

8 - SPECIFIC INFORMATION

Master text: ITALIAN

Category III Personal Protective Equipment **801.020** and **801.030** "INDY EVO", **801.040** and **801.050** "INDY EVO PLUS" are:

- manually operated, friction inducing rope adjustment devices which allows the user to achieve a controlled downward motion at the maximum speed of 2 m/s and a stop, with hands off, anywhere on the working line;
- parts of a system protecting against the impact due to fall from a height;
- for maximum 100kg with a line according to EN1891/A of diameter between $\phi 10\text{mm}$ and $\phi 12\text{mm}$;
- for maximum 200kg with a line according to EN1891/A of diameter between $\phi 11\text{mm}$ and $\phi 12\text{mm}$.

- certified according to the standard EN12841:06 type C

Fig. 1 – Version 801.040 – Line attachment:

- rotate the mobile bracket (B);
- insert a suitable connector in the attachment point (G) of the fixed bracket (A);
- wind the free end of the rope around the lower drum (C);
- keeping open the lever (E), insert the free end of the rope between the tooth (F) and the upper drum (D);
- close the mobile bracket (B) locking the attachment point (G);
- make sure that the safety gate (H) is clear from the connector.

Fig. 2 – Operation of the device - Pull the lever (E) to start descending, and release it to stop descending. The tooth (F) and its mechanism are designed to reduce unintentional and uncontrolled descents.

Fig. 3 – Vertical descent:

- attach an end of the line to the anchor point;
- attach the line at the device as described;
- attach the connector to the attachment point of the harness of the user;
- tight the line between the device and the anchor line;
- tighten the free end of the line to avoid the initial slipping;
- operate on the lever (E) and free end of the line to reach the desired descent speed.

Fig. 4 – Vertical abseil:

- attach the line at the device as described;
- attach the connector to the anchor point;
- attach the end coming out by the lever (E) to the attachment point of the harness of the user;
- operate on the lever (E) and free end of the line to reach the desired abseil speed.

Note:

- heavy loads can be easily abseiled with the "HEAVY LOAD" system;
- this device can also be used in releasable anchor systems.

Compatibility – This device has been designed to be used with:

- connectors certified according to EN362;
- anchor points certified according to EN795;
- harnesses certified according to EN361 and/or EN813;
- lines composed by semi-static ropes certified according to EN1891/A.

Pre and post use checks – Before and after use make sure that the device is in efficient condition and working properly, particularly check that:

- is not worn out;
- is not mechanically deformed;
- does not show signs of cracks;
- has not reached the end of his lifetime;
- the mobile bracket (B) can rotate, the lever (E) actuates the drum (C), the rod (I) and the tooth (F), the safety gate (H) closes independently when released.

