 ÷ +40						
Noise dB(A)		<70						
Protection rating (IP)		IP 54						
Weight (kg)	30,5	34	30,5	34	30,5	34		

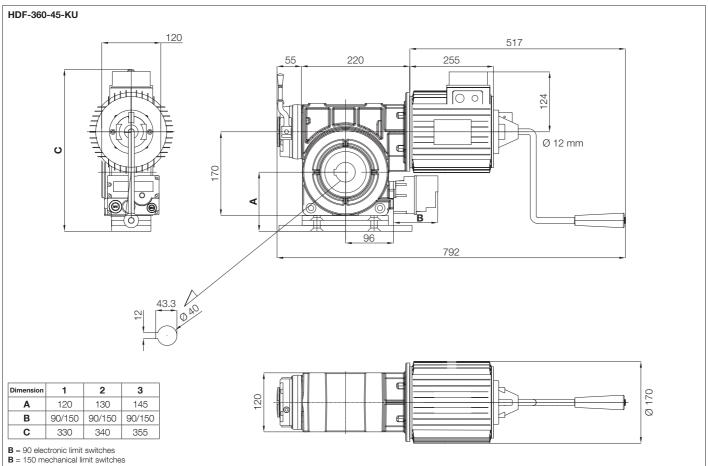
Nice HDF series technical drawings for high speed doors



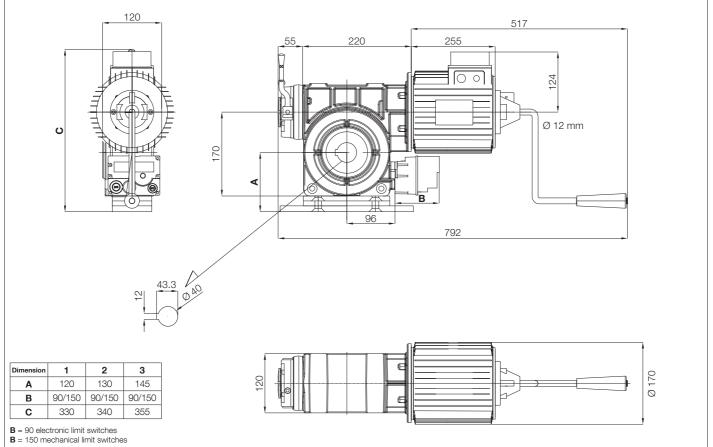


Nice HDF series technical drawings for high speed doors

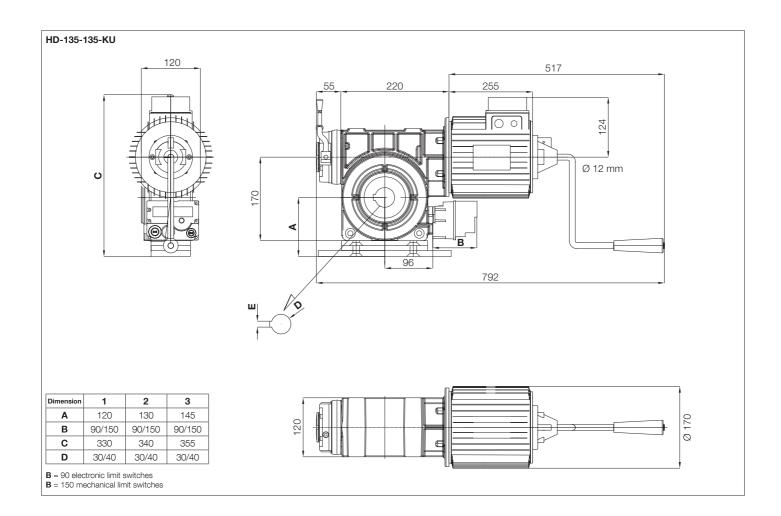






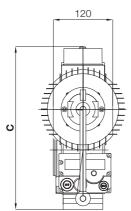


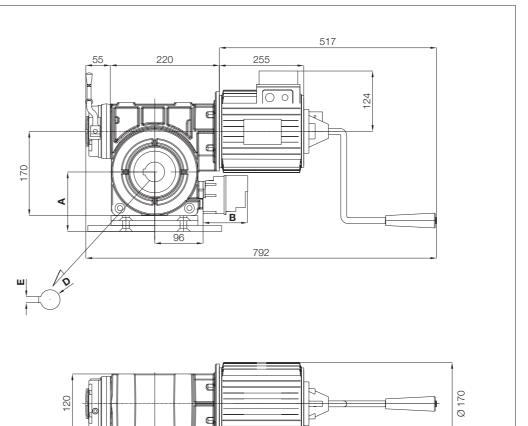
Nice HDF series technical drawings for high speed doors



Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | Dimension D: shaft diameter Dimension E: 8 mm for 30 mm shaft; 12 mm for 40 mm shaft | 1, 2, 3: possibilities available







С	330	340	355
D	30/40	30/40	30/40

2

130

90/150

3

145

90/150

 $\mathbf{B} = 90$ electronic limit switches $\mathbf{B} = 150$ mechanical limit switches

1

120

90/150

Dimension

A

В

Nice Industrial 33

Nice RDF series for rolling shutters selection guide

Follow the arrow and choose the right product

For rolling shutters

	140 Nm, 20 rpm	 RDF-140-20
Three-phase	220 Nm, 15 rpm	 RDF-220-15
	290 Nm, 15 rpm	 RDF-290-15
	380 Nm, 15 rpm	 RDF-380-15
	450 Nm, 15 rpm	 RDF-450-15
	550 Nm, 12 rpm	 RDF-550-12
electromechanical, gearmotor 400 Vac,	750 Nm, 9.5 rpm	 RDF-750-9.5
with mechanical or electronic limit switches	850 Nm, 10 rpm	 RDF-850-10
RDF	1100 Nm, 10 rpm	 RDF-1100-10
	1400 Nm, 7 rpm	 RDF-1400-7
	350 Nm, 24 rpm	 RDF-230-24
	350 Nm, 24 rpm	 RDF-350-24
	500 Nm, 24 rpm	 RDF-500-24
	750 Nm, 24 rpm	 RDF-750-24
	950 Nm, 24 rpm	 RDF-950-24
	1250 Nm, 24 rpm	 RDF-1250-24
	1400 Nm, 24 rpm	 RDF-1400-24

Max. shutter weight (kg):

		Steel pipe	EN 10220 (mn	n)								
	RDF series	101,6 x 3,6	108,0 x 3,6	133,0 x 4	159,0 x 4,5	177,8 x 5	193,7 x 5,4	219,1 x 5,9	244,5 x 6,3	273,0 x 6,3	298,5 x 7,1	323,9 x 7,1
tor	RDF-140-20	125	122	115	106	99	94	85	77	69	64	59
, mot	RDF 180-15	166	163	153	141	133	126	113	102	92	85	79
Geal	RDF-220-15	208	204	192	177	166	157	142	128	115	106	98
G	RDF-290-15	260	255	240	221	207	197	177	160	144	133	123
	RDF-380-15	375	368	335	319	299	284	255	231	208	192	177
	RDF-450-15	416	408	383	354	332	315	284	256	231	213	197
	RDF-550-12	468	460	431	399	373	355	319	289	260	240	222
	RDF-250-24	239	235	220	203	190	181	163	147	133	122	113
	RDF-350-24	322	316	297	274	257	244	220	199	179	165	153
	RDF-500-24	468	460	431	399	373	355	319	289	260	240	222
	RDF-750-24	677	664	623	576	539	513	461	417	376	346	321
	RDF-950-24	885	868	815	753	705	671	603	545	492	453	419
	RDF-750-9.5	781	715	671	620	581	552	497	449	405	373	345
	RDF-1250-24	1145	1124	1055	975	913	869	781	706	637	586	543
	RDF-1400-24	1354	1324	1247	1152	1079	1026	923	835	753	693	642
	RDF-850-10	-	-	-	664	622	592	532	481	434	400	370
	RDF-1100-10	-	-	-	842	788	750	675	610	550	506	469
	RDF-1400-7	-	-	-	1063	1038	987	888	770	724	666	617

The table applies only to section bars with a single wall (thickness 20 mm). The dimensions must be taken into account for the winding if section bars with double wall, with greater thickness or higher are used.

It is generally advisable to check the door proportions when there are coverings, section bars with double wall, doors higher than normal or in the case of particular entry situations that could require other force ratios or cause additional losses of friction (e.g. doors that are wider than the height), for example.

In this case higher torque applies after 1-2 turns. A 20% loss of friction is considered for the normal rolling shutters in the table.



Indication of station choice to combine with the RDF gearmotors

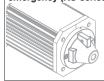
			•		
	RDF-140-20	RDF-380-15	RDF-750-10	RDF-250-24	RDF-950-24
	RDF-220-15	RDF-450-15	RDF-1000-10	fino a	RDF-1250-24
Control unit	RDF-290-15	RDF-550-12	RDF-1400-7	RDF-750-24	RDF-1400-24
UST2*	•	•			
UST1-5,5 kW					•
UST1-2,2 kW	•	•	•	٠	
UST1K-5,5 kW					•
UST1K-2,2 kW	•	•	•	٠	
UST1K-1,1 kW	•				

RDF series gearmotors

Nice RDF series gearmotors for rolling shutters



Handle-operated emergency (KU series)





Complete preassembled kits

Code	Description
NDCK0375	Gearmotor with electronic limit switch and handle release, UST1 station with K2 and K4 modules and EEC plug, 5 m cable
NDCK0206	Gearmotor gearmotor with mechanical limit switch and handle release, UST1 station with K1 module and EEC plug, 5 m cable

Gearmotors

Code	Description	
NDCM0079	RDF 220-15 gearmotor with mechanical limit switch and handle release, preassembled 7 m cable	
NDCM0080	RDF 290-15 gearmotor with mechanical limit switch and handle release, preassembled 7 m cable	
NDCM0110	RDF 380-15 gearmotor with mechanical limit switch and 5 m chain release, preassembled 7 m cable	
NDCM0131	RDF 450-15 gearmotor with mechanical limit switch and handle release, preassembled 7 m cable	
NDCM0149	RDF 550-12 gearmotor with mechanical limit switch and handle release, preassembled 7 m cable	
NCDM0108	RDF 750-9.5 gearmotor with mechanical limit switch and 5 m chain release, preassembled 7 m cable	
NDCM0033	RDF 1100-10 gearmotor with electronic limit switch and 5 m chain release, preassembled 9 m cable	

Electromechanical gearmotor for rolling shutters up to 750 kg, with integrated brake and mechanical or electronic limit switches, chain-operated emergency (KE2 series) or handle-operated emergency (KU series) with integrated parachute device.

Simple installation:

the gearmotor is to be installed directly on the shaft of the rolling shutter (Ø 30 mm, Ø 40 mm, Ø 55 mm). Connection cables equipped with connectors simplify electrical installation.

Complete Nice gearmotor-cable-station kits are directly wired in production and allow installation time to be further reduced.

Compact and efficient:

torque up to 550 Nm. speed up to 12 rpm.

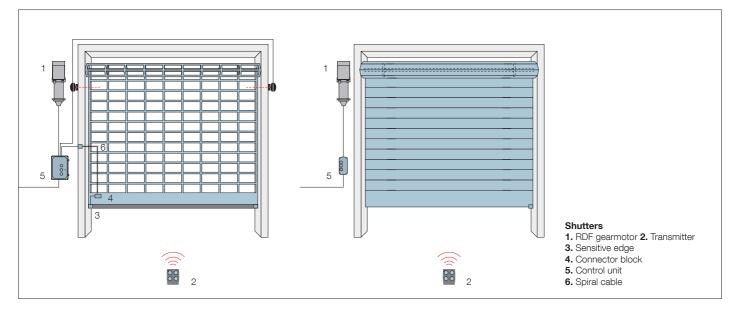
Unbeatable safety:

due to the antifall safety system and the chance to connect safety devices such as optical or resistive sensitive edges (8.2 k Ω). Gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

Practical:

- Release available in 2 versions
- handle-operated emergency
- chain-operated emergency, the ideal solution for every type of application.

Available on request: special accessories for fastening, shafts and discs to be welded.



