



 **corematic**

EXPANDING SHAFTS AND SAFETY CHUCKS



corematic

Expanding shafts and safety chucks

We offer a wide range of expanding shafts and safety chucks that allow a perfect centering and grip to the core of the reel on unwinders and winders.

The pneumatic expanding shafts are all made of extruded aluminum, for cores from 3" to 6" and bigger diameter on request.

The safety chucks are the ideal solution for the support of the shafts.

Send us your application requirements, we will work with you to find the solution that suits your needs.



A photograph of an industrial machine, likely a pneumatic shaft expander, with a large white roll of material being processed. The machine has yellow and green components. The text "PNEUMATIC EXPANDING SHAFTS" is overlaid in white, bold, sans-serif font, with a small orange horizontal line above the word "PNEUMATIC".

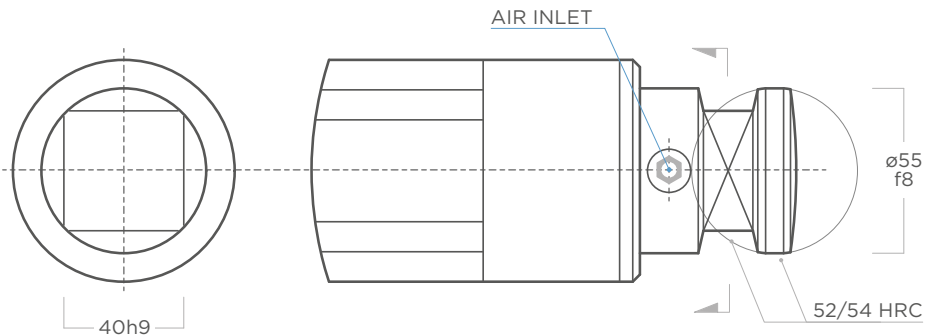
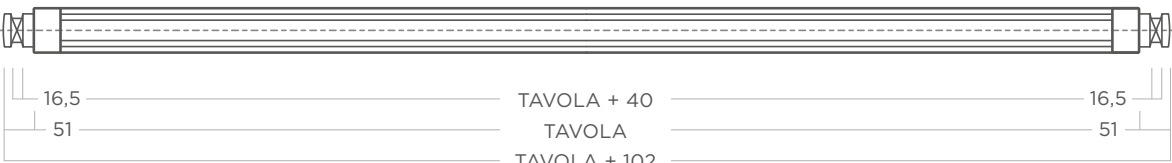
PNEUMATIC EXPANDING SHAFTS



ETF

PNEUMATIC EXPANDING SHAFTS WITH FIXED TABLE

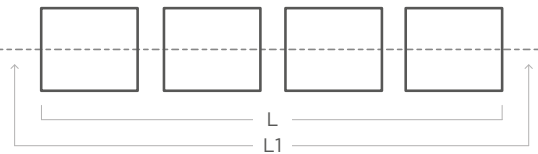
Made by extruded aluminum alloy with rubber
or aluminum strips and polyurethane inner tubes.



nominal Ø	J mm4	weight	radial strips n°		blocking torque N/mt- mt cardboard core	
			aluminum	rubber	aluminum	rubber
69 - 80 mm	7,4 E5	6,2 kg/mt	5	5	160	190
74 - 85 mm	10 E5	7,7 kg/mt	5	5	160	190
98 - 110 mm	35 E5	10,2 kg/mt	6	6	240	270
124 - 136 mm	140 E5	13,7 kg/mt	6	6	300	330
148 - 160 mm	300 E5	12,7 kg/mt	8	8	360	400

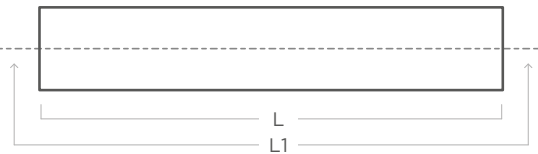
INDICATIVE LOAD CAPACITY Ø 74 mm

cut reel



L mm	L 1 mm	kg
1200	1350	1250
1400	1550	1050
1600	1750	950
1800	1950	820
2000	2150	720
2200	2350	650

whole reel



L mm	L 1 mm	kg
1200	1350	2300
1400	1550	2300
1600	1750	2300
1800	1950	2300
2000	2150	2300
2200	2350	2300

PNEUMATIC EXPANDING SHAFTS WITH AXIAL ADJUSTMENT $\pm 20\text{mm}$



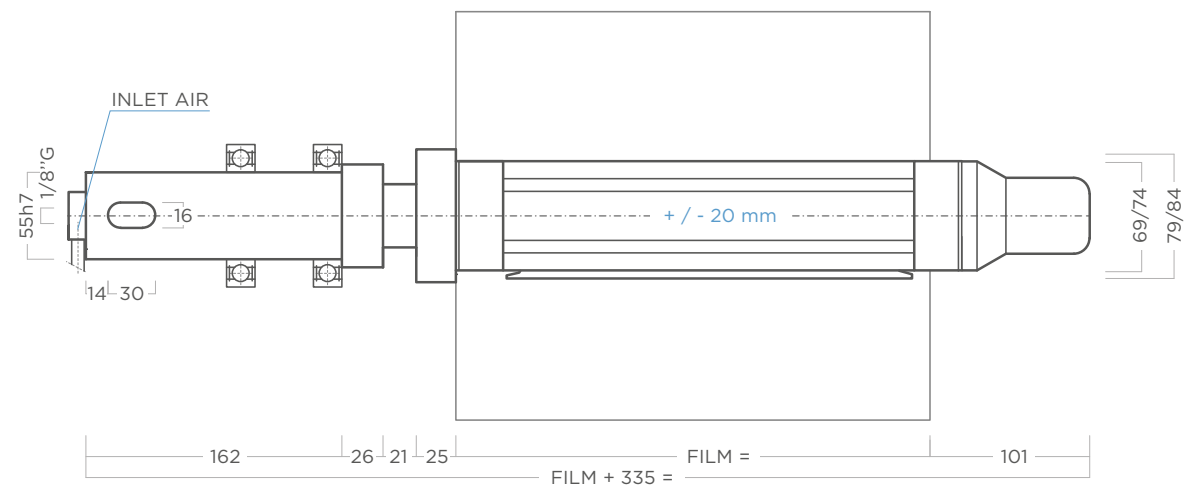
with 5 rubber
one inner tubes

[illegible]

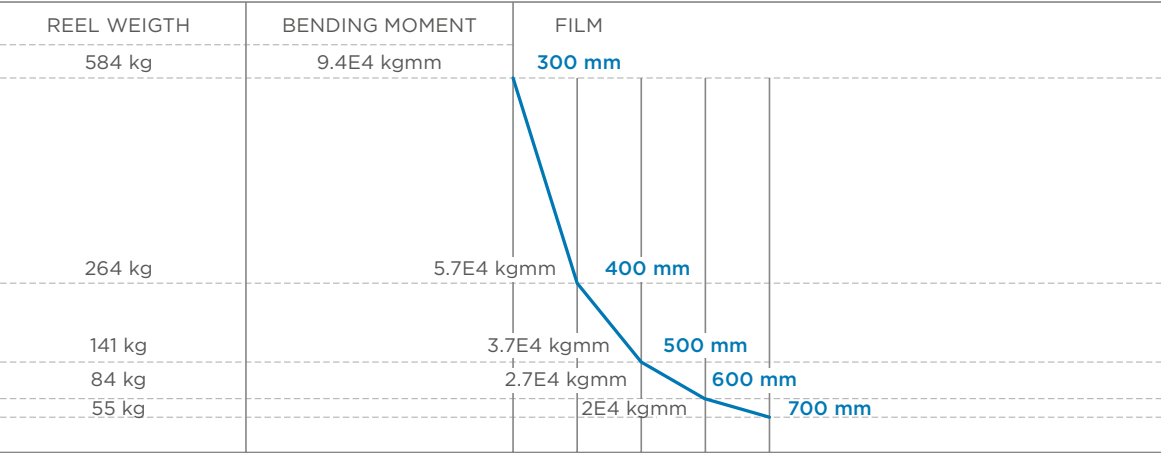
roller table	film	reel weight	max kg-mm	flexion
350 mm	300 mm	246 kg	4E4	1 mm
450 mm	400 mm	112 kg	2,4E4	1 mm
550 mm	500 mm	60 kg	1,6E4	1 mm
650 mm	600 mm	35 kg	1,1E4	1 mm
750 mm	700 mm	25 kg	9,1E3	1 mm

