



 **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 photograph of a large industrial robotic arm, likely a CNC lathe tool changer, with a white and grey finish. The arm is positioned in a factory setting. A large, semi-transparent dark grey overlay covers the left and center of the image. The text 'TORQUE ACTIVATED CORE CHUCKS' is written in white, bold, sans-serif font across the center of the overlay. A small orange horizontal line is positioned above the word 'TORQUE'.

**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.

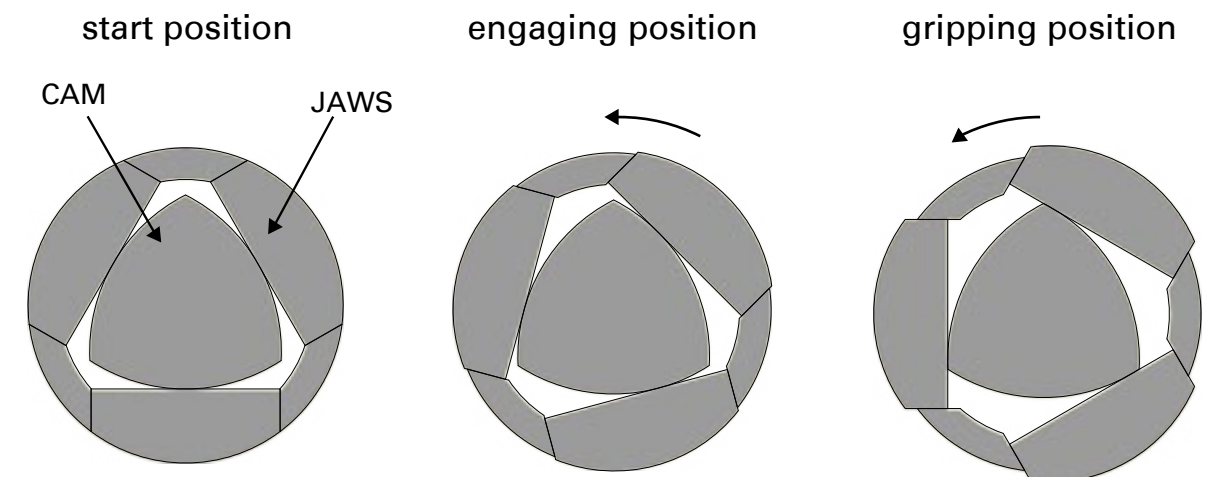
Each cam design uses a proven technology suitable for varied applications.

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.