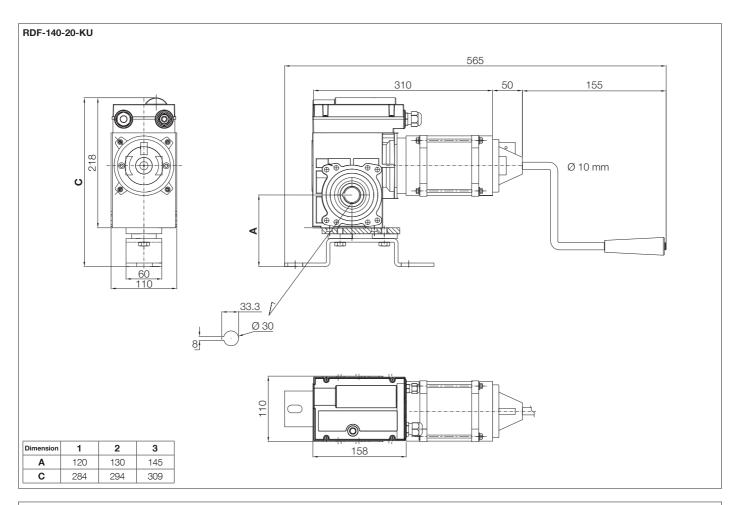
Technical data

Model	RDF-	140-20	220-15	290-15	380-15	450-15	550-12	750-9,5
Shaft Ø (mm)			30			2	40	
Max. torque (Nm)		140	220	290	380	450	550	750
Rated torque (Nm)		120	200	250	360	400	450	700
Output rpm		20	15	15	15	15	12	9,5
Motor power (kW)		0,55	1,1	1,1	1,5	1,5	1,5	1,5
Limit switch rpm		15	10-20	10-20	10-20	10-20	10	40
Working voltage (V/Hz)				3x2	230 V / 3x400 V 50) Hz		
Duty Cycle					S 3 - 60%			
Connection cable (no. x mm ²)					5 x 1,5			
Operating temperature (°C)					-5 ÷ +40			
Noise dB(A)					<70			
Protection rating (IP)					IP 54			
Weight (kg)		12,4	22	24	28,9	27,7	27,7	35

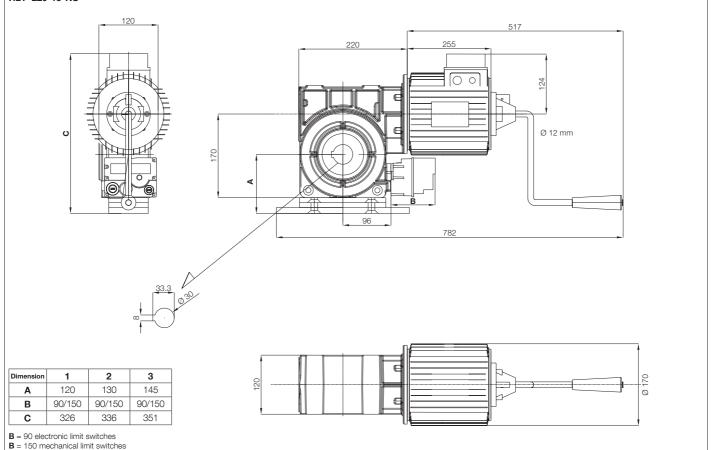
Model	RDF-	850-10	1100-10	1400-7	250-24	350-24	500-24	750-24	950-24	1250-24	1400-24
Shaft Ø (mm)			55			40			5	55	
Max. torque (Nm)		850	1100	1400	250	350	500	750	950	1250	1400
Rated torque (Nm)		700	950	1250	230	310	450	650	850	1100	1250
Output rpm		10	10	7	24	24	24	24	24	24	24
Motor power (kW)		2,2	2,2	2,2	1,1	1,5	2,2	2,2	3	4	5,5
Limit switch rpm		10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Working voltage (V/Hz)						3x230 V / 3x	400 V 50 Hz				
Duty Cycle						S 3 -	60%				
Connection cable (no. x mm ²)						5 x	1,5				
Operating temperature (°C)						-5 ÷	+40				
Noise dB(A)						<	70				
Protection rating (IP)						IP	54				
Weight (kg)		51,7	51,9	58	24,1	29,2	32,7	51,9	61	63	65

Gearmotors with integrated parachute device, independent of speed and position.

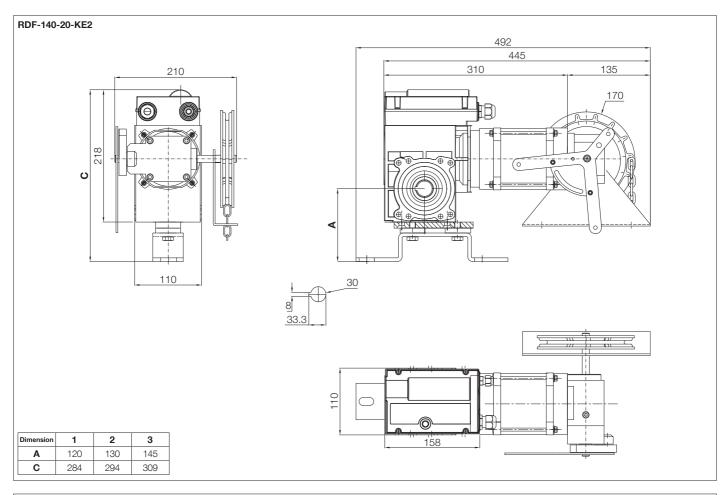
Nice RDF series technical drawings for rolling shutters



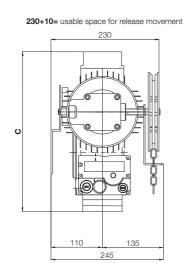


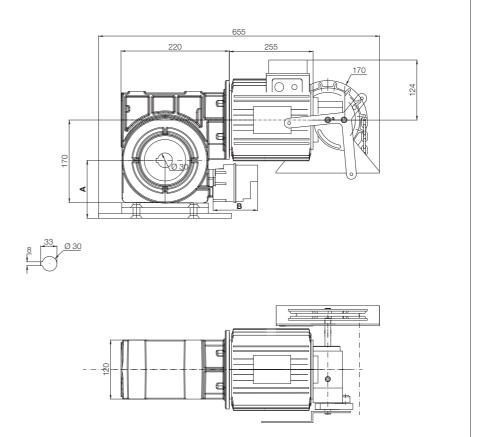


Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | 1, 2, 3: possibilities available



RDF-220-15-KE2





326 $\mathbf{B} = 90$ electronic limit switches $\mathbf{B} = 150$ mechanical limit switches

1

120

90/150

2

130

90/150

336

3

145

90/150

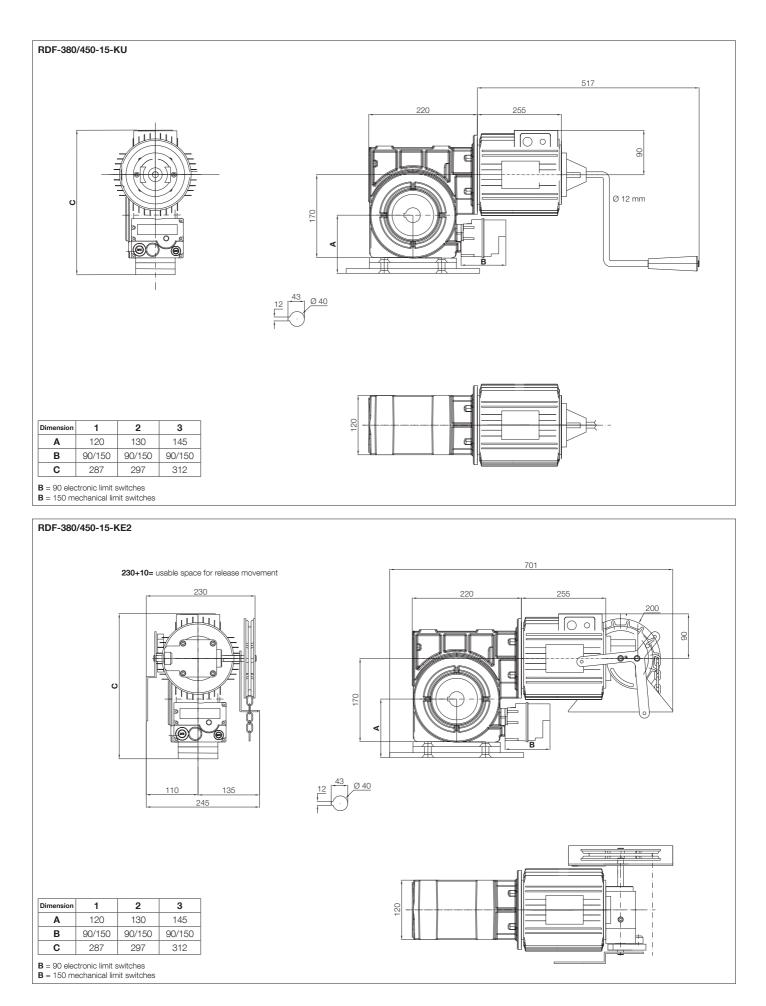
351

Dimension

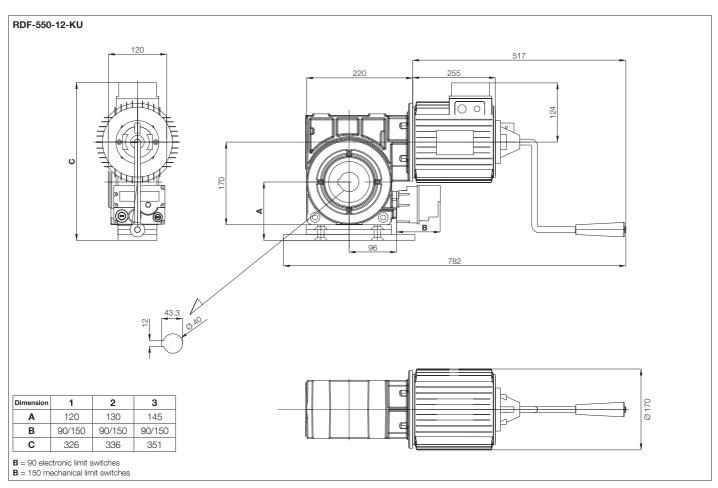
Α В

С

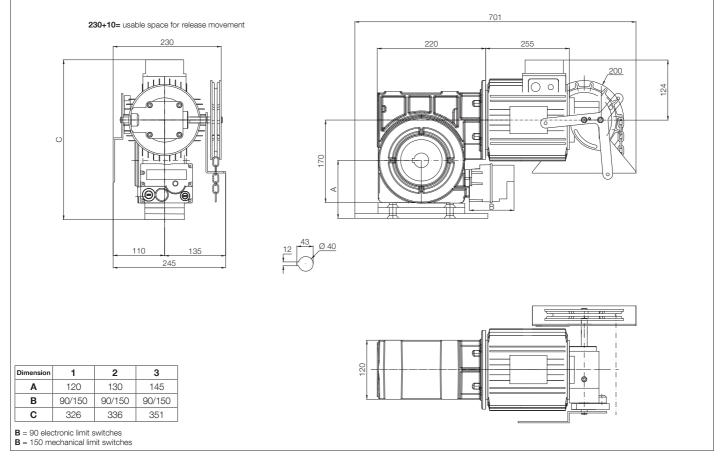
Nice RDF series technical drawings for rolling shutters



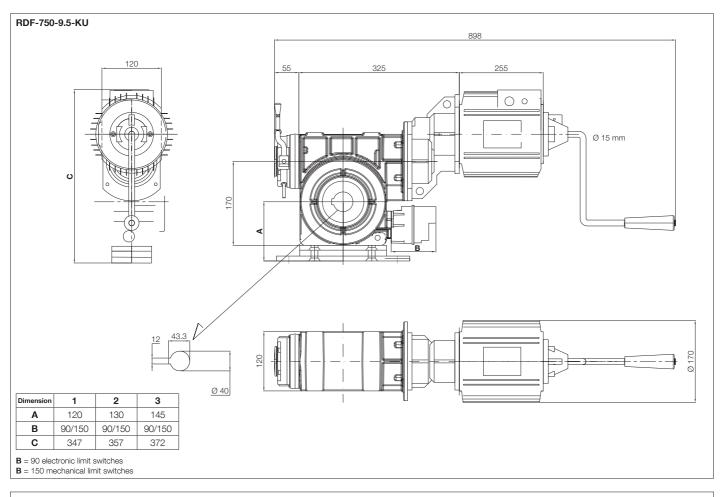
Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | 1, 2, 3: possibilities available



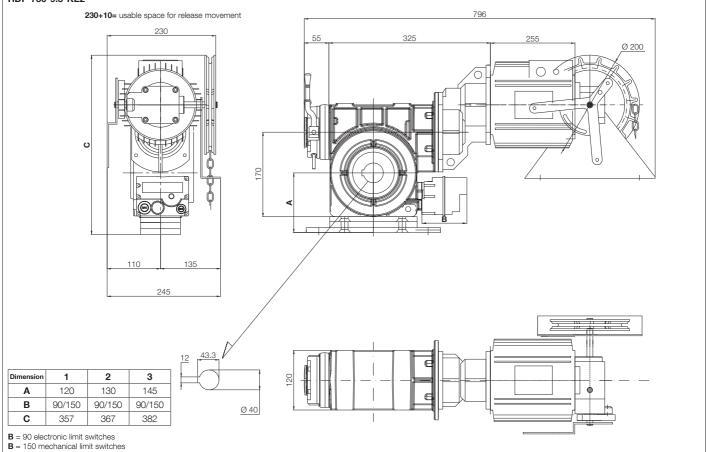
RDF-550-12-KE2



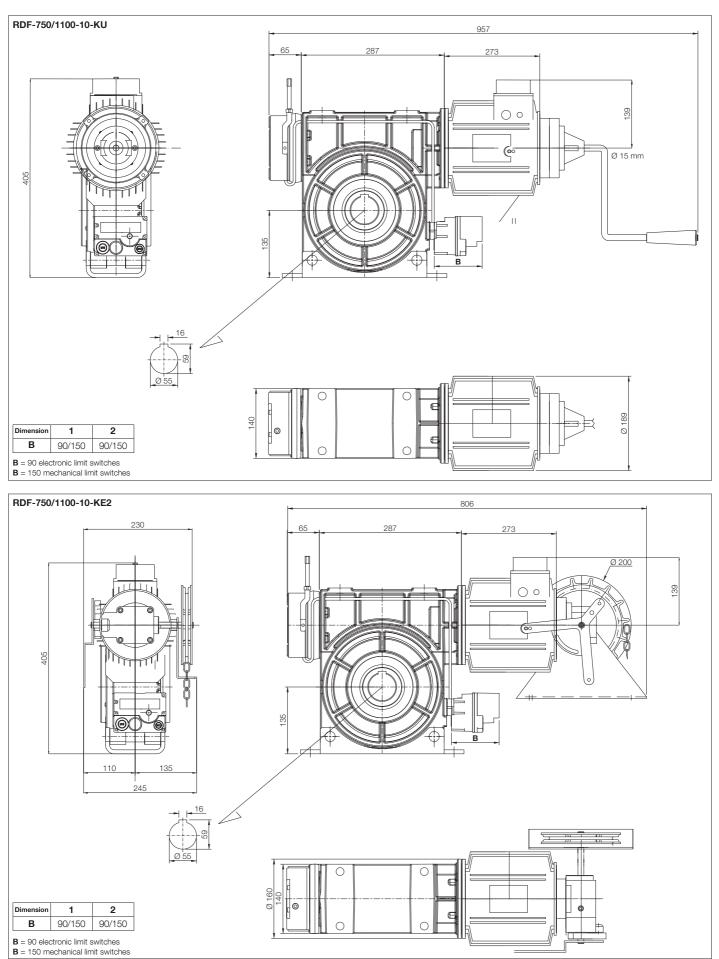
Nice RDF series technical drawings for rolling shutters



