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Rolflex TONIC®

Surgical Technique

Inlay patellar button

Evolutis GROUP

This surgical technique manual describes the use of the instruments dedicated to the Rolflex TONIC® total knee prosthesis.
The indications of the manual cannot substitute the skills of the operator who remains solely responsible for the choice of the indication and of the surgical techniques.
This surgical technique document proposes information on certain techniques when they are known and usually described in the scientific literature.

Table of contents

Size selection *(diameter)* of the patellar implant

The Rolflex TONIC® patellar buttons are of "INLAY" type.
The sizes are 23, 25 or 28mm.

Select the best adapted size *(diameter)* by positioning one of the 3 Trial buttons *(G34 P023 à G34 P028)* directly on the everted native patella (1) (2) (3).

The Trial button should be positioned at the center of the native patella in the proximal/distal plane, and slightly medial in the M/L plane.
Take care to preserve at least 5mm of bone surrounding the Trial button and the outer edge of the native patella.

Once the size of Trial button has been selected, select the instruments of the same color code as the selected Trial button.

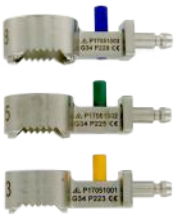
Assembly of the Patellar clamp

Patellar clamp (G34 P001)

Select the Reamer guide *(G34 P223, G34 P225 or G34 P228)* corresponding to the diameter and to the color of the selected Trial patella.

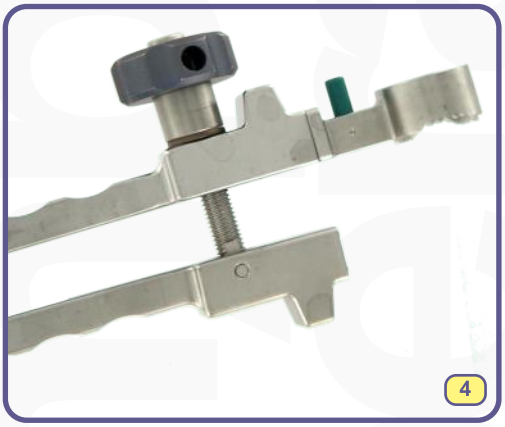
Click the Reamer guide on the Patellar clamp in the branch next to the blue knob. (4)

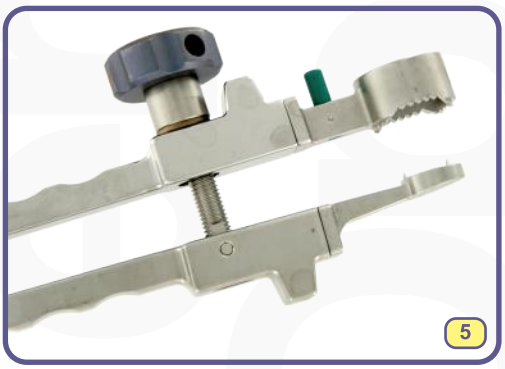
Click the Anterior plate for patella *(G34 P003)* on the Patellar clamp *(G34 P001)*. (5)
The Anterior plate for patella is best positioned in the branch of the Patellar clamp opposite to the blue knob.



Reamer guide Ø23 to 28 (G34 P223, G43 P225, or G34 P228)

Anterior plate for patella (G34 P003)

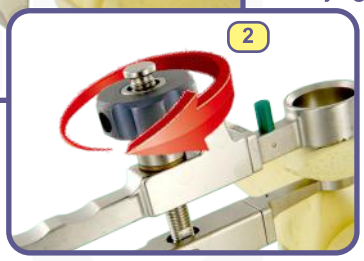




Adjustment of reaming depth and reaming

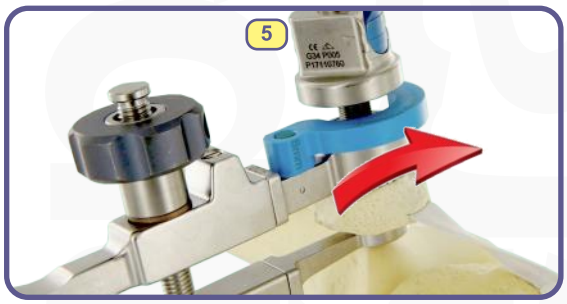
Position the Patellar clamp on the everted native patella.(1)
Centre the Reaming guide in the proximal/distal plane, and slightly medial, whilst taking care to stay parallel to the ligamentous planes of the patella.

