



 **gripmatic**
EXPANDING CORE CHUCKS



gripmatic

Simple, durable and reliable design

Designed for shaftless applications, for the unwinding and rewinding of rolls of any size and material, Renova's core chucks deliver the most reliable web tension with minimum maintenance requirements. With robust parts, simple movements and best in industry jaw expansion, Renova chucks will out last and out perform in every production environment.

Customers were reporting damaged cores, deteriorating core qualities and reduced core wall thickness. This led to gripping and paper waste problems. It is from customers' feedback and collaboration with world known machine builders and end users that we designed Gripmatic core chucks which prevent core damages and deliver the best-in-industry grip of any core material.

All models are 100% customizable and they easily fit any application and need. Send us your application requirements and we will work with you on the best solution for your application.

Click on the “play” icons in this catalog and see demonstration videos!



MASTER TECHNOLOGY



CORE CHUCK

different core chuck technologies to easily fit any application need

100% CUSTOMIZABLE

all models are 100% customizable according to the customer requirements

MINIMUM MAINTENANCE

chucks can be cleaned directly on roll stand

FITS ALL ROLL STANDS

easily upgrades or retrofits any existing machine

PHOTOELECTRIC SENSOR

all models are available with central bore for the centering of the reel with photoelectric sensor



A large industrial robotic arm, primarily white with orange accents, is shown in a factory setting. The arm is mounted on a complex base with various mechanical components and wiring. The background shows a typical industrial environment with concrete walls and some equipment.

TORQUE ACTIVATED CORE CHUCKS

DIFFERENT CAM DESIGNS

All models are 100% customizable.

Three distinct cam designs can be coupled with different adapters to compose the mechanical chuck that best fits your application needs.

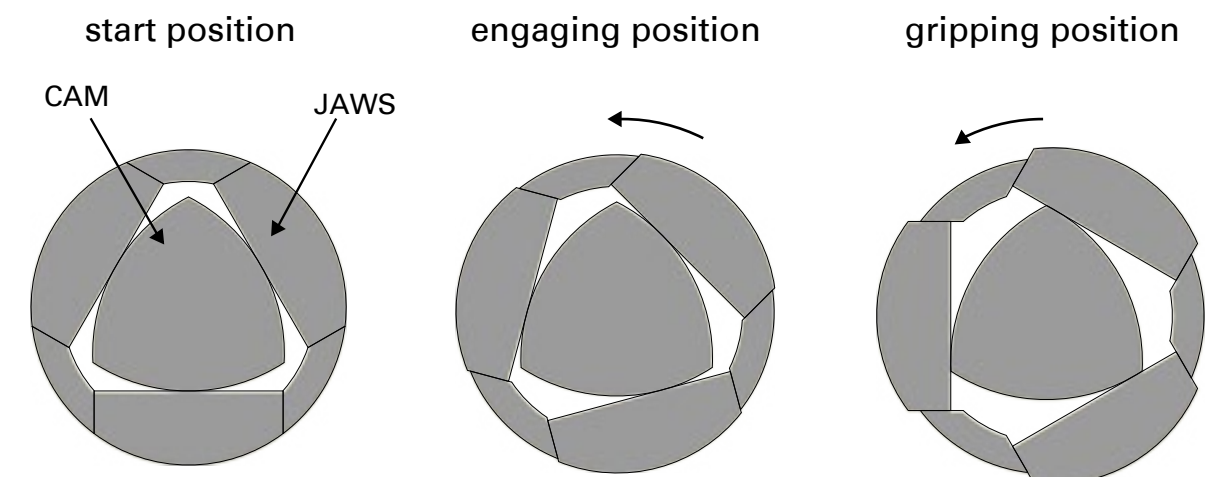
Each cam design uses a proven technology suitable for varied applications.

Send us your application requirements and together we will find the best solution.