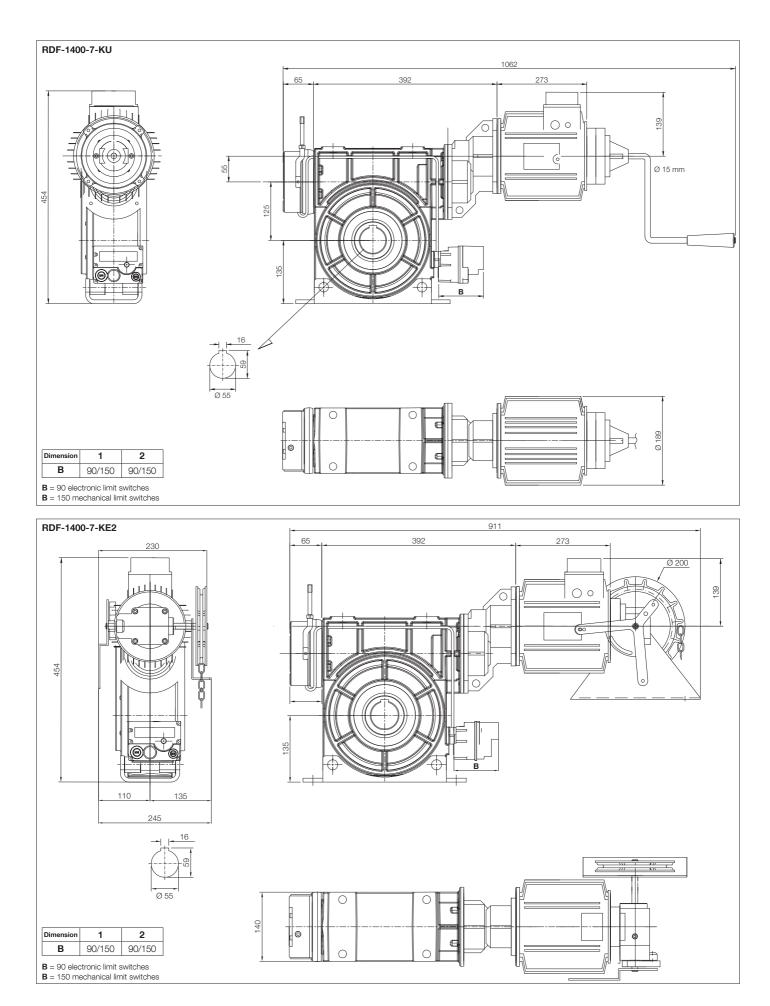




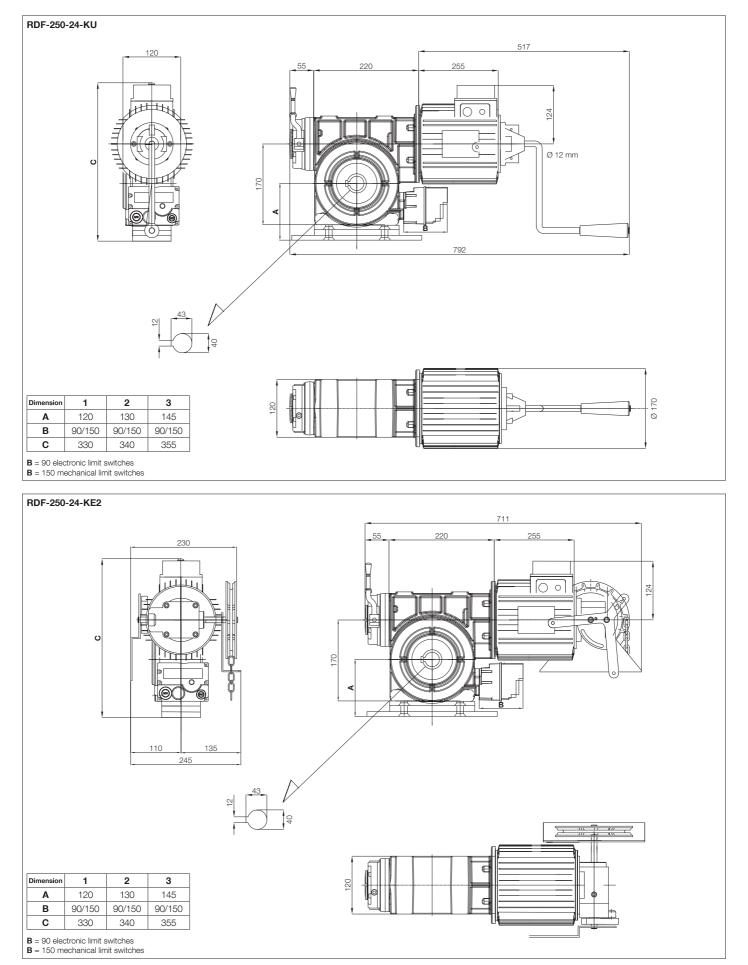
Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | 1, 2, 3: possibilities available



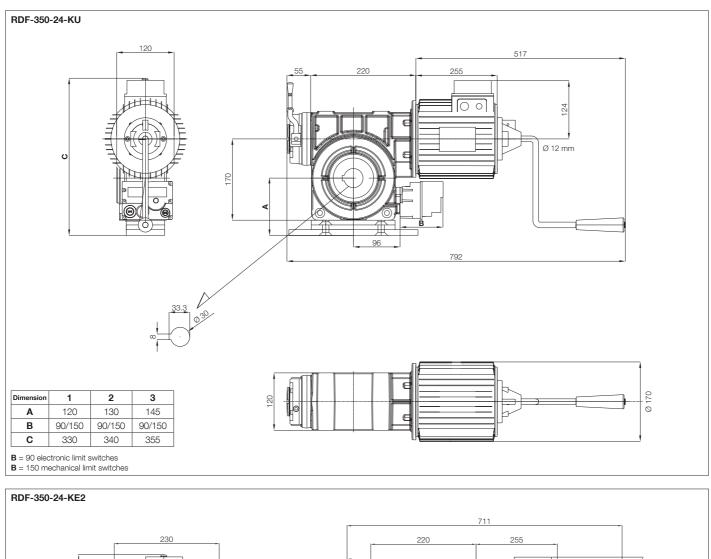
Nice RDF series technical drawings for rolling shutters



Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | 1, 2, 3: possibilities available



Nice RDF series technical drawings for rolling shutters



170

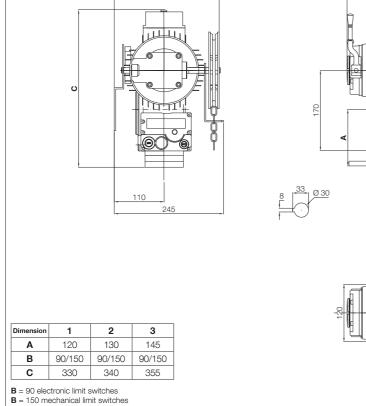
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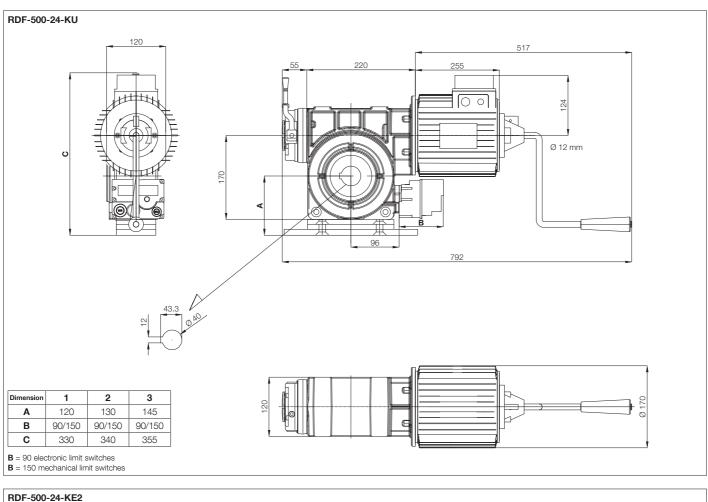
124

10 0

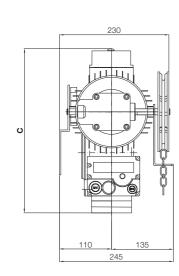
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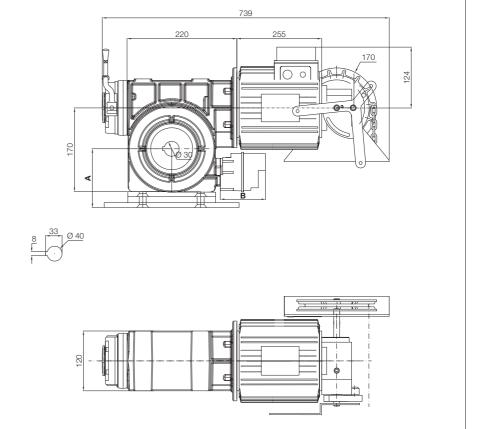


Key Dimension A: shaft centre - fixing bracket lower edge distance | Dimension B: limit switch housing length | Dimension C: gearmotor construction height | 1, 2, 3: possibilities available









330 $\mathbf{B} = 90$ electronic limit switches $\mathbf{B} = 150$ mechanical limit switches

