

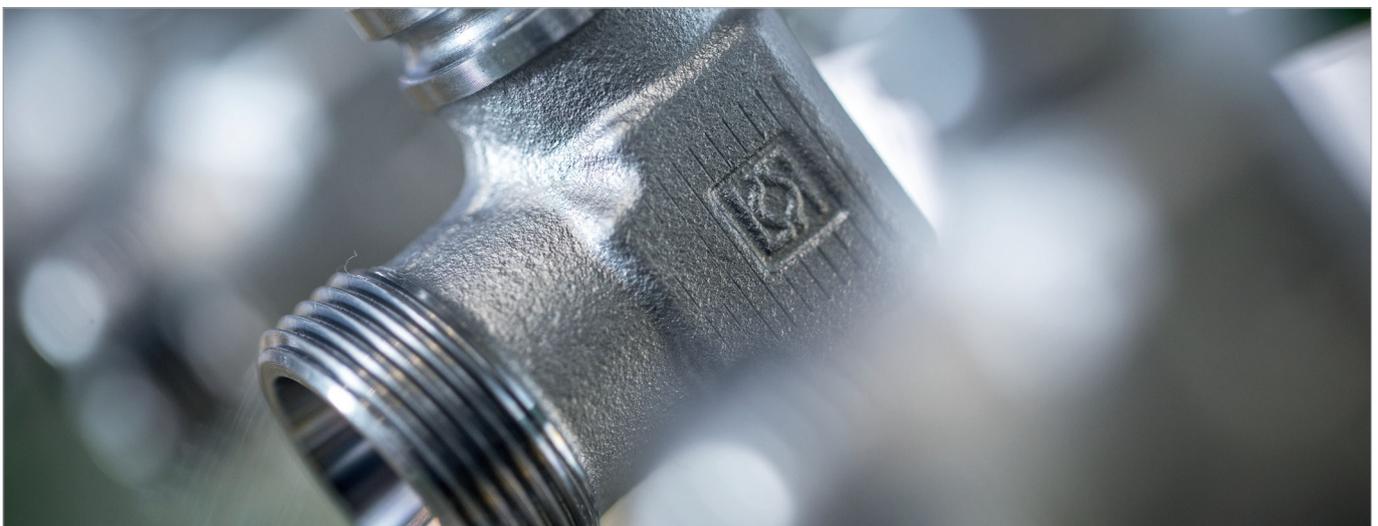
Tube Connectors



Assembly Tools and Devices



Product Overview
STAUFF Connect



STAUFF Zinc/Nickel Coating



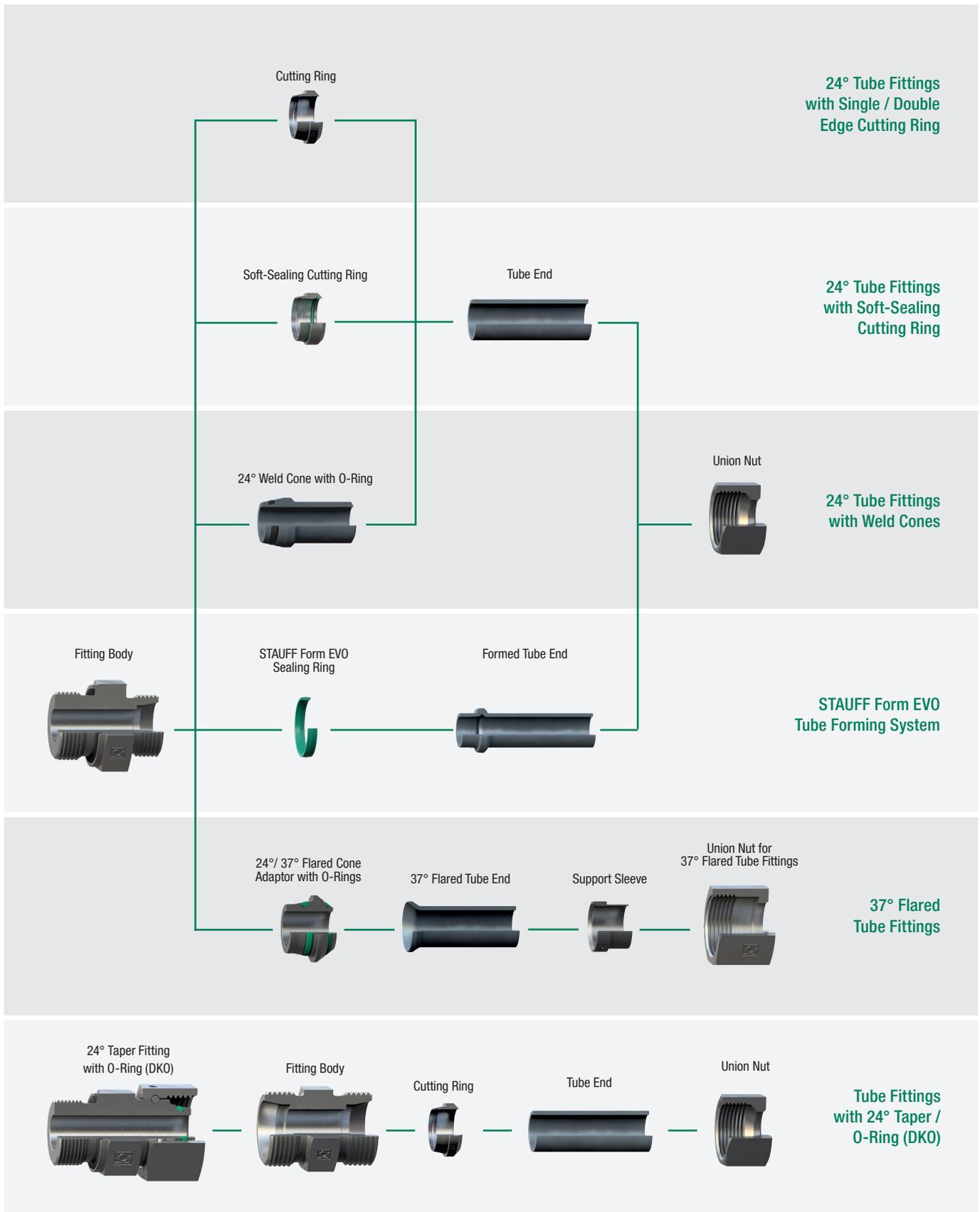
- Layers**
- Sealing
 - Passivation
 - Zinc/Nickel
 - Steel