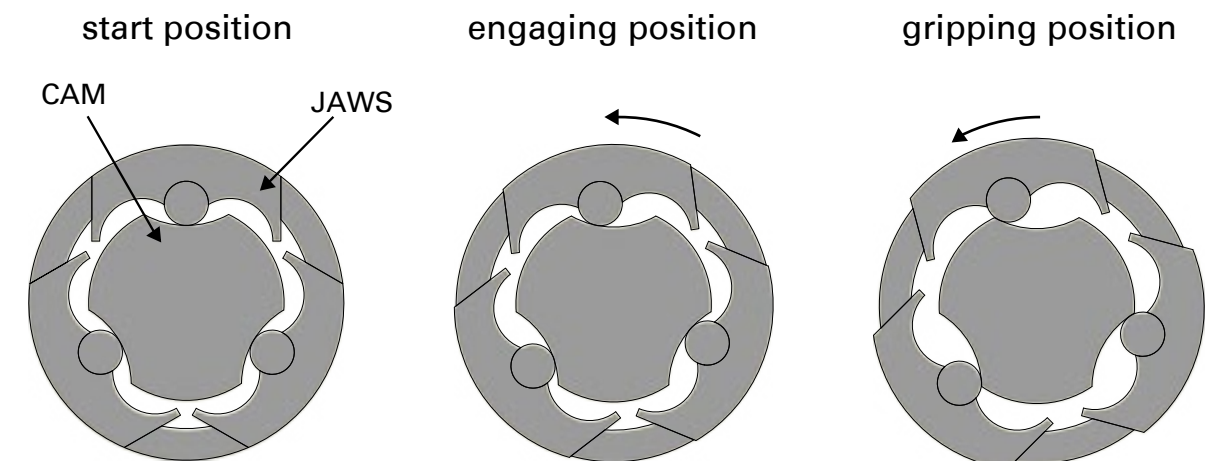
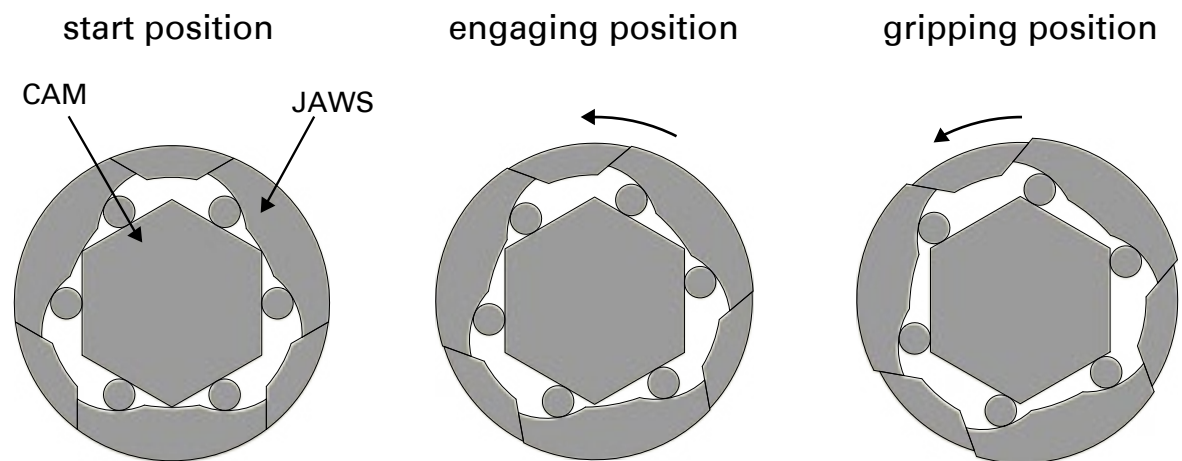
EXALOBATE - CK E

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

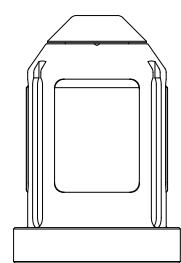
all nickel coated with anti-rust treatment, cage and flange pin are both made out of a forged and homogeneous material to maximize strength and reliability



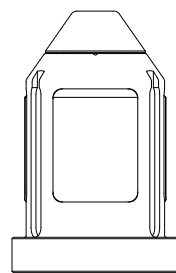
NOSE

CUSTOMIZABLE NOSE

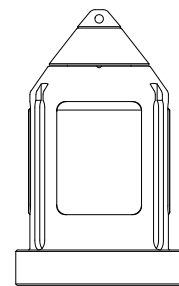
designed to meet every operational need



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.

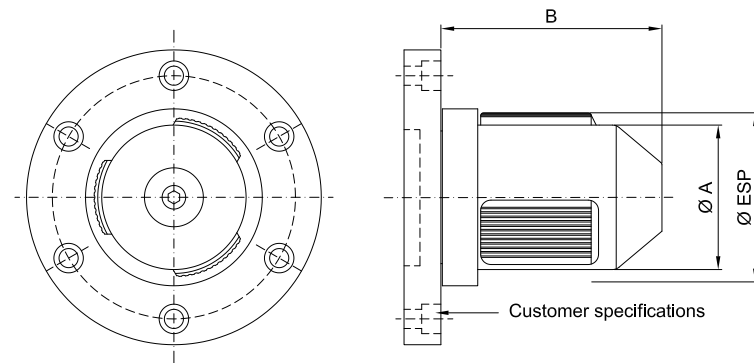
The cam at the centre of the spindle rotates and pushes the expansion elements (sectors) toward the reel core ensuring high performance even in the dust-filled environments.