1

120

90/150

2

130

90/150

340

3

145

90/150

355

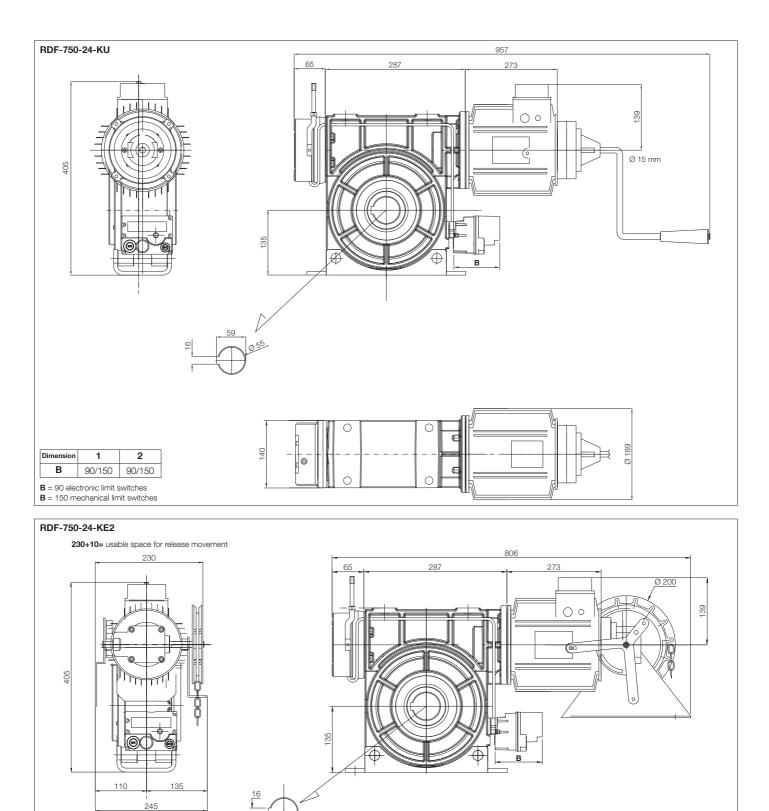
Dimension

Α

В

С

Nice RDF series technical drawings for rolling shutters



Ø 55

140

0

0

0

С

ø

Z

1

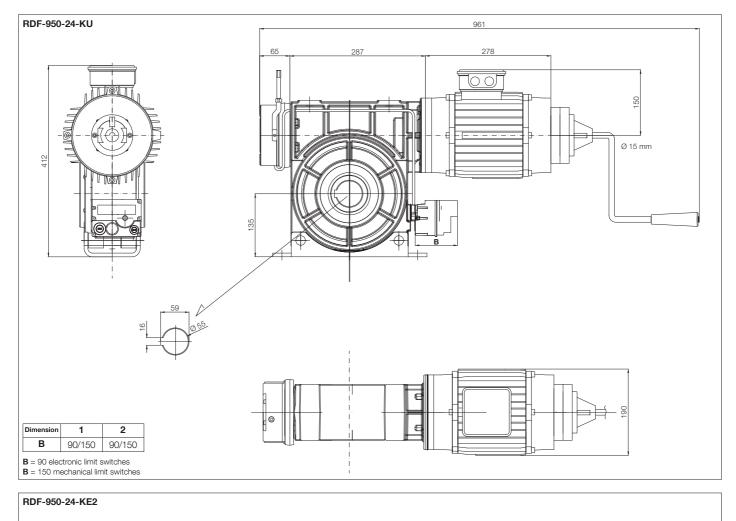
2

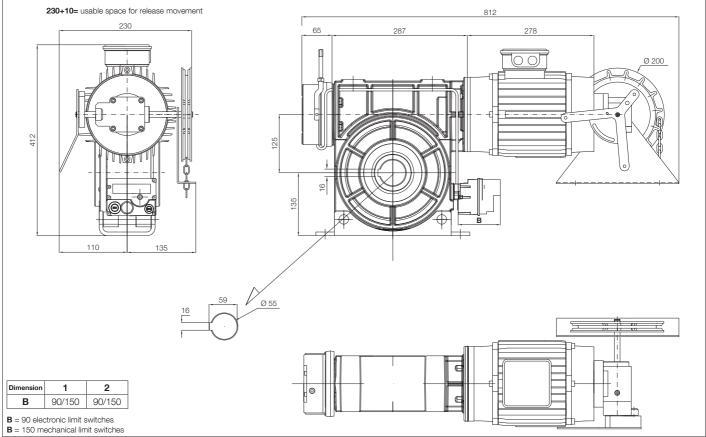
90/150

Dimension

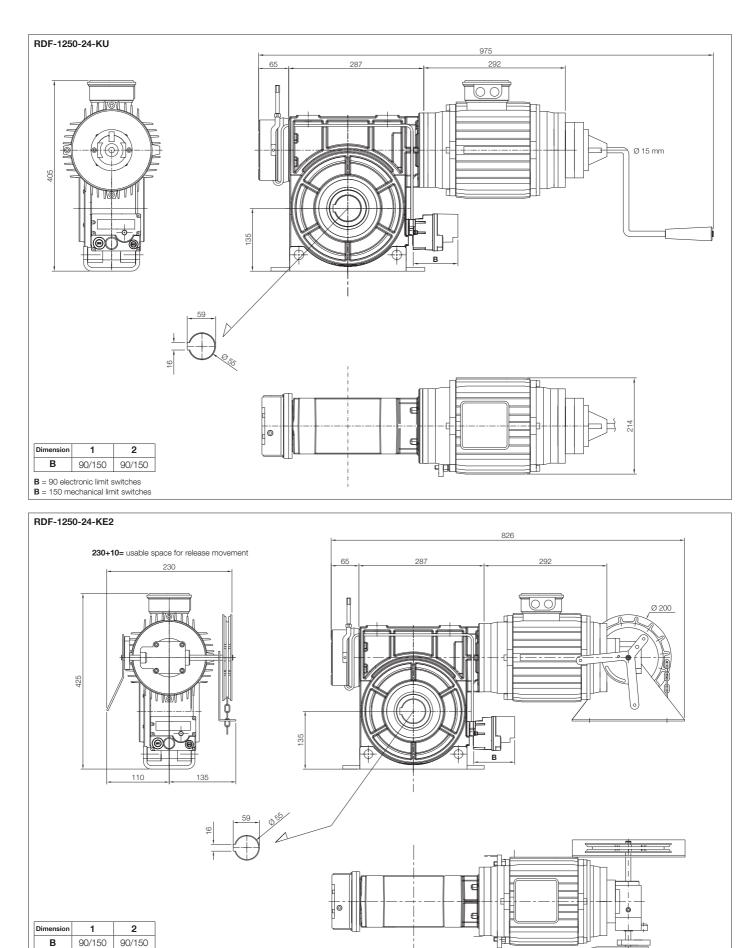
В

^{90/150} $\mathbf{B} = 90$ electronic limit switches $\mathbf{B} = 150$ mechanical limit switches



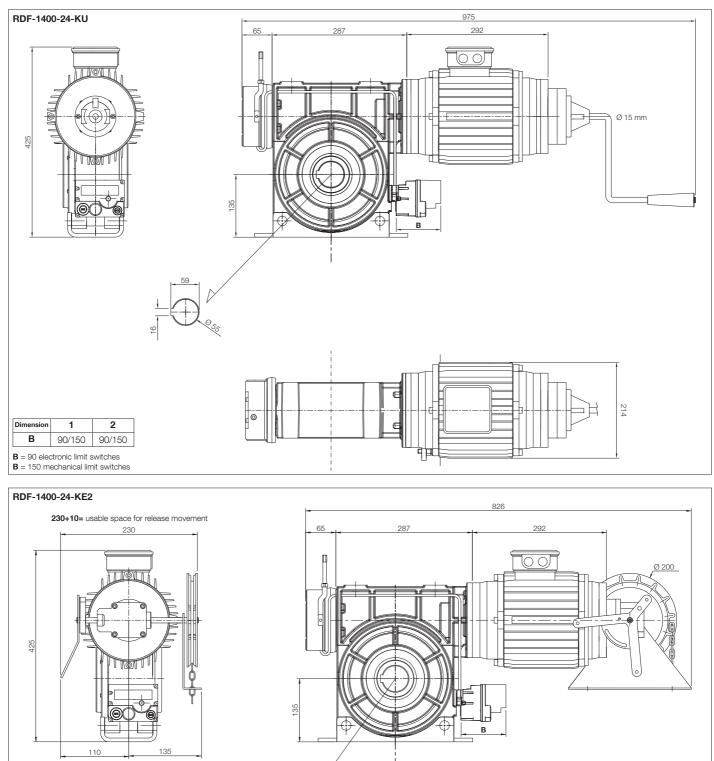


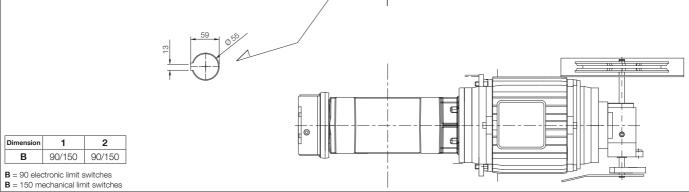
Nice RDF series technical drawings for rolling shutters



B = 90 electronic limit switches

 $\mathbf{B} = 150$ mechanical limit switches





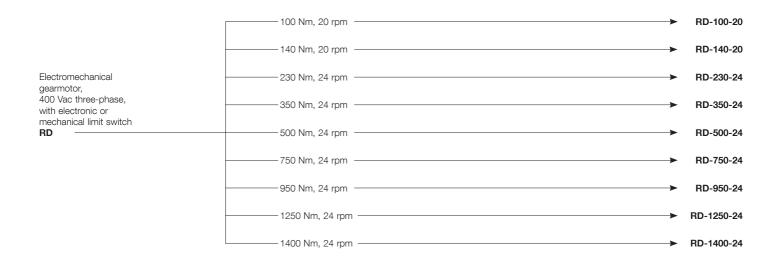
Dimension

В

Nice RD series for shutters with chain transmission selection guide

Follow the arrow and choose the right product

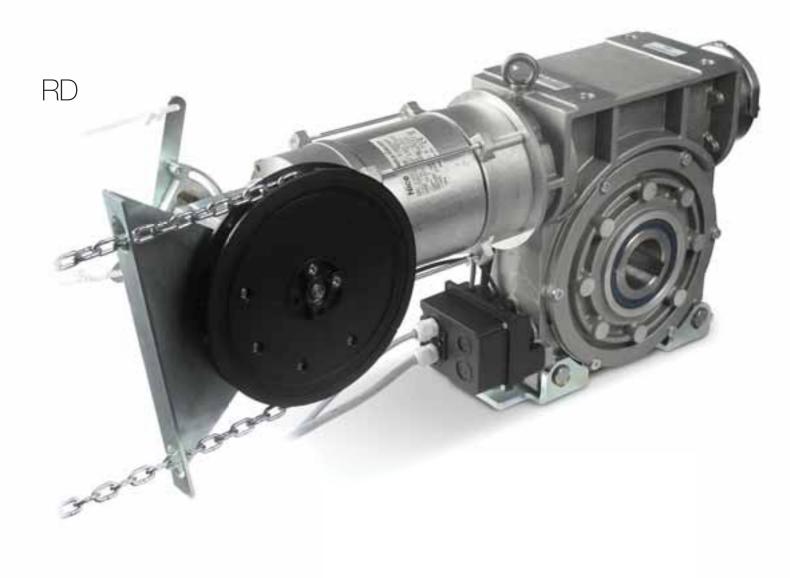
Gearmotors with chain transmission for rolling shutters



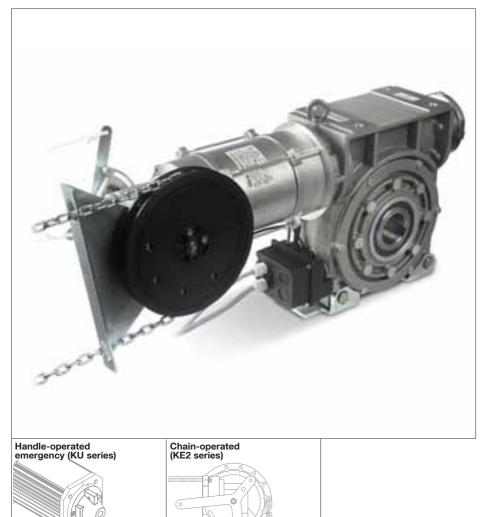
Indication of station choice to combine with the RD gearmotors

RD Series Gearmotors RD-230-24 RD-950-24 RD-100-20 RD-350-24 RD-1250-24 RD-140-20 RD-500-24 RD-1400-24 Control unit RD-750-24 UST2* • UST1 . . • UST1K-2.2 / 5.5kW ٠ ٠ ٠ UST1K-1.1kW •

* to use only for gearmotors with mechanical limit switch.



Nice RD series gearmotors for shutters with chain transmission



Electromechanical gearmotor for rolling shutters up to 5,550 kg.

With integrated brake. Chain-operated emergency (KE2 series) or handle-operated emergency with integrated parachute device.

Simple installation:

The gearmotor is to be connected directly on the shaft of the rolling shutter through a chain or toothed wheel (\emptyset 30 mm, \emptyset 40 mm and \emptyset 55 mm).

Connection cables equipped with connectors simplify electrical installation.

Practical:

- emergency release available in 2 versions:
- handle-operated emergency
- chain-operated emergency to offer the ideal solution for every type of application.

Compact and efficient:

torque up to 1400 Nm speed up to 24 rpm.

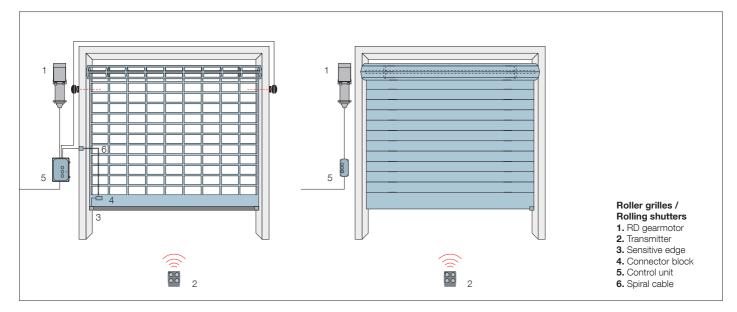
Unbeatable safety:

due to the antifall safety system and the chance to connect safety devices such as optical or resistive sensitive edges (8.2 k Ω).

Gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

Service factor: up to 60%.

Available on request: special accessories for fastening, shafts and discs to be welded.



Technical data

Model	RD-	100-20	140-20	230-24	350-24	500-24	750-24	950-24	1250-24	1400-24
Shaft Ø (mm)		30	30	40	40	40	55	55	55	55
Max. torque (Nm)		100	140	230	350	500	750	950	1250	1400
Rated torque (Nm)		80	120	200	310	450	650	850	1100	1250
Output rpm		20	20	24	24	24	24	24	24	24
Motor power (kW)		0,55	0,75	1,1	1,5	2,2	2,2	3	4	5,5
Limit switch rpm		15-40	15-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Working voltage/frequency (V/Hz)				·	3x23	0 V / 3x400 V	50 Hz			
Duty Cycle						S 3 - 60%				
Connection cable (no. x mm ²)						5 x 1,5				
Operating temperature (°C)						-5 ÷ +40				
Noise dB(A)						<70				
Protection rating (IP)						IP 54				
Weight (kg)		14,5	15	28	33	37	57	65	67	69

Nice RD series gearmotors for shutters with chain transmission

Selection table for reduction ratios 2:1, 3:1, 3.8:1 and 4.5:1

Max. shutter weight (kg)

Initial speed (cm/s)

Steel	pipe	EN	10220	(mm)	
olecoi	pipe		10220	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Gearmotor

		101,6 x 3,6	108 x 3,6	133 x 4	159 x 4,5	177,8 x 5	193,7 x 5,4	219,1 x 5,9	244,5 x 6,3	273 x 6,3	298,5 x 7,1	323,9 x 7,1
	RD-100-20	208	203	191	176	165	157	142	128	115	106	98
	RD-100-20	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	DD 440.00	290	285	268	248	231	220	198	179	162	149	138
	RD 140-20	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-230-24	479	470	440	407	381	363	326	295	266	245	227
	ND-200-24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-350-24	729	715	670	620	580	552	496	449	405	373	350
	ND-330-24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
5	RD-500-24	1040	1021	958	885	830	789	710	642	579	533	494
Ň	ND-300-24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-750-24	1561	1532	1438	1328	1245	1184	1065	963	869	800	741
	110-730-24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-950-24	1979	1942	1822	1684	1577	1500	1350	1220	1101	1013	938
	110-330-24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-1250-24	2604	2555	2398	2216	2075	1974	1776	1605	1449	1333	1235
	110 1200 24	6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-1400-24	2916	2862	2878	2482	2324	2210	1989	1798	1623	1493	1383
		6,4	6,7	8	9,4	10,4	11,2	12,5	13,9	15,3	16,7	18
	RD-100-20	310	304	286	264	247	235	212	192	173	159	147
	RD-100-20	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD 140-20	437	427	402	370	347	330	298	268	243	223	207
	ND 140-20	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-230-24	718	705	662	610	571	544	490	442	400	367	340
	nD-200-24	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-350-24	1093	1072	1006	9930	870	827	745	674	608	560	518
	110-000-24	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
3:1	RD-500-24	1560	1532	1438	1329	1244	1184	1065	962	869	799	740
က	110 000 21	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-750-24	2343	2300	2158	1993	1868	1775	1598	1445	1304	1200	1111
	110 100 21	4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-950-24	2968	2912	2734	2525	2366	2250	2024	1830	1651	1520	1407
		4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-1250-24	3906	3832	3598	3322	3114	2960	2664	2408	2173	2000	1852
		4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12
	RD-1400-24	4375	4292	4030	3722	3486	3315	2984	2696	2434	2240	2074
		4,2	4,5	5,3	6,3	6,9	7,5	8,4	9,2	10,2	11,1	12

ATTENTION:

Valid for shutters 20 mm thick.