REEL WEIGHT	BENDING MOMENT	FILM
246 kg	4E4 kgmm	300 mm
112 kg	2.4E4 kgmm	400 mm
60 kg	1.6E4 kgmm	500 mm
35 kg	1.1E4 kgmm	600 mm
25 kg	9.1E3 kgmm	700 mm

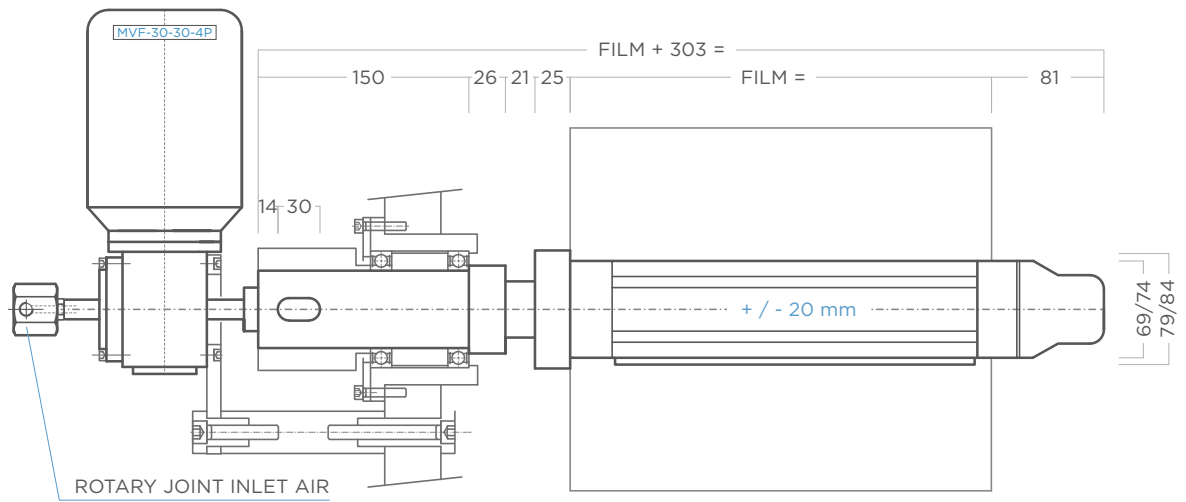
Pneumatic expanding shafts Ø 69 mm and Ø 74 mm
for high load capacity with rotating or not-rotating knob



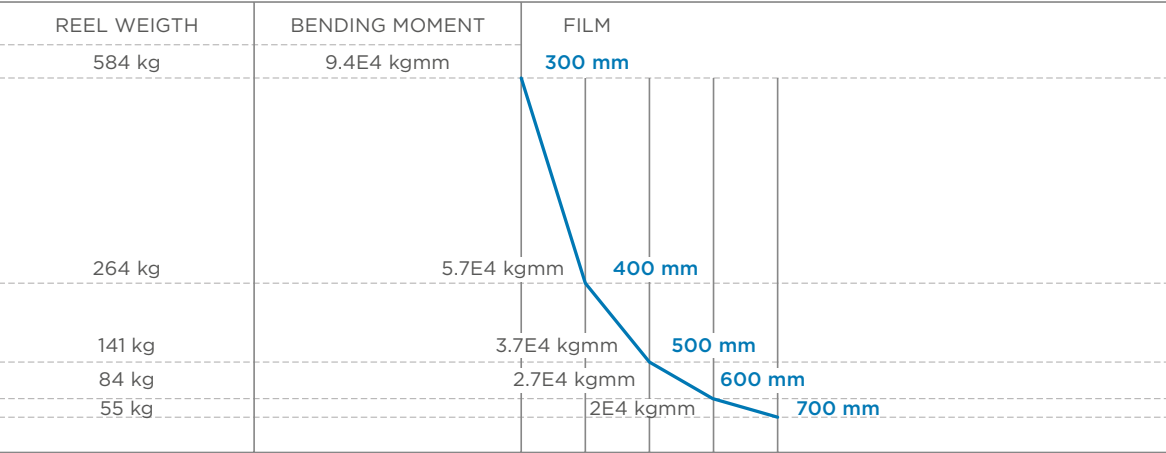
roller table	film	reel weight	max kg-mm	flexion
350 mm	300 mm	584 kg	9,4E4	1 mm
450 mm	400 mm	265 kg	5,7E4	1 mm
550 mm	500 mm	141 kg	3,7E4	1 mm
650 mm	600 mm	85 kg	2,7E4	1 mm
750 mm	700 mm	55 kg	2E4	1 mm



Pneumatic expanding shafts Ø 69 mm and Ø 74 mm
for high load capacity with motorized axial adjustment



roller table	film	reel weight	max kg-mm	flexion
350 mm	300 mm	584 kg	9,4E4	1 mm
450 mm	400 mm	265 kg	5,7E4	1 mm
550 mm	500 mm	141 kg	3,7E4	1 mm
650 mm	600 mm	85 kg	2,7E4	1 mm
750 mm	700 mm	55 kg	2E4	1 mm



EP-M

PNEUMATIC EXPANDING SHAFTS WITH MOTORIZED AXIAL ADJUSTMENT ±20mm

Made by extruded aluminum alloy with 5 rubber or aluminum strips and polyurethane inner tubes for high load capacity

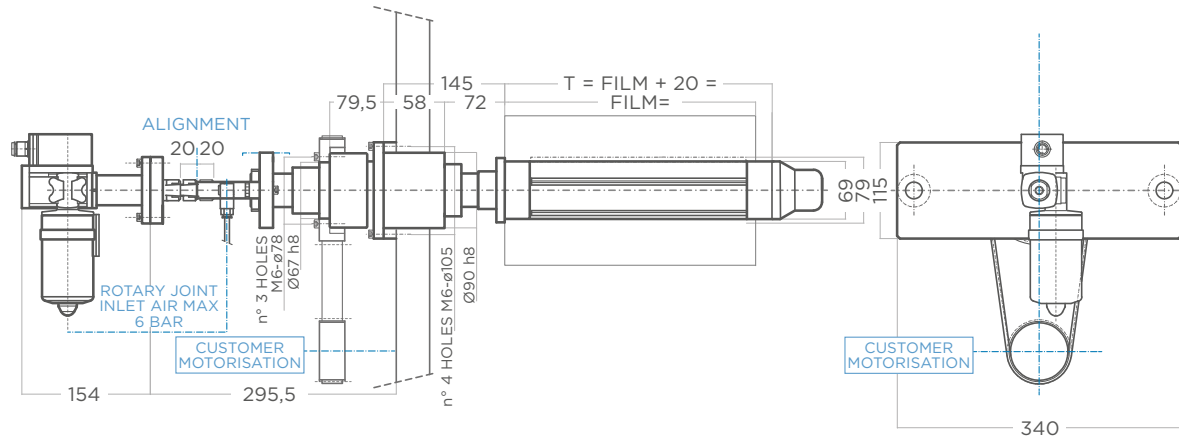


roller table	film	reel weight	max kg-mm	flexion
350 mm	300 mm	584 kg	9,4E4	1 mm
450 mm	400 mm	265 kg	5,7E4	1 mm
550 mm	500 mm	141 kg	3,7E4	1 mm
650 mm	600 mm	85 kg	2,7E4	1 mm
750 mm	700 mm	55 kg	2E4	1 mm