All models are 100% customizable.

CK-S

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.



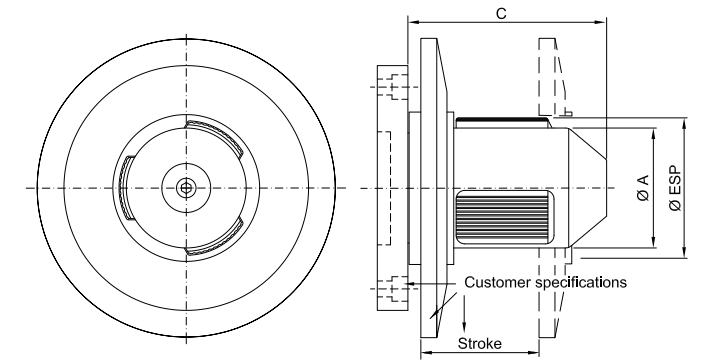
model	A	B	expansion (in)	max weight (lbf)	twisting mom. (ft lbf)
70	2.7"	5.9"	2.7÷3.1	4047	848
3"	2.9"		3.0÷3.4		
100	3.8"		3.9÷4.3		
4"	3.9"		4.0÷4.4		
120	4.6"		4.7÷5.1		
5"	4.9"	5.0÷5.4	10116	1844	
150	5.8"	5.9÷6.3			
6"	5.9"	6.0÷6.4			
200	7.8"	7.8÷8.2			
8"	7.9"	7.9÷8.3			
250	9.8"	9.8÷10.2	24729	3688	
10"	9.9"	10.0÷10.4			
300	11.7"	11.8÷12.2			
12"	11.9"	11.9÷12.3			



CK-SF

CORE CHUCK WITH FLANGE

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

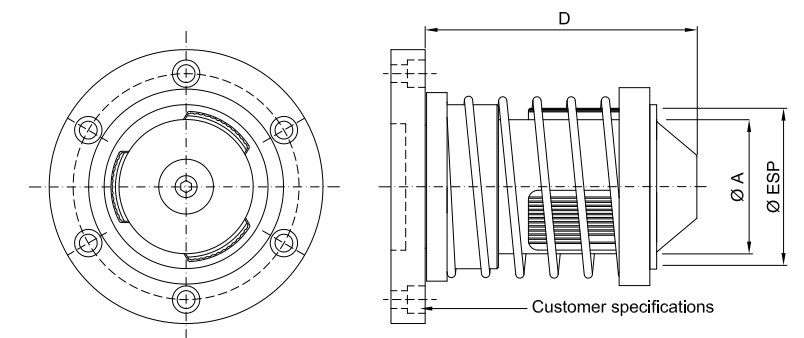


model	A	B	expansion (in)	max weight (lbf)	twisting mom. (ft lbf)
70	2.7"	7.7"	2.7÷3.1	4047	848
3"	2.9"		3.0÷3.4		
100	3.8"		3.9÷4.3		
4"	3.9"		4.0÷4.4		
120	4.6"		4.7÷5.1		
5"	4.9"	5.0÷5.4	10116	1844	
150	5.8"	5.9÷6.3			
6"	5.9"	6.0÷6.4			
200	7.8"	7.8÷8.2			
8"	7.9"	7.9÷8.3			
250	9.8"	9.8÷10.2	24729	3688	
10"	9.9"	10.0÷10.4			
300	11.7"	11.8÷12.2			
12"	11.9"	11.9÷12.3			

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.