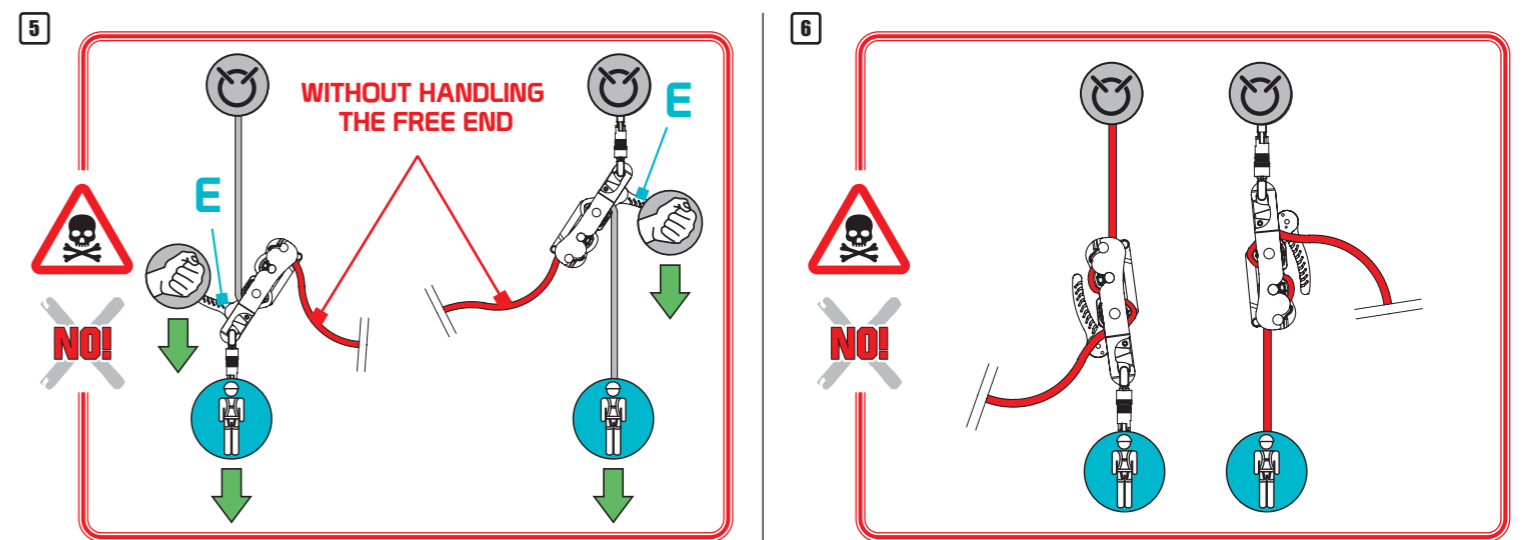
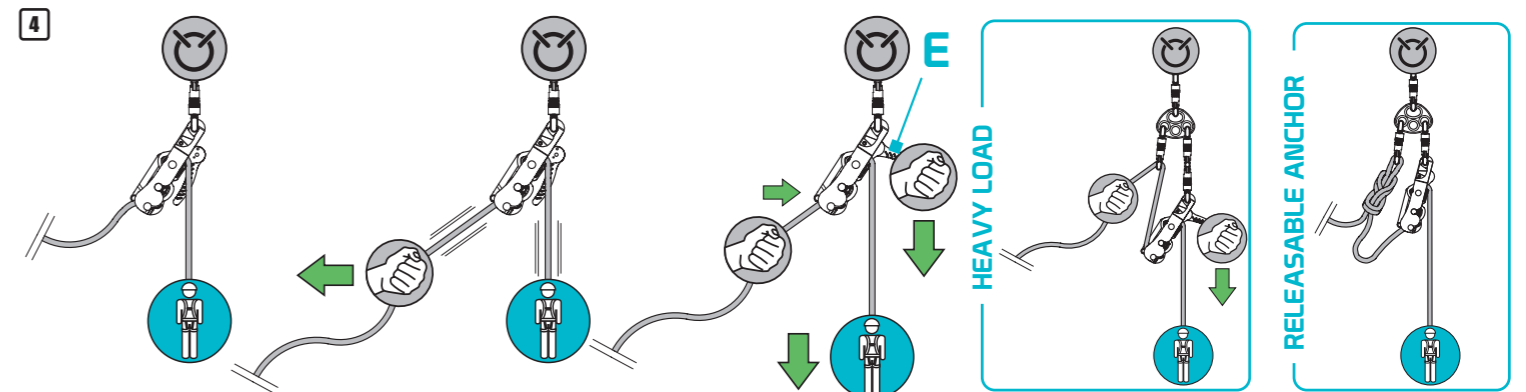
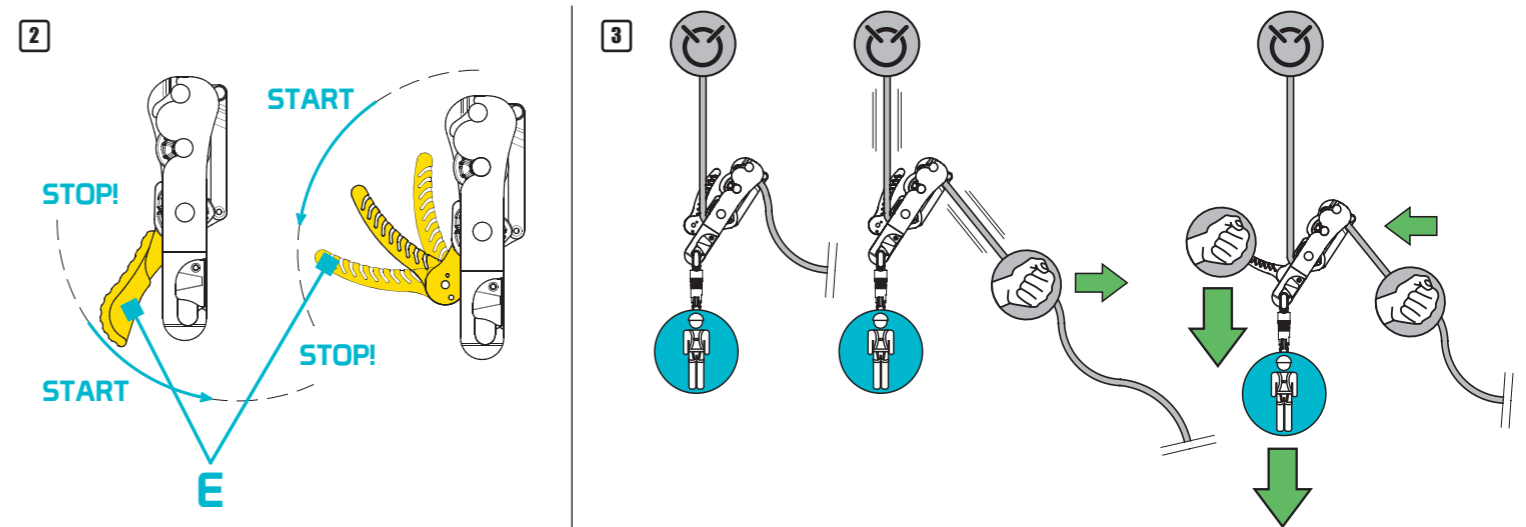