Firmly tighten the Patellar clamp with the blue knob.(2)



Adjustable-stop for reamer (G34 P005)

Reamers Ø23, Ø25, and Ø28 (G34 P123, G34 P125, G34 P128)



Introduce the Adjustable-stop for reamer *(G34 P005)* on the axis of the Reamer of diameter corresponding to the selected Trial button *(G34 P123, G34 P125 or G34 P128)*, then introduce the Reamer in the Reamer guide.(3)

Make sure that the sharp tip of the Reamer is pressed in contact with the posterior surface of the native patella.

Place the Depth-stop on the coloured bit of the Reamer-guide.(4)
Then rotate the Depth-stop in contact with the cylindric portion of the Reamer, and with the upper edge of the Reamer guide.(5)

Adjustment of the reaming depth: press the blue trigger on the Adjustable-stop and bring the Adjustable-stop down in contact with the Depth-stop.(6)

Disengage and remove the Depth-stop.

Assemble a power tool to the Reamer and begin reaming down to the abutment of the Reamer with the Reaming guide.(7)

Should you increase the depth of reaming, use the miilimetric scale to reposition the Adjustable-stop per step of 1mm.(8)

Implantation of the Trial button, trial, and final implantation

Position the Trial button on the patella. (1)

Reduce the patella on the femoral and tibial implants already in place.
Make flexion and extension tests to validate the stability of the tracking.

The patellar implant is only available for cemented use.

Prepare a dose of bone cement.
Clean and thoroughly dry the patellar bone.

Remove the Reaming guide from the Patellar clamp, and replace it with the Posterior plate for patella *(G34 P004)*. (2)

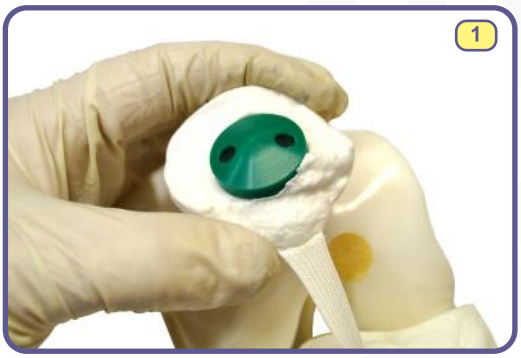
Posterior plate for patella (G34 P004)

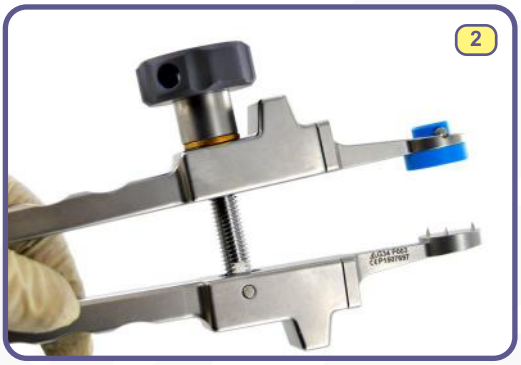
Place cement directly on the patellar implant.

Position manually the patellar implant on the native patella, then introduce the Patellar clamp (3) and firmly tighten the clamp with the blue knob.
Remove the excess of cement.

Wait until complete hardening of the bone cement.

