



Hérisson+® adjustment splices

The Hérisson+® adjustment splices are specifically designed to **compensate** for both:

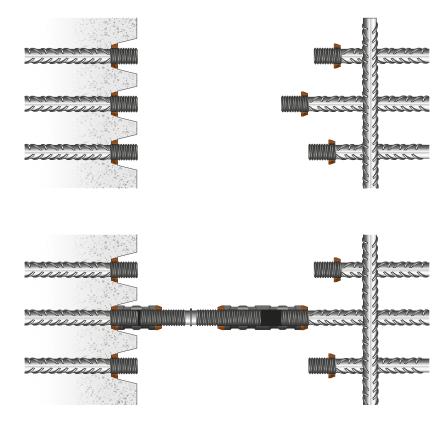
- The variable distances between ends of rebars to be assembled,
- The **mismatch between the threads** of the same bars.

They allow thus to ensure the mechanical continuity of preassembled rebar frames, even if they are already concreted.





In the example below, the position of the reinforcement cage (left side) can be adjusted relative to the concreted element to allow assembly of a first pair of bars.



But as soon as the first couple of bars is mechanically assembled, the distances between the other pairs are blocked. The couplers will therefore have to ensure an adjustment function in order to allow connection of all the bars of both rebar cages.

To achieve this, the Hérisson+® Adjustment splices include the following parts:



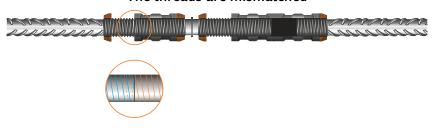




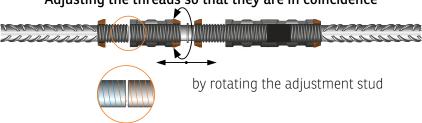
Thanks to this unique design, Hérisson+® Adjustment splices

- can compensate for variations of distance between bar ends up to: Ø 20: 48 mm, Ø 25: 63 mm, Ø 32: 72 mm, Ø 40: 91 mm
- and ensure the possibility of assembling by screwing all the bars, even when their threads are initially mismatched:

The threads are mismatched



Adjusting the threads so that they are in coincidence



And connection of the coupler



NOTE:

With the adjustment possibilities it offers, the Hérisson+® adjustment splice is also advantageously used when the rebars have to be positioned very accurately, even when they are not preassembled in cages.







adjustment splices: progress







The adjustment range

Maximum safety

Providing rebar couplers that offer maximum safety requires specific choices with respect to design and manufacturing of every single component of our constructive system.

Coupler fabrication

Hérisson® couplers are the only couplers fabricated by **forging**, a technique that maintains the steel fibres, which ensure improved coupler resistance in the event of severe stress.

Tests

Rebar fracture Tenth of mm (NF A 35-020) Impact Earthquake (ISO 15835) Fatique







Rebar threading

Threading is performed after having increased the diameter of the rebar's edge by upsetting.

Threading by **rolling** maintains the steel fibres, which ensure the mechanical splice has excellent resistance. Rebar resistance and ductility are therefore not affected by the threading operation.

- specific geometry design
- specific patented machinery
- strict inspections
- specialised workshops





Cold upsetting



Sizing



Thread rolling



Rolled thread fibre maintained

Machined thread fibre broken

Quality assurance

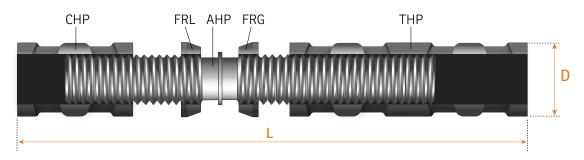
A fabrication process under continuous monitoring compounded by simple and reliable assembly procedures ensure the high quality and safety of our rebar couplers, from fabrication to installation.

Our Quality System is ISO 9001-certified.



The adjustment range

Hérisson+® adjustment splices



Hérisson+® adjustment splice specifications

		Ø20	Ø25	Ø32	Ø40
D=overall diam	eter couplers and locknuts (mm)	33.70	42.30	51.00	63.40
Adjustment	Ref.	THP20	THP25	THP32	THP40
coupler	Length (mm)	107.90	135.70	157.50	196.50
Coupler	Ref.	CHP20	CHP25	CHP32	CHP40
	Length (mm)	52.85	65.65	77.50	96.50
Locknut	Ref.	FRL20	FRL25	FRL32	FRL40
		FRG20	FRG25	FRG32	FRG40
	Length (mm)	14.00	17.50	21.00	26.50
Adjustment	Ref.	AHP20	AHP25	AHP32	AHP40
stud	Length (mm)	182.70	223.60	258.30	317.60
L (mm)	MAXI	292.00	361.50	418.00	516.00
	mini	213.00	260.50	301.50	370.50
Colour code					