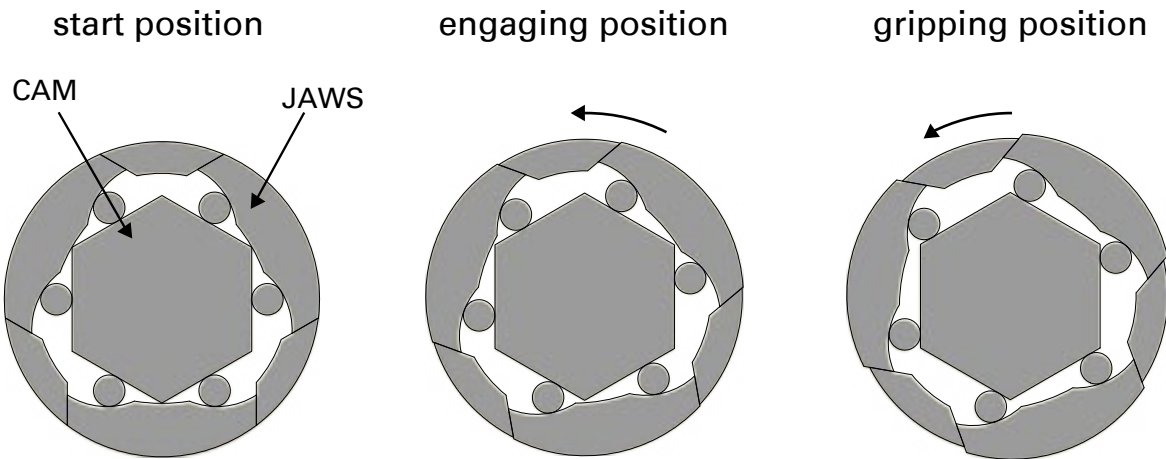
TRILOBATE - CK

Simple design trilobate cam, with no rollers and no pins. The large central cam allows a large expansion range and smoothly keeps jaw opening even through dust and other debris.



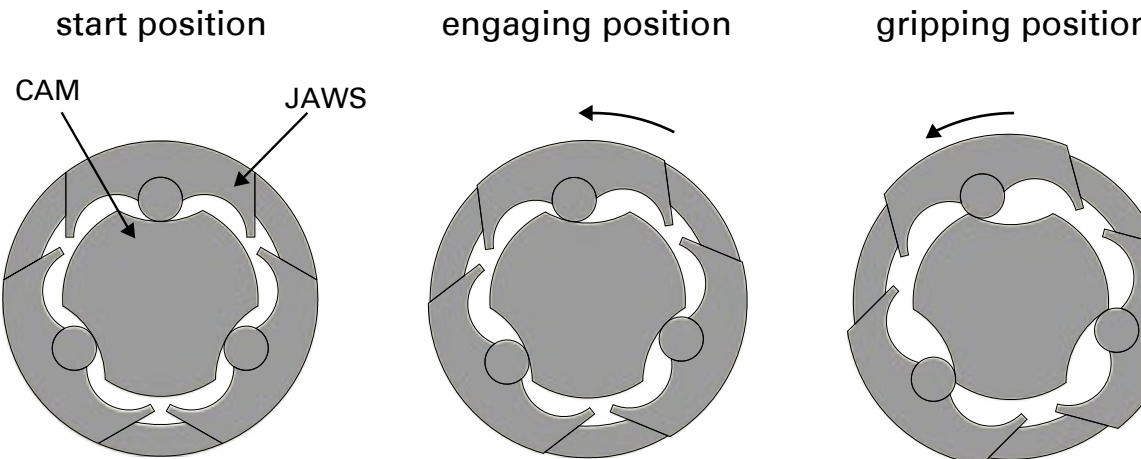
EXALOBATE - CK E

The exalobate cam has a double pin activation for a smoother and faster expansion. This design employs rolling friction instead of the sliding one.



PATENTED - CK P

Innovative design with auto neutral position and minimal engagement angle from loading to full contact. Allows reduced core thickness and accepts short cores.



ADAPTER'S FEATURES

The cam designs can be coupled with different adapters to compose the mechanical chuck. Although there are many adapter models, they all share high-quality features.