The weight table is based on a loss of friction value of 20%

Max. shutter weight (kg)

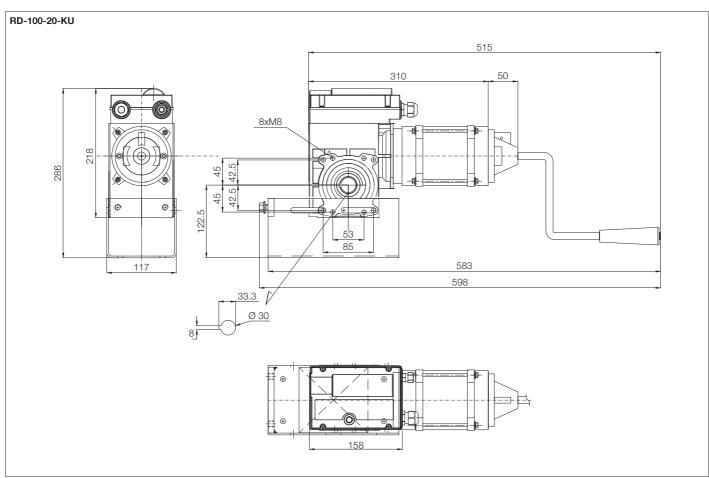
Initial speed (cm/s)

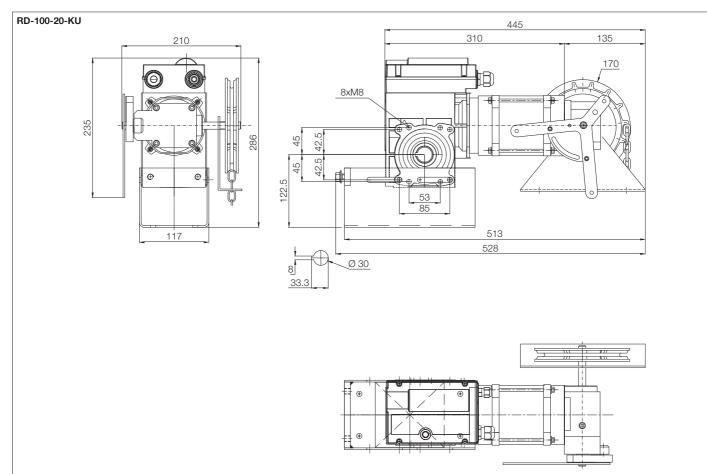
Steel pipe EN 10220 (mm)

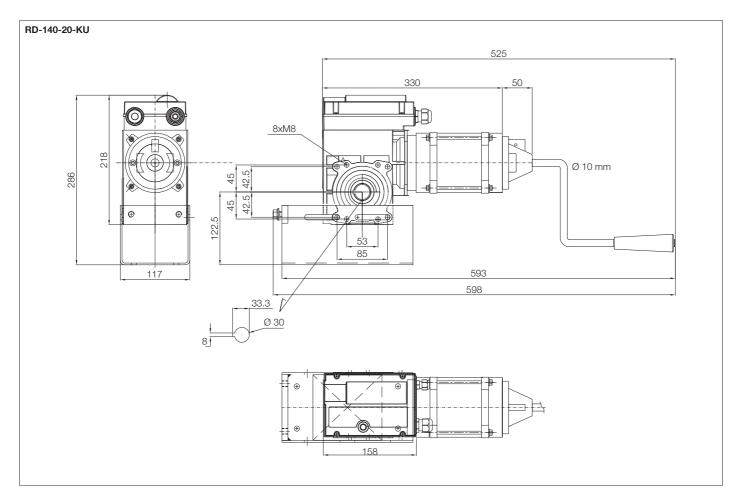
Gearmotor

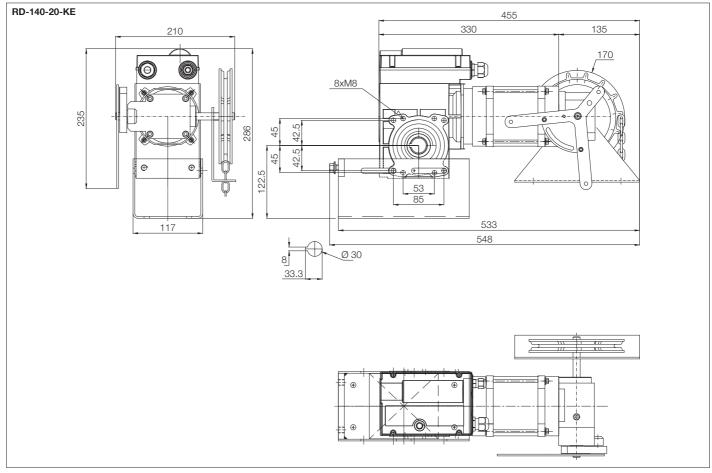
		101,6 x 3,6	108 x 3,6	133 x 4	159 x 4,5	177,8 x 5	193,7 x 5,4	219,1 x 5,9	244,5 x 6,3	273 x 6,3	298,5 x 7,1	323,9 x 7,1
	DD 400 00	392	385	363	335	313	300	270	243	220	293	187
	RD-100-20	3,4	3.5	4.2	4.9	5,5	5,9	6,6	7.3	8.1	8.8	9.5
		552	543	510	470	439	420	378	340	307	413	262
	RD 140-20	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-230-24	907	970	838	773	725	690	620	560	505	738	430
	RD-230-24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-350-24	1385	1358	1275	1178	1102	1050	945	853	770	1032	657
	RD-300-24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
3,8:1	RD-500-24	1977	1942	1823	1682	1575	1500	1350	1220	1100	1475	937
с С	ND-300-24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-750-24	2965	2910	2735	2525	2365	2250	2025	1830	1652	2215	1407
	nD-750-24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-950-24	3957	3690	3465	3200	2995	2850	2565	2318	2093	2805	1783
	ND-330-24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-1250-24	4945	4855	4558	4210	3943	3750	3375	3050	2753	3692	2345
	110 1200 24	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
	RD-1400-24	5540	5438	5105	4715	4733	4200	3780	3415	3084	4135	2627
	110 1100 21	3,4	3,5	4,2	4,9	5,5	5,9	6,6	7,3	8,1	8,8	9,5
		468	457	428	395	371	355	318	287	260	347	222
	RD-100-20	2,8	3	3.6	4,2	4.6	5	5,6	6.2	6,8	7.4	8
		655	8688	602	555	520	495	445	403	365	487	310
	RD 140-20	2,8	3	3.6	4,2	4.6	5	5,6	6.2	6,8	7.4	8
		1078	1055	990	915	858	815	733	663	600	873	510
	RD-230-24	2,8	3	3.6	4,2	4.6	5	5.6	6,2	6,8	7,4	8
	DD 050 04	1640	1610	1510	1395	1305	1242	1118	1010	912	1223	777
	RD-350-24	2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8
4,5:1	RD-500-24	2340	2300	2158	1992	1865	1775	1598	1443	1303	1748	1110
4	RD-300-24	2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8
	RD-750-24	43515	3450	3238	2990	2800	2665	2395	2165	1955	2623	1667
	ND-730-24	2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8
	RD-950-24	4450	4370	4100	3788	3548	3375	3035	2745	2477	3323	2110
	ND-330-24	2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8
	RD-1250-24	5885	5750	5395	4985	4670	4440	3995	3612	3260	4373	2778
	1200-24	2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8
	RD-1400-24	6500	6440	6045	5582	5230	4975	4475	4045	3652	4898	3112
		2,8	3	3,6	4,2	4,6	5	5,6	6,2	6,8	7,4	8

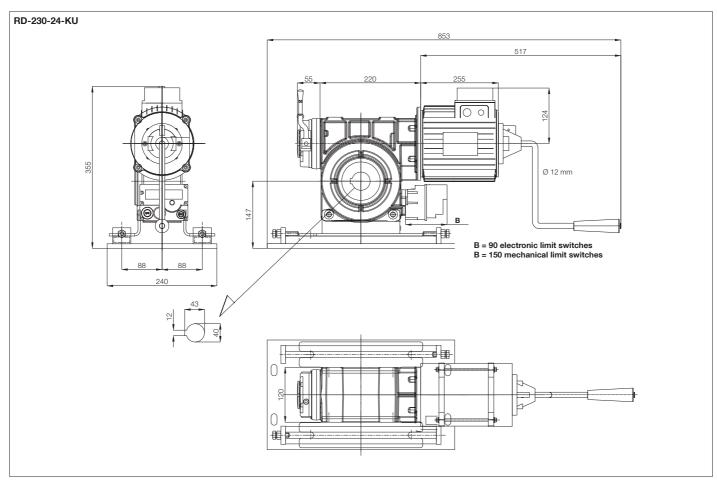
ATTENTION: Valid for rolling shutters 20 mm thick. The weight table is based on a loss of friction value of 20%

