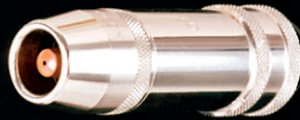


## BLACKline manual welding systems

„No compromise in quality and performance!“

efficient dual circuit cooling system ▶



◀ outstanding work-piece accessibility



powerful product range ▶



◀ intelligent component system



minimal wear ▶



DINSE – passionate about perfection.



## DINSE manual welding systems: Maximum performance and functionality meeting the highest demands.

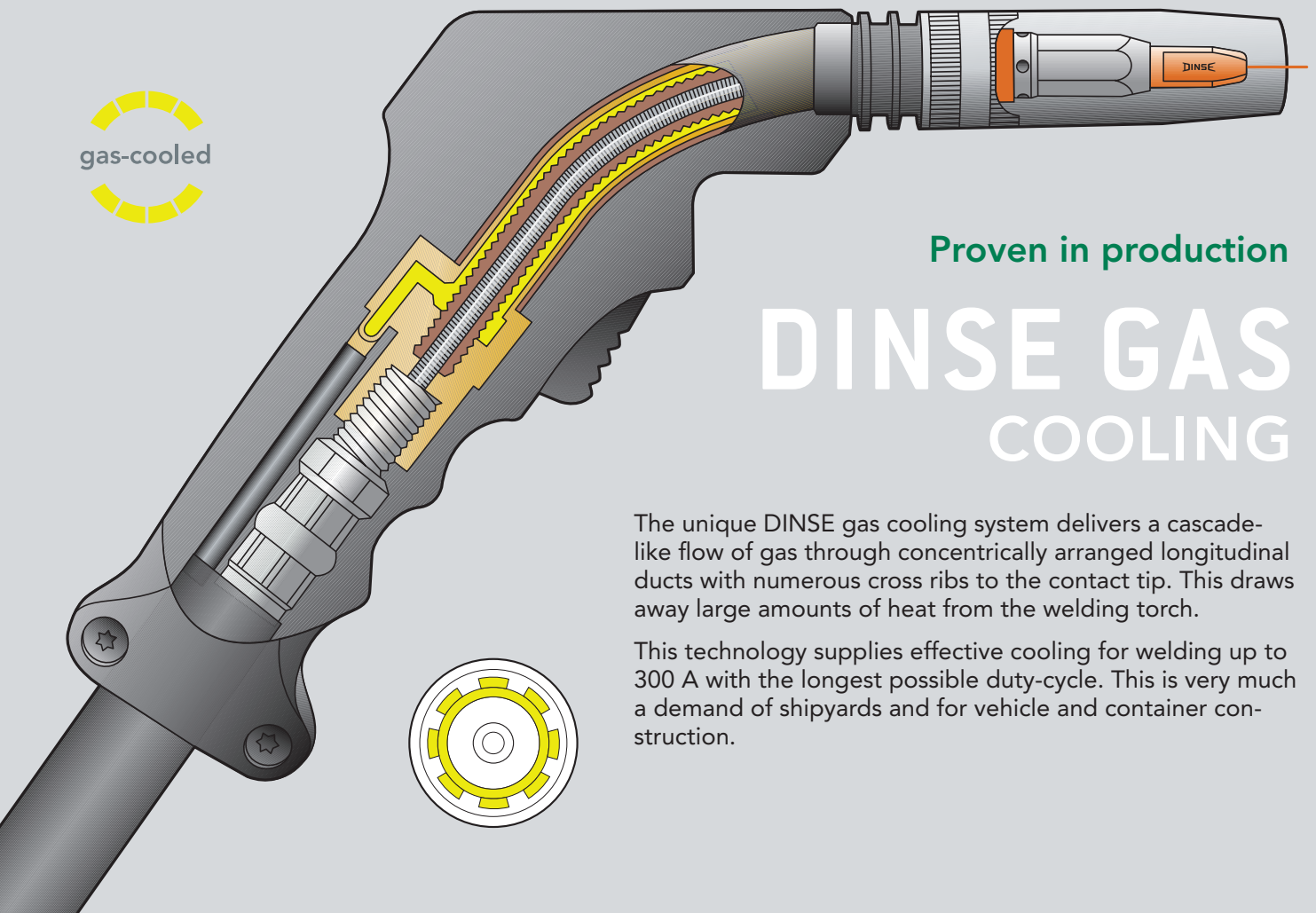
For mobile or stationary MIG/MAG welding high performance and durable materials are essential. This is where DINSE's tested quality comes into play: Proven and highly resilient torch sets for sustained, precision work.

### Efficient gas routing

All DINSE torch sets come equipped as standard with a separate shield gas hose. This ensures a superior gas shield yielding perfect welding results, with no loss of gas.

### Modular design

DINSE torches set the standards for extreme flexibility in all applications. No matter what the task you will find the right components perfectly adapted to one another for cost-effective problem-free production.



### Proven in production

# DINSE GAS COOLING

The unique DINSE gas cooling system delivers a cascade-like flow of gas through concentric longitudinal ducts with numerous cross ribs to the contact tip. This draws away large amounts of heat from the welding torch.