With at least 1200 hours resistance against red rust, the STAUFF Zinc/Nickel surface coating offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

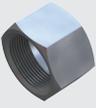
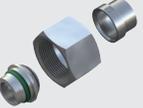
Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of STAUFF components since 2007.

- At least 1200 hours resistance to red rust / base metal corrosion under practical conditions in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Surpassing the requirements of the corrosion protection class K5 as defined by the VDMA, the German Engineering Association (360 hours resistance to white rust / 720 hours resistance to red rust)
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish – comparable to Stainless Steel
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media

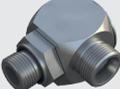
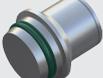
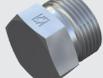
Overview of 24° Tube Fittings



Overview of 24°- Tube Fittings (ISO 8434-1 / DIN 2353)

Connecting Parts	Double Edge Cutting Ring  FI-DS	Soft-Sealing Cutting Ring  FI-WDDS	Support Sleeve  FI-VH	STAUFF Form EVO Sealing Ring  FI-FD	Union Nut  FI-M	24°/37° Flared Cone Adaptor with O-Rings  FI-BA			
	Support Sleeve for 37° Flared Tube Fittings  FI-BH	Union Nut for 37° Flared Tube Fittings  FI-BM	37° Flared Tube Fitting Set  FI-AB						
	Male Stud Fittings	Straight Male Stud Fitting  FI-GE-	Male Stud Elbow  FI-WE-	Male Stud Branch Tee  FI-TE-	Male Stud Barrel Tee  FI-LE-				
		Tube Fittings / Unions	Straight Union  FI-G	Straight Reducer  FI-G	Equal Elbow  FI-W	Equal Tee  FI-T	Tee Reducer  FI-T	Equal Cross  FI-K	
			Bulkhead Fittings	Straight Bulkhead Fitting  FI-GS	Elbow Bulkhead Fittings  FI-WS	Straight Bulkhead Weld Fitting  FI-ES			
				Weld Fittings	Straight Weld Fitting  FI-AS	Elbow Weld Fitting  FI-WAS	24° Weld Cone with O-Ring  FI-SN	24° Weld Cone Reducer with O-Ring  FI-SNR	Straight Weld Fitting for Tubes  FI-ASV
	Female Studs and Gauge Fittings				Straight Female Stud Fitting  FI-GA-	Gauge Fitting  FI-MA-	Gauge Fitting with 24° Taper / O-Ring  FI-EMAD-	Gauge Standpipe Fitting  FI-EMA-	
Fittings with 24° Taper / O-Ring (DKO)			Straight Male Stud Fitting  FI-EGED		Straight Fitting / Reducer  FI-SNV	Straight Reducer for Tube Ends  FI-REDS	Distance Adaptor  FI-REDS	Adjustable Elbow (90°)  FI-EWD	Adjustable Elbow (45°)  FI-EVD

