



 gripmatic
EXPANDING CORE CHUCKS



gripmatic

EXPANDING CORE CHUCKS

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!



3D VIDEO

**torque
activated
core chucks**

**pneumatic
core chucks**

**side load
core chucks**



100% customizable

According to the application requirements.



**100% fit
all applications**

Easily upgrades or retrofits
any existing machine.



no maintenance

All chucks can be cleaned directly
on roll stand.



photoelectric sensor

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

torque activated core chucks

Torque activated chucks use the movement of the reel to automatically block and center the reel core. The cam at the center of the spindle rotates and pushes the expansion elements (sectors) toward the reel core ensuring high performance even in the dust-filled environments.

DIFFERENT CAM DESIGNS

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



TRILOBATE CK



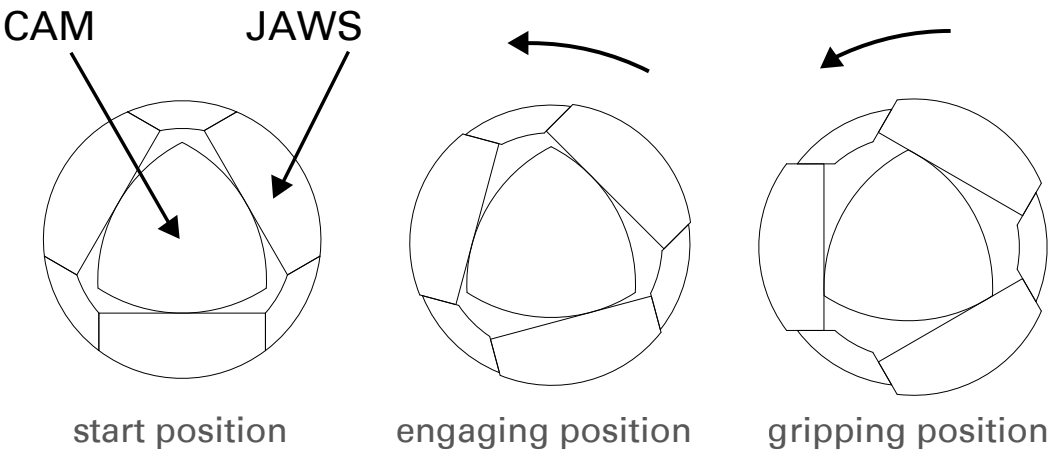
EXALOBATE CK E



PATENTED CK P

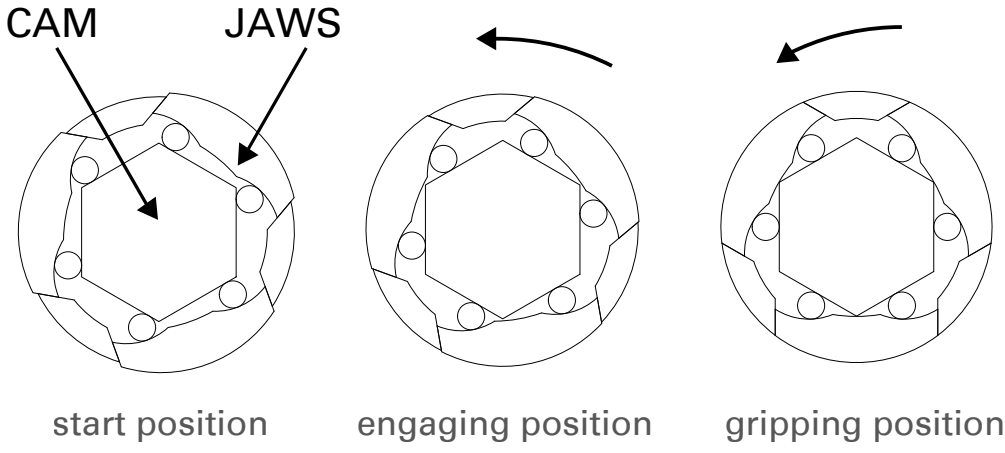
TRILOBATE CK

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.