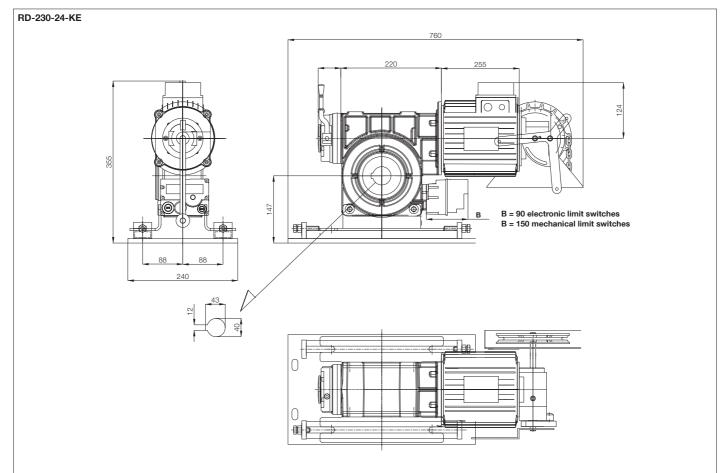


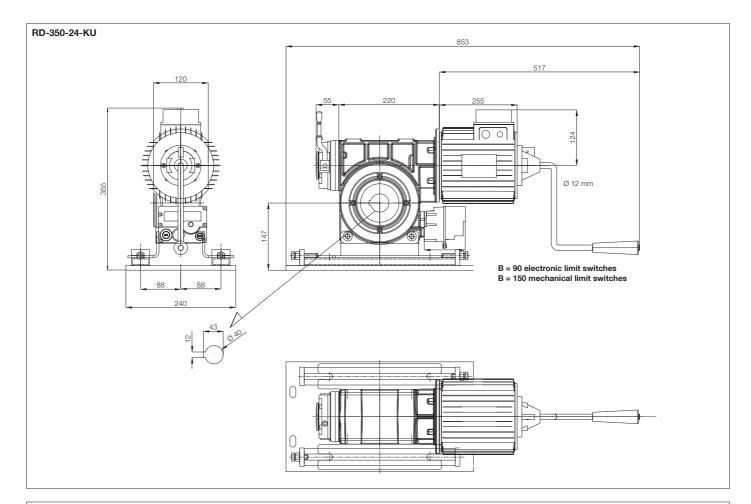




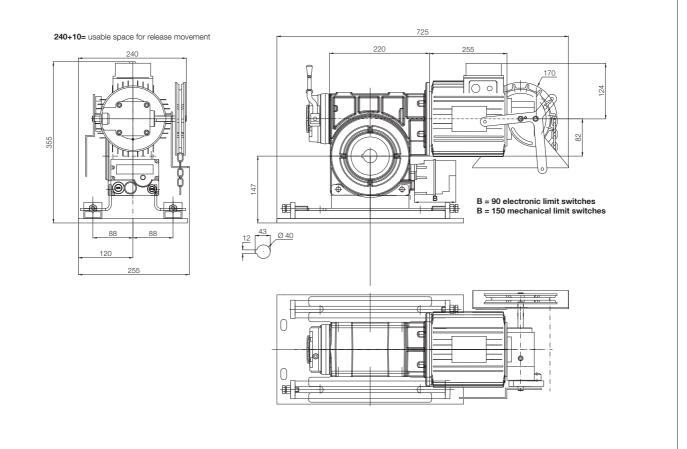


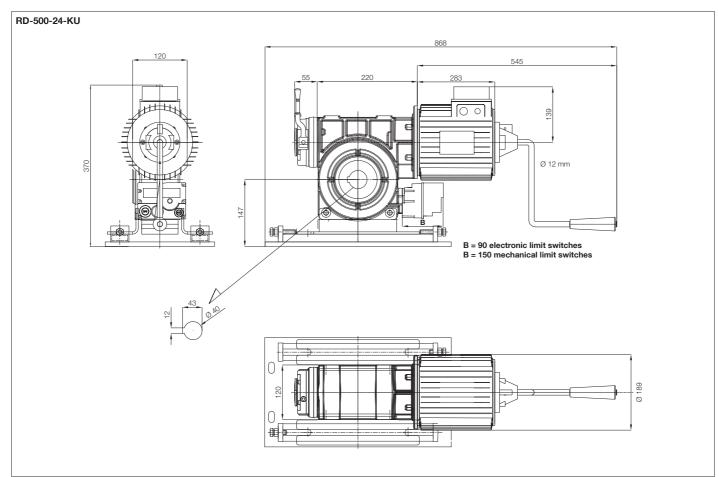




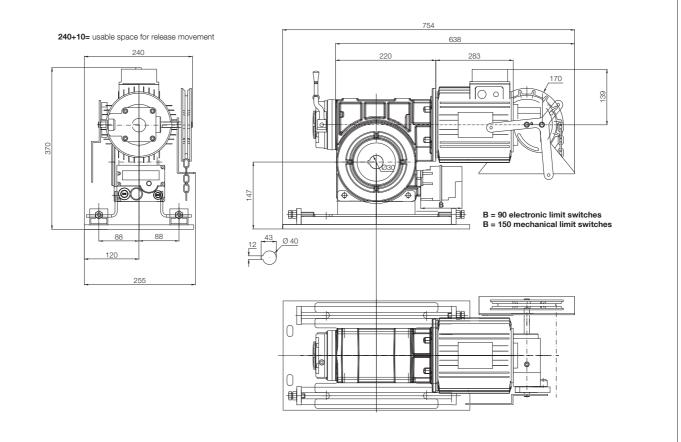


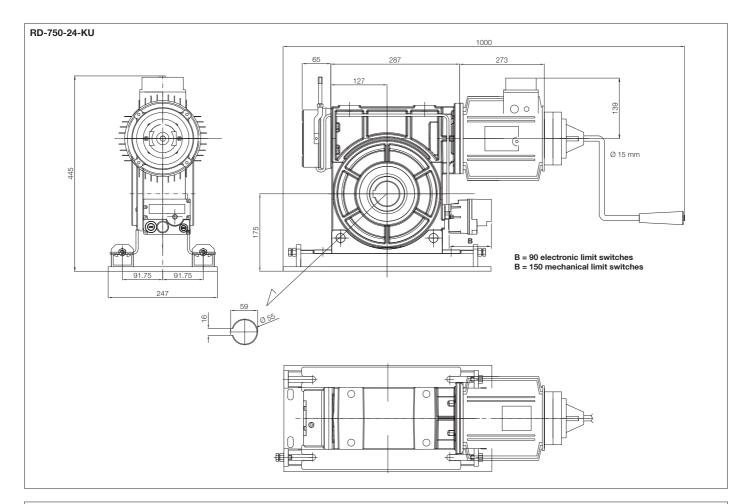
RD-350-24-KE



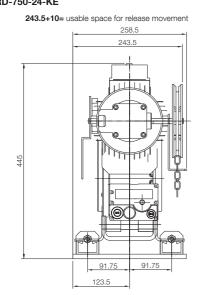


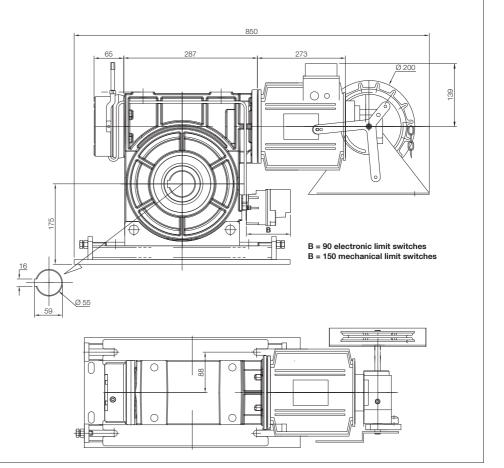
RD-500-24-KE

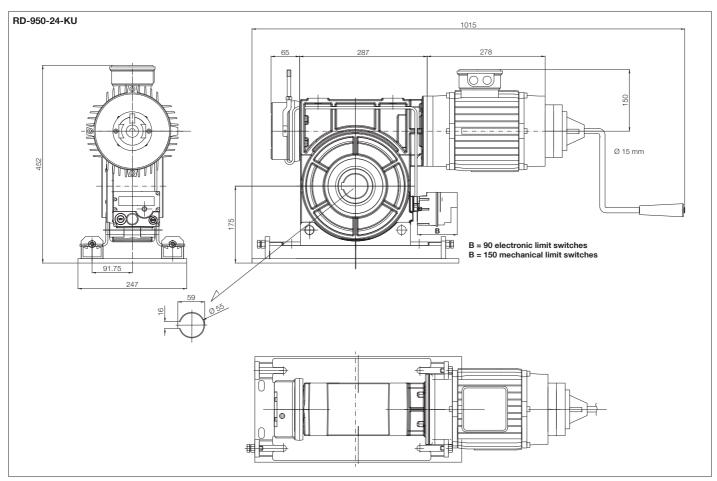


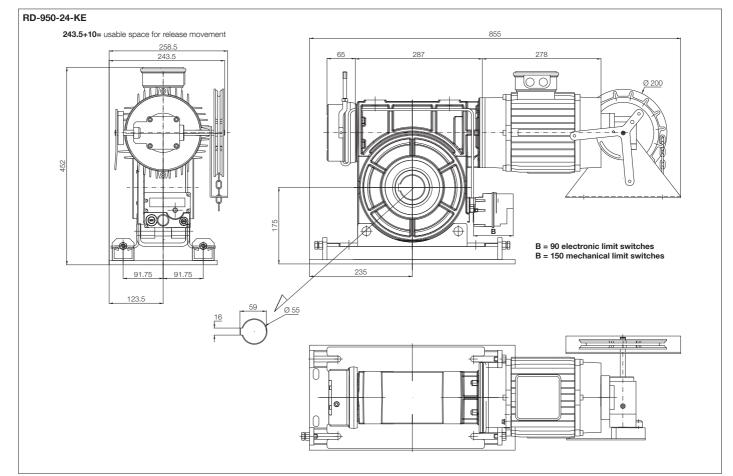


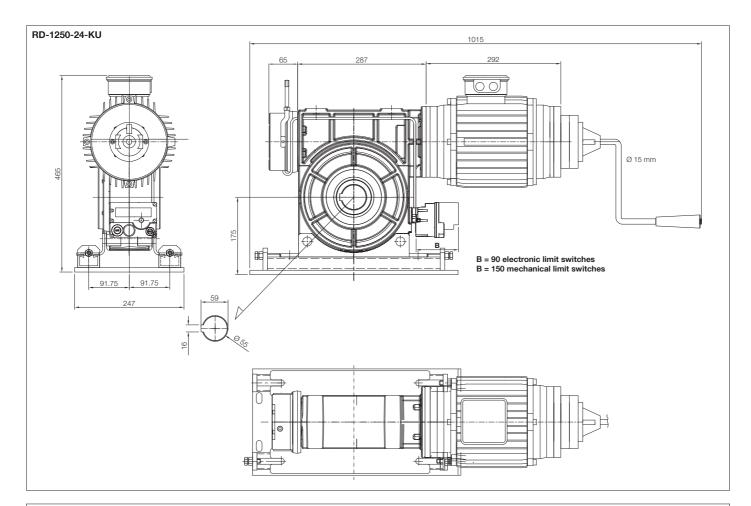
RD-750-24-KE



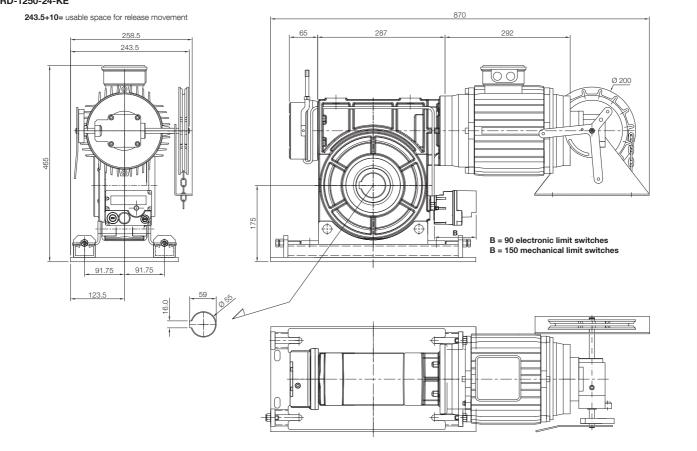


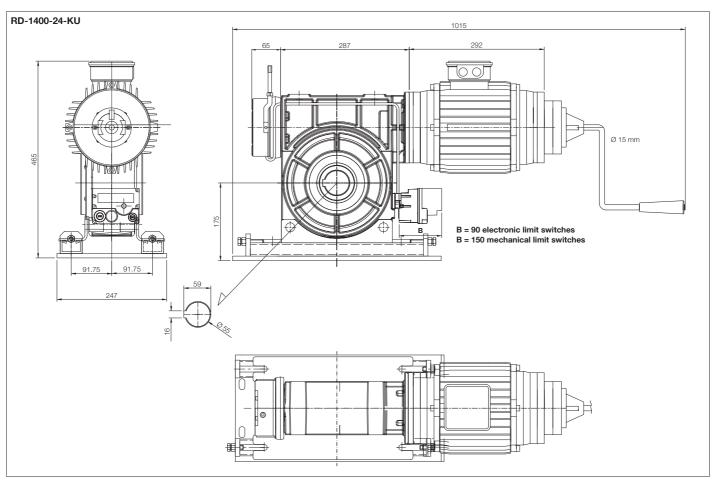


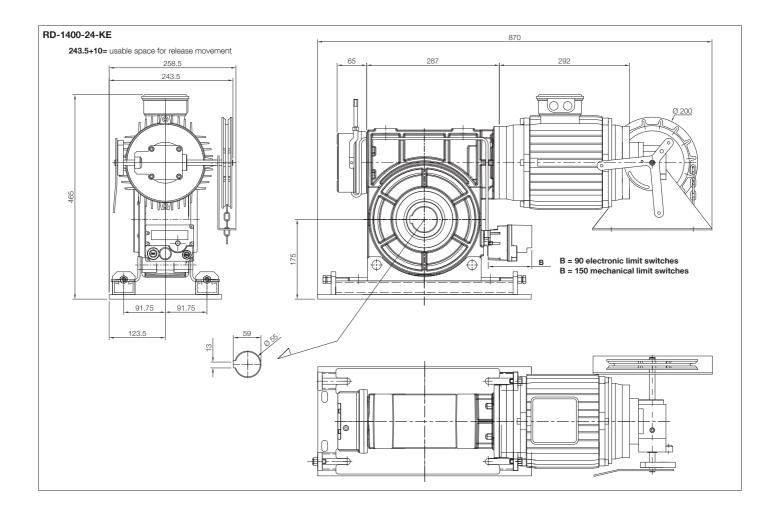












Nice Control units

The electronic control units complete the range of Nice IndustrialDoors products. They have been developed on the basis of many years of experience and offer the ideal solution for any requirement. Almost all Nice IndustrialDoors control units can be expanded with one or more additional modules. Every module performs a particular function so as to be able to always select and configure the ideal control system for every application.

All commonly used safety components, such as photocells, and sensitive optical and resistive (8,2 k Ω) edges, can be connected.

The additional modules for UST1 series control units make it possible to enable special functions and/or change all of the operations parameters, including waiting times, door opening positions, etc.

For sectional doors, rolling shutters and high speed doors

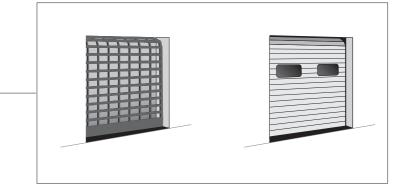
The stations of the UST1, UST1K and UST2 series are normally used to control gearmotors for sectional doors and rolling shutters. The UST1-FU version with integrated inverter is particularly recommended for gearmotors for high speed doors.