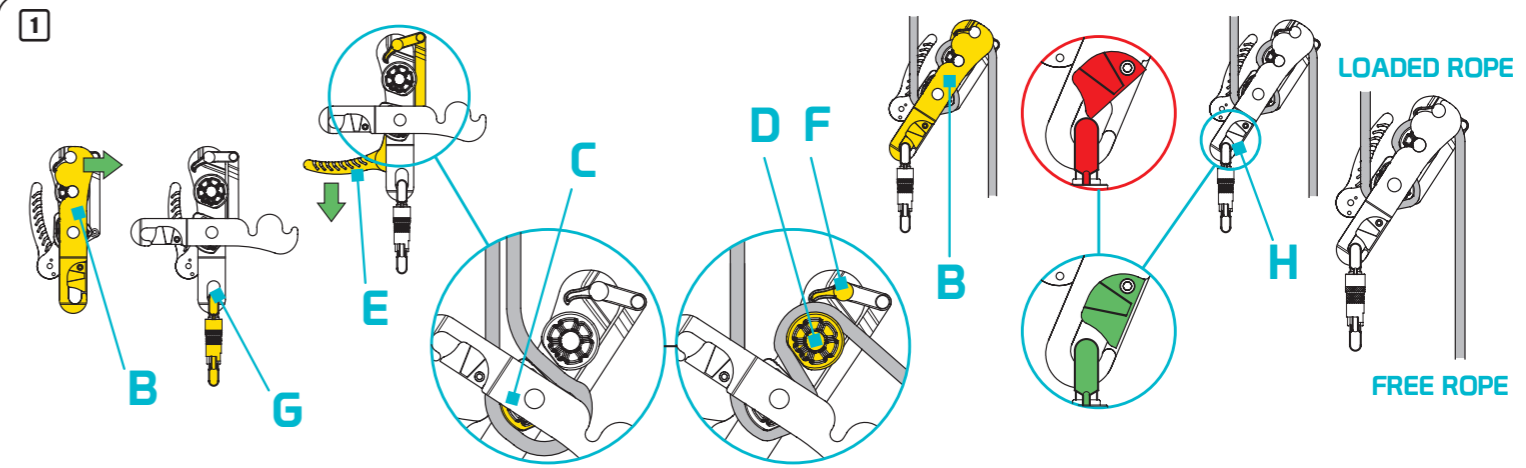
Before use in a position that is completely safe, on each occasion check that the device is working properly.