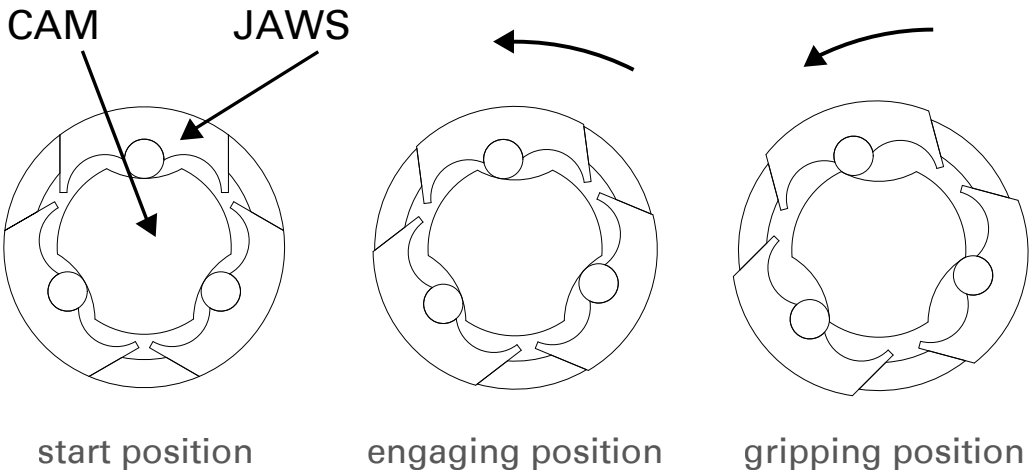
EXALOBATE CK E

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

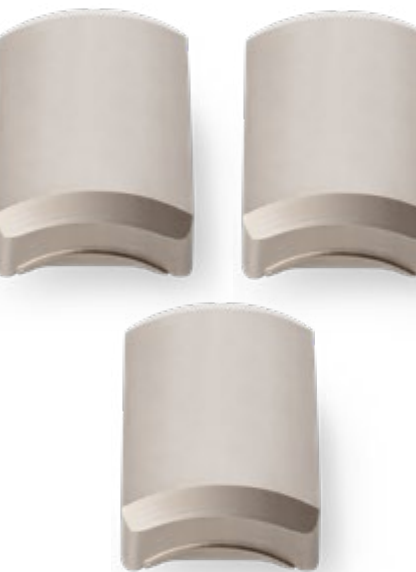


PATENTED CK P

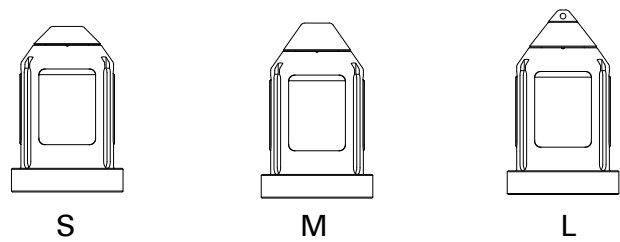
Innovative design with auto neutral position and minimal engagement angle from loading to full contact. Allows reduced core thickness and accepts short cores.



ADAPTERS FEATURES



CUSTOMIZABLE NOSE



CAGE

High load capacity cage. 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.

GRIPPING JAWS

Sturdy jaws nickel coated with anti-rust treatment. The huge contact area ensures the maximum chuck-to-core contact. The no-fall-down system eliminates the dropping of the jaws while removing the adapter for cleaning purposes. Different finishes available:



