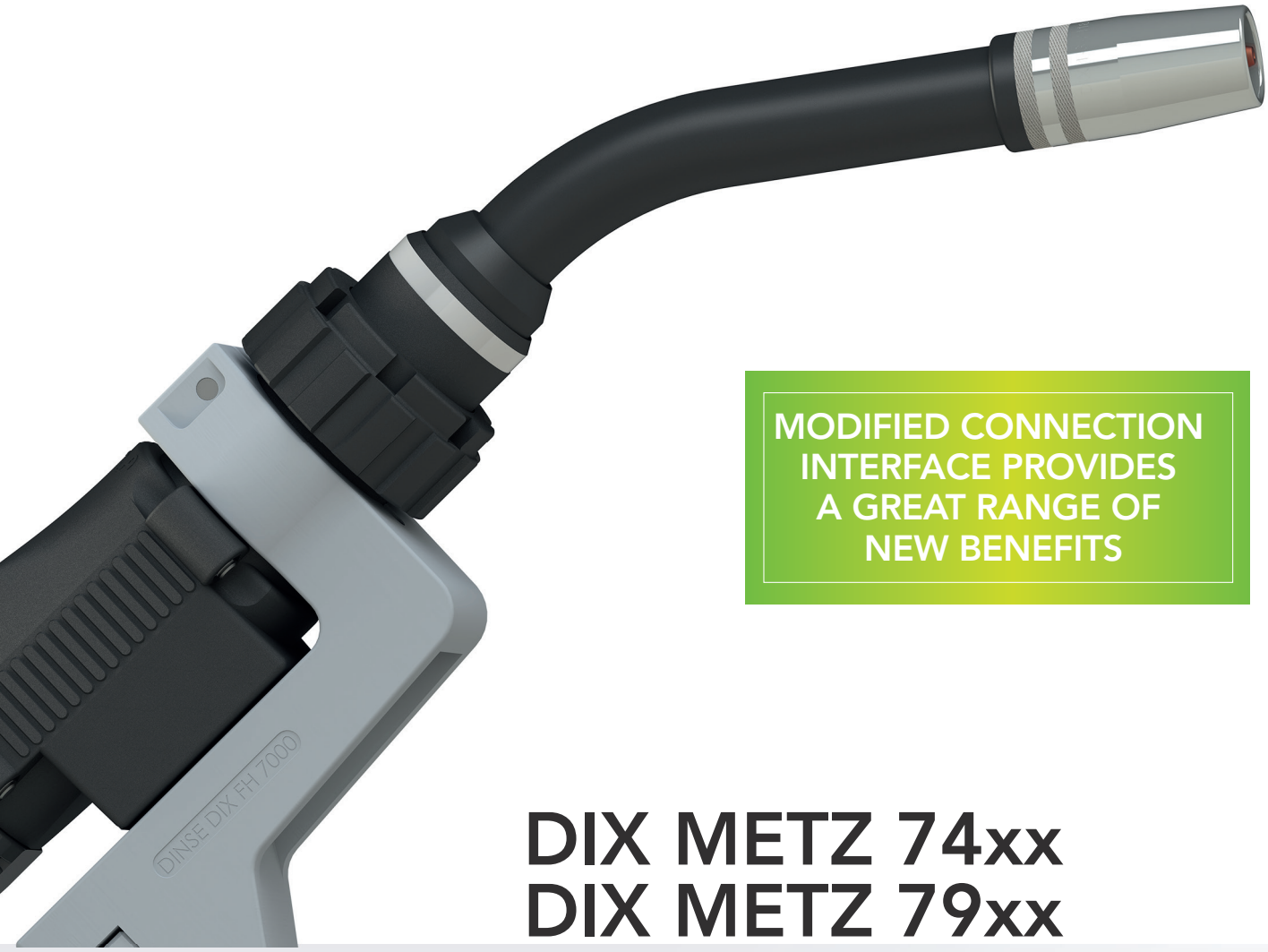
TORCH HEADS FOR AUTOMATED WELDING



MODIFIED CONNECTION INTERFACE PROVIDES A GREAT RANGE OF NEW BENEFITS

DIX METZ 74xx
DIX METZ 79xx

MADE IN GERMANY

- Improved DINSE dual-circuit liquid cooling system
- Optimized connection interface
- Sophisticated details
- Perfect alignment of the TCP - even after changing the torch neck
- As individual as every welding project: each torch available in four different angles and three lengths

liquid-cooled

WELL THOUGHT OUT DOWN TO THE SMALLEST DETAIL

In developing our DIX METZ 74xx and DIX METZ 79xx, we have incorporated our years of experience into the product. The result is the best automatic torches we have ever been able to build.