Un-tighten and remove the Patellar clamp.
If required prune the native patella so as to recreate an homogenous dome shape. (4)

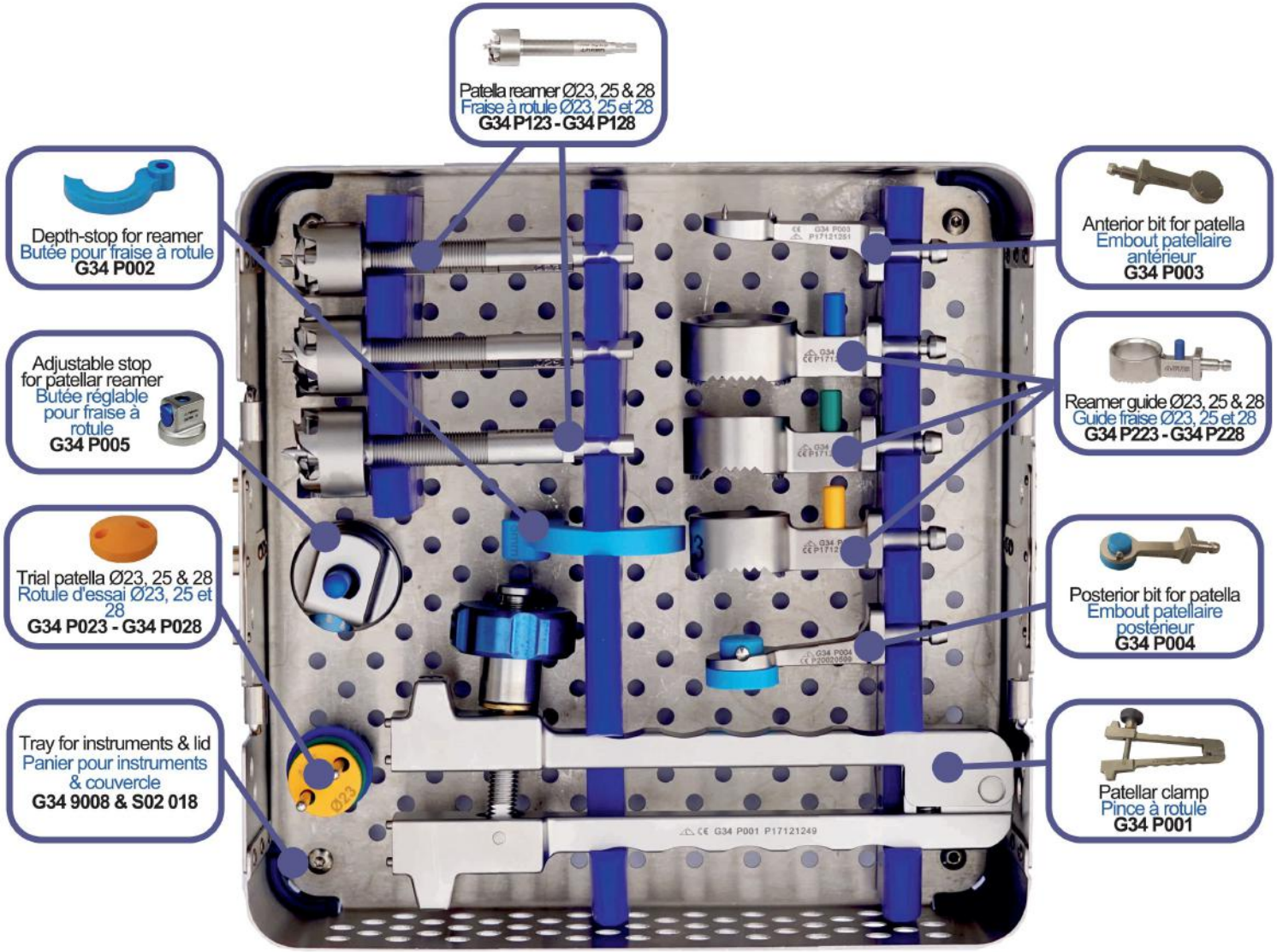




Notes

Instrumentation SNAPSHOT

Ref : G34 9108
ROLFLEX TONIC prép. patellaire/ patellar prep.