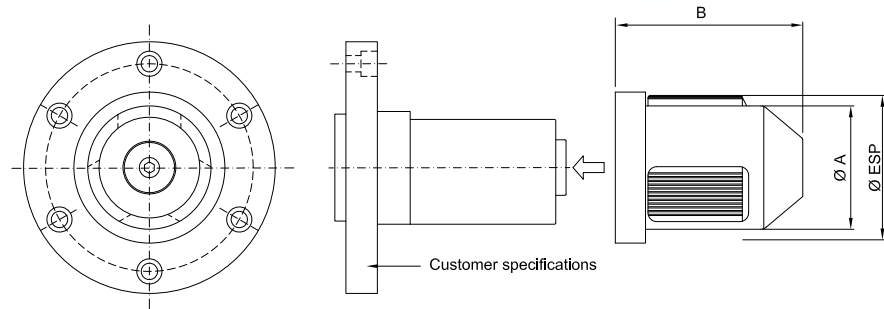


model	A	B	expansion (in)	max weight (lbf)	twisting mom. (ft lbf)
70	2.7"	7.8"	2.7÷3.1	4047	848
3"	2.9"		3.0÷3.4		
100	3.8"		3.9÷4.3		
4"	3.9"		4.0÷4.4		
120	4.6"		4.7÷5.1		
5"	4.9"	5.0÷5.4	10116	1844	
150	5.8"	5.9÷6.3			
6"	5.9"	6.0÷6.4			
200	7.8"	7.8÷8.2			
8"	7.9"	7.9÷8.3			
250	9.8"	9.8÷10.2	24729	3688	
10"	9.9"	10.0÷10.4			
300	11.7"	11.8÷12.2			
12"	11.9"	11.9÷12.3			

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	B	expansion (in)	max weight (lbf)	twisting mom. (ft lbf)
70	2.7"	5.9"	2.7÷3.1	4047	1150
3"	2.9"		3.0÷3.4		
100	3.8"		3.9÷4.3		
4"	3.9"		4.0÷4.4		
120	4.6"		4.7÷5.1		
5"	4.9"		5.0÷5.4		
150	5.8"		5.9÷6.3		
6"	5.9"		6.0÷6.4		
200	7.8"		7.8÷8.2		
8"	7.9"		7.9÷8.3		
250	9.8"		9.8÷10.2		
10"	9.9"		10.0÷10.4		
300	11.7"	11.8÷12.2	10116	2500	
12"	11.9"	11.9÷12.3			
100	3.8"	3.9÷4.3			
4"	3.9"	4.0÷4.4			
120	4.6"	4.7÷5.1			
5"	4.9"	5.0÷5.4			
150	5.8"	5.9÷6.3			
6"	5.9"	6.0÷6.4			
200	7.8"	7.8÷8.2			
8"	7.9"	7.9÷8.3			
250	9.8"	9.8÷10.2			
10"	9.9"	10.0÷10.4			
300	11.7"	11.8÷12.2	24729	5000	
12"	11.9"	11.9÷12.3			
150	5.8"	5.9÷6.3			
6"	5.9"	5.9÷6.3			
200	7.8"	7.8÷8.2			
8"	7.9"	7.9÷8.3			
250	9.8"	9.8÷10.2			
10"	9.9"	10.0÷10.4			
300	11.7"	11.8÷12.2			
12"	11.9"	11.9÷12.3			