TCP ACCURACY

The gas nipple and the wire guide tip adapter are provided with a very precise fit. Optimum centering is achieved via the fit on the cone and precise alignment in the longitudinal axis via the gas nipple.

This ensures perfect reproducibility of the torch position and the TCP, even after changing the torch neck.

BETTER COOLING

The inner and outer cooling circuits have been moved forward in the further development of the gun insert and ensure you an even longer service life of the wear parts.

EXCHANGEABLE TIP ADAPTER

The tip adapter reliably fixes the contact tip to the gun insert. In case of wear, the tip adapter can simply be replaced - there is no need to replace the entire torch neck.

WATER VALVES

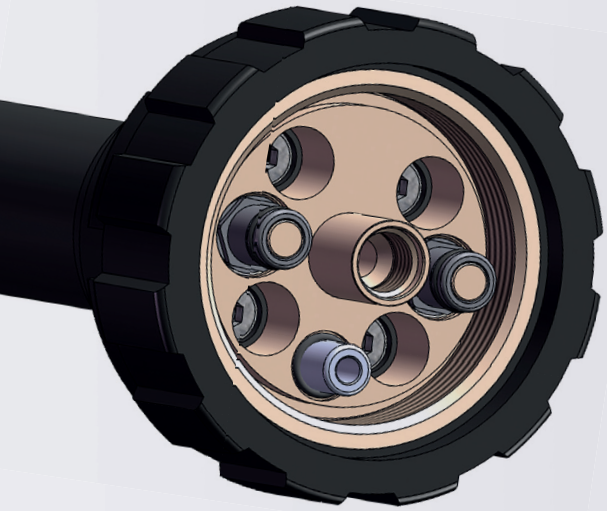
Thanks to the adapted water valves, which only open when the gun insert is connected to the clothing interface, no cooling water escapes when changing the torch. This reduces sources of error due to leaking cooling water.

IMPROVED AND CHANGEABLE COUPLING NUT

In case of wear, only a new union nut is required, which saves you costs in case of service. The modified geometry also reduces the interference contours of the overall system and improves workpiece accessibility.

THE GAS DISTRIBUTOR ENCLOSES THE CONTACT TIP ALMOST FLUSH

And provides optimum protection against splash adhesion in the thread area of the contact tip or thread base.



OPTIMIZED INTERFACE TO THE TORCH SET

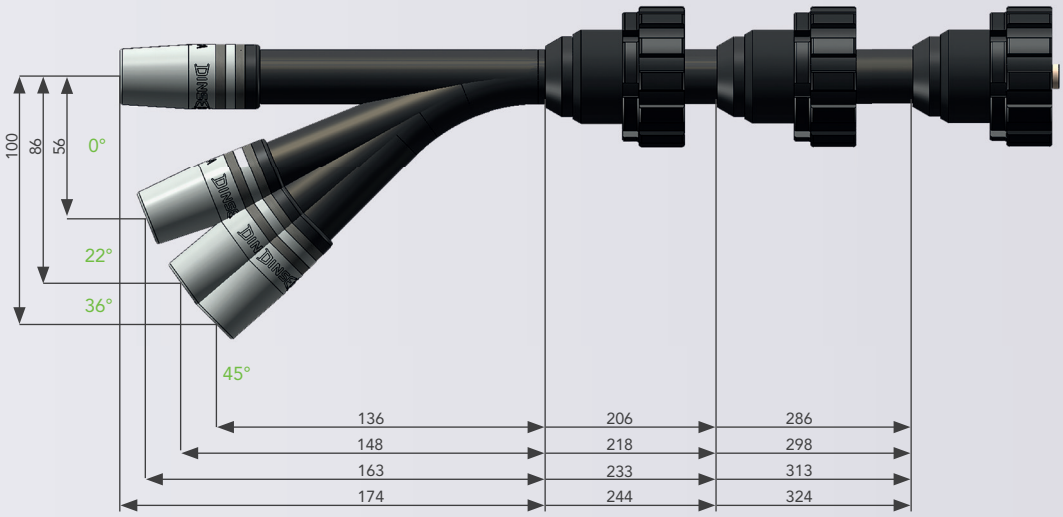
Therefore, the automatic torches of this generation are not compatible with the torch sets of the 600 series.