Overview of 24°- Tube Fittings (ISO 8434-1 / DIN 2353)

Fittings with 24° Taper / O-Ring (DKO)	Adjustable Branch Tee  FI-ETD	Adjustable Barrel Tee  FI-ELD				
Standpipe Fittings	Straight Male Stud Standpipe Fitting  FI-EGE	Straight Standpipe Reducer  FI-REDS	Adjustable Standpipe Elbow  FI-EW	Adjustable Standpipe Branch Tee  FI-ET	Adjustable Standpipe Barrel Tee  FI-EL	
Fittings with Lock Nut	Adjustable Male Stud Elbow (90°)  FI-WEE	Adjustable Male Stud Elbow (45°)  FI-VEE	Adjustable Male Stud Branch Tee  FI-TEE	Adjustable Male Stud Barrel Tee  FI-LEE		
Banjo Fittings	Banjo Elbow (Medium-Pressure Version)  FI-RSWND	Banjo Elbow (High-Pressure Version)  FI-RSW	Banjo Tee (High-Pressure Version)  FI-RST			
Swivel Fittings	Swivel Elbow  FI-DGWE					
Hydraulic Valves	Check Valve  FI-RV / FI-RVA	Male Stud Check Valve (Flow from Stud End)  FI-RVV / FI-RWA	Male Stud Check Valve (Flow to Stud End)  FI-RVZ / FI-RVZA	Female Stud Check Valve  FI-RVI / FI-RVIA	Check Valve Installation Kit  FI-VES	Alternating Valve  FI-WV
Spare Parts / Accessories	Thread Reducer  FI-RED	Blanking Screw for Ports (Heavy Duty)  FI-VSV	Blanking Screw for Ports  FI-VS	Blanking Plug with 24° Taper / O-Ring (DKO)  FI-VD	Blanking Plug with Sealing Edge  FI-BUZ	Blanking Plug for Tube Ends  FI-VSK
Hexagon Lock Nut  FI-SKM	Profile Sealing Ring  WDG	O-Ring  O-RING	External Metallic Sealing Ring  FI-DKR	Retaining Ring with Captive Seal  FI-DIR	Internal Metallic Sealing Ring  FI-DKI	Retaining Ring (Small)  FI-KR

Overview of Assembly Tools / Devices, Measuring and Test Equipment and Tube Manipulation

Cutting Ring Final Assembly Machine

Cutting Ring Final Assembly Machine with Cloud connection



SPR-PRC-POC-A-A-IOT

Cutting Ring Pre-Assembly Machine

(37°-Flaring Machine)

Cutting Ring Assembly and 37° Flaring Machine with Automatic / Manual Pressure Setting



SPR-PRC-MA-D-A

Portable Cutting Ring Assembly Machine with Manual Pressure Setting (Set)