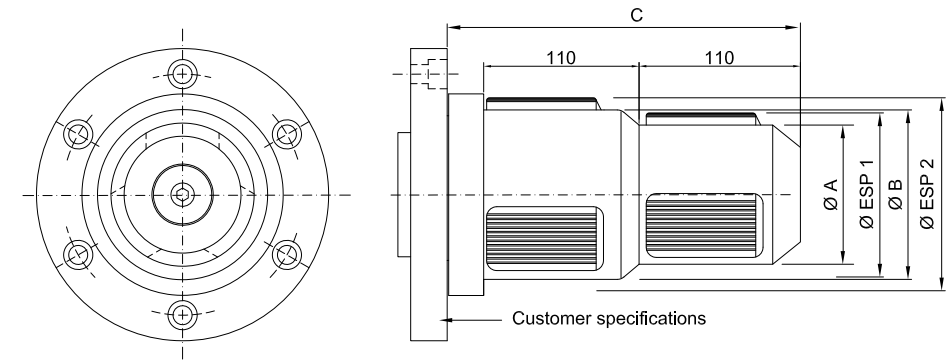
CK-SDD

DOUBLE DIAMETER CORE CHUCK

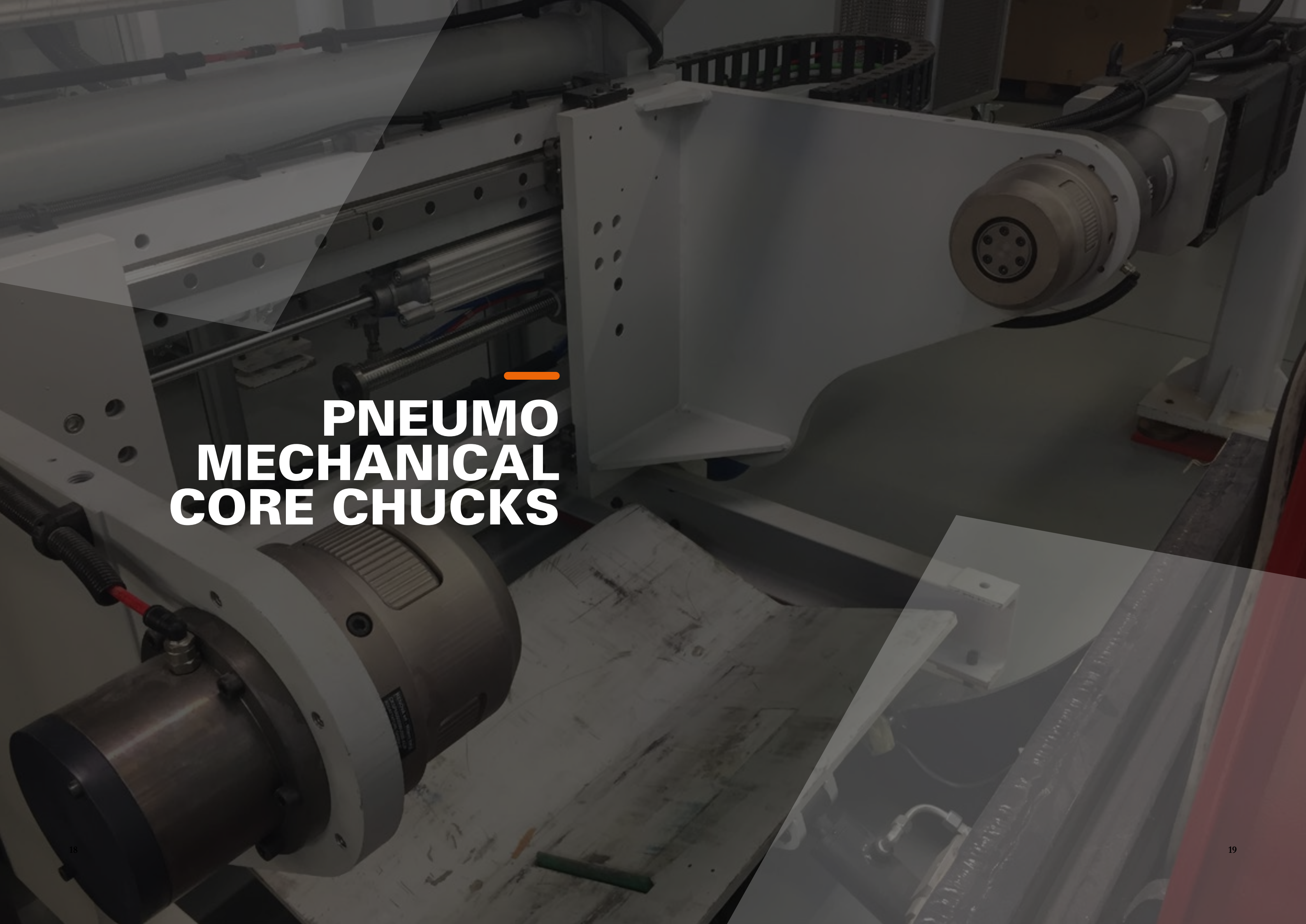
Step chuck that allows multiple core sizes without the downtime for exchanging chucks. Also available with ejection flange upon request.