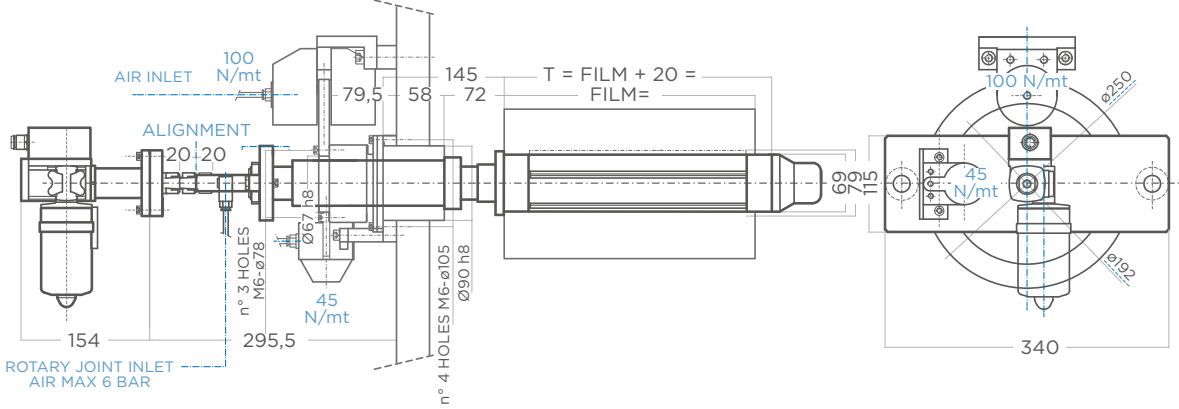
REEL WEIGHT	BENDING MOMENT	FILM
584 kg	9.4E4 kgmm	300 mm
264 kg	5.7E4 kgmm	400 mm
141 kg	3.7E4 kgmm	500 mm
84 kg	2.7E4 kgmm	600 mm
55 kg	2E4 kgmm	700 mm

Pneumatic expanding shafts Ø 69 mm and Ø 74 mm
for high load capacity with automatic motorized axial adjustment

MOTOR VERSION for unwinders and winders

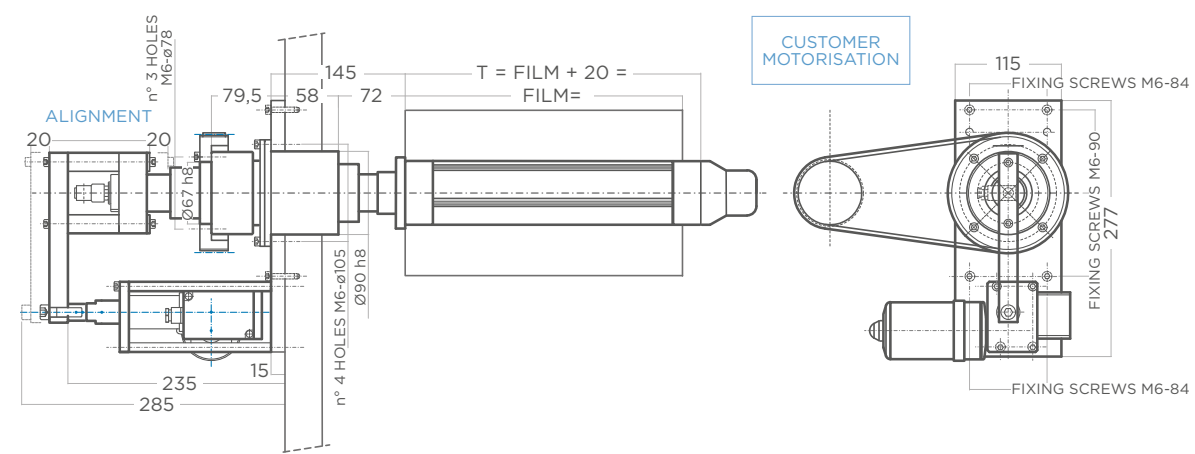


BRAKE VERSION for unwinders



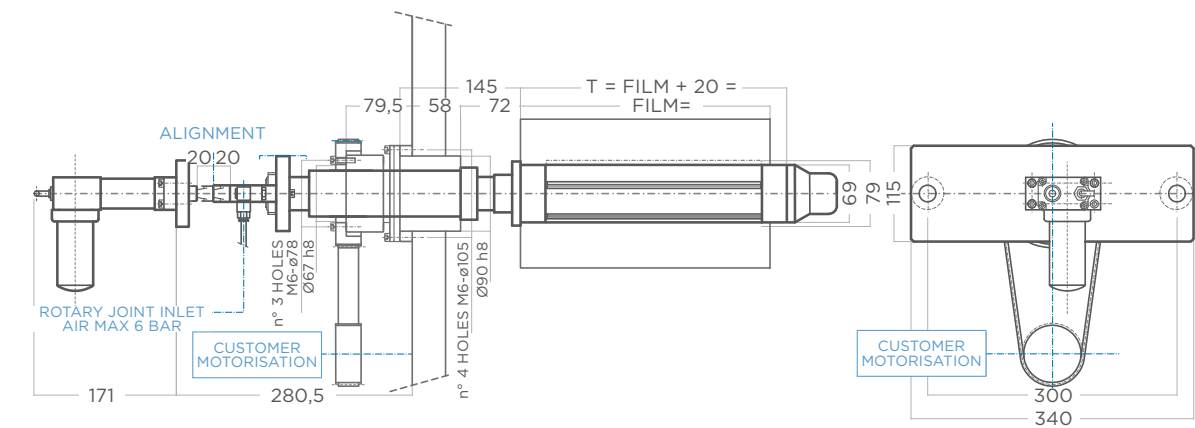
Pneumatic expanding shafts Ø 69 mm and Ø 74 mm
for high load capacity with automatic motorized axial adjustment

COMPACT MODEL - MOTOR VERSION
for unwinders and winders

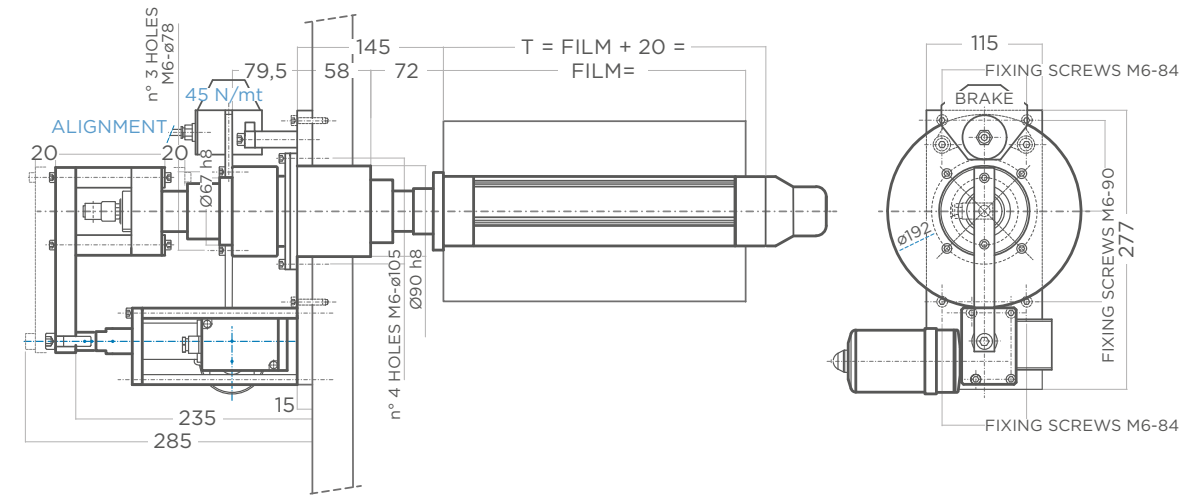


Pneumatic expanding shafts Ø 69 mm and Ø 74 mm
for high load capacity with remote motorized axial adjustment