CAGE

HIGH LOAD CAPACITY

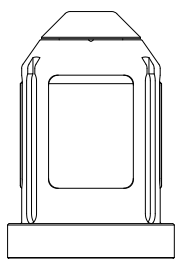
all nickel coated with anti-rust treatment, cage and flange pin are both made out of a forged and homogeneous material to maximize strength and reliability



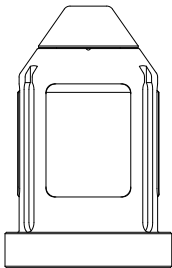
NOSE

CUSTOMIZABLE NOSE

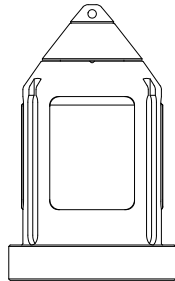
designed to meet every operational need



S



M



L

JAWS

HUGE CONTACT AREA

maximum chuck-to-core contact

ELIMINATE JAW REPLACEMENT

sturdy jaws with the thickest tab in the industry, made of hardened steel and nickel coated, having large taps to avoid failures

NO-FALL-DOWN SYSTEM

eliminates the dropping of the jaws while removing the adapter for cleaning purposes

DIFFERENT FINISH

smooth



grooved



carbide



OPTIONAL

QUICK CHANGE EXPANSION UNIT

jaws remain in the adapter during size change and for cleaning



TORQUE ACTIVATION

Torque activated chucks use the movement of the reel to automatically block and center the reel core.

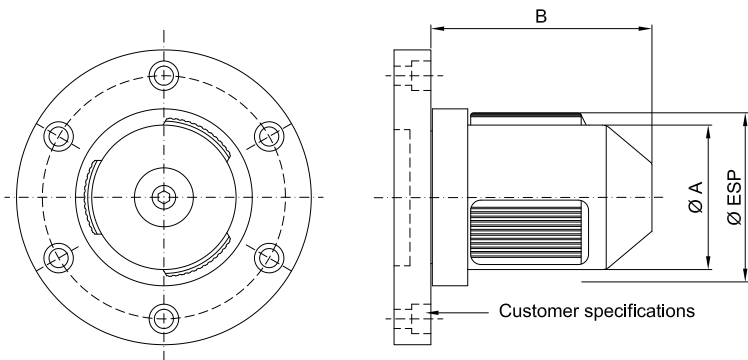
The cam at the centre of the spindle rotates and pushes the expansion elements (sectors) toward the reel core ensuring high performance even in the dust-filled environments.

All models are 100% customizable.

CK-S

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.

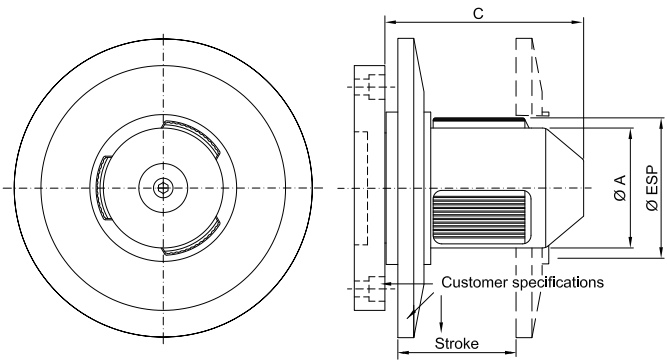


model	A (mm)	B (mm)	expansion (mm)	max weight (N)	twisting mom. (Nm)
70	68	150	69÷79	18000	1150
3"	74.5		75.5÷85.5		
100	98		99÷109		
4"	100		101÷111		
120	118	150	119÷129	45000	2500
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198	150	199÷209	110000	5000
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298	150	299÷309	110000	5000
12"	302		303÷313		

CK-SF

CORE CHUCK WITH FLANGE

Ideal for roll stands with an existing core ejector system, the flange allows the easy core discharge.