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	B	C	expansion A (in)	expansion B (in)	max weight A (lbf)	twistin mom. A (ft lbf)	max weight B (lbf)	twisting mom. B (ft lbf)						
70 - 100	2.7"	3.8"	9.8"	2.7÷3.1	3.9÷4.3	4047	848	10116	1844						
70 - 4"		3.9"			4.0÷4.4										
70 - 120		4.6"			4.7÷5.1										
3"-100	2.9"	3.8"		3.0÷3.4	3.9÷4.3					10116	1844	24729	3688		
3"-4"		3.9"			4.0÷4.4										
3"-150		5.8"			5.9÷6.3										
3"-6"	5.9"	6.0÷6.4													
4"-5"	3.9"	4.9"		4.0÷4.4	5.0÷5.4			24729	3688					24729	3688
4"-6"		5.9"			6.0÷6.4										
150 - 300	5.8"	11.7"		5.9÷6.3	11.8÷12.2										
150 - 12"	5.9"	11.9"		6.0÷6.4	11.9÷12.3										
6"-12"		11.9"			11.9÷12.3										

The image shows a close-up of industrial machinery, likely a lathe or similar turning machine. The focus is on the pneumatic mechanical core chucks. The machine is constructed from heavy-duty metal, with various components like the chuck, tool holder, and workpiece visible. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the metallic textures and mechanical details. A semi-transparent dark overlay covers the top and right portions of the image, providing a background for the text.

**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.

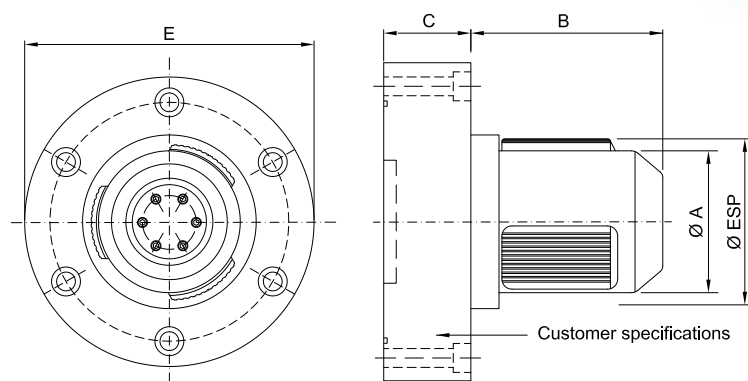
Through the air pressure, the expansion units expand and safely lock the reel core in place.

All models are 100% customizable.

CK-PM/S

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.

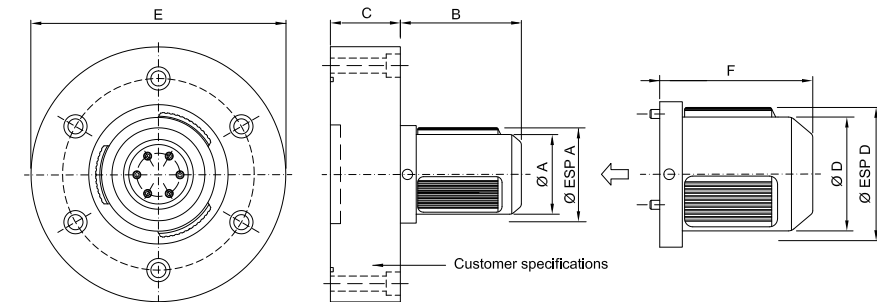


model	A	B	C	E	expansion (mm)	max weight (lbf)	twisting mom. (ft lbf)
70	2.7"	5.8"	4.0"	7.8"	2.7÷3.1	1574	590
3"	2.9"				2.9÷3.3		
100	3.8"	6.2"	4.2"	9.8"	3.9÷4.3	4047	2360
4"	3.9"				4.0÷4.3		
150	5.8"	5.8"	4.3"	13.6"	5.8÷6.2	7868	7007
6"	5.9"				5.9÷6.2		