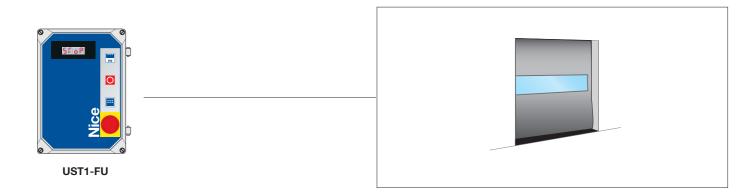


UST1 and UST1K



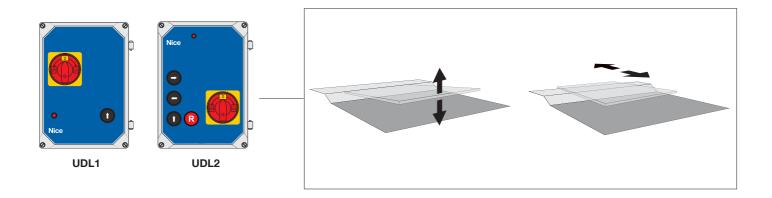






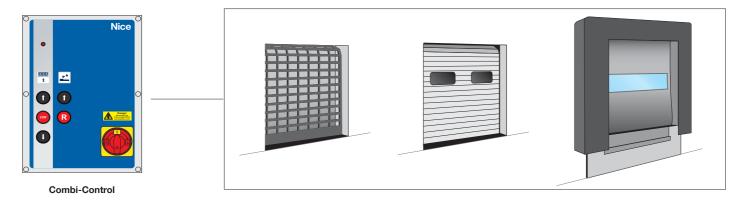
For loading ramps

The control units of the UDL1 and UDL2 series are dedicated to loading ramp movement with a choice of basic functions (UDL1) and advanced functions and customisations (UDL2).

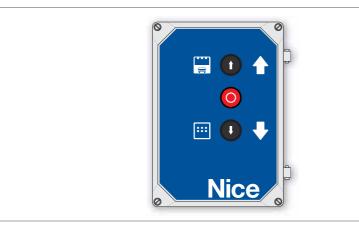


For sectional doors and shutters, loading ramps

The Combi Control unit combines the functions of the UST1K and UDL2 systems in the same housing to provide joint control of sectional doors and shutters, and loading ramps.



Nice UST1 control units



Code	Description
NDCC0008	UST1-2.2kW UST1-2.2kW without plug
NDCC0009	UST1-2.2kW UST1-2.2kW with EEC plug

Technical data

Туре	UST1-2,2kW	UST1-5,5kW	
Power supply	3 x 400 Vac 50 Hz (wi	th 6 and/or 10 A fuses)	
Max. motor power	2.2 kW	5.5 kW	
Motor connection reverse contactor	2x3 NO relay contacts 400 V/max. 2.2 kVA	2x3 NO relay contacts 400 V/max. 5.5 kVA	
Power at rest	<	3VA	
Ambient temperature	from -20°	C to +50°C	
Control voltage	24 Vdc Additional	delayed 0.8 A fuse	
Protection rating	IP 54 (IP 65	5 on request)	
Dimensions	255 x 120 x 18	80 mm (HxDxW)	

Nice UST1K control units



Code	Description	
NDCC0022	UST1K-1.1 kW station with EEC plug	
NDCC0029	UST1K-1.1 kW with signalling LED and EEC plug	

Technical data

Туре	UST1K-1,1kW	UST1K-2,2kW	UST1K-5,5kW
Power supply	3 x 400 V	ac 50 Hz (with 6 and/or 1	0A fuses)
Max. motor power	1.1 kW	2.2 kW	5.5 kW
Motor connection - reverse contactor	2x3 NO relay contacts 400 V/max. 1.1 kVA	2x3 NO relay contacts 400 V/max. 2.2 kVA	2x3 NO relay contacts 400V/max. 5.5 kVA
Power at rest		< 4VA	
Ambient temperature		from -20°C to +50°C	
Control voltage	24 Vo	Ic Additional delayed 0.8	A fuse
Protection rating		IP 54	
Dimensions	25	5 x 120 x 180 mm (HxW)	<d)< td=""></d)<>

UST1 control unit with deadman mode. It is ideal for sectional doors and rolling shutters. It is possible to connect different expansion modules to operate additional functions.

The UP and DOWN buttons on the cover are used to operate the door.

Simplec ontrol

- Deadman mode
- Direction of rotation control
- Operation with mechanical limit switch
- Connection of additional modules
- Operation with electronic limit switch (optional)
- Connection of OXI2 radio (optional)
- Emergency stop switch (optional)Connection of external control transmitters.

For gearmotors up to 2.2kW - UST1-2.2kW.

For gearmotors up to 2.2kW - UST1-2.2kW. For gearmotors up to 5.5kW - UST1-5.5kW.

UST1K control unit. It is ideal for sectional doors and rolling shutters. It is possible to connect different expansion modules to operate additional functions.

The UP and DOWN buttons on the cover are used to operate the door.

Flexibility

- Automatic and deadman modes
- Direction of rotation control
- Operation with electronic or mechanical limit switch
- Connection of additional modules
- Connection of OXI radio (optional)
- Emergency stop switch (optional)
- Connection of external control transmitters

For gearmotors up to 1.1kW - UST1-1.1kW. For gearmotors up to 2.2kW - UST1K-2.2kW. For gearmotors up to 5.5kW - UST1K-5.5kW.

Nice UST1-FU control units



Technical data

Туре	UST1-FU
Power supply	1 x 230V AC 50Hz (10A protection) 3 x 400V AC 50Hz (16A protection)
Power at rest	< 4VA
Ambient temperature	from -20°C to +50°C
Control voltage	Additional delayed 0.8A fuse
Protection rating	IP 54 (IP 65 optional)
Dimensions	255 x 180 x 120 mm (HxWxD)

The UST1-FU control unit is ideal for high speed doors. It is possible to connect different expansion modules to activate additional functions.

The UP and DOWN buttons on the cover are used to operate the door.

Dedicated model for high speed doors, sold only in combination with the inverter inside the kit (see page 26).

- Automatic and deadman modes
- Direction of rotation control
- Operation with electronic switch
- Connection of additional modules
- Connection of OXI radio (optional)Emergency stop switch (optional)
- Connection of external control
- transmitters

For operation with inverter. For gearmotors up to 2.2kW - UST1-FU. For gearmotors larger than 3 kW, with additional relay.

Nice UST2 control units



 Code
 Description

 NDCC0023
 Station with EEC plug

Technical data

Туре	UST2
Power supply	3 x 230 V / 400 V AC 50Hz (with 6 and/or 10 A fuses)
Max. motor power	2.2 kW
Motor connection - reverse contactor	2x3 NO relay contacts 400 V/max. 2.2 kVA
Ambient temperature	from -20°C to +50°C
Control voltage	24 Vdc Additional delayed 0.8 A fuse
Protection rating	IP 54 (IP 65 on request)
Dimensions	88 x 52 x 170 mm (WxDxH)

UST2 control unit with deadman mode. It is ideal for sectional doors and rolling shutters.

The UP and DOWN buttons on the cover are used to operate the door.

Simplec ontrol

- Deadman mode
- Direction of rotation control
- Operation with mechanical limit switch
- Connection of external control transmitters
- Connection of OXI2 radio (optional)
- Emergency stop switch (optional)

For gearmotors up to 2.2 kW - UST2.

With a small modification,

for the UST2 station it is possible to use the mechanical limit switch cables of the UST1 station or order dedicated cables. More information on request.

Nice UDL1 control units



UDL1 control unit with integrated phase control for loading ramps with extensible ends.

It is possible to connect a valve for loading ramp operation and a sensor for locking the ramp.

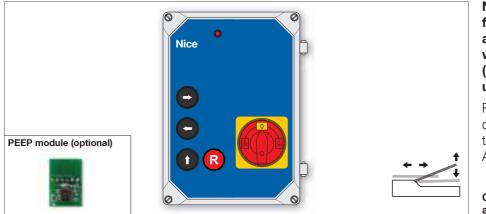
It is sufficient to push the "UP" button located on the control housing to operate the ramp.

Code	Description
NDCC0215	Control unit with EEC plug

Technical data

Туре	UDL1
Power supply	3x230V or 3x400V AC 50Hz, with internal switching with 3x6.3A T fuses
Power supply cable	5x1.5 mm ²
Power	Hydraulic motor ≤ 1.1 kW - Max. valve 24 W / 24 Vdc
Sensors	1 ramp locking sensor
Power at rest	< 5VA
Ambient temperature	from -20°C to +50°C
Protection rating	IP 54
Dimensions	255 x 120 x 180 mm (HxDxW)

Nice UDL2 control units



Code Description
NDCC0260 Control unit, without PEEP module, without plug

Technical data

Туре	UDL2
Power supply	3x230 V o 3x400 V AC 50 Hz, with internal switching with fuses 3x6.3A T
Power supply cable	5x 1.5mm ²
Power	Hydraulic motor ≤ 1.1 kW - Max. 3 valves 24 W / 24 Vdc
Sensors	4 sensors
Connection terminals	1.5 mm ² max.
Power at rest	< 5VA
Ambient temperature	from -20°C to +50°C
Protection rating	IP 54
Dimensions	255 x 120 x 180 mm (HxDxW)

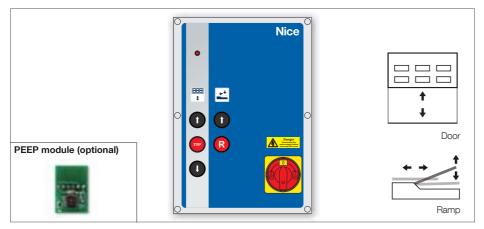
Nice UDL2 is a control unit for loading ramps with extensible and sliding ends, with operation with two or more valves (it is possible to connect up to 3 valves).

Ramp locking through the door control unit. Door locking through the ramp control unit. A wide range of connections.

Cutting-edget echnology and simple control:

- Wheel wedge
- Vehicle detector
- External and internal traffic lights
- Docklight (floodlight)Horn
- Forced lowering
- Position sensor
- Preassembled PEEP customisation module (optional)
- Automatic and deadman modes
- Emergency stop switch
- Ramp locking sensor connection
- Direction of rotation control
- Three-phase control

Nice Combi-Control control units



Code Description

NDCC0116 Combi Control control unit, with PEEP module, with EEC plug

Technical data

Туре	UST1K-1.1kW
Voltage power supply	3 x 400V AC 50Hz (con 6 and/or 10 A fuses)
Max. motor power	1.1 kW
Motor connection	2x3 NO relay contacts 400V/max. 1.2 kVA
Power at rest	< 4VA
Ambient temperature	from -20°C to +50°C
Control voltage	24 Vdc Additional delayed 0.8 A fuse
Protection rating	IP 54 (IP 65 optional)
Dimensions	255 x 120 x 180 mm (HxWxD)

Nice Combi Control is a control unit for ramps with integrated door control. For doors and loading ramps with folding and sliding end, operation with two or more valves (it is possible to connect up to 3 valves).

A wide range of connections.

It internally combines the functions of:

- Door control unit UST1-KL
- Ramp control unit UDL2

In a single compact housing, a smart and automatic system for controling your complete door and ramp systems. UST1K-1.1kW control unit

Various connection possibilities

- Gearmotors up to 1.1 kW
- Automatic and deadman modes
- Safety elements (sensitive edge)
- Photoelectric barriers
- External and internal traffic lights
- Position sensor
- Safety switch for wicket door
- Radio (Nice Opera-OXI)
- External control transmitters
- Emergency stop switchDirection of rotation control
- Simple limit switch setting
- Simple limit switch setting

Control unit for UDL2 ramps

Cutting-edget echnology:

- Wheel wedge
- Vehicle detector
- External and internal traffic lights
- Docklight (floodlight)
- Horn
- Forced lowering
- Position sensor
- Preassembled PEEP customisation module (optional)
- Automatic and deadman modes
- Emergency stop switch
- Ramp locking sensor connection
- Direction of rotation control
- Three-phase control

Nice Additional modules

For control units for UST1 / UST1K / UST1-FU doors

Model	Code	Description
K1	711010000000	Additional module for the UST1 control unit for semiautomatic opening and closing in deadman mode. For gearmotors with mechanical limit switch.
K1E	711010001000	Additional module for the UST1 control unit for semiautomatic opening and closing in deadman mode. For gearmotors with electronic limit switch.
K2	711020000000	Additional module for the UST1 control unit for automatic closing after a programmable interval; possibility to connect optical or resistive sensitive edges (8.2 k Ω).
К3	71103000000	Additional module for UST1, UST1K, UST1-FU series stations, with traffic lights function in both directions and an input for photoelectric barrier, pre-arranged for rolling shutters. For gearmotors with electronic limit switch.
КЗА	711030000010	Additional module for UST1, UST1K, UST1-FU series stations, with traffic lights function in both directions. For gearmotors with electronic limit switch.
K4	71104000000	Additional module for UST1, UST1K, UST1-FU series stations, for management and electronic limit switch connection. Only in combination with the additional K2 module.
K5	711050000000	Additional module for UST1, UST1K, UST1-FU series stations, with a wide range of service and parameterization functions. For gearmotors with electronic limit switch.
K7-1K	711070000001	Without K3 module. Additional 1-channel module for UST1, UST1K, UST1-FU series stations - for induction coil connection. 12 - 24 Vdc.
	711070000031	With K3 module Additional 1-channel module for UST1, UST1K, UST1-FU series stations - for induction coil connection. 12 - 24 Vdc.
K7-2K	71107000002	Without K3 module. Additional 2-channel module for UST1, UST1K, UST1-FU series stations - for induction coil connection. 12 - 24 Vdc.
	711070000032	With K3 module Additional 2-channel module for UST1, UST1K, UST1-FU series stations - for induction coil connection. 12 - 24 Vdc.

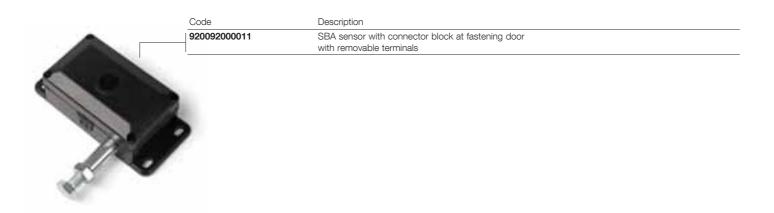
Nice Electrical accessories

SBA, automatic adjustment sensor of the lower limit switch position. Only for electronic limit switch versions.