torque activated core chucks

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

MODELS

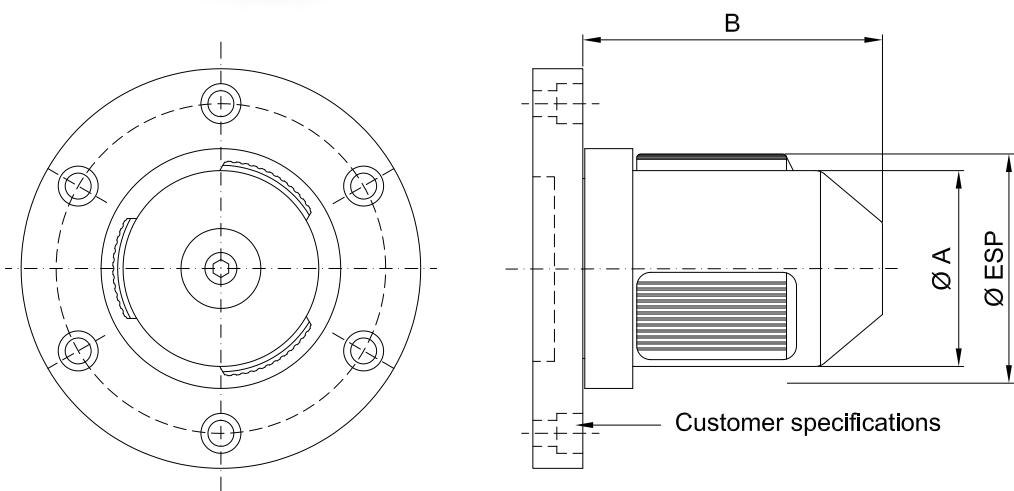
CK-S

SINGLE DIAMETER TORQUE ACTIVATED CHUCK

Monodiametral chuck ideal for single core diameters.



SEE THE VIDEO HERE



model	A (mm)	B (mm)	expansion (mm)	maximum 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	45000	2500
120	118		119÷129		
5"	125		126÷136		
150	148		149÷159	110000	5000
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		

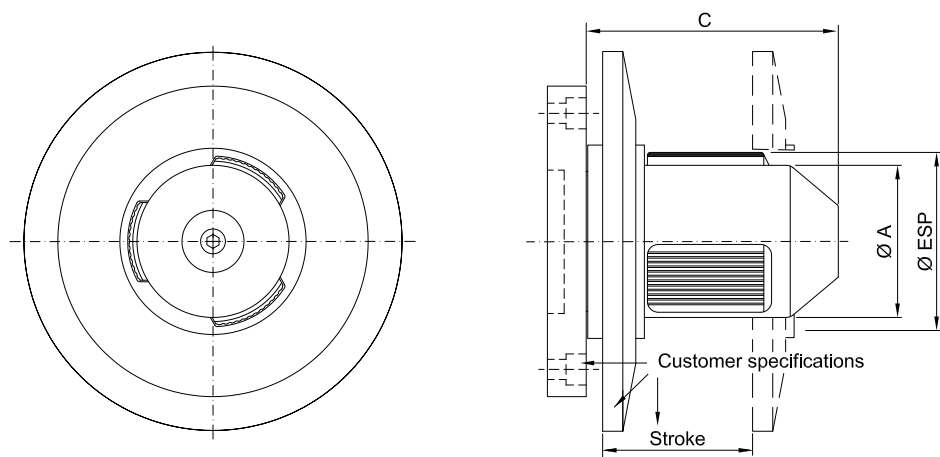
CK-SF

TORQUE ACTIVATED CHUCK WITH FLANGE

Ideal for roll stands with an existing core ejector system, the flange allows the easy core discharge. This model is also available in the CK-SMF version with quick-change system of the cage.



SEE THE VIDEO HERE



model	A (mm)	B (mm)	expansion (mm)	maximum 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	45000	2500
120	118		119÷129		
5"	125		126÷136		
150	148		149÷159	110000	5000
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		