Important:

- particular conditions (e.g.: heat, cold, wet, oil, dust) affect or interfere with the performances of this device;
- while placing the device check that:
 - there is no slack in line attached;
 - descent is not impeded by obstacles;
 - the anchor point of the line is above the user;
- the device:
 - must be kept above the attachment point of the harness;
 - that remain installed in work sites must be properly protected against weather;
 - must be used with compatible devices that allow a nimble actuation of the lever (E) and complete control of the free end of the line.

Warning:

- overloads and dynamic loads can damage the line;
- connect the device to the harness with a system shorter than 1m;
- handle the descent maintaining control of the free end of the line (fig. 5);
- use this device exclusively with the brackets (B and C) linked by the attachment point (G) and a connector;
- the wrong attachment of the line nullify the performances of this device (e.g.: the free end coming out by the lever (E) – (fig. 6));
- to prevent the accidental release of the device it is required to make a knot at least 0,5m before the free end of the line;
- the main purpose of this device is progression along the working line, and it is not suitable for fall arrest systems: always connect to a fall arrest system with another device certified according to EN12841 type A.

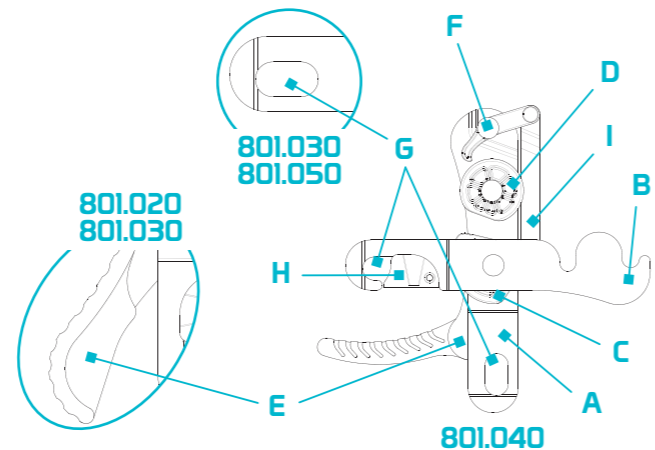




INDY EVO • INDY EVO PLUS
EN12841 USE

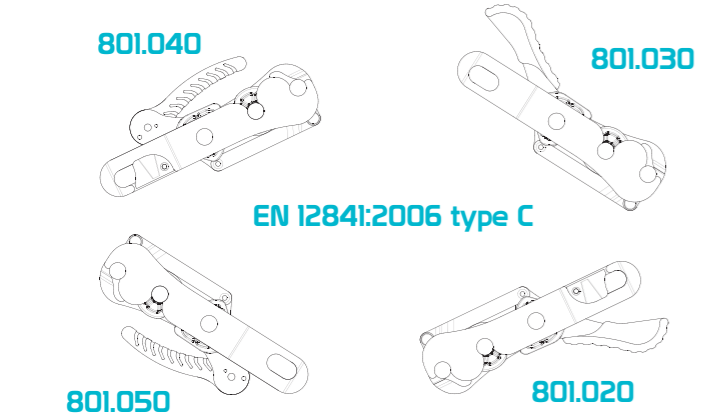
www.kong.it

NOMENCLATURE • NOMENCLATURA



- EN:** (A) Platte, (B) Mobile plate, (C) Lower drum, (D) Upper drum, (E) Actuating lever, (F) Blocking tooth, (G) Attachment point for the user/anchor, (H) Safety gate (version 801.020 and 801.040), (I) Rod.
Main material: aluminium alloy.
Drums, tooth, gate material: stainless steel.
- IT:** (A) Piastra, (B) Piastra mobile, (C) Tamburo inferiore, (D) Tamburo superiore, (E) Leva di azionamento, (F) Dente di bloccaggio, (G) Punto di attacco per l'utilizzatore/ ancoraggio, (H) Chiusura di sicurezza (versione 801.020 e 801.040), (I) Asta.
Materiali principali: leghe di alluminio
Materiale di tamburi, dente, leva: acciaio inossidabile.
- FR:** (A) Plaque, (B) Plaque mobile, (C) Tambour inférieur, (D) Tambour supérieur, (E) Levier d'actionnement, (F) Dent de blocage, (G) Point d'attache pour l'utilisateur/ ancrage, (H) Barrière de sécurité (version 801.020 et 801.040), (I) Tige.