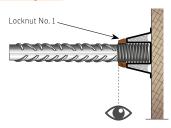




Assembly

Installation

Step 1: 1st phase installation

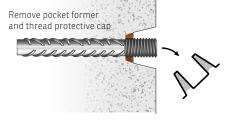


Inspection

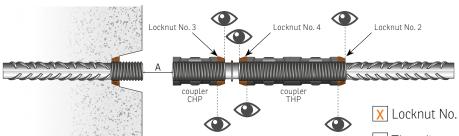
- X Locknut No. 1 is tightly screwed on the rebar.
- Thread protective cap and notch former are positioned correctly.

1st phase concreting

Step 2: remove notch former and rebar cap



Step 3: 2nd phase installation



	A mini (mm)	A MAXI (mm)		
Ø20	3	48		
Ø25	3	63		
Ø32	3	72		
Ø40	4	91		

- X Locknut No. 2 is tightly screwed on the rebar.
- The adjustment coupler THP is completely screwed against locknut No. 2.
- Locknut No. 3 is completely screwed at the end of the stud's thread.
- The coupler CHP is completely screwed against locknut No. 3.
- Locknut No. 4 is completely screwed at the end of the stud's thread.
- The adjustment coupler THP is completely screwed against locknut No. 4.



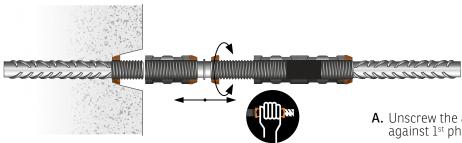


Assembly cont.

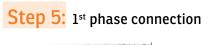
Installation

Inspection

Step 4: attempts to engage the threads on 1st phase side



- **A.** Unscrew the adjustment stud until contact against 1^{st} phase rebar.
- **B.** Attempt to screw the CHP coupler onto the rebar.
- **C.** If screwing is not possible, screw back the adjustment stud AHP inside the adjustment coupler THP, rotating just a few degrees, while preventing the coupler CHP from rotating.
- **D.** Attempt again to screw the CHP coupler onto the rebar.
- **E.** Renew stages C and D as many times as required to achieve screwing the coupler CHP onto the rebar.











Assembly cont.

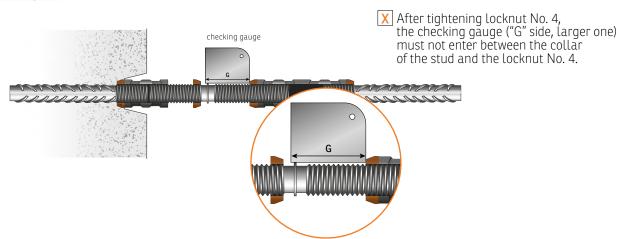
Installation

Inspection

Step 6: lock the 2nd phase side

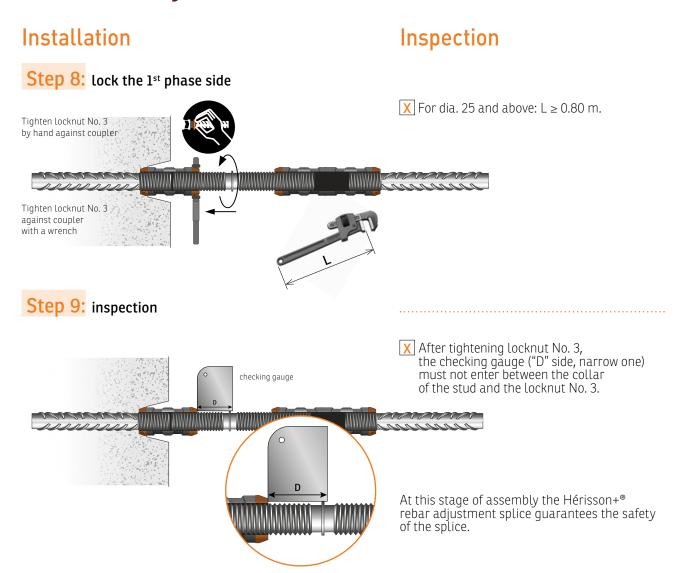


Step 7: inspection





Assembly cont.





Also take advantage of



Firsty[®]



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Hérisson+®





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TELEPHONE: +33 (0)4 90 44 36 10 FAX: +33 (0)4 90 44 36 11

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