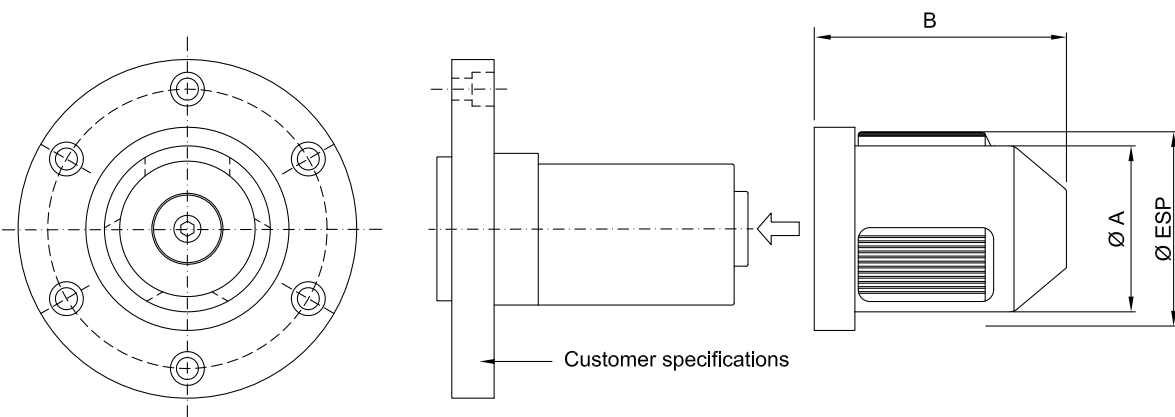
CK-SM

MODULAR TORQUE ACTIVATED CHUCK

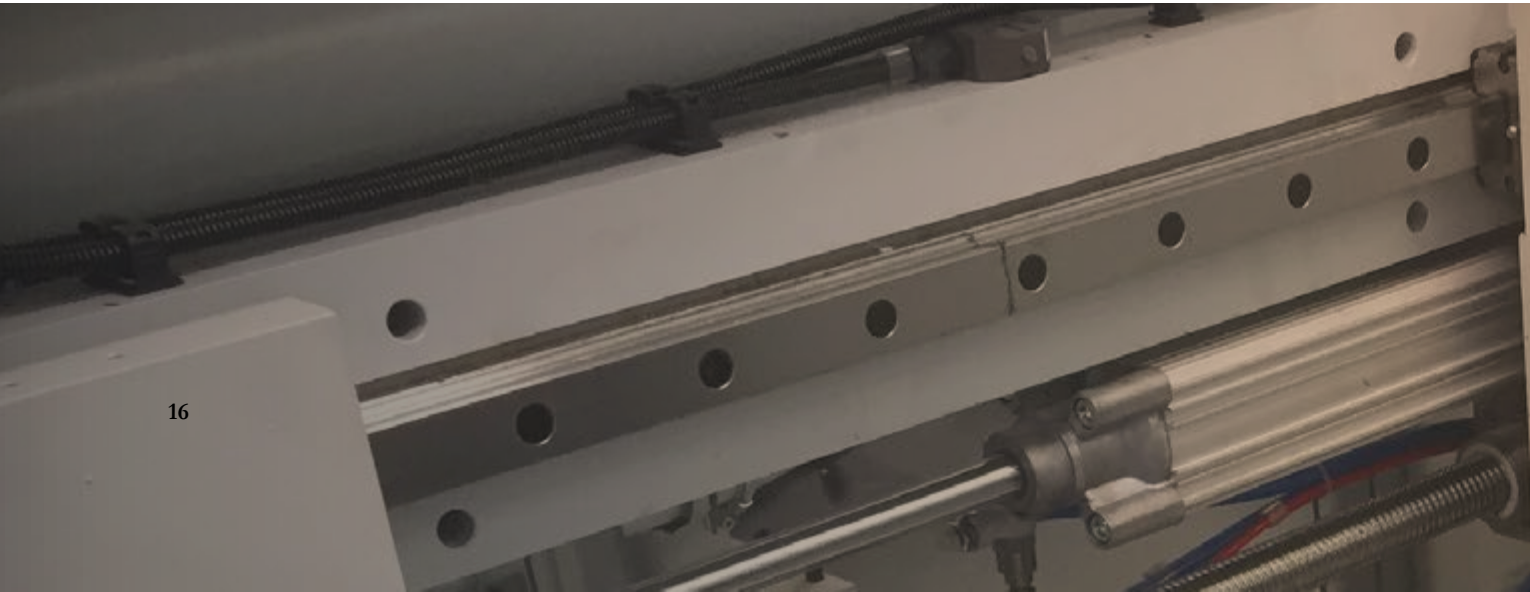


The quick-change system of the cage allows to run any core size without changing the cam unit. This system is also available for single diameter models with ejection flange (CK- SMF version) and for double diameter models (CK- SDD/SM version) upon request.