SURFACE PROTECTION

Thanks to the use of our new coating, the torch is equipped with a particularly high-quality, scratch- and resistance-resistance surface. The torch neck is less susceptible to spatter adhesion.

DIX METZ
7400/7422/7436/7445 L/XL

- The first choice in the automated sector
- The optimal solution for high load and productivity
- Outstanding stability and quality of all wear parts
- Screwable contact tip selectable for your individual process (M8 and M10)



INDIVIDUAL
TORCH CONFIGURATION

Every variant a bull's eye.

Do not limit yourself to a minimum. DINSE allows maximum flexibility in application. That is why our torch necks are now available in twelve different lengths and bending angles.

You choose the right welding torch for your personal welding task - we immediately deliver the precisely fitting equipment with the desired dimensions for optimum component access directly from stock.

550 A/100% ED

500 A/100% ED

(DIN EN 60 974 - 7)

WIRE DIAMETER

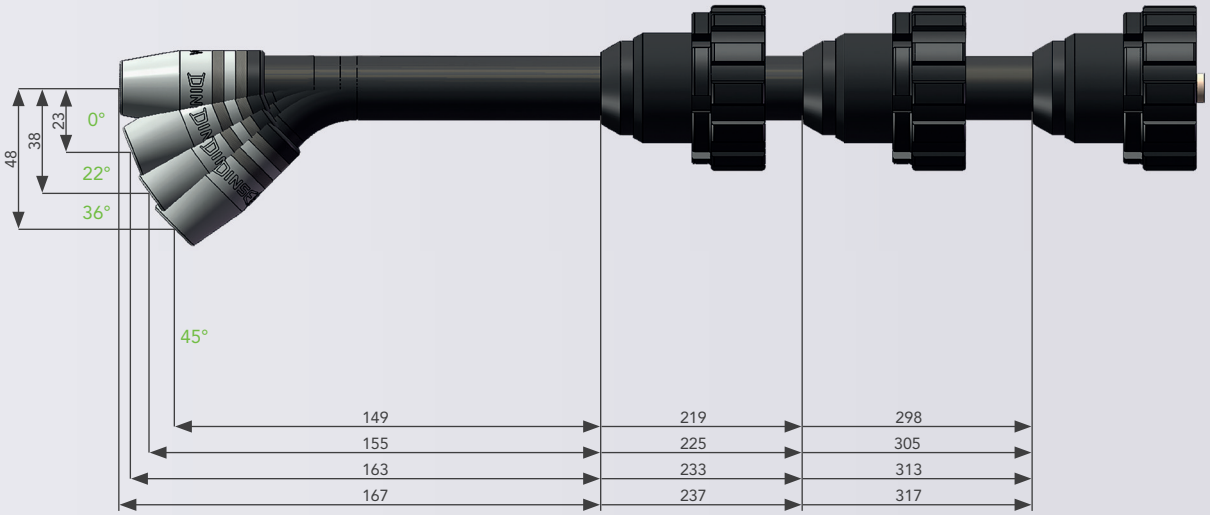
Ø 0,8 mm — Ø 2,4 mm

MATERIAL THICKNESS

M — XXL

DIX METZ
7900/7922/7936/7945 L/XL

- The professional in the automotive sector
- Pinpoint welding even in hard-to-reach places
- Small external dimensions allow excellent component accessibility
- Optimal handling thanks to slim design
- Screwable contact tip selectable for your individual process (M8 and M10)



COMPATIBILITY AND ECONOMIC EFFICIENCY

Only settle for the best.

Robot and automatic welding requires system components that guarantee maximum availability, lasting durability and optimum reproducibility.