CK-PM/SM

MODULAR CORE CHUCK

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

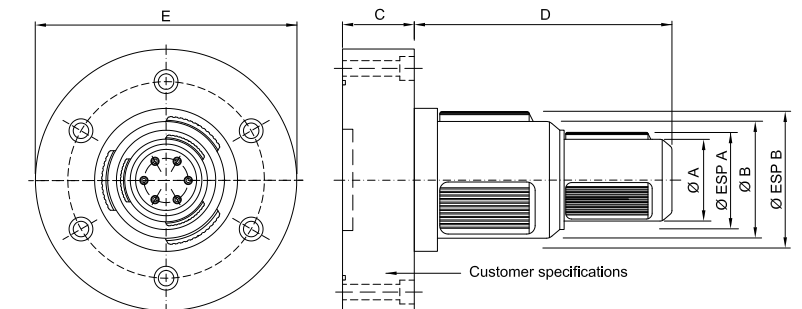


model	A	B	C	D	E	F	expansion A (in)	expansion D (in)	max weight (lbf)	twisting mom. (ft lbf)
3"-6"	2.9"	5.8"	4.0"	5.8"	7.8"	4.5"	2.9÷3.3	5.8÷6.2	1574	590
4"-8"	3.9"	6.2"	4.2"	7.8"	9.8"	4.9"	3.9÷4.3	7.8÷8.2	4047	2360
4"-10"	3.9"	6.2"	4.2"	9.8"	9.8"	4.9"	3.9÷4.3	9.8÷10.2	4047	2360
6"-12"	5.9"	5.8"	4.3"	11.8"	13.6"	4.9"	5.9÷6.3	11.8÷11.2	7868	9500

CK-PM/SDD

DOUBLE DIAMETER CORE CHUCK

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



model	A	B	C	D	E (mm)	expansion A (mm)	expansion D (mm)	max weight (lbf)	twisting mom. (ft lbf)
3"-6"	2.9"	5.8"	4.0"	9.0"	7.8"	2.9÷3.3	5.8÷6.2	1574	590
4"-10"	3.9"	6.2"	4.2"	9.0"	9.8"	3.9÷4.3	9.8÷10.2	4047	2360



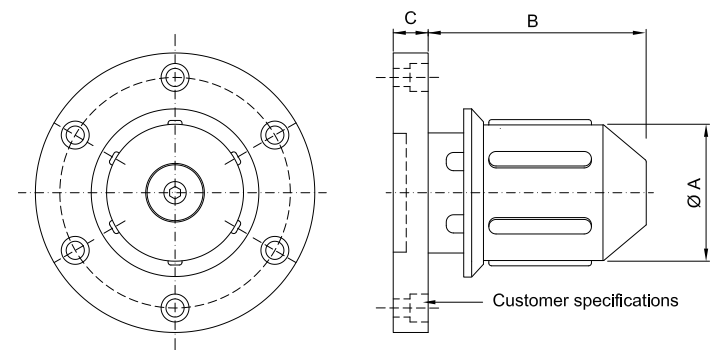
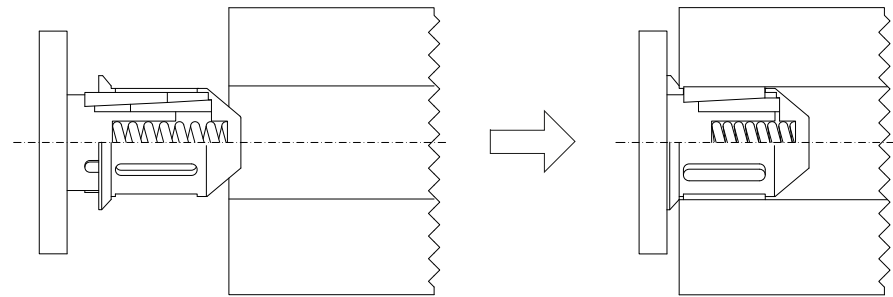
**SIDE LOAD
CORE CHUCKS**