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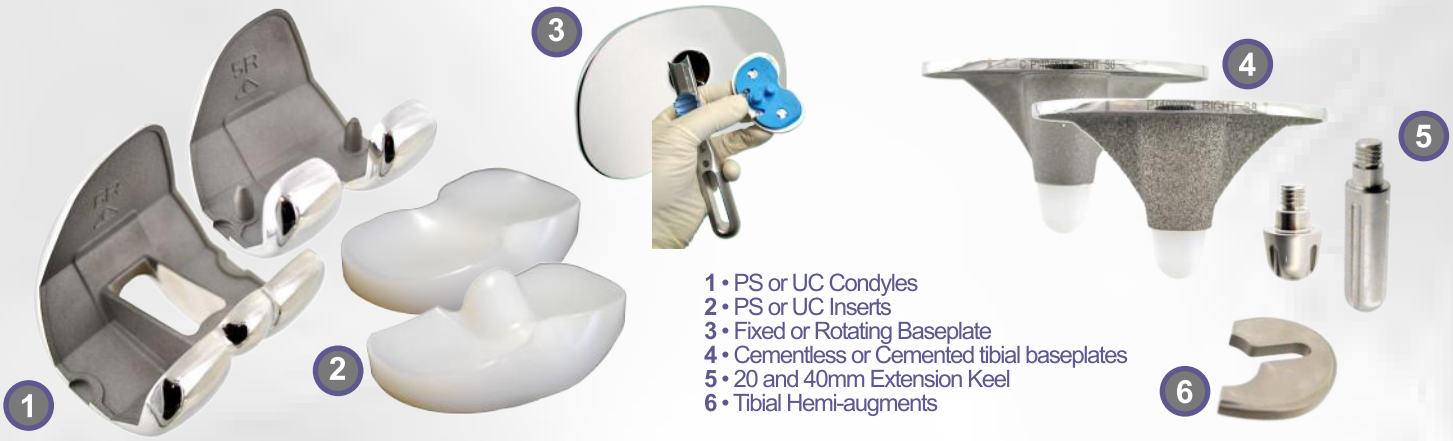
REFERENCES



1 • PS or UC Condyles
2 • PS or UC Inserts
3 • Fixed or Rotating Baseplate
4 • Cementless or Cemented tibial baseplates
5 • 20 and 40mm Extension Keel
6 • Tibial Hemi-augments

Condyles / Condyles

	PS / *Postéro-Stabilisés*				UC / *Ultra-congruents*			
	Cemented / *A cimenter*		Cementless / *Sans ciment*		Cemented / *A cimenter*		Cementless / *Sans ciment*	
	R / *D*	L / *G*	R / *D*	L / *G*	R / *D*	L / *G*	R / *D*	L / *G*
Sz./T 1	G33 FPCD01 (1)	G33 FPCG01 (1)	G33 FPRD01 (1)	G33 FPRG01 (1)	G33 FUCD01 (1)	G33 FUCG01 (1)	G33 FURD01 (1)	G33 FURG01 (1)
Sz./T 2	G33 FPCD02	G33 FPCG02	G33 FPRD02	G33 FPRG02	G33 FUCD02	G33 FUCG02	G33 FURD02	G33 FURG02
Sz./T 3	G33 FPCD03	G33 FPCG03	G33 FPRD03	G33 FPRG03	G33 FUCD03	G33 FUCG03	G33 FURD03	G33 FURG03
Sz./T 4	G33 FPCD04	G33 FPCG04	G33 FPRD04	G33 FPRG04	G33 FUCD04	G33 FUCG04	G33 FURD04	G33 FURG04
Sz./T 5	G33 FPCD05	G33 FPCG05	G33 FPRD05	G33 FPRG05	G33 FUCD05	G33 FUCG05	G33 FURD05	G33 FURG05
Sz./T 6	G33 FPCD06	G33 FPCG06	G33 FPRD06	G33 FPRG06	G33 FUCD06	G33 FUCG06	G33 FURD06	G33 FURG06
Sz./T 7	G33 FPCD07	G33 FPCG07	G33 FPRD07	G33 FPRG07	G33 FUCD07	G33 FUCG07	G33 FURD07	G33 FURG07
Sz./T 8	G33 FPCD08	G33 FPCG08	G33 FPRD08	G33 FPRG08	G33 FUCD08	G33 FUCG08	G33 FURD08	G33 FURG08
Sz./T 9	G33 FPCD09 (1)	G33 FPCG09 (1)	G33 FPRD09 (1)	G33 FPRG09 (1)	G33 FUCD09 (1)	G33 FUCG09 (1)	G33 FURD09 (1)	G33 FURG09 (1)