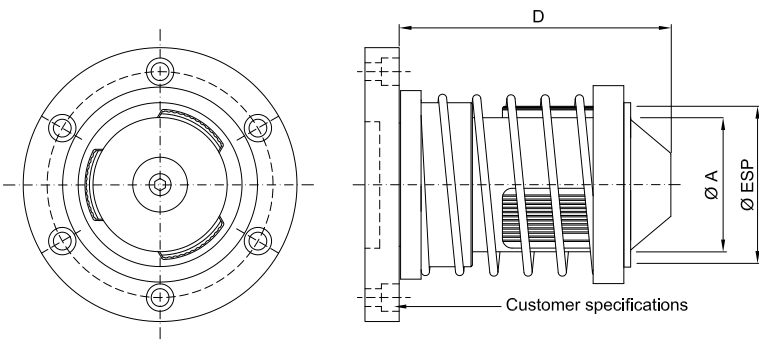


model	A (mm)	B (mm)	expansion (mm)	max weight (N)	twisting mom. (Nm)
70	68	195	69÷79	18000	1150
3"	74.5		75.5÷85.5		
100	98		99÷109		
4"	100		101÷111		
120	118	195	119÷129	45000	2500
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198	195	199÷209	110000	5000
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298	195	299÷309	110000	5000
12"	302		303÷313		

CK-SFM

CORE CHUCK WITH FLANGE AND SPRING

For the automatic core discharge through a calibrated spring that pushes off the core as the roll stand opens.

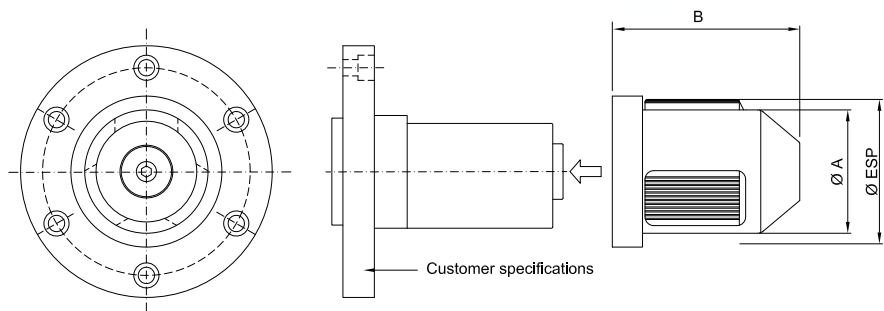


model	A (mm)	B (mm)	expansion (mm)	max weight (N)	twisting mom. (Nm)
70	68	199	69÷79	18000	1150
3"	74.5		75.5÷85.5		
100	98		99÷109		
4"	100		101÷111		
120	118	199	119÷129	45000	2500
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198	199	199÷209	110000	5000
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298	199	299÷309	110000	5000
12"	302		303÷313		

CK-SM

MODULAR CORE CHUCK

The quick-change system of the cage allows to run any core size without changing the cam unit. Also available with ejection flange upon request.



model	A (mm)	B (mm)	expansion (mm)	max weight (N)	twisting mom. (Nm)
70	68	149	69÷79	18000	1150
3"	74.5		75.5÷85.5		
100	98		99÷109		
4"	100		101÷111		
120	118		119÷129		
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198		199÷209		
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298	149	299÷309	45000	2500
12"	302		303÷313		
100	98		99÷109		
4"	100		101÷111		
120	118		119÷129		
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198		199÷209		
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298	149	299÷309	110000	5000
12"	302		303÷313		
150	148		149÷159		
6"	150		151÷161		
200	198		199÷209		
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298		299÷309		
12"	302		303÷313		

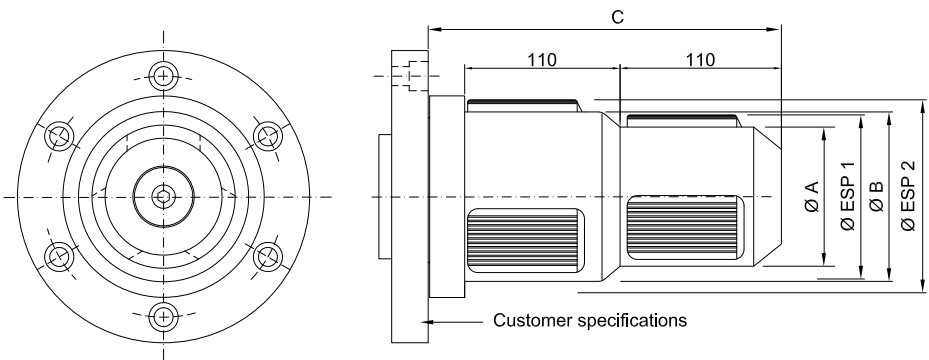
CK-SDD

DOUBLE DIAMETER CORE CHUCK

Step chuck that allows multiple core sizes without the downtime for exchanging chucks. Also available with ejection flange upon request.