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	B	C	max weight (lbf)	twisting mom. (ft lbf)
3"	2.9"	5.9"	1.0"	2698	184
4"	3.9"	5.9"		6070	811
5"	4.9"	5.7"	1.2"	11240	1844
6"	5.8"	5.7"		16861	2213
10"	9.5"	5.3"		22481	8851
12"	11.7"	5.3"		22481	13276

CK-TM/S

SINGLE DIAMETER CORE CHUCK

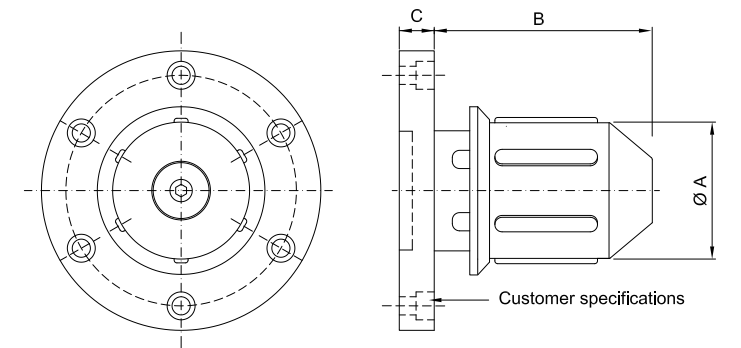
Monodiametral chuck ideal for single core diameters.



CK-TM/SF

SINGLE DIAMETER CORE CHUCK

Monodiametral chuck ideal for single core diameters.

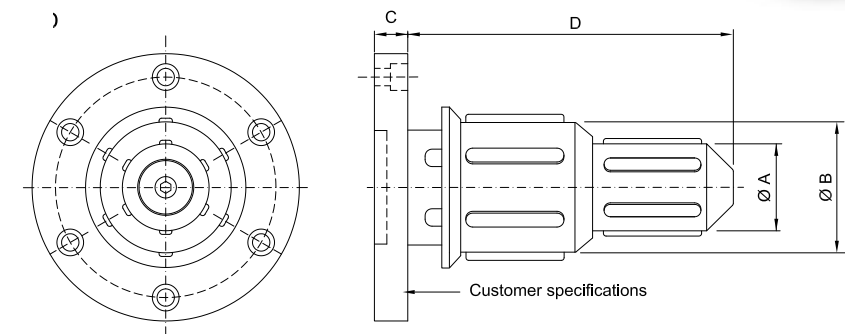


model	A	B	C	max weight (lbf)	twisting mom. (ft lbf)
3"	2.9"	5.9"	1.0"	2698	184
4"	3.9"	5.9"		6070	811
5"	4.9"	5.7"	1.2"	11240	1844
6"	5.8"	5.7"		16861	2213
10"	9.5"	5.3"		22481	8851
12"	11.7"	5.3"		22481	13276

CK-TM/D

DOUBLE DIAMETER CORE CHUCK

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



model	A	B	C	D (mm)	max weight A (lbf)	max weight B (lbf)	twisting mom. A (ft lbf)	twisting mom. B (ft lbf)
3"-4"	2.9"	3.9"	1.0"	8.3"	1686	5620	184	811
3"-6"	2.9"	5.8"	1.2"	9.6"	3372	16861	184	2213
4"-6"	3.9"	5.8"	1.2"	9.6"	5620	16861	811	2213



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

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



SUSTAINABILITY
Sustainable products, sustainable company. Renova has joined Erion



renova
WE NEVER LOSE CONTROL

CST Systems

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