### NITTOSEIKO

Clinch stud having exceeded weld stud.



Why don't you use Strux instead of ordinary clinch studs, weld studs and swaged bolts?

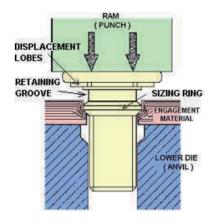
# Strux's outline

Strux Clinch Studs offer a highly reliable, high-production part superior to other types of studs.

They can be installed with simple, easily-maintained equipment.



- High Rotation Resistance due to Displacement Lobes.
- High Push-Out Force due to Sizing ring.
- Joint power is demonstrated only by applying pressure to a head due to Retaining groove and Displacement lobes.



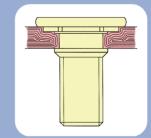
# **Special features**

- Cost saving
- High push-out and Rotation resistance
- No need plating after assemble
- Combination with nonweldable materials can be performed.
- Highly reliable

# Application

Ordinary clinch studs and weld studs can be substituted by Strux.

- Seatbelt
- Tractor
- Break of car
- Bumper
- Refrigerator etc.



Strux Clinch Studs are fed into punched or drilled holes by hand or automatic feeding equipment. The sizing ring automatically rounds and sizes to hole to specified diameter.

As pressure is applied, displacement lobes are seated, forcing the engagement material into the retaining groove for a solid, rotation-resistant assembly. The configuration of the stud remains unchanged.

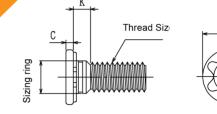
# NITTOSEIKO CO., LTD.



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CLINCH STUD<sub>®</sub>

## **Dimensional & Performance Data**





Thread Size	A (Ref.)	Sizing Ring +0.06 -0.08	K (Ref.)	C ±0.13	D ±0.25	Engagement Material Thickness	Recommended Hole Size		Approx. Staking	Push-Out Force	Rotation Resistance
							Min.	Max.	Force (ton)	(N)	Torque (N∙m)
M4X0.7	7.3	4.62	1.5	1.40	8.75	1.0	4.42 4.53	1 52	1.6	882	5.0
			2.4	1.40		1.6		4.55	2.0	1813	
M5X0.8	7.8	5.62	1.5	1.75	9.35	1.0	5.42	2 5.53	2.0	1176	7.9
			2.4			1.6			2.4	2303	
			3.4			2.3			3.3	4900	
M6	9.2	6.62	1.5	2.10	11.00	1.0	6.42	6.53	2.3	1274	10.6
			2.4			1.6			2.7	2303	18.0
			3.4			2.3			3.3	5194	
			4.6			3.0			3.6	6958	
M8	12.7	8.62	1.5	2.80	15.25	1.0	8.42	8.53	3.0	1470	18.0
			2.4			1.6			3.5	2401	36.9
			3.4			2.3			4.8	5733	44.0
			4.6			3.0			7.6	10486	
M10X1.25	16.4	10.62	3.6	3.50	19.75	2.3	10.42	10.53	5.9	6566	85.9
M10			4.6			3.0			8.9	11956	
			5.1			4.0			10.8	16954	
M12X1.25	18.2	12.62	3.7	3.80	20.00	2.3	12.42	12.53	9.8	6958	104.9
M12			4.8			3.0			10.8	12495	
			5.1			4.0			12.8	17934	

#### (All Dimensions in Millimeters)

Performance data shown are typical result obtained under laboratory test conditions. Test were conducted after staking studs into low carbon steel with heat treatment. For other than standard sizes or shapes of studs, or for other types and thickness of panel materials, please consult our engineer.

# NITTOSEIKO CO., LTD.

\*Strux<sup>®</sup> is a registered trademark of Acument Intellectual Properties, LLC

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