

BLIND RIVET NUTS

Designation: **BLIND RIVET NUTS**Codes: **TRCA, TRCR Y TRAV**Reference: **FT TR-en**Date: **22/09/15**

Revision: 3

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TRCA
Wide head

TRCR
Reduced head

TRAV
Countersunk head

CHARACTERISTICS

- Mechanical characteristics and quick installation offer great advantages in economic terms and reduced assembly time.
- Quick installation: 2 – 4 seconds.
- Blind rivet nuts: Installation is carried out on only one side of the assembly, ideal for pipe work and joins or unions with zones without internal access.
- Available in a wide range of diameters and sizes.
- The knurled body improves the resistance to rotation in soft materials such as aluminum and galvanic continuity improvement in metal sheets.

APPLICATIONS

- Alternative to traditional assembly methods such as screws, bolts, washers, etc.
- May be installed in threaded materials.
- May be installed in plastic and metallic materials.

See web data sheet:



MATERIALS

ITEM	COMPONENT	MATERIAL
1	TRCA, TRCR, TRAV	Steel C4C UNE-EN 10263-2 (1.0303), zinc plated $\geq 5 \mu\text{m}$

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BASE MATERIAL



Carpintería aluminio

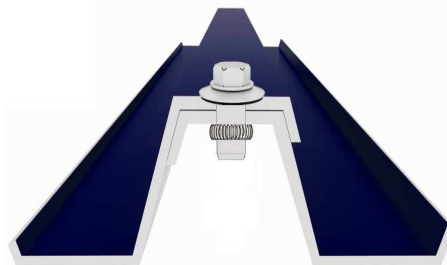


Plate assembly



Profile plate metal

APPLICATION EXAMPLES



INSTALLATION PROCEDURE

1. Select the suitable rivet nut based on load to be applied, the sizes of the bolt to be installed, base material thickness and the type of application.
2. Drill the diameter specified in the table (observe tolerance).
3. Install the rivet nut.
4. Place the material to be fixed.
5. Insert the shank of the riveting tool in the nut. (Fig. 1)
6. Smoothly screw in until the riveting tool reaches the end. (Fig. 2).
7. Firmly screw in without exceeding the indicated torque in the table in section 6 (Fig. 3).
8. Unscrew the tool shaft and the nut will be installed (Fig. 4).

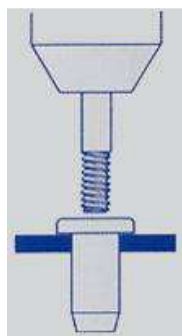


Fig. 1

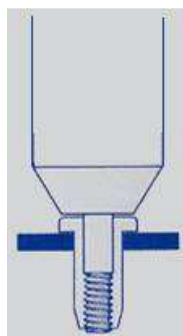


Fig. 2

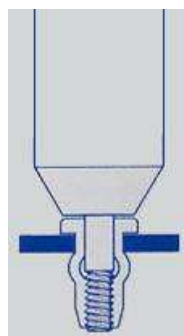


Fig. 3

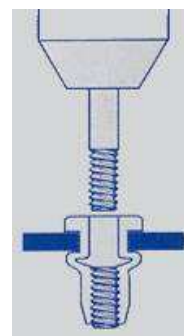


Fig. 4

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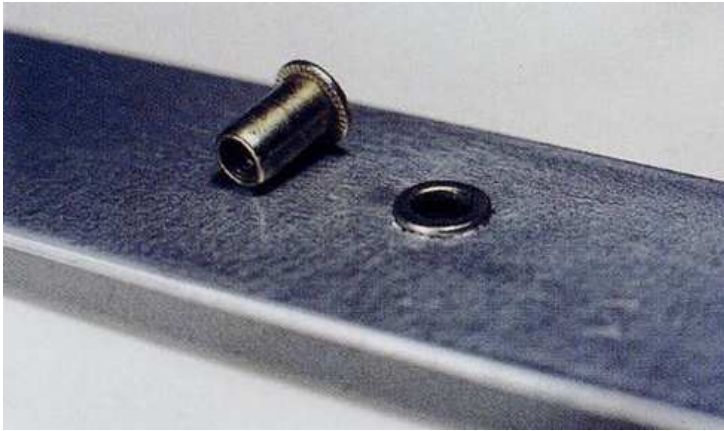
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RIVETING GUNS