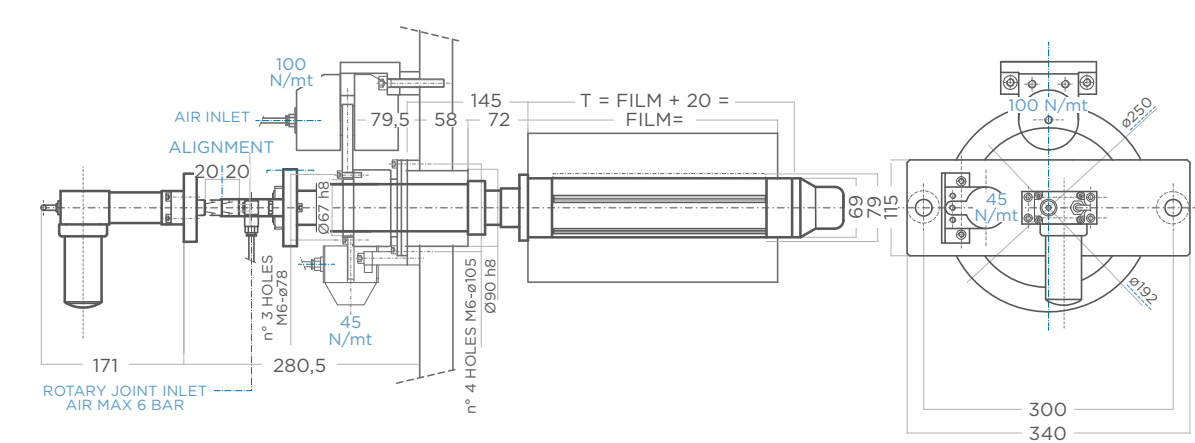
MOTOR VERSION
for unwinders and winders

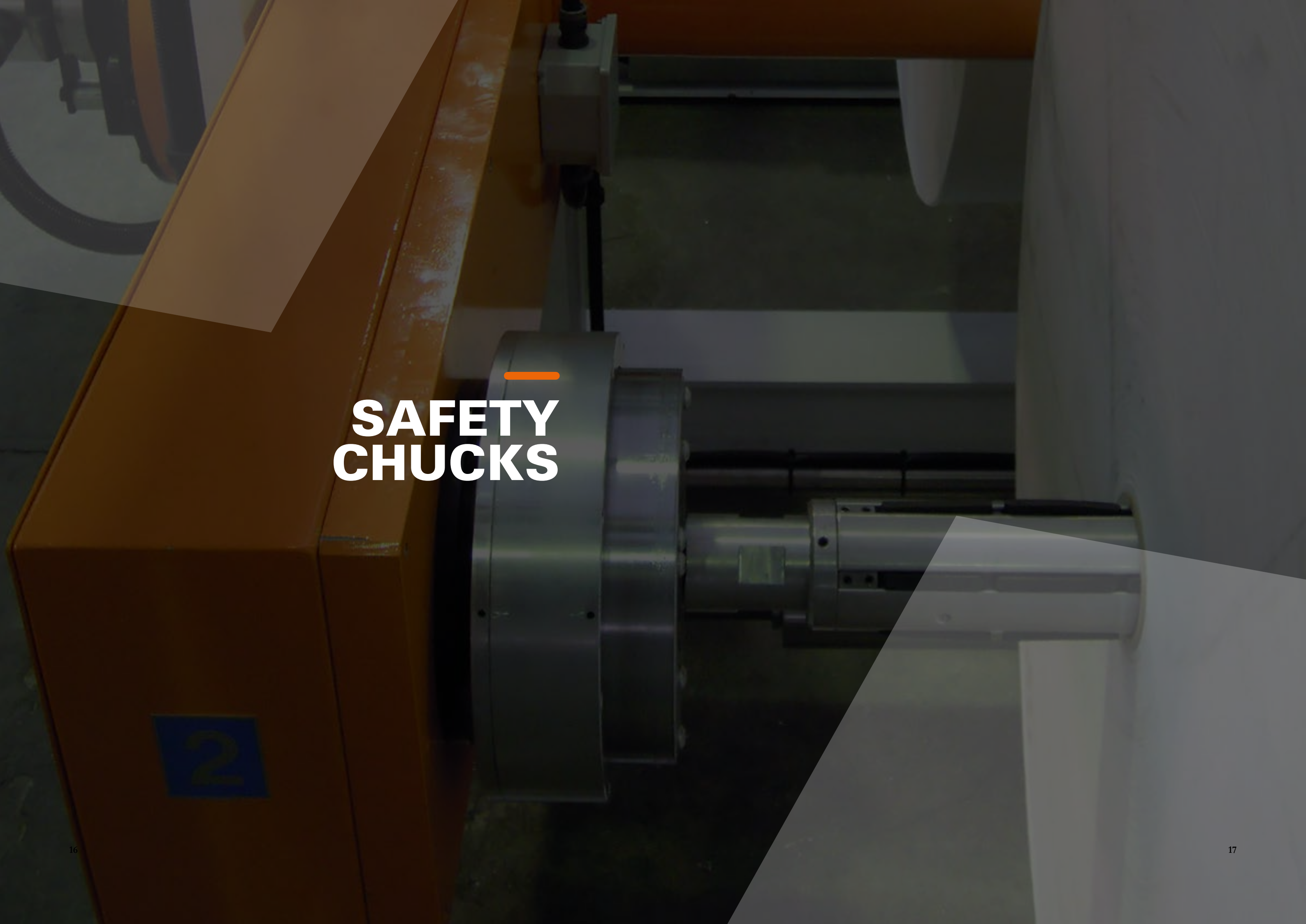


COMPACT MODEL - BRAKE VERSION
for unwinders



BRAKE VERSION
for unwinders



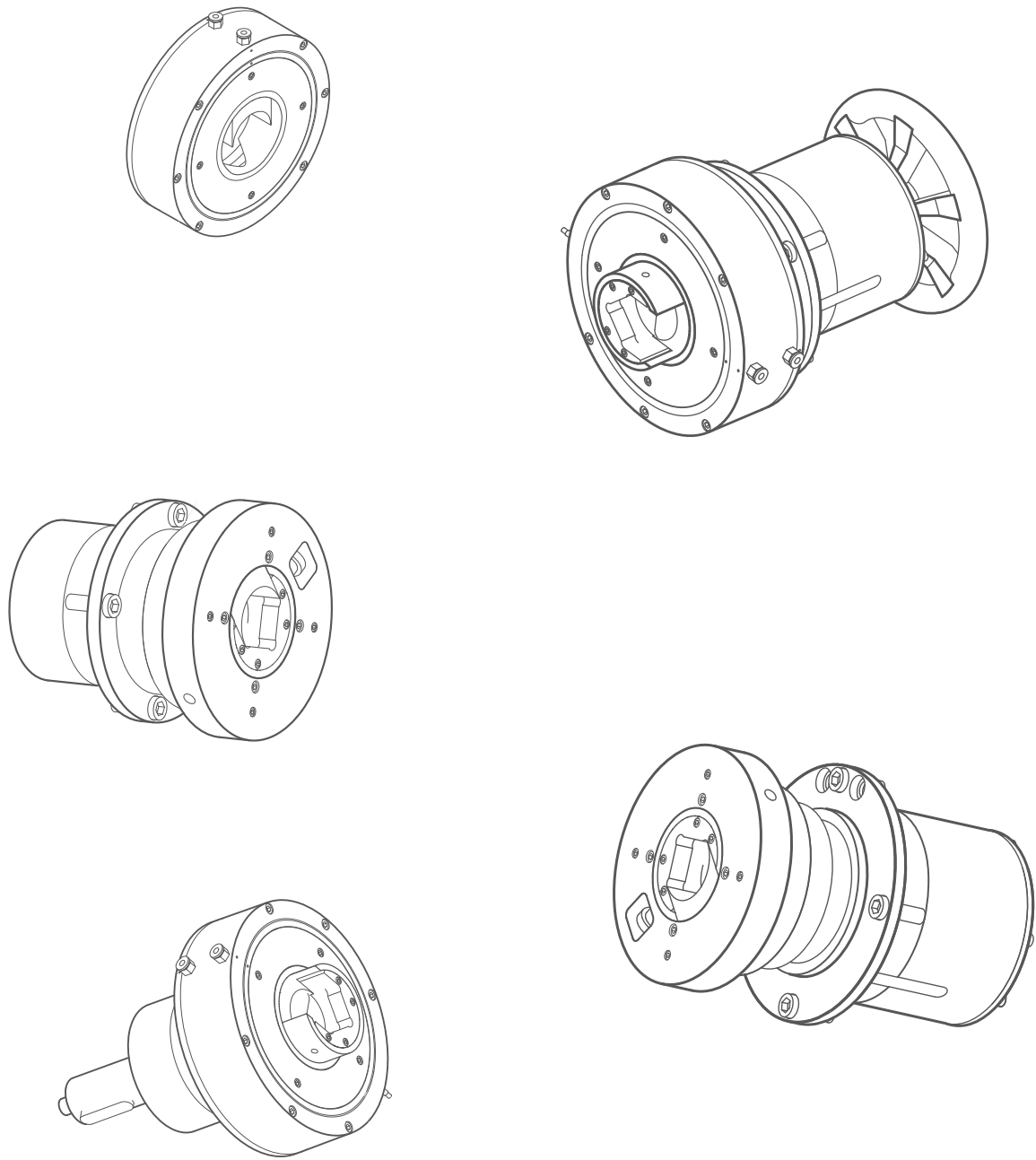
A close-up photograph of a large industrial machine, likely a lathe or mill, featuring a prominent orange-painted metal frame. A silver-colored metal chuck is mounted on the machine's spindle. The background is slightly blurred, showing other parts of the machine and a white wall. The text "SAFETY CHUCKS" is overlaid in white, bold, sans-serif font, with a small orange horizontal line above the word "SAFETY".