This technology supplies effective cooling for welding up to 300 A with the longest possible duty-cycle. This is very much a demand of shipyards and for vehicle and container construction.



## Our quality promise: Minimal wear – maximum availability.



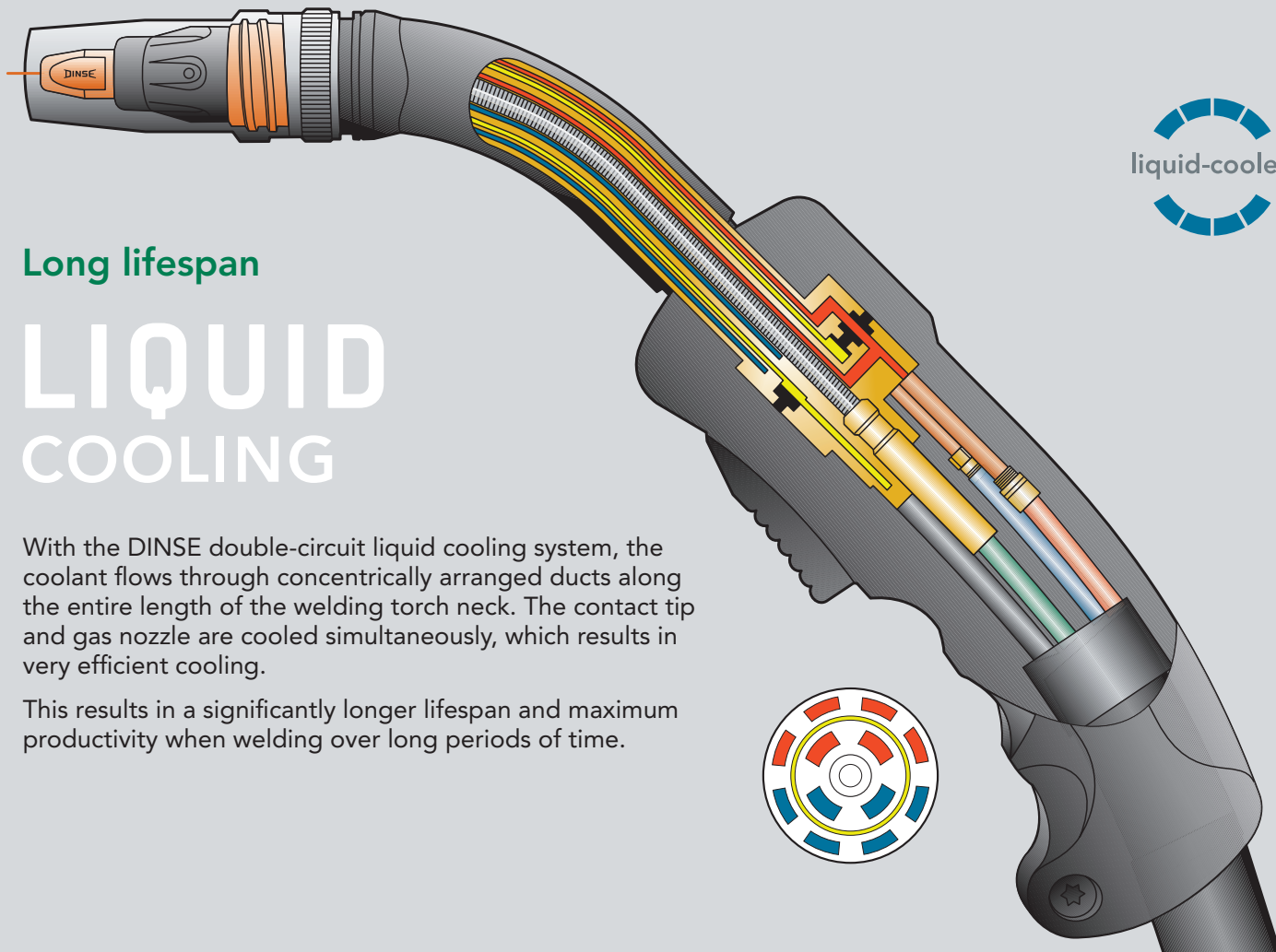
Only components that meet our highest demands are used for DINSE manual welding torches. This ensures a long service life from your DINSE equipment. Storage costs and down-time to replace wearing parts are reduced to a minimum.

### Cost-effective repairs

One of the qualities that distinguish DINSE products is the high level of cost-effectiveness. The various components can be individually replaced in case of wear. This makes the torch set low-maintenance and easy to repair.

### Optimal design

The entire range of welding torches is also popular because of its ergonomic qualities. The sleek design of the torch neck guarantees exceptionally good component accessibility.



### Long lifespan

# LIQUID COOLING

With the DINSE double-circuit liquid cooling system, the coolant flows through concentrically arranged ducts along the entire length of the welding torch neck. The contact tip and gas nozzle are cooled simultaneously, which results in very efficient cooling.

This results in a significantly longer lifespan and maximum productivity when welding over long periods of time.



# BLACKline 230/330/430 – the flexible range.

The right manual welding torch for any requirement: From the handy, standard design and the unique DINSE torch handle to the handle with integrated PUSH-PULL drive. Separable versions and torch heads that rotate 360° are also available for the gas-cooled DINSE BLACKline range.