SEE THE VIDEO HERE



model	A (mm)	B (mm)	expansion (mm)	maximum weigh (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	149	249÷259	110000	5000
10"	252		253÷263		
300	298		299÷309		
12"	302		303÷313		
150	148		149÷159		
6"	150		151÷161		



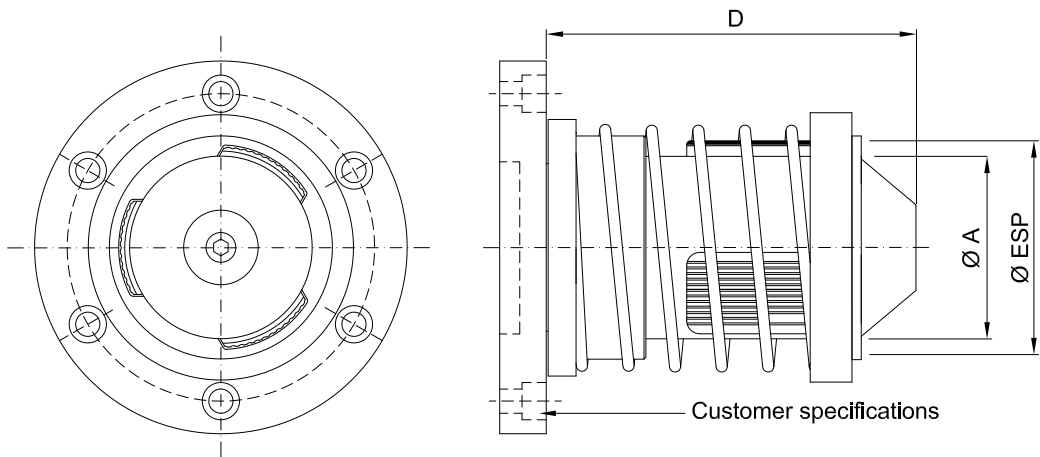
CK-SFM

TORQUE ACTIVATED CHUCK WITH FLANGE AND SPRING



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

SEE THE VIDEO HERE 



model	A (mm)	B (mm)	expansion (mm)	maximum 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		119÷129	45000	2500
5"	125		126÷136		
150	148		149÷159		
6"	150		151÷161		
200	198		199÷209	110000	5000
8"	201		202÷212		
250	248		249÷259		
10"	252		253÷263		
300	298		299÷309		
12"	302		303÷313		

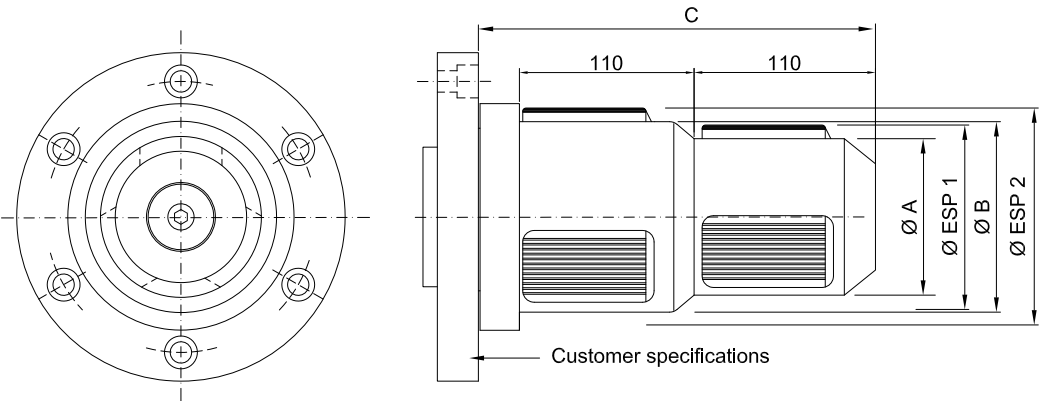
CK-SDD

DOUBLE DIAMETER TORQUE ACTIVATED CHUCK



Step chuck that allows multiple core sizes without the downtime for exchanging chucks. Also available in the CK-SDF version with ejection flange and in the CK-SDFF version with double flange upon request.