SPR-PRC-H-SET

Manual Cutting Ring Assembly Device

Manual Cutting Ring Pre-Assembly Device



SPR-PRC-MP

Pre-Assembly Stud for the Manual Cutting Ring Assembly



FI-VK

Final Assembly Stud for the Manual Cutting Ring Assembly



FI-FK

Tube Forming Machine

STAUFF Form EVO

STAUFF Form EVO Tube Forming Machine with Cloud connection



SFO-F-A-A-IOT

Test Equipment

Thread Identification Board



FI-TIB

Cone Gauges



FI-KOL

Tube Manipulation

STAUFF Clean Pipe, Tube and Hose Cleaning System



SC

Manual Tube Bender



TUB-MA

Tube Bending and Saw Device



TUBSD-MA

Tube Saw Device

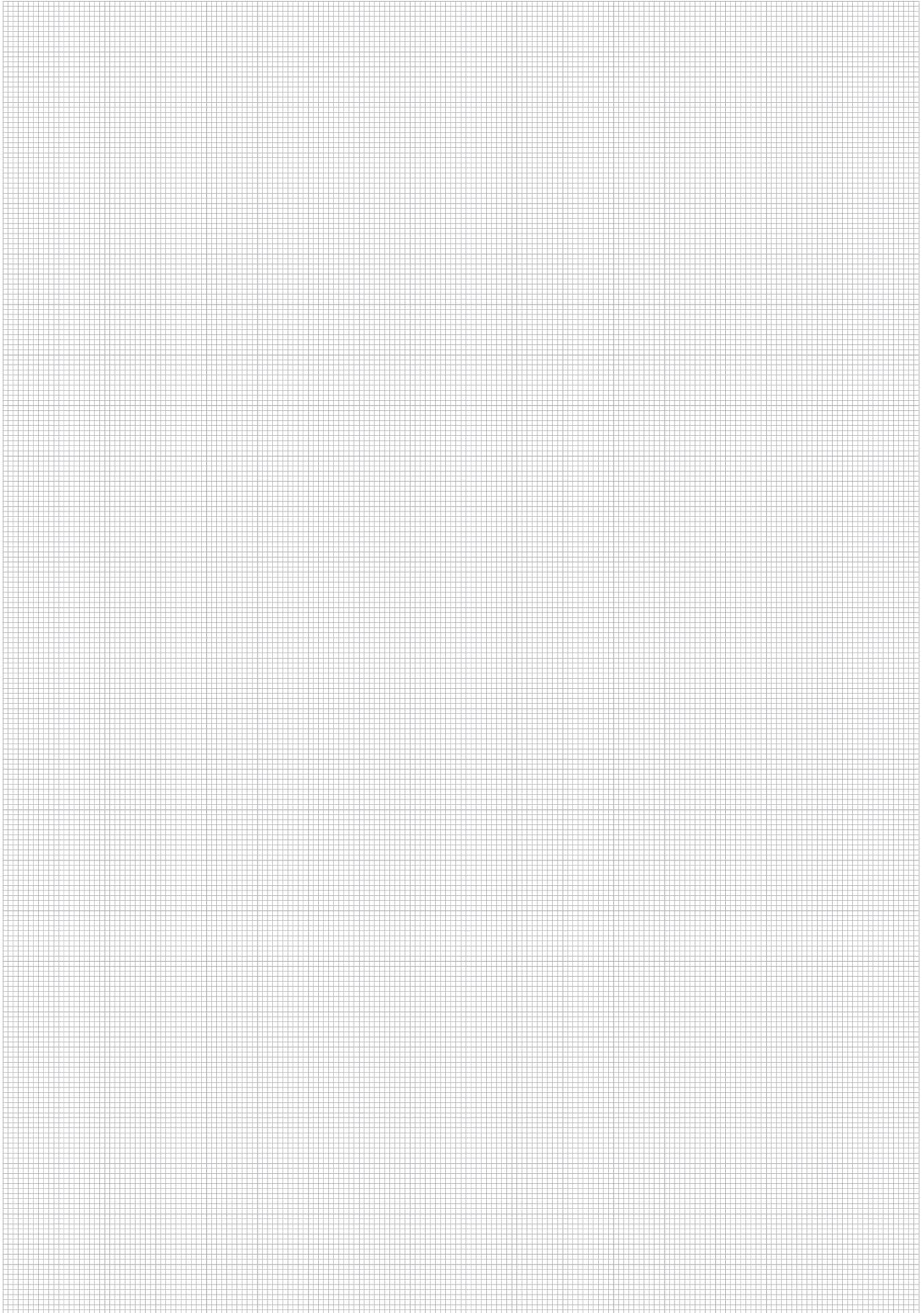


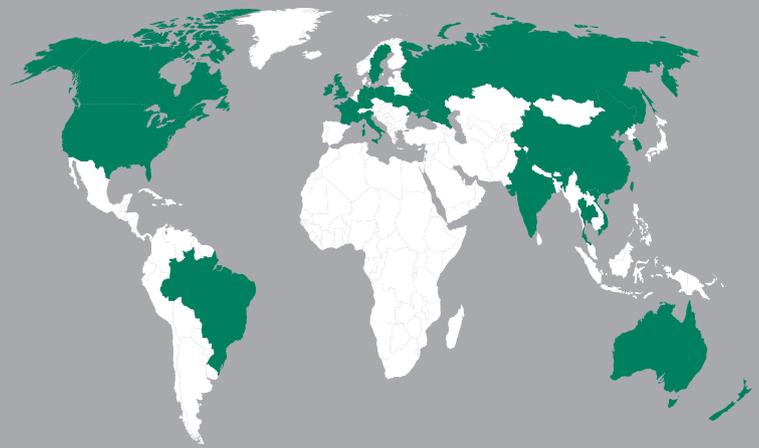
TUSD-MA

Tube Reamer



TUD-MA





GERMANY

Walter Stauffenberg GmbH & Co. KG
Im Ehrenfeld 4
58791 Werdohl

STAUFF products and services are globally available through wholly-owned subsidiaries and a tight network of authorised distributors and representatives in all major industrial regions of the world.

Contact STAUFF:

[**www.stauff.com/contact**](http://www.stauff.com/contact)