Matériau principal : alliage d'aluminium
Tambours, dent, porte Matériau : acier inoxydable.
- DE:** (A) Platte, (B) Bewegliche Platte, (C) Untere Trommel, (D) Obere Trommel, (E) Betätigungshebel, (F) Blockierzahn, (G) Befestigungspunkt für den Benutzer/Anker, (H) Schutzklappe (Version 801.020 und 801.040), (I) Stange.
Hauptmaterial: Aluminiumlegierung. Trommel-, Zahn- und Klappenmaterial: rostfreier Stahl.
- ES:** (A) Placa, (B) Placa móvil, (C) Tambor inferior, (D) Tambor superior, (E) Palanca de accionamiento, (F) Diente de bloqueo, (G) Punto de fijación para el usuario/ancla, (H) Entrada de seguridad (versión 801.020 y 801.040), (I) Varilla.
Material principal: aleación de aluminio.
Tambores, dientes, material de la puerta: acero inoxidable.

NOMENCLATURE • TERMINOLOGIE • NOMBRES



8 - SPECIFIC INFORMATION

Master text: ITALIAN

EN: 801.020 and 801.030 "INDY EVO", 801.040 and 801.050 "INDY EVO PLUS" are:

- manually operated descender device by which person can rescue themselves or others from a higher to a lower position (max 100m) in such a way that a free fall is prevented, at a minimum temperature of -4°C and with a controlled speed between 0,5 m/s and 2 m/s;
- tested according to the standard EN341:11 type 2 and class A, for min 30kg and max 100kg with a flexible anchor line as specified in this information.

Devices lifetime – When employed in rescue systems (EN341), in addition of what specified at point 5 it is necessary to respect these limits:

- the descender (D) can withstand a total energy of maximum 7.500.000 J (class A);
- the flexible anchor line (A) can withstand a total of maximum 75 descents/abseils, indiscriminately of their length.

Fig. 1 – Energy – The energy of each descent/abseil must be estimated and recorded in the designated register, to define the end of the device lifetime.

The descent/abseil energy (W) is the product of: $W = P \times g \times H \times N$.
Where:

W = descent energy in Joule (J),

P = load in Kilograms (kg),

g = gravity acceleration (9,81 m/s²),

H = descent height in meters (m),

N = number of descents.

Fig. 2 – Technical specification of the flexible anchor line (A) – It is a devices made from a polyamide (PA) rope with a low elongation coefficient sheath and conform to EN1891/A, with:

- a sewn loop (B) that allows the attachment of the user/anchor to the line;

- a sewn knot (C) as end of the line that prevent the accidental release of the descender.