SEE THE VIDEO HERE 



model	A (mm)	B (mm)	C (mm)	expansion A (mm)	expansion B (mm)	maximum weight A (N)	twisting mom. A (Nm)	maximum 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		98			99÷109				
3"-4"	74.5	100		75.5÷85.5	101÷111	110000	5000	110000	5000
3"-150		148			149÷159				
3"- 6"		150			151÷161				
4"- 5"		125			126÷136	45000	2500	45000	2500
4"- 6"	100	150		101÷111	151÷161				
150 - 300	148	298		149÷159	299÷309	110000	5000	110000	5000
150 - 12"		302			303÷313				
6"- 12"		302			303÷313				

pneumatic core chucks

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.

MODELS

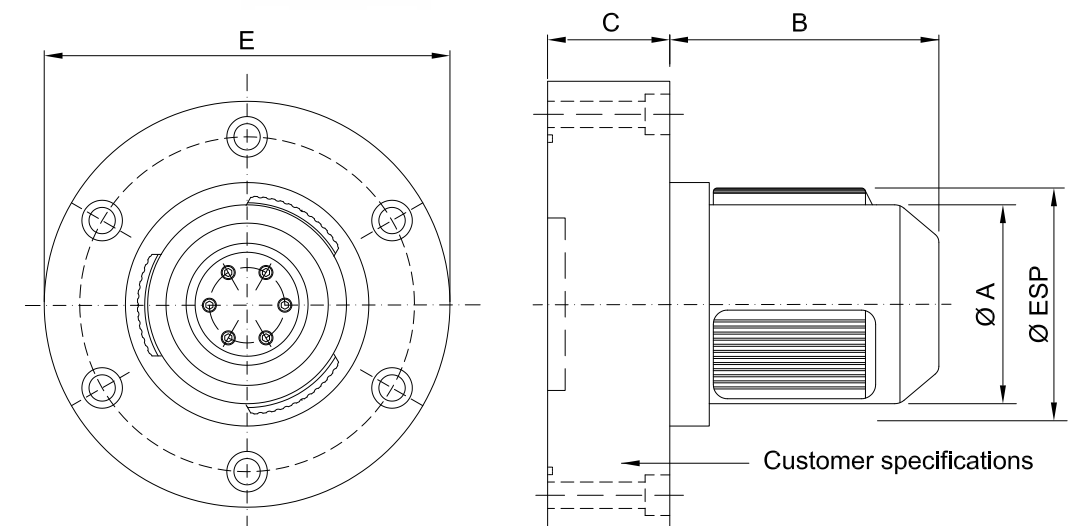
CK-PM

SINGLE DIAMETER PNEUMATIC CHUCK

Monodiametral chuck ideal for single core diameters.



SEE THE VIDEO HERE

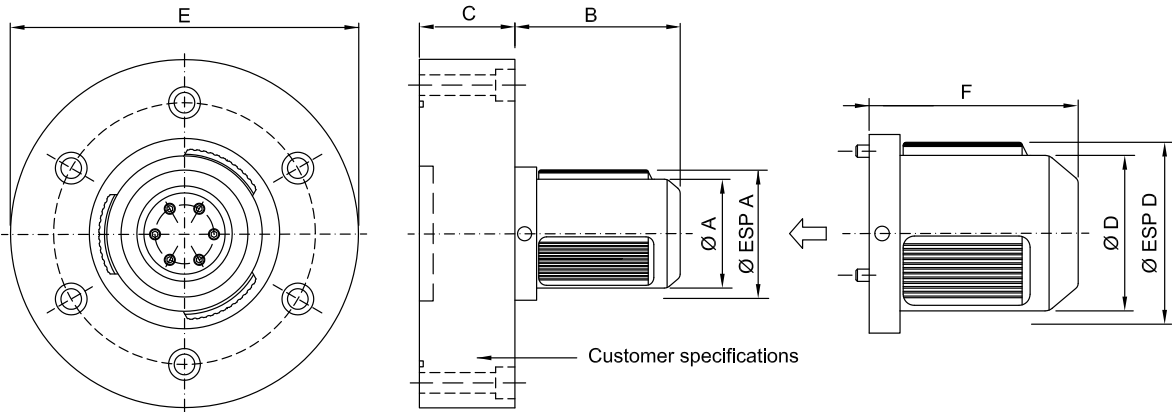


model	A (mm)	B (mm)	C (mm)	E (mm)	expansion (mm)	maximum weight (N)	twisting mom. (Nm)
70	68	147	102	197	69÷79	7000	800
3"	74				74.5÷82.5		
100	98	157	106	248	98.5÷108.5	18000	3200
4"	100				100.5÷110.5		
150	148	147	110	345	148.5÷158.5	35000	9500
6"	150				150.5÷158.5		