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1. TRCA

RIVET NUT WIDE HEAD



Properties



Steel



Coating: zinc plated $\geq 5 \mu\text{m}$

Main applications



Carpintería aluminio
Aluminum
woodwork

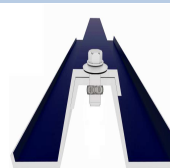


Plate assembly



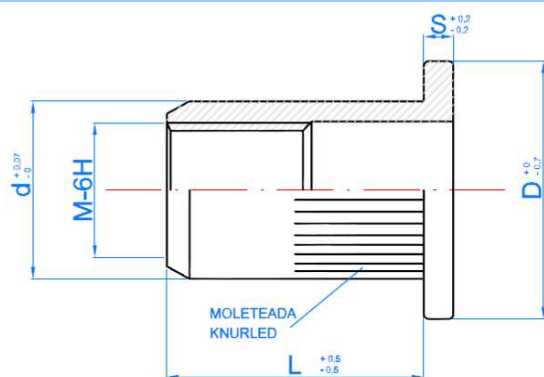
Profile plate metal

1.1. Characteristics and advantages

- Provides a big bearing area under the head to distribute efforts.
- Extremely versatile.
- Reinforces the hole and prevents thrust fault.
- Head can be used as a spacer.
- Possibility of using seal.
- To be used in metallic sheets or soft materials in high strength.

1.2. Information

CODE	Metric	L Length [mm]	D $\varnothing$ head [mm]	d $\varnothing$ body [mm]	S Lip thickness [mm]	Fixing thickness [mm]	$\varnothing$ Pilot hole [mm]
TRCA0310	M3	10	7	4.9	1.0	0.5 ÷ 3.0	5
TRCA0410	M4	10	9	5.9	1.1	0.3 ÷ 3.0	6
TRCA0411		11.5				3.1 ÷ 4.0	
TRCA0512	M5	12	10	6.9	1.1	0.3 ÷ 3.0	7
TRCA0515		15				3.1 ÷ 4.0	
TRCA0614	M6	14.5	12	8.9	1.6	0.5 ÷ 3.0	9
TRCA0616		16				3.1 ÷ 4.1	
TRCA0816	M8	16	15	10.9	1.6	0.5 ÷ 3.0	11
TRCA0818		18.5				3.1 ÷ 5.5	
TRCA1017	M10	17	19	12.9	2.1	0.5 ÷ 3.0	13
TRCA1022		22				3.1 ÷ 6.0	
TRCA1223	M12	23	23	15.9	2.1	1.0 ÷ 4.0	16



MECHANICAL PROPERTIES RECOMMENDED LOAD

Metric [-]	Tensile [KN]	Shear [KN]	Torque [Nm]
M3	4.9	0.98	3.0
M4	4.9	1.66	4.5
M5	11.088	2.74	5.4
M6	17.65	3.43	11
M8	27.45	4.41	29
M10	28.43	4.9	32
M12	48.05	6.86	44.2

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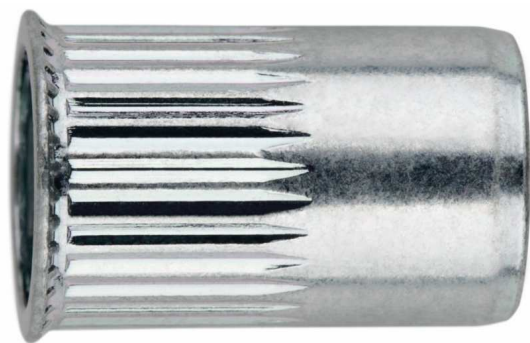
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2. TRCR

RIVET NUT REDUCED HEAD



Properties



Steel



Coating: zinc plated $\geq 5 \mu\text{m}$

Main applications



Carpintería aluminio
Aluminum
woodwork

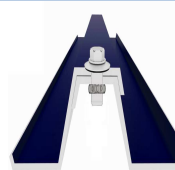


Plate assembly



Profile plate metal

2.1. Characteristics and advantages

- Provides a bigger bearing area under the head.
- To be used in soft or brittle materials to be assembled in rigid material.
- Flat finished without protrusions on thin sheets with low loads (for example: appliances or bodywork).

