mechanical chucks







mechanical chucks

Renova's mechanical core chucks are engineered to deliver the most reliable web tension with the least maintenance. With robust parts, simple movements, and best-in-industry jaw expansion, Renova chucks will out-last and out-perform in every production environment.

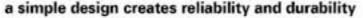
The Renova chuck is robust. Forged from a single piece, case hardened steel and nickel coated; there are no bolts or joints in the base that can fail under high loads. The tapered roller bearing in the chuck's nose will take a high thrust-load from the paper rolls. The thick jaws have thick tabs that will last as long as the chucks - there will be no more broken jaws to replace. This in not a chuck that needs replacement parts. Dust will always get in your chucks - and so will everything else you can find in a production environment: paper shavings, metal slivers, core fragments, and more. The question isn't whether or not you can keep the debris out.

Renova chucks have no rollers or pins or springs that can jam keep working for you.

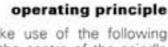
All Renova mechanical chucks make use of the following

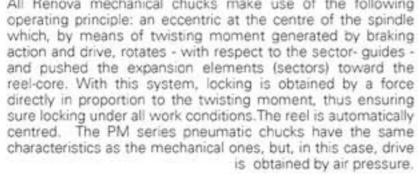
applications

Expanding core chucks are mainly used in the paper industry on printing machines, rolling machines, cutters unwinders, rewinder and re-reeler cutters.



when conditions aren't perfect. Since there are no moving parts between the expansion cam and the jaw units, these chucks will overpower andy debris that finds its way inside and



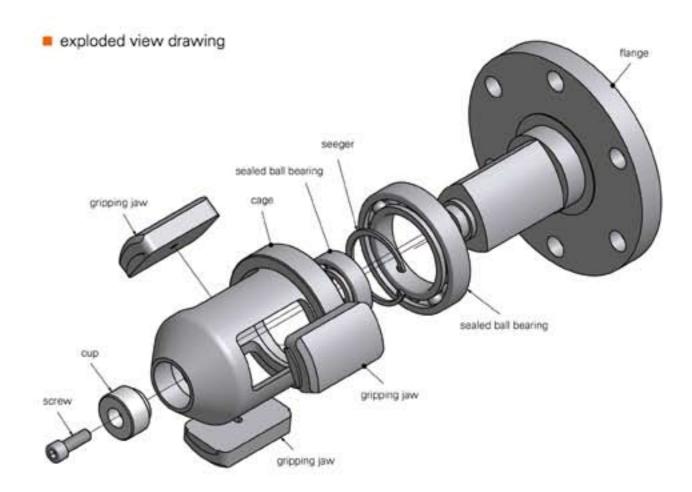




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printing

corrugated board











mechanical chucks technical data

Chuck base made out

of forged steel. Sealed bearings.

Very few parts.

High load capacity.

Jaw expansion with

very low torque. Large jaw expansion.

Case hardened steel

and nickel coated.

 Automatic locking in both rotation directions.



- High thrust load capability due to tapered roller bearing.
- Minimum number of parts (easy to clean on the machine).
 - No damaged core.

series CK-SFM

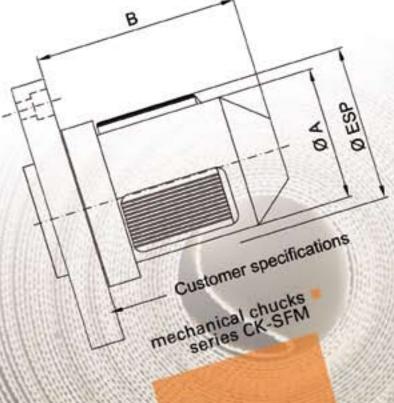
- Models are produced for any core diameter.
- Extensive range of special expanding chucks.
- Automatic core download.
- No damaged core.
- Spring-loaded core ejector.



series CK-S / SF / SFM dimensions (mm)

chuck model	A mm	B mm	expansion mm	max weight n	twisting mom. Nm	
70	68	150	69-79	18000	1150	
3"	74	150	75-85	18000	1150	
100	98	150	99-109	45000	2500	
4"	100	150	101-110	45000	2500	
120	118	150	119-129	45000	2500	
5"	125	150	126-137	45000	2500	
150	148	150	149-159	110000	5000	
6"	150	150	151-161	110000	5000	
200	198	150	199-209	110000	5000	
8"	201	150	202-212	110000	5000	
250	248	150	249-259	110000	16000	
10"	252	150	253-263	110000	16000	
300	298	150	299-309	110000	16000	
12"	302	150	303-313	110000	16000	





series CK-SF

- High roll load capacity. Hardened flange pin.
- Can be used on a roll stand brands.
- Can be cleaned on the roll stand.