CK-PM/SM

MODULAR
PNEUMATIC CHUCK

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

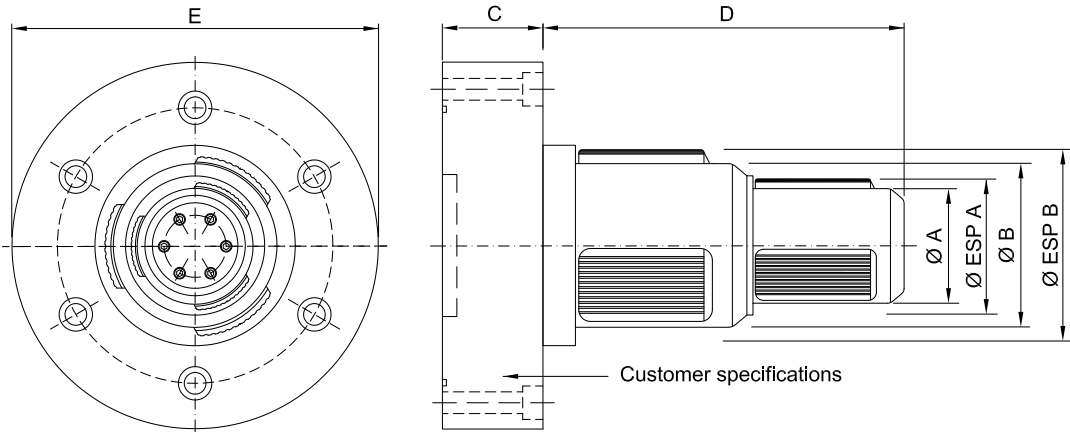


model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	expansion A (mm)	expansion D (mm)	maximum weight (N)	twisting mom. (Nm)
3"-6"	74	147	102	148	197	115	74.5÷82.5	148.5÷157.5	7000	800
4"-8"	98	157	106	198	248	125	98.5÷108.5	198.5÷207.5	18000	3200
4"-10"	98	157	106	248	248	125	98.5÷108.5	248.5÷257.5	18000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

CK-PM/DD

DOUBLE DIAMETER
PNEUMATIC 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)	maximum 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 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.

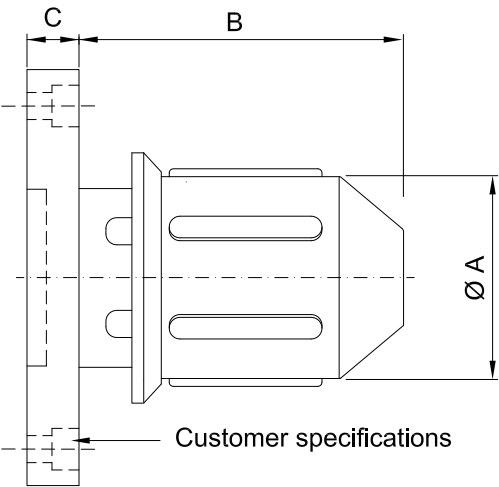
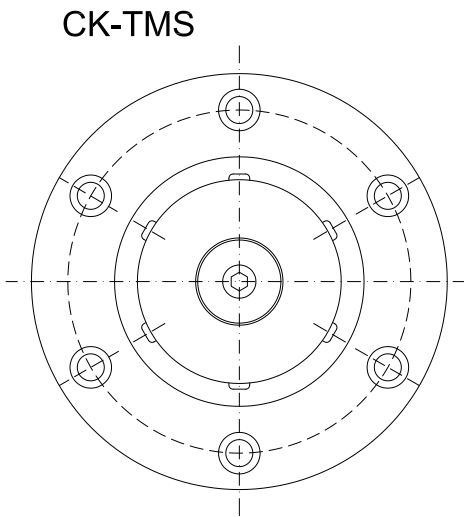
All models are 100% customizable.

