

# SERBOIS

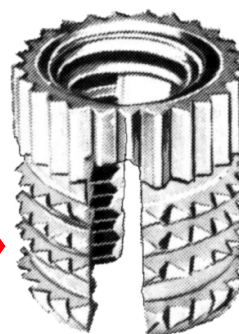
## A process for fastening in wood

PRODUCT TESTED BY THE CTBA

### AN ECONOMIC SOLUTION FOR A HIGHLY RESISTANT THREAD

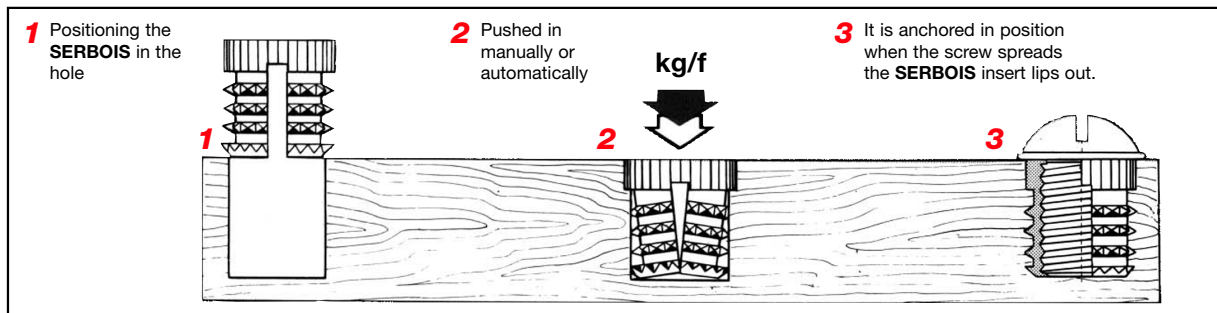
Our **SERBOIS** insert type TRB absorbs stress and evenly spreads loads ensuring a solid and permanent mounting. The shape and configuration of teeth formation avoids any translation or rotation, even when a very high tightening torque is applied. The **SERBOIS** insert fits in a hole drilled into all types of wood and agglomerates.

The tapered and sharp feeth formation ensure a firm lodging in the support.



### MOUNTING

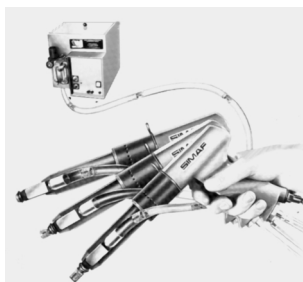
By simple manual pressure, the **SERBOIS** fits into the hole made for it, no special tooling is required. For large series, we recommend using the ROBOT 2000 described below, as it has a very rapid mounting capacity.



### MOUNTING TOOLS

#### AUTOMATIC MOUNTING ROBOT 2000

This fully automatic machine is for mounting **SERBOIS** TRB in large series.



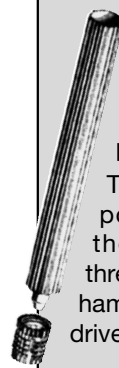
It consists of:

- an easily wielded mounting pistol with a double action trigger to instantly handle, position and anchor the insert;
- a vibratory bowl and pneumatic selector that feeds the inserts to the end of the pistol.

Range of action : 3 meters.

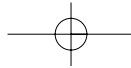
Mounting rate : 800 to 1000 per hour.

#### MANUAL MOUNTING TOOLS

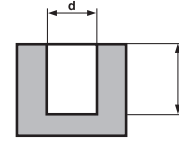
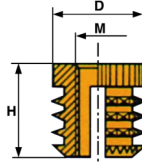


They allow better centering of the **SERBOIS**, but are more generally used for mounting small series. The **SERBOIS** is placed in its hole.

The tool centering dog point is then inserted in the **SERBOIS** INSERT threading. A slight tap of a hammer on the tool handle, drives the insert home.



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Standard model		Article reference <b>SERBOIS TRB</b>	D	Hole dimensions	
ISO Thread	H Height			d	P
M4	8	41/TRB 040 H 080	6	5	9
M5	8	41/TRB 050 H 080	7	6	9
M6	9,5	41/TRB 060 H 095	9	8	11
M8	10	41/TRB 080 H 100	10	9	11
M10	13	41/TRB 100 H 130	12	11	14

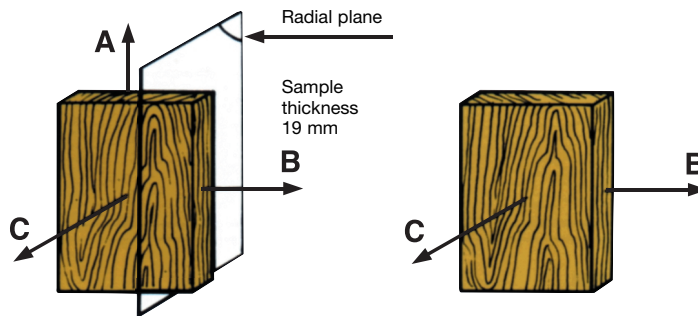
Dimensions indicated in this table are not limited. If you require, we can manufacture **SERBOIS** to your dimensions.

**NB** The tightening torque depends on adjustment of the insert in the hole d. The threaded length of the screw inserted in the **SERBOIS** must be equal to insert height to ensure a firm seat. As woods react differently, we can realise screwing and tensile tests to find just the right diameter for the **SERBOIS** insert hole. Tests can be performed free of charge in our laboratories.

## TECHNICAL PROPERTIES

### TRACTION TEST ON THE INSERT

All values given below are the results of tests performed in CTBA (Centre Technique du Bois et de l'Ameublement).  
Report 87/48/02.



Sample type	Max load (daN) along A		Max load (daN) along B		Max load (daN) along C	
	Average	Standard deviation	Average	Standard deviation	Average	Standard deviation
PPS	-	-	102	(a) 8,8	143,2	(a) and (b) 16,2
MDF	-	-	76,5	(a) 8,8	127,8	(a) 8,5
C	163,6	(a) 34,3	211,2	(a) and (b) 13,1	221,7	(a) 16,5
H	156,0	(a) 8,0	241,2	(a) 5,9	233,1	(a) 8,3
S	98,0	(a) 15,2	108,4	(a) and (b) 27,9	98,7	(a) and (b) 3,8

PPS: Particule board with density of 666  
MDF: Medium density fiber board density 690  
C: Oak  
H: Beech  
S: Pine



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