series CK-SM dimensions (mm)

series CK-SM dimensions (mm)						
chuck	Α	В	expansion	twisting mom.		
model	mm	mm	mm	n	Nm	
70	69		79			
3"	75		85	18000	1150	
100	99		109			
4"	100		110			
120	119		129			
5"	127		137			
150	149		159			
6"	151	149	161			
200	199		209			
8"	202		212			
250	249		259			
10"	253		263			
300	299		309			
12"	303		313			
100	99		109	45000	2500	
4"	100		110			
120	119		129			
5"	127		137			
150	149		159			
6"	151		161			
200	199	149	209			
8"	202		212			
250	249		259			
10"	253		263			
300	299		309			
12"	303		313			
150	149		159		5000	
6"	151		161			
200	199		209			
8"	202		212			
250	249	149	259	110000		
10"	253		263			
300	299		309			
12"	303		313			

Maximum weight and maximum twisting moment refer to one chuck.

and stepped version together.

The Renova quick-change system allows you to run any core size between 3" and 16" on the same chuck cam unit. It takes only a single screw to go between any core size and lightweight housings make the larger chucks easy to handle in a production environment.



series CK-PM

- Models are produced for any core diameter.
- Extensive range of special expanding chucks.

Self-centring, along-axis or peripheral feed with pneumatic pistol, easy and quick to use, it is employed where the core must be locked in the absence of any twisting moment.

Treated in the same way as the mechanical chucks. Available from 70 mm to 12"diameters.

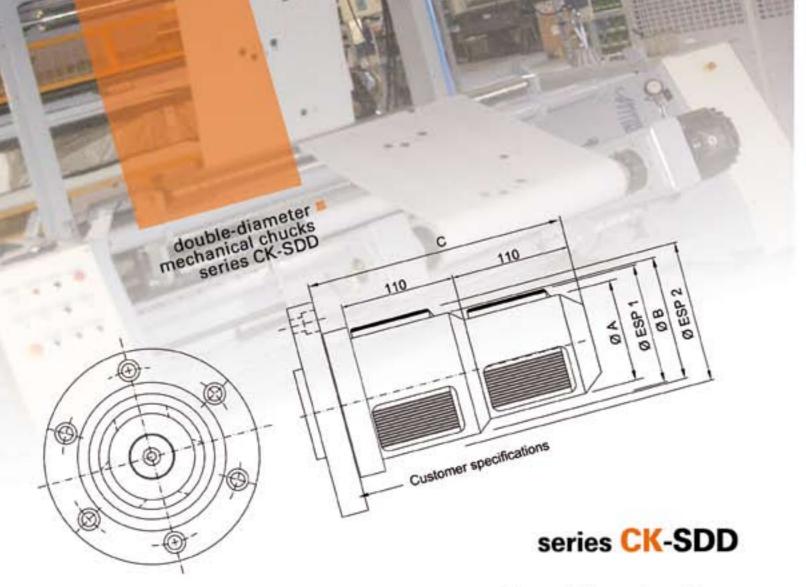
Can be customised. Locking power is in proportion to the quantity and pressure of air sent to the chuck. When air flow delivery stops, the chuck retracts automatically to its initial position.



chuck model	A mm	max expans. mm	max weight Kg	max torque Kg/MT.
70/PM	69	79	1600	115
3"/PM	75	85	1600	115
3"/PMS	85	109	4000	150
100/PM	99	129	3500	250
120/PM	119	159	3500	250
150/PM	149	161	4500	500
6"/PM	151		4500	500







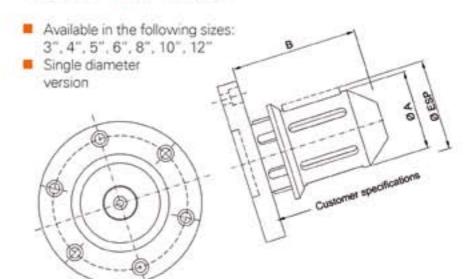
- Allows multiple core sizes without downtime for exchanging chucks.
 - Heavy duty system with
- extended expansion unit length.
 - Quick-change feature for front chuck from 3" to 12".
 - No damaged core.

series CK-SDD dimensions (mm)