MODELS

CK-TM/S

SINGLE DIAMETER
SIDE LOAD CHUCK

Monodiametral chuck ideal
for single core diameters.



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

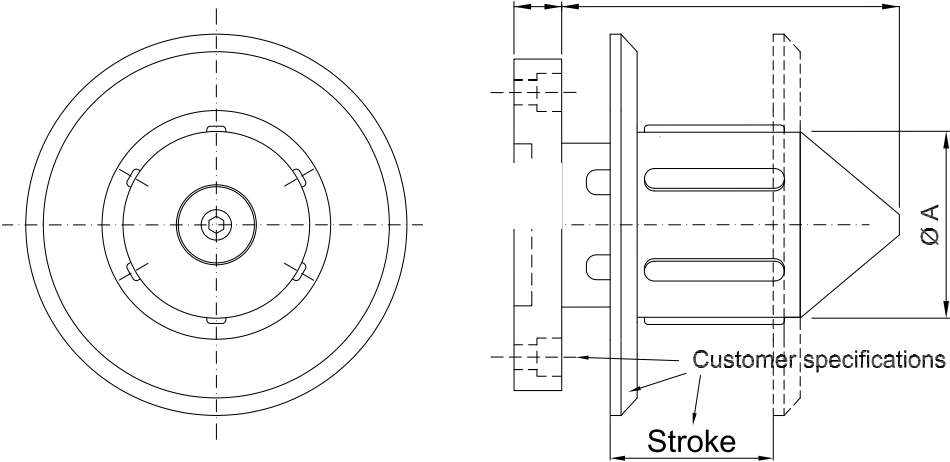
CK-TM/SF

SIDE LOAD CHUCK WITH FLANGE

Monodiametral chuck with flange for the easy core release from the roll stand.



CK-TMSF



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

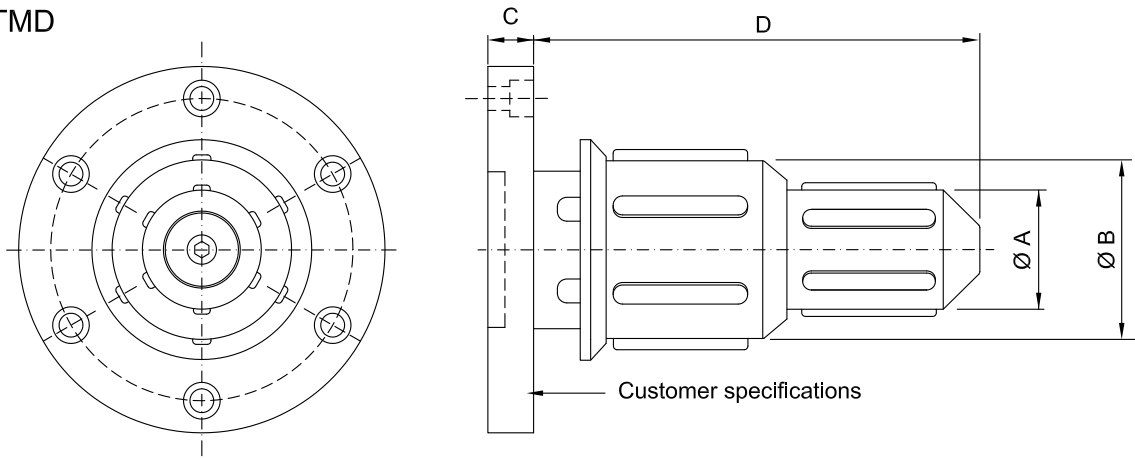
CK-TM/D

DOUBLE DIAMETER SIDE LOAD CHUCK

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



TMD



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

we are here to *support* you

Please don't hesitate to **contact** us for any information or **custom projects**.

Click the **APPLICATION icon** and send us your application requirements and we will work with you to find the solution that fits your needs.



+39 02 27007394



info@renova-srl.com



www.renova-srl.com

APPLICATION





renova srl

viale rimembranze 93
20099 sesto san giovanni
milano - Italy

 +39 0227007394
 info@renova-srl.com
 www.renova-srl.com