SAFETY CHUCKS

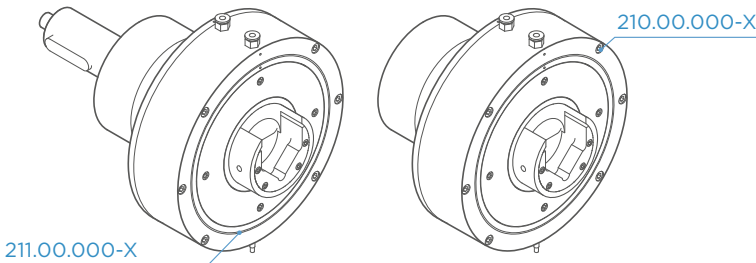
NWS-X

SELF-CENTERING SAFETY CHUCKS WITH MECHANICAL OR PNEUMATICAL CLOSING

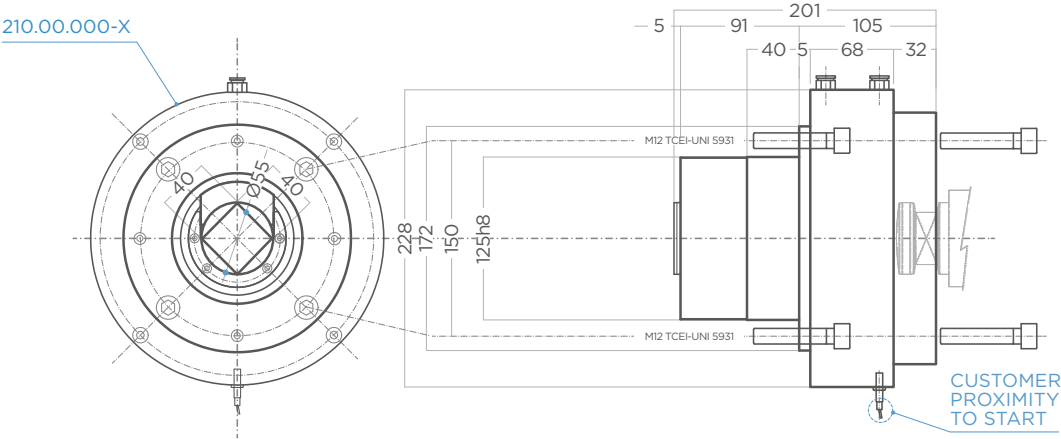
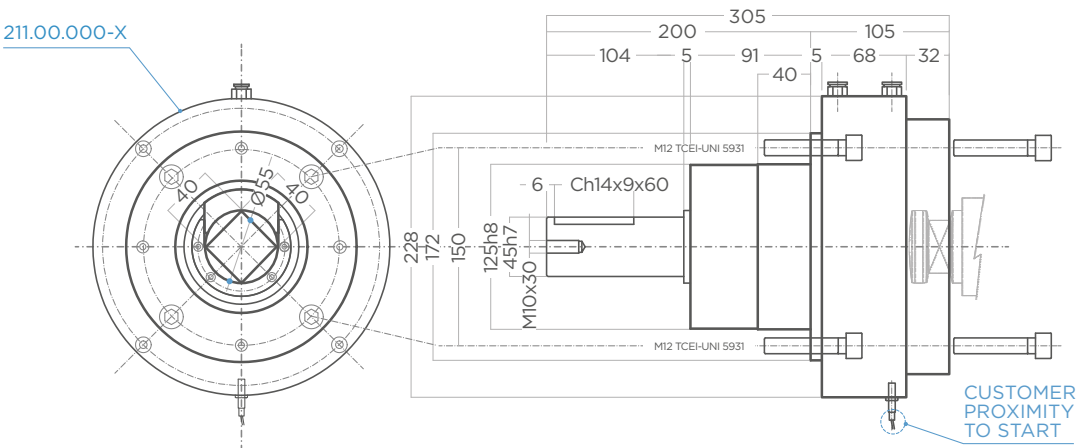
With manual or pneumatic closing and rotating or not-rotating flange.



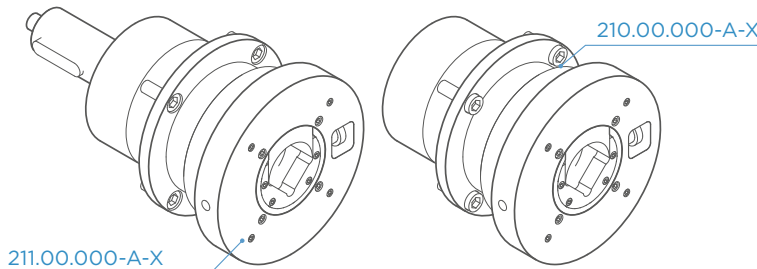
Self-centering safety chucks with not-rotating flange and pneumatic closing