Smart: Patented solution that automatically changes the lower limit switch position in the case of flooring modifications or defective door closings due to wear or other reasons.

Precise: The new position is recorded in the control unit and reproduced upon the next door movement

Flexible: It operates combined with all Nice Industrial motors and UST1K, UST1-FU and UST1 control units (with additional K4 module).



ALC: NO.	Code	Description	
S and a second	920091000010	Connector block fastened on the door, without board, with 16 mm front hole	
	920092000010	Connector block fastened on the door for sensitive edge (photocells) and spiral cable code 920081155516 connection, with 16 mm front hole	
	920092000020	Connector block fastened on the door for connecting safety devices protecting against possible cable breaks (for sectional doors)	



Code	Description
920132111001	Pair of photocells with Ø 11.5 mm for optical sensitive edge,
	11.5 to 22 mm adapter included. For doors up to 7 m
	of width (cables for connecting length of 10.5 m - 1 m)
920132112006	Pair of photocells with Ø 11.5 mm for optical sensitive edge,
	11.5 to 22 mm adapter included. For doors up to 4.5 m
	of width (cables for connecting length of 6 m - 0.5 m)

Code	Description	
920081155516	5-wire coupling spiral cable with extension from 0.8 to 1.6 m, for optical or sensitive edge connection	
920811000010	Cylindrical safety switch to protect against possible cable breaks (for sectional doors)	
920821000010	Safety switch to protect against possible cable breaks or slackening	

Nice Mechanical accessories

-	Code 900029000050	Description Additional chain for motors with chain release, 5 m length
and the second second		
A	Code	Description
11-	911110317254	Adapter for coupling motors with 31.75 mm hole and Ø 25.4 mm shafts
V/	911110400254	Adapter for coupling motors with 40 mm hole and Ø 25.4 mm shafts
	911110400317	Adapter for coupling motors with 40 mm hole and Ø 31.75 mm shafts
011-	I	
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Nice Station - gearmotor connection cables

Shielded connection cable between gearmotor and control unit with connector, for gearmotors with mechanical limit switches. Other lengths on request.

for goarmotoro man		
Code	Description	
CA0046A00	Length 3 m	
CA0047A00	Length 5 m	
CA0048A00	Length 7 m	
CA0049A00	Length 9 m	
CA0050A00	Length 11 m	

Shielded connection cable between gearmotor and control unit with connector, for gearmotors with electronic limit switches. Other lengths on request.

Description	
Length 3 m	
Length 5 m	
Length 7 m	
Length 9 m	
Length 11 m	
	Length 3 m Length 5 m Length 7 m Length 9 m

Non-shielded connection cable between gearmotor and control unit with connector, for gearmotors with electronic limit switches. Other lengths on request.

0	o .	
Code	Description	
CA0034A00	Length 3 m	
CA0035A00	Length 5 m	
CA0036A00	Length 7 m	
CA0037A00	Length 9 m	
CA0038A00	Length 11 m	



For complete automation

Control electronics	
and accessories	

78|79 80

- One Series transmitters and receivers
- Moon Series of photocells
- Wallyght multifunction light

Nice One Series transmitters and receivers



Code	Description	Pc./pack.			
ON1	1 channel, 433.92 MHz, graphite colour	10			
ON1C	1 channel, 433.92 MHz, graphite colour, with sequential code, multiple insertion	10			
ON2	2 channels, 433.92 MHz, graphite colour	10			
ON2C	2 channels, 433.92 MHz, graphite colour, with sequential code, multiple insertion	10			
ON4	4 channels, 433.92 MHz, graphite colour	10			
ON4C	4 channels, 433.92 MHz, graphite colour, with sequential code, multiple insertion	10			
ON9	9 channels, 433.92 MHz, graphite colour	10			
ON1FM	1 channel, 868.46 MHz, white	10			
ON2FM	2 channels, 868.46 MHz, white	10			
ON4FM	4 channels, 868.46 MHz, white	10			
ON9FM	9 channels, 868.46 MHz, white	10			

Portable transmitters with management of Identity Codes and Certificates, self-learning and integrated proximity receiver.

With 72-bit O-Code code, also compatible with the receivers having Nice FloR code (only for One with 433.92 MHz).

The **One system** includes transmitters with 1, 2, 4, 9 channels and pre-wired coupling receivers, with and without built-in transmitter. Wide choice of models with:

- 433.92 MHz, Rolling Code that use AM amplitude modulation.
- Also available in the versions with sequential code, multiple insertion (OneC).
- 868.46 MHz, Rolling Code that use FM frequency modulation, less sensitive to interferences than with AM amplitude modulation, to ensure safer transmissions and decrease the response time of the automations.

Safe and evolved: it uses calculation and recognition systems that increase its safety level and reduces the response time of the automation by about 3 times.

With **built-in proximity receiver** that makes it possible - thanks to the exchange of **Identity Code** between two remote controls - to store a new transmitter using one of them already enabled in the receiver.

Insertion speed, without the need for connections via cable: thanks to the Certificate management and O-Box interface, it is possible to enable a One transmitter without going near the system, but by simply bringing it close up to the O-Box and starting the procedure guided by PC or PDA.

Ability to program the **identity codes and 9 certificates** of the receivers.

The **OneC version** makes it possible - through the O-Box software - to store entire 10 pc packs in a single operation, without even having to open them.

Practical and elegant, the One transmitter can be used as a refined

and technological key case or fixed on the wall or to the car dashboard thanks to the handy support included in the packaging.

Technical characteristics

	Carrier frequency	Estimated range	Code	Power supply	Battery duration	Protection rating	Dimensions Weight	
ON_, ON_C	433.92 MHz	200 m (to outside);	O-Code 72 bit:	3 Vdc;	2 years	IP40	44x55x10 h mm	
ON_FM	868.46 MHz	35 m (if inside buildings)*	35 m (if inside	rolling code	lithium battery type CR2032	(with 10 transmissions per day)	(use in protected environments)	11 g

* The range of the transmitters and the reception capability of the receivers could be influenced by any devices operating in the area with same frequency.

The complete line of multicode receivers with management of the Identity Codes and Certificates.

Coupling, pre-wired, with and without built-in transmitter.

Available in the versions with:

- 433.92 MHz:
- 868.46 MHz.

Each receiver of the One series has its own secret identification number called Certificate

that distinguishes it from any other. The Certificate can also be programmed on the One transmitter as an enabling code for interacting with the receiver.

Convenience and practicality:

the presence of the transmitter inside the OXIT/OXITFM and OX2T/OX2TFM receivers provides two-way communication with the multifunction O-Box interface; this makes it possible to perform operations such as downloading radio codes, and managing certificates and passwords directly on the receiver, even when it is in position and hard to reach.

3 protection levels via password.

Internal transmitter:

the OXIT/OXITFM and OX2T/OX2TFM receivers can be used as signal repeaters, increasing the operation distance between transmitters and other receivers of the One series. The new One receivers also can be interfaced with PC and PDA so programming the certificates is quick and simple using O-Box.

3 programming modes.

Extreme flexibility: they store

up to 1024 Mode I transmitters.

Multicode:

the One series receivers are compatible with the transmitters with O-Code One codes at 868.46 MHz and 433.92 MHz and Smilo, Flo, FloR, TTS codes (only for One at 433.92 MHz) for multigroup transmission that allows you to send multiple simultaneous commands from a single transmitter.

Receivers

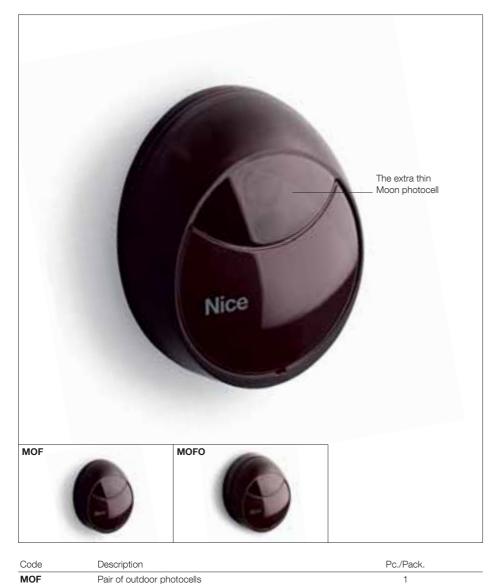
Code	Description	Pc./pack.
ΟΧΙ	4 channels, without built-in transmitter	1
ΟΧΙΤ	4 channels, with built-in transmitter	1
868.46 MHz,	coupling	
Code	Description	Pc./pack.
OXIFM	4 channels, without built-in transmitter	1
OXITFM	4 channels, with built-in transmitter	1
433.92 MHz,	pre-wired	
Code	Description	Pc./pack.
OX2	2 channels, without built-in transmitter	1
OX2T	2 channels, with built-in transmitter	1
		1
868.46 MHz,	•	De /eest:
Code	Description	Pc./pack.
OX2FM	2 channels, without built-in transmitter	1

••••••••=,	p. o	
Code	Description	Pc./pack.
OX2FM	2 channels, without built-in transmitter	1
OX2TFM	2 channels, with built-in transmitter	1

Technical characteristics

	Reception frequency	Transmission frequency	Input impedence	Sensitivity	Decoding	Number of channels	Relay contact	Power supply	Electrical input	Protection rating	Dimensions Weight		
OXI	_	-			O-Code,	4 (15 on BUS	-	5 Vdc	30 mA (max)		50x19x45 h mm, 20 g		
OXIT	433.92 MHz	433.92 MHz		>0.5 µ V for successful	Smilo,	T4)					mm, 20 g		
OX2	400.02 10112	- signal			2	2 max 0.5 A	from 12 to 28 Vdc/Vac	80 mA (max) with enabled		58x86x22 h mm, 55 g			
OX2T						2 50 V (NA)		relays					
OXIFM		-		52 01111	52 01111	52 01111	52 01111			4 (15 on BUS -	5 Vdc	30 mA (max)	IF 30
OXITFM	868.46 MHz	868.46 MHz		>0.8 µ V	O-Code	(15 011 BUS T4)	-	5 Vuc	SUTTIA (THAX)		mm, 20 g		
OX2FM	000.40 IVIH2	-		for successful signal	U-Code	0	max 0.5 A	from 12 to 28 Vdc/Vac	100 mA (max) with enabled relays		58x86x22 h		
OX2TFM		868.46 MHz				2	50 V (NA)				mm, 55 g		

Nice Moon Series of photocells



Pair of outdoor photocells, adjustable 30°

Synchronised photocells with 10° (MOF) receiving angle, also in the version that can be adjusted 30° in every direction (MOFO).

Extra thin:

only 28 mm (38 mm in the adjustable version).

Very sturdy: body in transparent polycarbonate.

2 range levels.

Synchronism circuit.

Alignment with proportional LED for easy and safe installation.

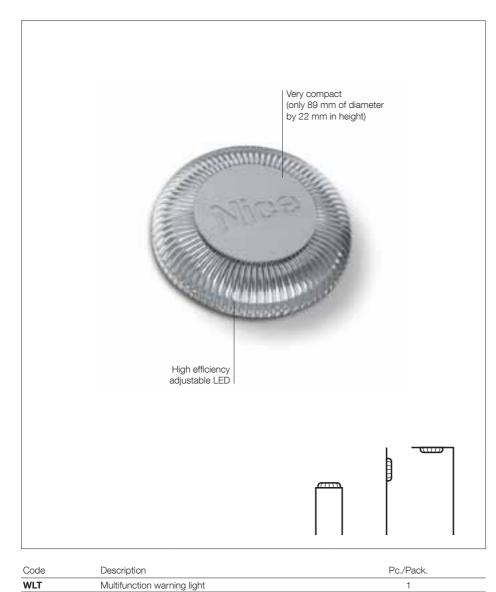
Technical characteristics

MOFO

	Estimated range (m)	Power supply	Electrical input (mA)	Protection rating (IP)	Operating temperature (°C Min/Max)	Relay range	Dimensions (mm)	Weight (g)
MOF	15 (30 with jumper + "10" cut)	without jumper 24 Vac/Vdc limits: 18-35 Vdc, 15-28 Vac	25 RX,	54	-20 ÷ +55	max 500 mA and 48 V	69x25x78 h	55
MOFO		with jumper 12 Vac/Vdc limits: 10-18 Vdc, 9-15 Vac	30 TX	54	-20 - +35		69x37x78 h	80

1

Nice Wallyght multifunction light



LED multifunction light.

Single version with power supply 12/24 Vac/Vdc with flashing, courtesy or twilight light function.

A new idea for a lot more safety: connected to the compatible stations, Wallyght can operate as a normal flashing light or to illuminate all around as a fixed courtesy light. Connected to a 12/24 Vac/Vdc output, Wallyght can always remain on, and also switch on at sunset and switch off at dawn by enabling the integrated dusk sensor.

Great efficiency, high duration: the two 1 W LEDs have a duration of 70,000 hours (continuous use).

Horizontal, wall or ceiling mounting: together with the possibily of directing the beam of light and the compactness of the IP44 box, it makes using the Wallyght even more flexible.

Driveway lights



Courtesy light



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Find out more about Nice products and services on the website: **www.niceforyou.com**

Nice Home Automation IDCAT/EN/00/12-11