Pre and post use checks – Before and after use make sure that the devices are in efficient condition and working properly, particularly check that:

- the flexible anchor line (A):

- is not worn out;
- has not reached the end of his lifetime;
- stitching of the loop (B) and the knotted end (C) are undamaged and has got no cut or loosen threads;

- the descender (D):

- is not worn out;
- is not mechanically deformed;
- does not show signs of cracks;
- has not reached the end of his lifetime;
- the mobile bracket can rotate, the lever actuates the drum, the rod and the tooth, the safety gate closes independently when released.

Before use in a position that is completely safe, on each occasion check that the device is working properly.

Important – To use these devices in rescue systems (EN341), in addition to what specified in the specific information on rope access system (EN12841) it is necessary to respect the following limits:

- connectors according to EN362;
- rescue loops according to EN1498;
- rescue harnesses according to EN1497;
- harnesses according to EN361, EN813, and/or EN12277;
- attach the descender (D) to a flexible anchor line as described in fig. 4; If equipped with a gate locking device, connectors according to EN12275 can be also used.

The use of other flexible anchor lines could affect the descender performances.

Warning, for this use:

- it is not possible to abseil/descent with 2 persons at once;
- during use the device overheats, use gloves to protect hands;
- secure the person descending/to be abseiled with a second line, if possible;
- a prolonged suspension onto a harness, especially in motionless conditions, may cause the harness hang syndrome (or suspension trauma) that can lead to loss of consciousness and even death.

3

EN

Manual rescue descender EN341:11 type 2 class A

Descender					Flexible anchorage line			
P/N:					P/N:			
S/N:					S/N:			
Date	P (kg)	g (m/s ²)	H (m)	N	W (J)	W TOT (J)		
1		X 9,81	X	X				
2		X 9,81	X	X		+		
3		X 9,81	X	X		+		
4		X 9,81	X	X		+		
5		X 9,81	X	X		+		
W = P x g x H x N					Lifetime W TOT = 7.500.00			

IT

Discensore manuale per soccorso EN341:11 tipo 2 classe A

Discensore					Linea di ancoraggio flessibile			
P/N:					P/N:			
S/N:					S/N:			
Date	P (kg)	g (m/s ²)	H (m)	N	W (J)	W TOT (J)		
1		X 9,81	X	X				
2		X 9,81	X	X		+		
3		X 9,81	X	X		+		
4		X 9,81	X	X		+		
5		X 9,81	X	X		+		
W = P x g x H x N					Durata di vita W TOT = 7.500.00			

FR

Descente à commande manuelle EN341:11 type 2 class A

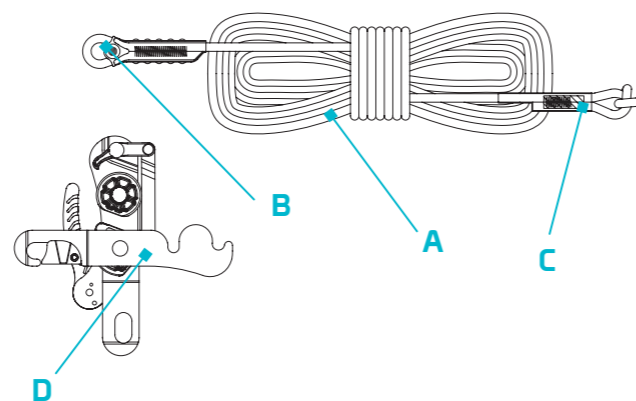
Descente					Ligne d'ancrage flexible			
P/N:					P/N:			
S/N:					S/N:			
Date	P (kg)	g (m/s ²)	H (m)	N	W (J)	W TOT (J)		
1		X 9,81	X	X				
2		X 9,81	X	X		+		
3		X 9,81	X	X		+		
4		X 9,81	X	X		+		
5		X 9,81	X	X		+		
W = P x g x H x N					Durée de vie W TOT = 7.500.00			