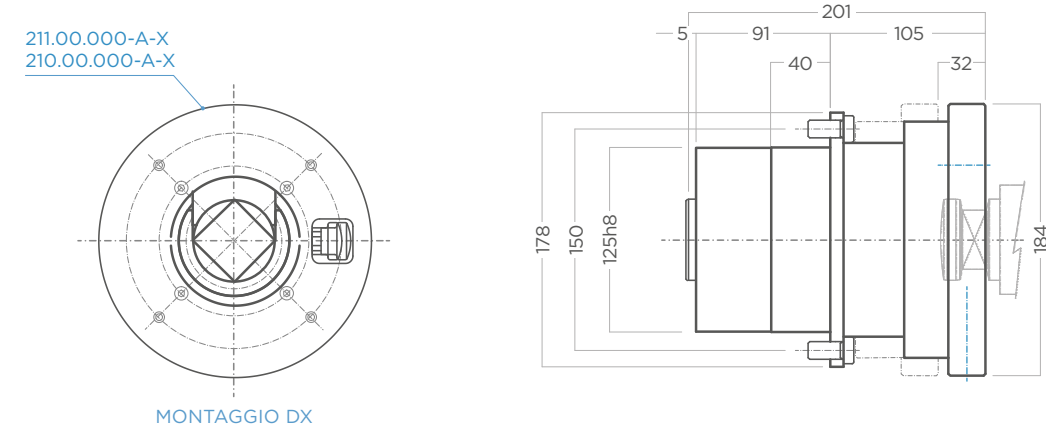
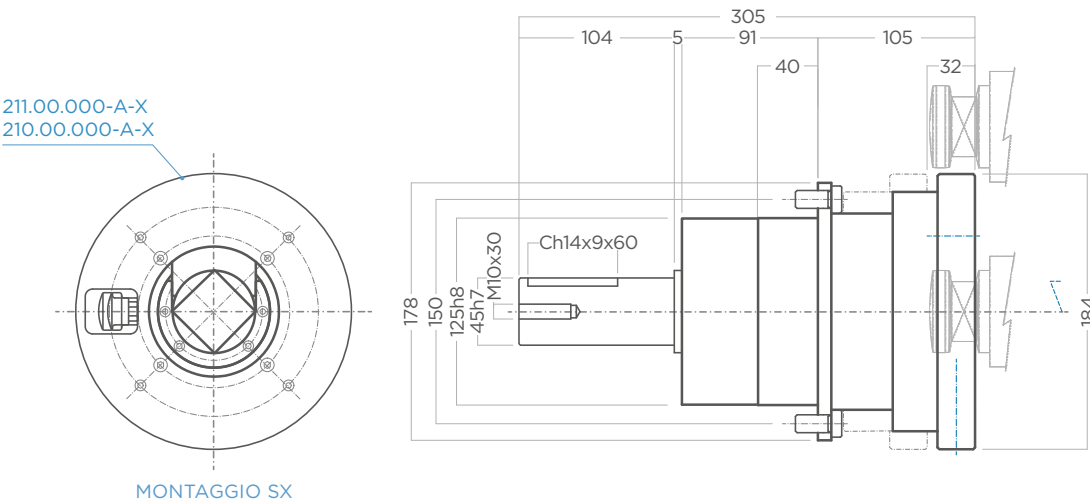
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-PN-M-2F	211.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 45
NWS-PN-F-2F	210.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	/



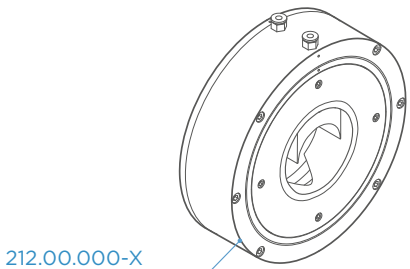
Self-centering safety chucks with rotating flange and manual closing



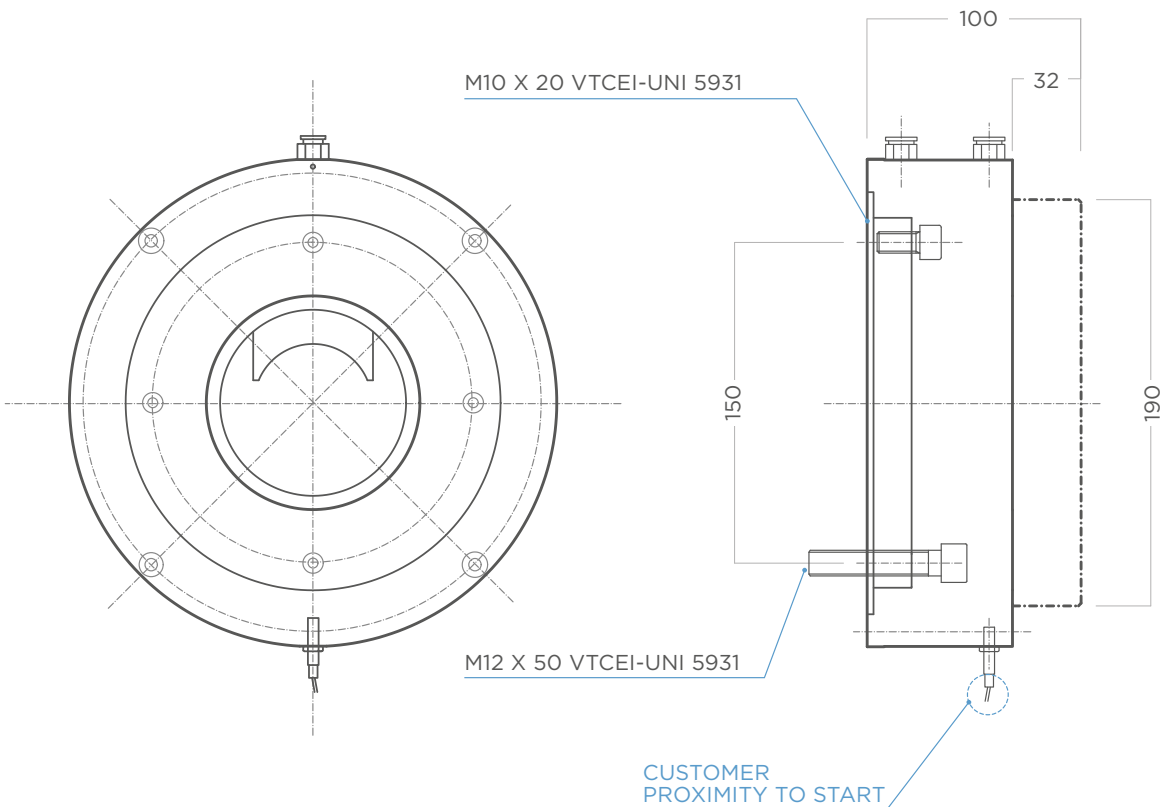
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-MAN-MA-X-2F	211.00.000-A-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 45
NWS-MAN-FA-X-2F	210.00.000-A-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	/



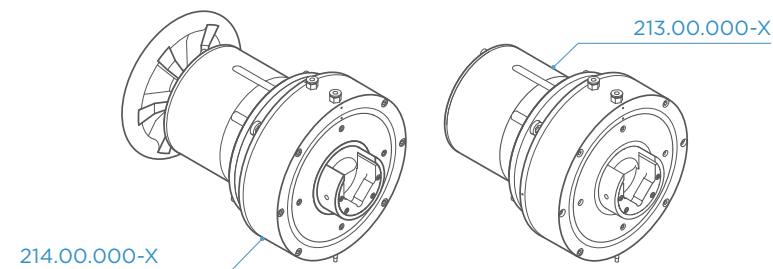
Conversion module from manual to pneumatic closing



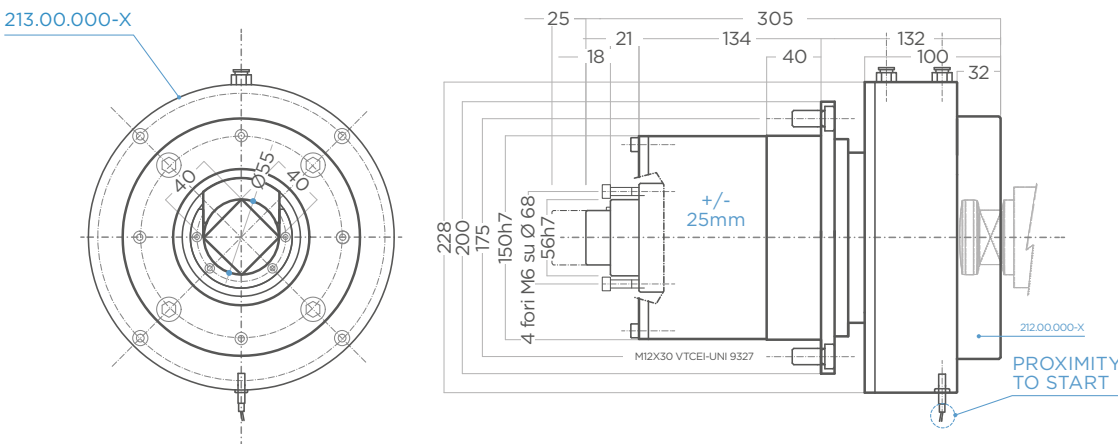
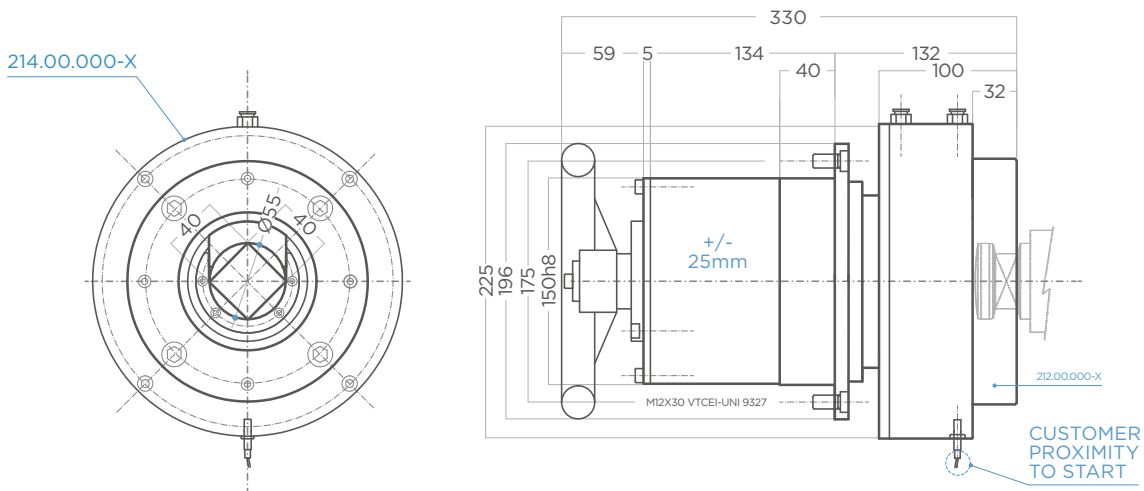
type	code	pneumatic line	max rpm
OPEN-CLOSE PN.2	212.00.000-X	6 bar	1500