Optional: the large diameter core chuck can remain in place while the front chuck is interchangeable with a modular system, always maintaining high roll load capacity.



model	A (mm)	B (mm)	C (mm)	expansion A (mm)	expansion B (mm)	max weight A (N)	twistin mom. A (Nm)	max weight B (N)	twisting mom. B (Nm)
70 - 100	68	98	250	69÷79	99÷109	18000	1150	45000	2500
70 - 4"		100			101÷111				
70 - 120		118			119÷129				
3"-100	74.5	98		75.5÷85.5	99÷109	45000	2500	110000	5000
3"-4"		100			101÷111				
3"-150		148			149÷159				
3"- 6"	100	150		101÷111	151÷161	110000	5000	110000	5000
4"- 5"		125			126÷136				
4"- 6"		150			151÷161				
150 - 300	148	298		149÷159	299÷309	110000	5000	110000	5000
150 - 12"	150	302			303÷313				
6"- 12"	150	302			303÷313				

A photograph of an industrial machine, likely a lathe or mill, featuring two large pneumatic cylinders. The machine is constructed from metal and has a complex arrangement of components, including a large cylindrical body on the left and a smaller, more intricate assembly on the right. The background is a blurred industrial setting. The text "PNEUMO MECHANICAL CORE CHUCKS" is overlaid in white, bold, sans-serif font, with a small orange horizontal line above the word "PNEUMO".

PNEUMO MECHANICAL CORE CHUCKS

AIR-PRESSURE ACTIVATION

The pneumo-mechanical chucks are ideal when the core must be locked in the absence of any twisting moment in order to transmit high torque values and/or with high working speeds.

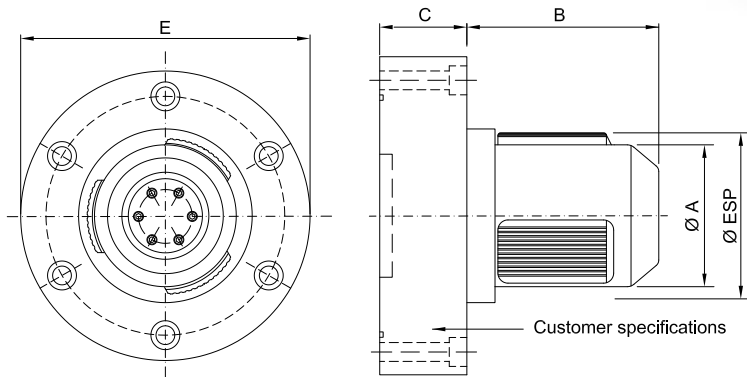
Through the air pressure, the expansion units expand and safely lock the reel core in place.

All models are 100% customizable.

CK-PM/S

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.

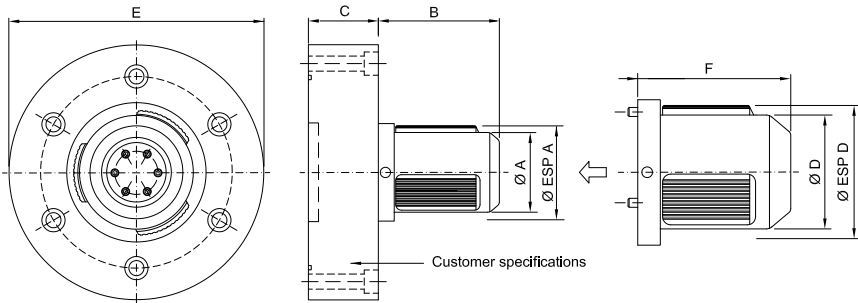


model	A (mm)	B (mm)	C (mm)	E (mm)	expansion (mm)	max weight (N)	twisting mom. (Nm)
70	68	147	102	197	69÷79	7000	800
3"	74				74.5÷82.5		
100	98	157	106	248	98.5÷108.5	18000	3200
4"	100				100.5÷110.5		
150	148	147	110	345	148.5÷158.5	35000	9500
6"	150				150.5÷158.5		

CK-PM/SM

MODULAR CORE CHUCK

The quick-change system of the cage allows to run any core size without changing the cam unit.