2.2. Information

CODE	Metric	L Length [mm]	D ϕ head [mm]	d ϕ body [mm]	S Lip thickness [mm]	Fixing thickness [mm]	ϕ Pilot hole [mm]
TRCR0410	M4	10	7	5.9	0.8	0.5 $\div$ 3.0	6
TRCR0511	M5	11.5	8	6.9	0.8	0.5 $\div$ 3.0	7
TRCR0614	M6	14	10	8.9	0.8	0.5 $\div$ 3.0	9
TRCR0815	M8	15.5	12	10.9	0.8	0.5 $\div$ 3.0	11
TRCR1019	M10	19.5	14.5	12.9	0.8	0.8 $\div$ 3.5	15

MECHANICAL PROPERTIES RECOMMENDED LOAD			
Metric [-]	Tensile [KN]	Shear [KN]	Torque [Nm]
M4	6.47	1.56	4
M5	9.02	2.15	5
M6	16.67	2.35	10
M8	21.57	2.84	18
M10	31.77	4.21	30

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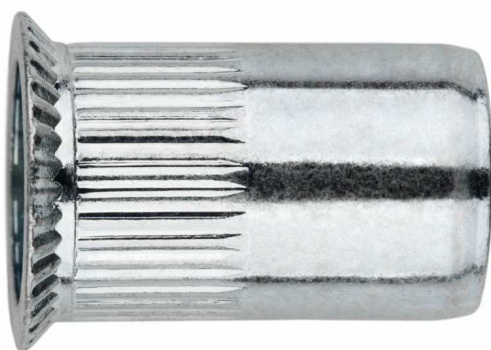
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3. TRAV

RIVET NUT COUNTERSUNK HEAD



Properties



Steel



Covering zinc plated $\geq 5 \mu\text{m}$

Main applications



Carpintería aluminio

Aluminium
woodwork

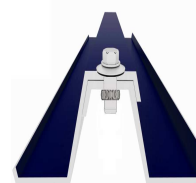


Plate assembly



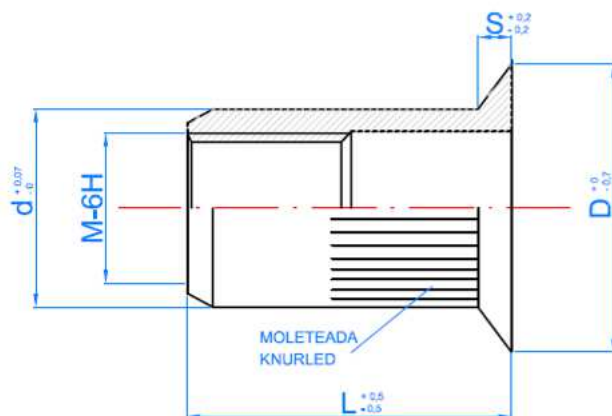
Profile plate metal

3.1. Characteristics and advantages

- To be used when a flat surface is needed.
- For bigger fixing thickness.
- Flat finished without protrusions on thin sheets with low loads (for example: appliances or bodyworks).

3.2. Information

CODE	Metric	L Length [mm]	D $\varnothing$ head [mm]	d $\varnothing$ body [mm]	S Countersinking thickness [mm]	Fixing thickness [mm]	$\varnothing$ Pilot hole [mm]
TRAV0411	M4	11.5	9	5.9	1.8	1.5 ÷ 3.5	6
TRAV0513	M5	13.5	10	6.9	1.8	1.5 ÷ 4.0	7
TRAV0616	M6	16	12	8.9	1.8	1.5 ÷ 4.5	9
TRAV0819	M8	19	14	10.9	1.8	1.5 ÷ 4.0	11
TRAV1021	M10	21	16	12.9	1.8	1.5 ÷ 4.0	13



MECHANICAL PROPERTIES RECOMMENDED LOAD

Metric [-]	Tensile [KN]	Shear [KN]	Torque [Nm]
M4	7.84	2.15	4
M5	10.78	2.25	5
M6	16.67	3.62	10
M8	30.79	4.7	18
M10	34.32	5.19	28