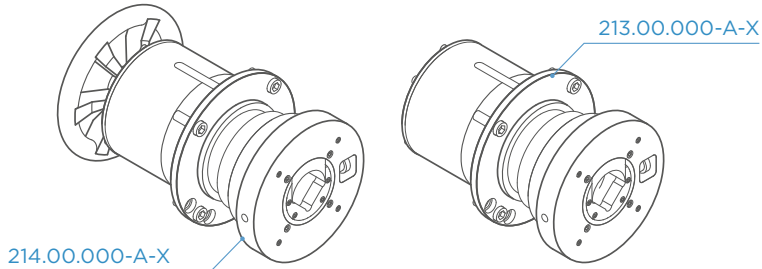
Self-centering safety chucks with not-rotating flange, axial adjustment and pneumatic closing



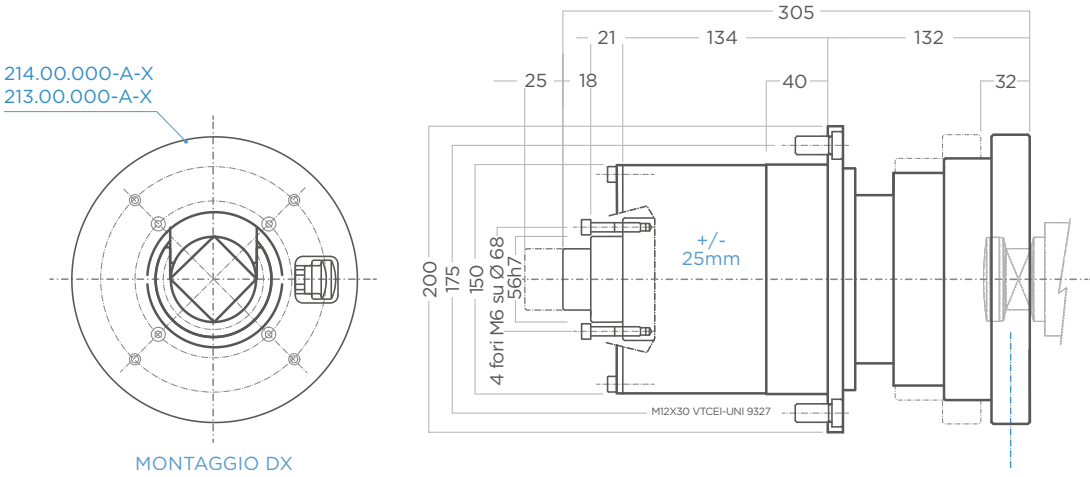
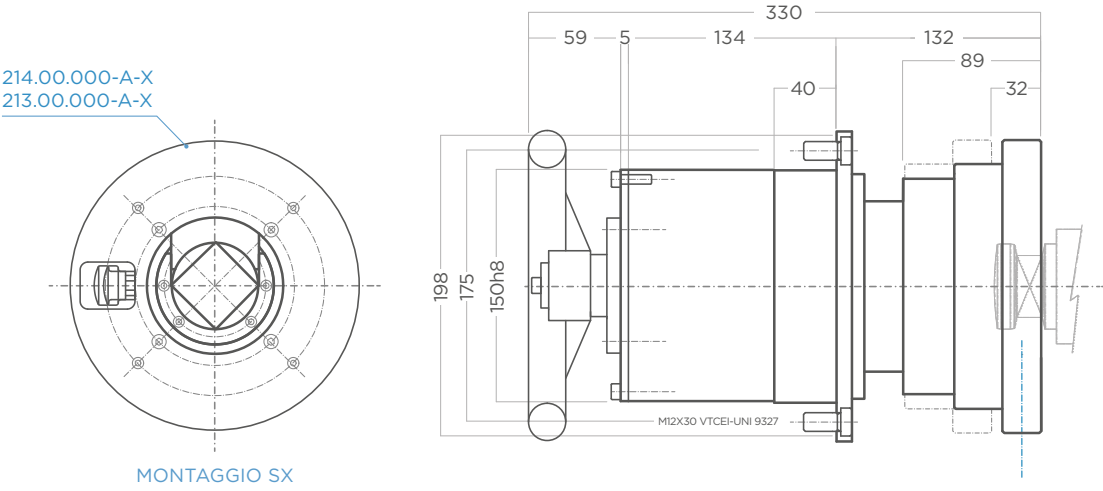
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-PN-SAF-2F	214.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	
NWS-PN-SAM-2F	213.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 56



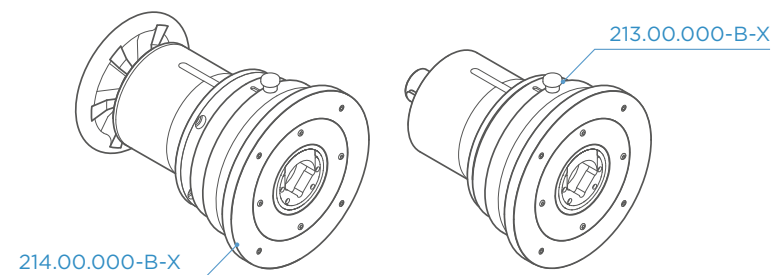
Self-centering safety chucks with rotating flange, axial adjustment and manual closing