Patella Rotule

Ø23	G33 ROT023
Ø25	G33 ROT025
Ø28	G33 ROT028

(1) Sizes of implants available only on request, not included in the standard set.
Taille d'implants disponibles uniquement sur demande, non inclus dans la gamme livrée en standard.

Tibial Baseplate / Embase tibiale

	Fixed / *Fixe*				Rotating / *Rotatoire*			
	Cemented / *A cimenter*		Cementless / *Sans ciment*		Cemented / *A cimenter*		Cementless / *Sans ciment*	
	R / *D*	L / *G*	R / *D*	L / *G*	R / *D*	L / *G*	R / *D*	L / *G*
Sz./T 0	G33 TFCD00 (1)	G33 TFCG00 (1)	G33 TFRD00 (1)	G33 TFRG00 (1)	G33 TMCD00 (1)	G33 TMCG00 (1)	G33 TMRD00 (1)	G33 TMRG00 (1)
Sz./T 1	G33 TFCD01 (1)	G33 TFCG01 (1)	G33 TFRD01 (1)	G33 TFRG01 (1)	G33 TMCD01 (1)	G33 TMCG01 (1)	G33 TMRD01 (1)	G33 TMRG01 (1)
Sz./T 2	G33 TFCD02	G33 TFCG02	G33 TFRD02	G33 TFRG02	G33 TMCD02	G33 TMCG02	G33 TMRD02	G33 TMRG02
Sz./T 3	G33 TFCD03	G33 TFCG03	G33 TFRD03	G33 TFRG03	G33 TMCD03	G33 TMCG03	G33 TMRD03	G33 TMRG03
Sz./T 4	G33 TFCD04	G33 TFCG04	G33 TFRD04	G33 TFRG04	G33 TMCD04	G33 TMCG04	G33 TMRD04	G33 TMRG04
Sz./T 5	G33 TFCD05	G33 TFCG05	G33 TFRD05	G33 TFRG05	G33 TMCD05	G33 TMCG05	G33 TMRD05	G33 TMRG05
Sz./T 6	G33 TFCD06	G33 TFCG06	G33 TFRD06	G33 TFRG06	G33 TMCD06	G33 TMCG06	G33 TMRD06	G33 TMRG06
Sz./T 7	G33 TFCD07	G33 TFCG07	G33 TFRD07	G33 TFRG07	G33 TMCD07	G33 TMCG07	G33 TMRD07	G33 TMRG07
Sz./T 8	G33 TFCD08 (1)	G33 TFCG08 (1)	G33 TFRD08 (1)	G33 TFRG08 (1)	G33 TMCD08 (1)	G33 TMCG08 (1)	G33 TMRD08 (1)	G33 TMRG08 (1)

Tibial Keel Quille Tibiale

Ø13	l.20mm	G33 QT1320
Ø13	l.40mm	G33 QT1340
Ø13	l.70mm	G33 QT1370
Ø13	l.110mm	G33 QT13110
Ø15	l.20mm	G33 QT1520
Ø17	l.20mm	G33 QT1720