At DINSE, all components are standardized and optimally matched to each other. All wear parts are performance-optimized and withstand the highest temperature loads.

CO_2 400 A/100% ED

MIXED GAS 350 A/100% ED

(DIN EN 60 974 - 7)

WIRE DIAMETER

Ø 0,8 mm — Ø 2,4 mm

MATERIAL THICKNESS

XS — M

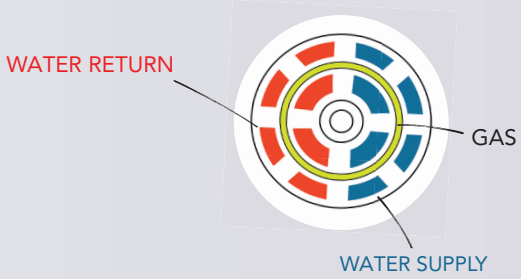
DUAL CIRCUIT-
LIQUID COOLING

MAXIMUM COOLING CAPACITY: UNBEATABLE IN PRACTICE

Experience the exceptional cooling performance of DINSE dual-circuit liquid cooling, where the cooling medium flows seamlessly through annular channels. This innovative design allows for parallel cooling of both the contact tip and gas nozzle, leading to unparalleled efficiency.

Our dual-circuit liquid cooling system ensures optimal temperature reduction for your welding challenges. By efficiently cooling the critical components, our torches are capable of withstanding the most demanding conditions over extended periods of time.

The result? A significantly longer service life for our torches, translating into enhanced productivity and cost savings for your operations. With DINSE dual-circuit liquid cooling, you can rely on advanced cooling technology that maximizes performance, durability, and ultimately, your productivity.

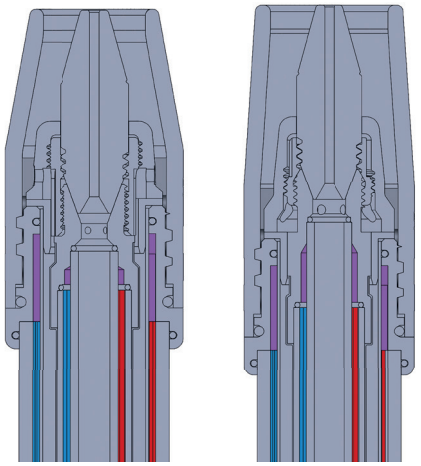


SEPARATE SHIELD GAS FEED

DINSE torches feature a meticulously designed gas supply system that ensures optimal gas coverage and flawless welding results. By feeding the shielding gas separately through the wire to the gas nozzle, we eliminate gas losses, guaranteeing an ideal welding environment.

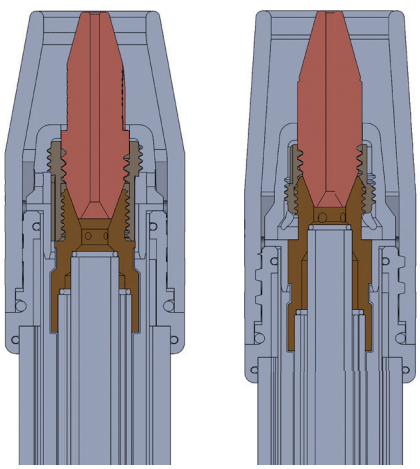
RELOCATION OF THE RINSING CHAMBERS IN THE DIRECTION OF THE ARC

The heat transfer starts directly under the gas nozzle and contact tip. As a result, we reduce the thermal load on the entire system of wear parts.



POSITIVE CONNECTION BETWEEN CONTACT TIP AND TORCH NECK

By connecting the contact tip to the torch neck, we achieve an increase in the area between the two components. The current and heat transfer is direct and in a large cross-section.



TECHNICAL DATA

Performance Data DIN EN 60 974-7		
METZ 74xx	550A/100% ED CO2	500A/100% ED Mixed gas
METZ 79xx	400A/100% ED CO2	350A/100% ED Mixed gas

All suitable spare and wear parts can be found in our product catalog AUTOMATION.

Your DINSE partner:

MORE SERVICE
MORE PERFORMANCE

DINSE is your dependable partner for the entire welding process.
Contact us and schedule an appointment for consultation today.
Together with you we will find the best solution for your application.

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