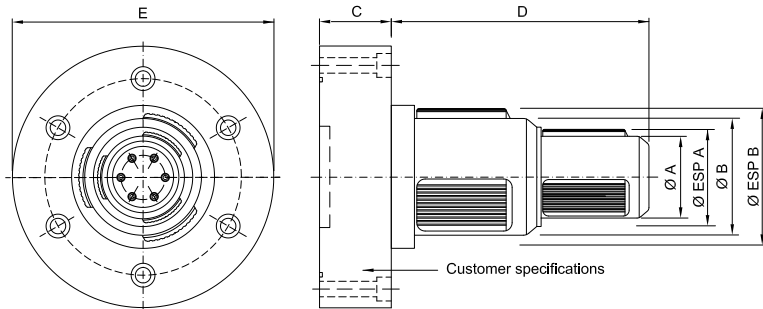


model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	expansion A (mm)	expansion D (mm)	max weight (N)	twisting mom. (Nm)
3"-6"	74	147	102	148	197	115	74.5÷82.5	148.5÷157.5	7000	800
4"-8"	98	157	106	198	248	125	98.5÷108.5	198.5÷207.5	18000	3200
4"-10"	98	157	106	248	248	125	98.5÷108.5	248.5÷257.5	18000	3200
6"-12"	150	147	110	302	345	125	150.5÷158.5	302÷311	35000	9500

CK-PM/SDD

DOUBLE DIAMETER CORE CHUCK

Step chuck that allows multiple core sizes without the downtime for exchanging chucks.



model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	expansion A (mm)	expansion D (mm)	max weight (N)	twisting mom. (Nm)
3"-6"	74	147	102	229	197	74.5÷82.5	148.5÷157.5	7000	800
4"-10"	98	157	106	229	248	98.5÷108.5	248.5÷257.5	18000	3200



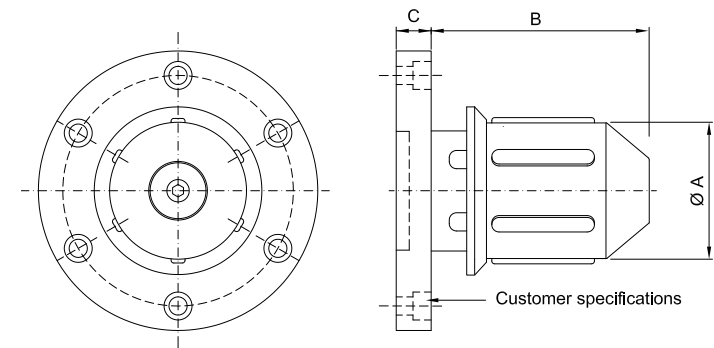
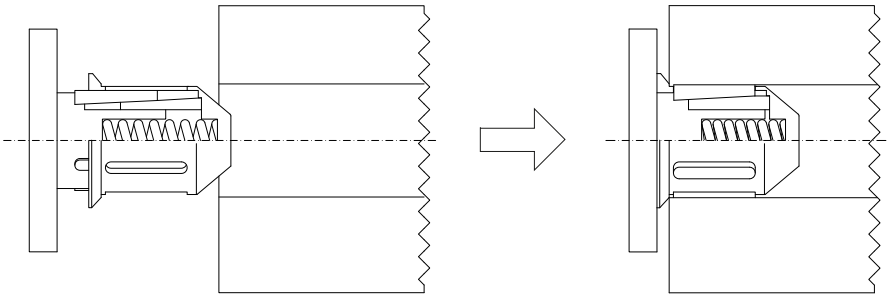
SIDE LOAD CORE CHUCKS

SIDE LOAD SYSTEM

Side load chucks are provided with a spring system that, using the axial thrust when introduced inside the reel core, expands a series of splines that guarantee the right grip to the reel.