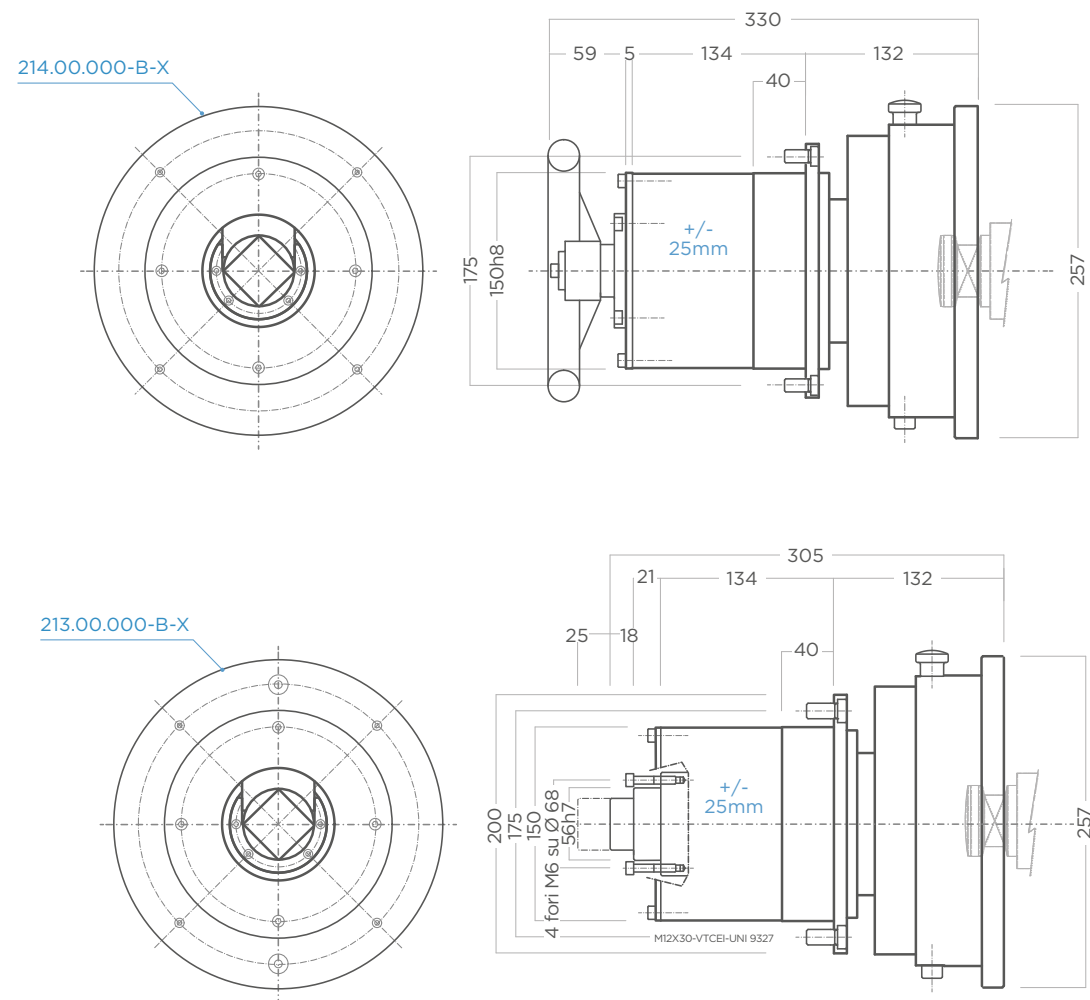
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-MAN-SAF-2F	214.00.000-A-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	
NWS-MAN-SAM-2F	213.00.000-A-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 56



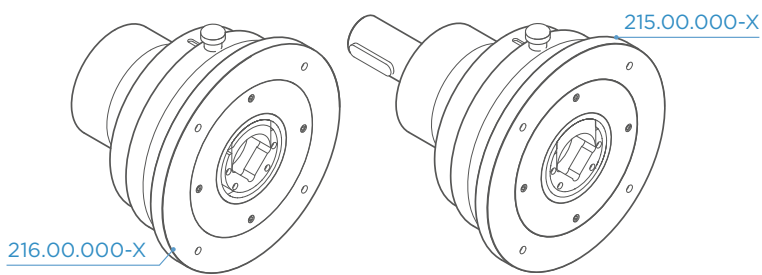
Self-centering safety chucks with not-rotating flange, axial adjustment and manual closing



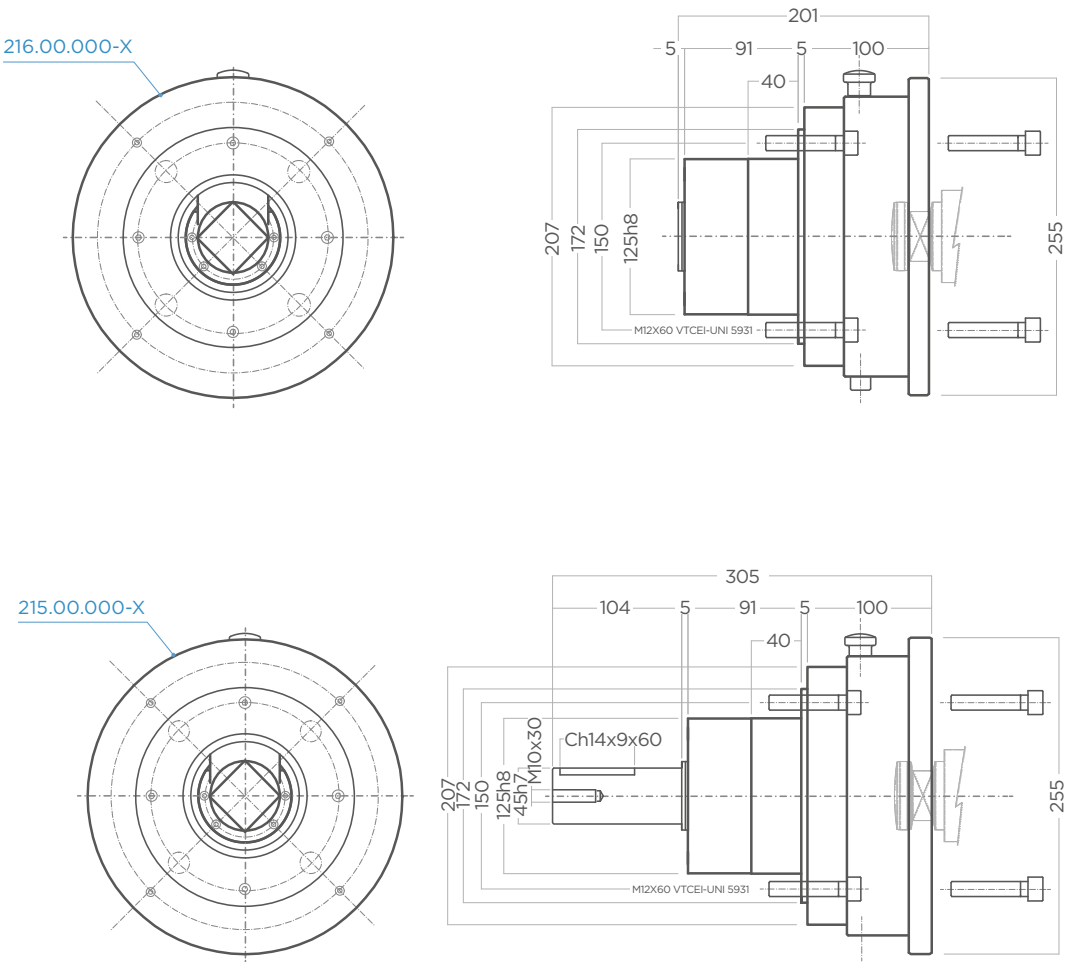
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-MAN-SAF-NR-2F	214.00.000-B-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	
NWS-MAN-SAM-NR-2F	213.00.000-B-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 56



Self-centering safety chucks with not-rotating flange and manual closing



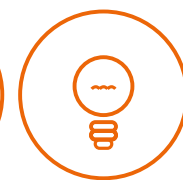
type	code	load capacity	max torque	max rpm	standard socket	standard shaft
NWS-MAN-F-2F	216.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	
NWS-MAN-M-2F	215.00.000-X	1700 kg	150 kg·mt	1500	Ø 55 □ 40	Ø 45





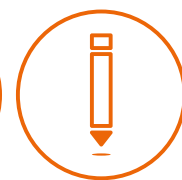
MADE IN ITALY

Our products are 100% designed and made in Italy



SUPPORT

Our staff is always available to answer your questions, also in the after-sales phase



CUSTOM PROJECTS

Projects large or small, we work with you to provide the solution that fits



SUSTAINABILITY

Sustainable products, sustainable company. Renova has joined Erion

INNOVATION

We provide solutions that increase productivity and safety levels while reducing maintenance costs and procedures

QUALITY
All Renova's products are managed by TUV ISO 9001



renova
WE NEVER LOSE CONTROL

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