Tibial insert / Plateau tibial

	Fixed / *Fixe*				Rotating / *Rotatoire*						
	PS / *Postéro-stabilisé*				PS / *Postéro-stabilisé*				UC / *Ultra-congruent*		
	h.10mm	h.12mm	h.15mm	h.18mm	h.10mm	h.12mm	h.15mm	h.18mm	h.10mm	h.12mm	h.15mm
Sz./T 0	G33 IFP010 (1)	G33 IFP012 (1)	G33 IFP015 (1)	-	-	-	-	-	-	-	-
Sz./T 1	G33 IFP110 (1)	G33 IFP112 (1)	G33 IFP115 (1)	G33 IFP118 (1)	G33 IMP110 (1)	G33 IMP112 (1)	G33 IMP115 (1)	G33 IMP118	G33 IMU110 (1)	G33 IMU112 (1)	G33 IMU115 (1)
Sz./T 2	G33 IFP210	G33 IFP212	G33 IFP215	G33 IFP218 (1)	G33 IMP210	G33 IMP212	G33 IMP215	G33 IMP218 (1)	G33 IMU210	G33 IMU212	G33 IMU215
Sz./T 3	G33 IFP310	G33 IFP312	G33 IFP315	G33 IFP318 (1)	G33 IMP310	G33 IMP312	G33 IMP315	G33 IMP318 (1)	G33 IMU310	G33 IMU312	G33 IMU315
Sz./T 4	G33 IFP410	G33 IFP412	G33 IFP415	G33 IFP418 (1)	G33 IMP410	G33 IMP412	G33 IMP415	G33 IMP418 (1)	G33 IMU410	G33 IMU412	G33 IMU415
Sz./T 5	G33 IFP510	G33 IFP512	G33 IFP515	G33 IFP518 (1)	G33 IMP510	G33 IMP512	G33 IMP515	G33 IMP518 (1)	G33 IMU510	G33 IMU512	G33 IMU515
Sz./T 6	G33 IFP610	G33 IFP612	G33 IFP615	G33 IFP618 (1)	G33 IMP610	G33 IMP612	G33 IMP615	G33 IMP618 (1)	G33 IMU610	G33 IMU612	G33 IMU615
Sz./T 7	G33 IFP710	G33 IFP712	G33 IFP715	G33 IFP718 (1)	G33 IMP710	G33 IMP712	G33 IMP715	G33 IMP718 (1)	G33 IMU710	G33 IMU712	G33 IMU715
Sz./T 8	G33 IFP810 (1)	G33 IFP812 (1)	G33 IFP815 (1)	G33 IFP818 (1)	G33 IMP810	G33 IMP812	G33 IMP815	G33 IMP818 (1)	G33 IMU810	G33 IMU812	G33 IMU815
Sz./T 9	-	-	-	-	G33 IMP910	G33 IMP912	G33 IMP915	G33 IMP918 (1)	G33 IMU910	G33 IMU912	G33 IMU915

Augment / Cale

	Tibial / *Tibiale*	
	h.5mm	h.10mm
Sz./T. 0	G33 CT0500 (1)	G33 CT1000 (1)
Sz./T. 1	G33 CT0501 (1)	G33 CT1001 (1)
Sz./T. 2	G33 CT0502 (1)	G33 CT1002 (1)
Sz./T. 3	G33 CT0503 (1)	G33 CT1003 (1)
Sz./T. 4	G33 CT0504 (1)	G33 CT1004 (1)
Sz./T. 5	G33 CT0505 (1)	G33 CT1005 (1)
Sz./T. 6	G33 CT0506 (1)	G33 CT1006 (1)
Sz./T. 7	G33 CT0507 (1)	G33 CT1007 (1)
Sz./T. 8	G33 CT0508 (1)	G33 CT1008 (1)

Materials:
Condyles : CrCo according ISO5832-4 (cemented) or CoCr according ISO5832-4 coated with macroporous Ti (cementless)
Tibial baseplate : CoCr according ISO5832-4 (cemented) and UHMWPE according ISO 5834-1 and 2 or CoCr according ISO5832-4 coated with macroporous Ti (cementless) and UHMWPE according ISO 5834-1 and 2
Tibial insert and patella : UHMWPE PEXEL® according ISO 5834-1 and 2, and Stainless Steel according ISO 5832-1
Tibial keel : CoCr according ISO5832-12, Augment : CoCr according ISO5832-4
VacUPac® vacuum packaging. Gamma sterilized.

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