Α	В	expansion	max weight	max weight	twisting mom.	twisting mom.
mm	mm	mm	n	n	NM	Nm
68	98	69-79-99-109	18000	45000	1150	2500
68	100	69-79-101-111	18000	45000	1150	2500
68	118	69-79-119-129	18000	45000	1150	2500
74	100	75-85-101-111	18000	45000	1150	2500
74	148	75-85-149-159	18000	11000	1150	5000
74	150	75-85-151-161	18000	11000	1150	5000
100	125	101-111-126-136	45000	45000	2500	2500
100	150	101-111-151-161	45000	11000	2500	5000
148	298	149-159-299-309	11000	11000	5000	5000
148	302	149-159-303-313	11000	11000	5000	5000
150	302	151-161-303-313	11000	11000	5000	5000
	68 68 68 74 74 74 100 100 148	68 98 68 100 68 118 74 100 74 148 74 150 100 125 100 150 148 298 148 302	mm mm 68 98 69-79-99-109 68 100 69-79-101-111 68 118 69-79-119-129 74 100 75-85-101-111 74 148 75-85-149-159 74 150 75-85-151-161 100 125 101-111-126-136 100 150 101-111-151-161 148 298 149-159-299-309 148 302 149-159-303-313	mm mm n 68 98 69-79-99-109 18000 68 100 69-79-101-111 18000 68 118 69-79-119-129 18000 74 100 75-85-101-111 18000 74 148 75-85-149-159 18000 74 150 75-85-151-161 18000 100 125 101-111-126-136 45000 100 150 101-111-151-161 45000 148 298 149-159-299-309 11000 148 302 149-159-303-313 11000	mm mm n n 68 98 69-79-99-109 18000 45000 68 100 69-79-101-111 18000 45000 68 118 69-79-119-129 18000 45000 74 100 75-85-101-111 18000 45000 74 148 75-85-149-159 18000 11000 74 150 75-85-151-161 18000 11000 100 125 101-111-126-136 45000 45000 100 150 101-111-151-161 45000 11000 148 298 149-159-299-309 11000 11000 148 302 149-159-303-313 11000 11000	mm mm n n Nm 68 98 69-79-99-109 18000 45000 1150 68 100 69-79-101-111 18000 45000 1150 68 118 69-79-119-129 18000 45000 1150 74 100 75-85-101-111 18000 45000 1150 74 148 75-85-149-159 18000 11000 1150 74 150 75-85-151-161 18000 11000 1150 100 125 101-111-126-136 45000 45000 2500 100 150 101-111-151-161 45000 11000 2500 148 298 149-159-299-309 11000 11000 5000 148 302 149-159-303-313 11000 11000 5000

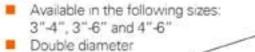
Maximum weight and maximum twisting moment refer to one chuck

series CK-TM/S

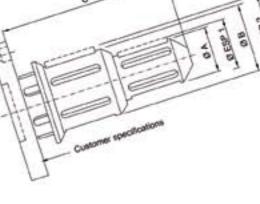




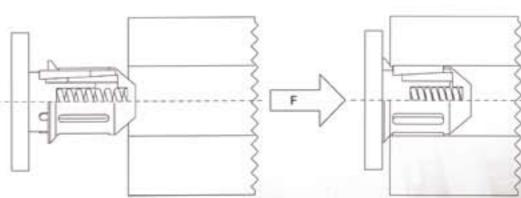
series CK-TM/D











Series TM mechanical chuck offer high quality at best prices. For clamping cardboard core. Other sizes are possible upon request. Single diameter chucks can also be supplied bored, suitable for use with photoelectric cells or with a flange for the ejection of the core. Mounting flanges are manufactured to customers requirements simplifying the replacement of old or obsolete chucks.









turborex

A multi-disc brake with double fan ventilation. This patented system reduces internal temperatures and virtually eliminates maintenance costs and brake pollution. The Turborex brake is available in TX120, TX180, and TX240 models and carries a torque range from 0-400 daNm with a power dissipation of up to 12 kW.



combirex

A mono-disc, multi-caliper, air-cooled brake. It reaches a maximum torque of 96 daNm and a power dissipation of 3kW. This CX model uses a 250mm disc and is available with up to 6 calipers.



powderex

Magnetic powder brakes with a torque range from 1-12 daNm. Radiator cooling or axial fan cooling.

isomatic

Control Panel.

Completely manage the process by configuring necessary functions on the display. Additional functions can be customized on your request. Advanced regulation capabilities.



sensorex

Load cells used to detect the web tension of a product. Available in different models, flange load cells and flange load cells with clearance hole, with loads from 5 to 600 daN.



e/p converter

Electropneumatic converter that converts an electrical signal into compressed air with a pressure directly proportional to the signal provided. It ensures accuracy in tension with power supply of 24 VDC and signal from 0 to 10 V.



reset

Digital measuring amplifier for strain gauge bridge, equipped with a 24-bit acquisition circuit with programmable gain, of 3 analog outputs to a control unit and a digital input for a reset of the outputs from remote.



roll pusher

Pneumatic roll pusher that effortlessly moves rolls up to 6000 kg of weight.



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