MS 230



MG 230



singly separable torch neck  
D = revolving W = changeable

MDW 230 also as MDW 330



singly separable torch neck

MPW 230 also as MPW 330



MS 330



MG 330



MC 330



MS 430

DIX 230 250 A/60% DC CO<sub>2</sub>

wire Ø 0,8-1,0 mm 200 A/60% DC mixed gas

DIX 330 300 A/60% DC CO<sub>2</sub>

wire Ø 1,0-1,2 mm 270 A/40% DC mixed gas

DIX 430 300 A/60% DC CO<sub>2</sub>

wire Ø 1,0-1,2 mm 270 A/40% DC mixed gas



# BLACKline 230/330 – even more powerful.

Lightweight, operator-friendly, functional: DINSE also offers the tried and tested 230 and 330 MIG/MAG manual welding torches in water-cooled variants with correspondingly higher performance capability. Longer life spans ensure optimal cost-effectiveness. The wearing parts of the gas- and water-cooled variants are common and contribute to their popularity.

For gas-cooled applications



DINSE connector

Euro connector

For water-cooled applications



DINSE connector

Euro connector

230



MSZ 230

330



MSZ 330



MGZ 330



MCZ 330

DIX 230 270 A/60% DC CO<sub>2</sub>

wire Ø 1,0 -1,2 mm 250 A/60% DC mixed gas

DIX 330 400 A/60% DC CO<sub>2</sub>

wire Ø 1,0 -1,2 mm 320 A/60% DC mixed gas



# BLACKline 304/305/306 – top quality in production.

Designed for especially high performance and maximum productivity: Thanks to the effective DINSE dual circuit water cooling system the BLACKline 304/305/306 products guarantee a high duty-cycle with up to 550 A for welding work. This allows outstanding efficiency in welding.



304

MSZ 304



MCZ 304



MFZ 304



MPZ 304



305

MSZ 305



MCZ 305



306

MSZ 306



MCZ 306

DIX 304 500 A/60% DC CO<sub>2</sub>

wire Ø 1,0 -1,6 mm 450 A/60% DC mixed gas

DIX 305/306 550 A/60% DC CO<sub>2</sub>

wire Ø 1,2 -2,0 mm 500 A/60% DC mixed gas

# An intelligent system – from start to finish.

With DINSE, all of the individual parts are well-engineered and perfectly attuned to one another – from the connectors to the accessories. Decades of user knowledge goes into every detail of our manual welding systems.



## Comfortable handles

Our various comfortable handles are renowned for their resistance to breakage, top-quality insulation, heat resistance and excellent ergonomic qualities for effortless welding.

- MS Manual welding, ergonomic and high grip, very good component accessibility, optional thumb switch on top
- MG Manual torch, unique pistol grip torch handle
- MC Manual classic, with conventional trigger switch or optional thumb switch on top, very good component accessibility
- MD Manual rotating, for fittings with quick change torch head
- MF Manual remote control, with integrated control of power sources
- MP Manual PUSH-PULL, torch handle with precision wire-feed for a variety of quick change torch heads
- MM Machine version for automated welding



## Precision measurement equipment

Precise monitoring during the welding process allows optimal setting of the parameters. The exact flow of the coolant can be determined with the aid of the flow rate meter. This allows the cooling process to be monitored to ensure sufficient cooling. The gas flow meter allows you to constantly monitor the gas flow of your equipment.

## Rugged fittings

The DINSE fittings are constantly undergoing development making them more durable. The latest generation is especially resistant to abrasion and weld spatter. At the same time, the innovative, flexible hose material ensures improved handling and effortless working. Kink protection is integrated at the connector end. This guarantees uninterrupted flow of gas and water and trouble-free wire-feed.



## Optimal connectors

The original, tried and tested DINSE connectors and Euro connectors are available for connecting the powerful DINSE wire-feeders to the manual welding fittings with gas- or water-cooling. Other versions are available upon request.



## Wire feeders

- ▶ Light, sturdy and fully isolated by plastic housing
- ▶ Powerful torque throughout the entire speed range
- ▶ Constant wire feed independently of torsion, flexure or length of the fitting – especially for PUSH-PULL drive
- ▶ Compatible with various coil sizes and all popular power sources

## Gas nozzles/gas distributors

- ▶ Gas nozzles in various lengths and diameters, corresponding to your requirements
- ▶ Rugged trapezoidal threads for ideal heat transfer
- ▶ Trouble-free changing of the gas nozzles – even after several welding applications
- ▶ Laminar gas routing without turbulence thanks to well-engineered gas distributor geometry

## Contact tips

- ▶ Perfectly fit for optimal current transfer
- ▶ Specially selected alloyed components minimize wear



## Wire guide liner

- ▶ The right liner/capillary liner for any application and any wire diameter
- ▶ Ideal protection, e.g. when there is high thermal stress or especially high demands



wire-feed	speed	welding current, max.	wire diameter Ø
DIX WD 400	1,5 - 20 m/min	500A/60% DC	0,8 - 1,6 mm