Renova's side load chucks provide the best quality to price ratio for clamping cardboard cores.

All models are 100% customizable.



model	A (mm)	B (mm)	C (mm)	max weight (N)	twisting mom. (Nm)
3"	74.5	150	25	12000	250
4"	98	150		27000	1100
5"	125	145	30	50000	2500
6"	148	145		75000	3000
10"	242	135		100000	12000
12"	297	135		100000	18000

CK-TM/S

SINGLE DIAMETER CORE CHUCK

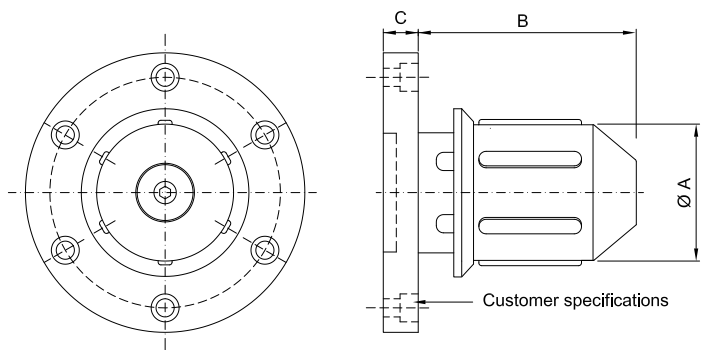
Monodiametral chuck ideal for single core diameters.



CK-TM/SF

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.

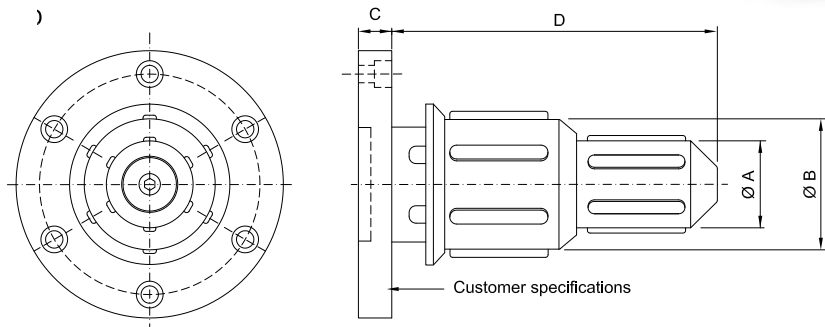


model	A (mm)	B (mm)	C (mm)	max weight (N)	twisting mom. (Nm)
3"	74.5	150	25	12000	250
4"	98	150		27000	1100
5"	125	145	30	50000	2500
6"	148	145		75000	3000
10"	242	135		100000	12000
12"	297	135		100000	18000

CK-TM/D

DOUBLE DIAMETER CORE CHUCK

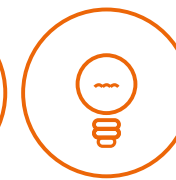
Step chuck that allows multiple core sizes without the downtime for exchanging chucks.



model	A (mm)	B (mm)	C (mm)	D (mm)	max weight A (N)	max weight B (N)	twisting mom. A (Nm)	twisting mom. B (Nm)
3"-4"	74.5	98	25	210	7500	25000	250	1100
3"-6"	74.5	148	30	244	15000	75000	250	3000
4"-6"	100	148	30	244	25000	75000	1100	3000



MADE IN ITALY
Our products are 100% designed and made in Italy

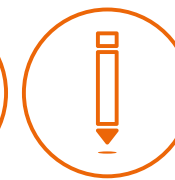


SUPPORT
Our staff is always available to answer your questions, also in the after-sales phase

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



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



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



SUSTAINABILITY
Sustainable products, sustainable company. Renova has joined Erion



renova
WE NEVER LOSE CONTROL

renova srl
viale rimembranze 93
20099 sesto san giovanni
milano - Italy

t +39 022700739
f +39 0225708635
m info@renova-srl.com

www.renova-srl.com

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