



TUCKER

TH 71X Stud Welding Head

Weld head with optimized interference contour
for hard-to-reach areas

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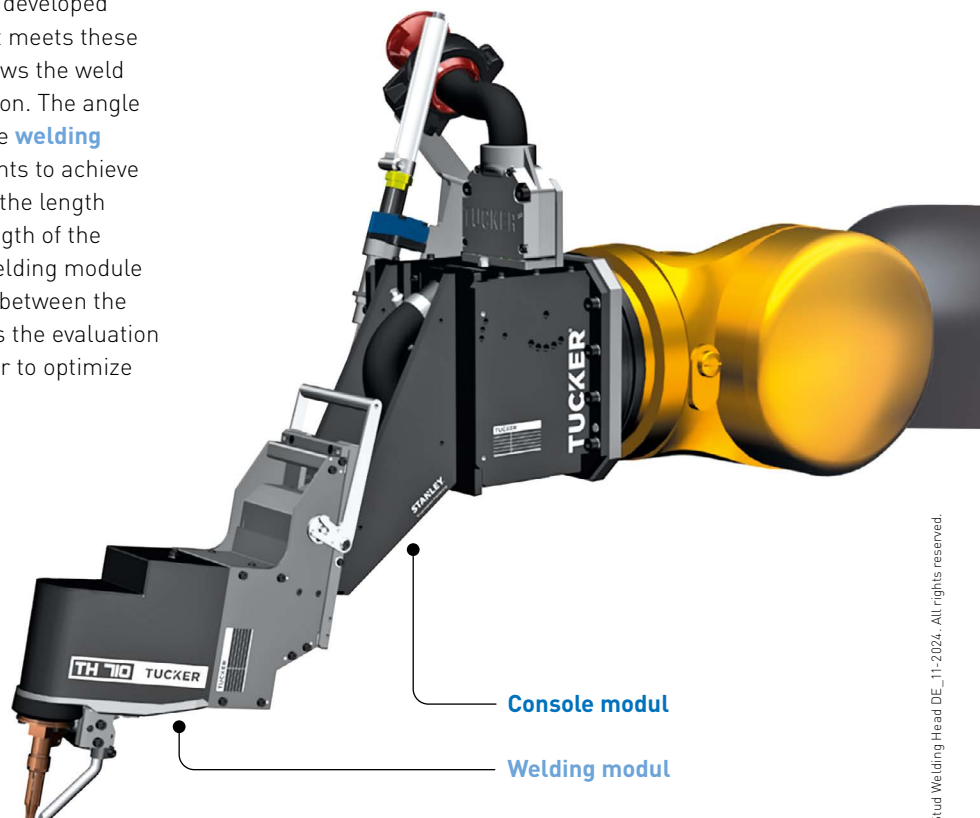
Automated production lines quickly reach their limits, especially in narrow installation spaces. In automotive engineering, these areas or components are typically challenging:

- Engine compartment
- Boot
- Transmission tunnel
- EV battery box
- Wheel arch

To enable the enormous advantages of stud welding everywhere on a vehicle, Tucker has developed the TH 71X, a stud welding head that meets these challenges. The modular design allows the weld head to be optimized to the application. The angle between the **console module** and the **welding module** is available in different variants to achieve the best accessibility. Depending on the length of the processed stud, the stroke length of the slide and therefore the size of the welding module can vary. Intelligent communication between the console and welding module enables the evaluation of separate counter readings in order to optimize maintenance intervals.

Key advantages of the TH 71X small welding module

- Highest accessibility in narrow installation spaces
- Reduced interfering edges allow stud welding everywhere
- Welding module size optimized for stud dimensions
- Modular design, quick change of welding module
- Optional extended dual function with stud diverter

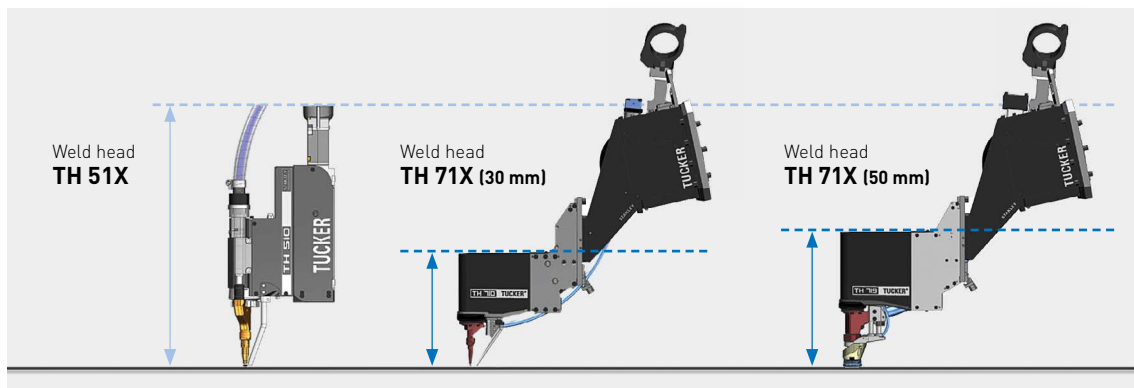


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Interference contour reduced up to 50 % in comparison with the standard weld head TH 51X.



Variants of the TH 71X

- **TH 710** – Weld head for standard steel applications
- **TH 717** – Weld head with additional enhancement of the loading piston to compensate diverging lengths when working with two studs of similar geometry at the same time
- **TH 719** – Weld head with protective gas for aluminum and high-strength steel applications
- **TH 71X** – Tucker can engineer special solutions to fulfil individual requests

Welding module options

- **Smallest interference contour – 30 mm slide stroke:**
Applicable for studs with a max. length of 25 mm and a flange diameter up to 14 mm
- **Compact flexibility – 50 mm slide stroke:**
This option is able to process the whole Tucker stud portfolio



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Optimized variants for every application - Facts & Features

Applications

	Standard TH 710	Length comp. TH 717	Gas TH 719
Steel	■	■	■
High-strength, thin steel	■	■	■
Aluminum		■	■

Specifications (deviations possible depending on variant)

Total weight	18 to 20 kg
Weight welding module	6 to 7 kg
Weight console module	12 to 13 kg
Dimensions L x W x H	660 x 240 x 280 mm
Max. welding stroke	12 mm
Max. slide stroke	30/50 mm
Optimal slide stroke	25-28/37-44 mm
Max. power consumption	2,5 A
Protective gas pressure	4 bar
Max. protective gas flow	20 l/min
Noise emissions, assessed as 'A'	< 75 dB (A)

Customization options

▪ Welding module

Size-optimized variants available for all stud sizes

▪ Console module

Various angles, lengths and positions available (special adaptation if necessary)

▪ Stud Receiver

Can be mounted on both sides to ensure the best possible accessibility

▪ Support foot

Adjustable to match part geometry (For steel applications – Not applicable for aluminum)

▪ Feed tube

Connection to bracket is

▪ adjustable/inclinable

▪ Multi-coupling

Further improvement of the interfering contour by installing an angled outlet

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