DE

Manuelles Abseilgerät EN341:11 typ 2 Klasse A

Abseilausrüstung					Flexible Verankerungslinie			
P/N:					P/N:			
S/N:					S/N:			
Date	P (kg)	g (m/s ²)	H (m)	N	W (J)	W TOT (J)		
1		X 9,81	X	X				
2		X 9,81	X	X		+		
3		X 9,81	X	X		+		
4		X 9,81	X	X		+		
5		X 9,81	X	X		+		
W = P x g x H x N					Lebenszeit W TOT = 7.500.00			

NOMENCLATURE • NOMENCLATURA



EN: (A) KONGLINE, (B) Loop end, (C) End knotted end, (D) Descender INDY EVO/INDY EVO PLUS.

IT: (A) KONGLINE, (B) estremità con asola, (C) estremità annodata, (D) discensore INDY EVO/INDY EVO PLUS.

FR: (A) KONGLINE, (B) Extrémité en boucle, (C) Extrémité nouée, (D) Descendeur INDY EVO/INDY EVO PLUS.

DE: (A) KONG-SEIL, (B) Schlaufenende, (C) Ende mit Endknoten, (D) Abseilvorrichtung INDY EVO/INDY EVO PLUS.

ES: (A) KONGLINE, (B) Extremo libre, (C) Extremo libre anudado, (D) Descensor INDY EVO/INDY EVO PLUS.

NOMENCLATURE • TERMINOLOGIE • NOMBRES

4

EN

KONGLINE	Elongation	Shrinking	Sheath slipping	Linear density	Sheath mass
	E (%)	R (%)	Ss (mm)	M (g/m)	Sp (%)
Ø10,5mm	3 ± 0,5%	Less than 4	Less than 20	72 ± 2	48 ± 3
Ø11mm	3,5 ± 0,5%	Less than 2,5	Less than 20	80 ± 2	40 ± 3

IT

KONGLINE	Allungamento	Restringimento	Scorrimento della guaina	Densità lineare	Guaina massa
	E (%)	R (%)	Ss (mm)	M (g/m)	Sp (%)
Ø10,5mm	3 ± 0,5%	Less than 4	Less than 20	72 ± 2	48 ± 3
Ø11mm	3,5 ± 0,5%	Less than 2,5	Less than 20	80 ± 2	40 ± 3

FR

KONGLINE	Allongement	Contraction	Glissement de la gaine	Densité linéaire	Gaine massa
	E (%)	R (%)	Ss (mm)	M (g/m)	Sp (%)
Ø10,5mm	3 ± 0,5%	Less than 4	Less than 20	72 ± 2	48 ± 3
Ø11mm	3,5 ± 0,5%	Less than 2,5	Less than 20	80 ± 2	40 ± 3

DE

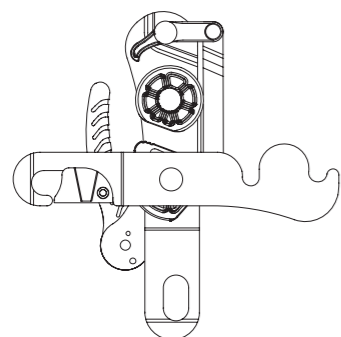
KONGLINE	Verlängerung	Schrumpfung	Mantel rutscht	Lineare Dichte	Mantel masse
	E (%)	R (%)	Ss (mm)	M (g/m)	Sp (%)
Ø10,5mm	3 ± 0,5%	Less than 4	Less than 20	72 ± 2	48 ± 3
Ø11mm	3,5 ± 0,5%	Less than 2,5	Less than 20	80 ± 2	40 ± 3



ZZV05451 rev.1

INDY EVO • INDY EVO PLUS
EN341 USE

www.kong.it



801.020 • 801.030 • 801.040 • 801.050
EN341 USE

