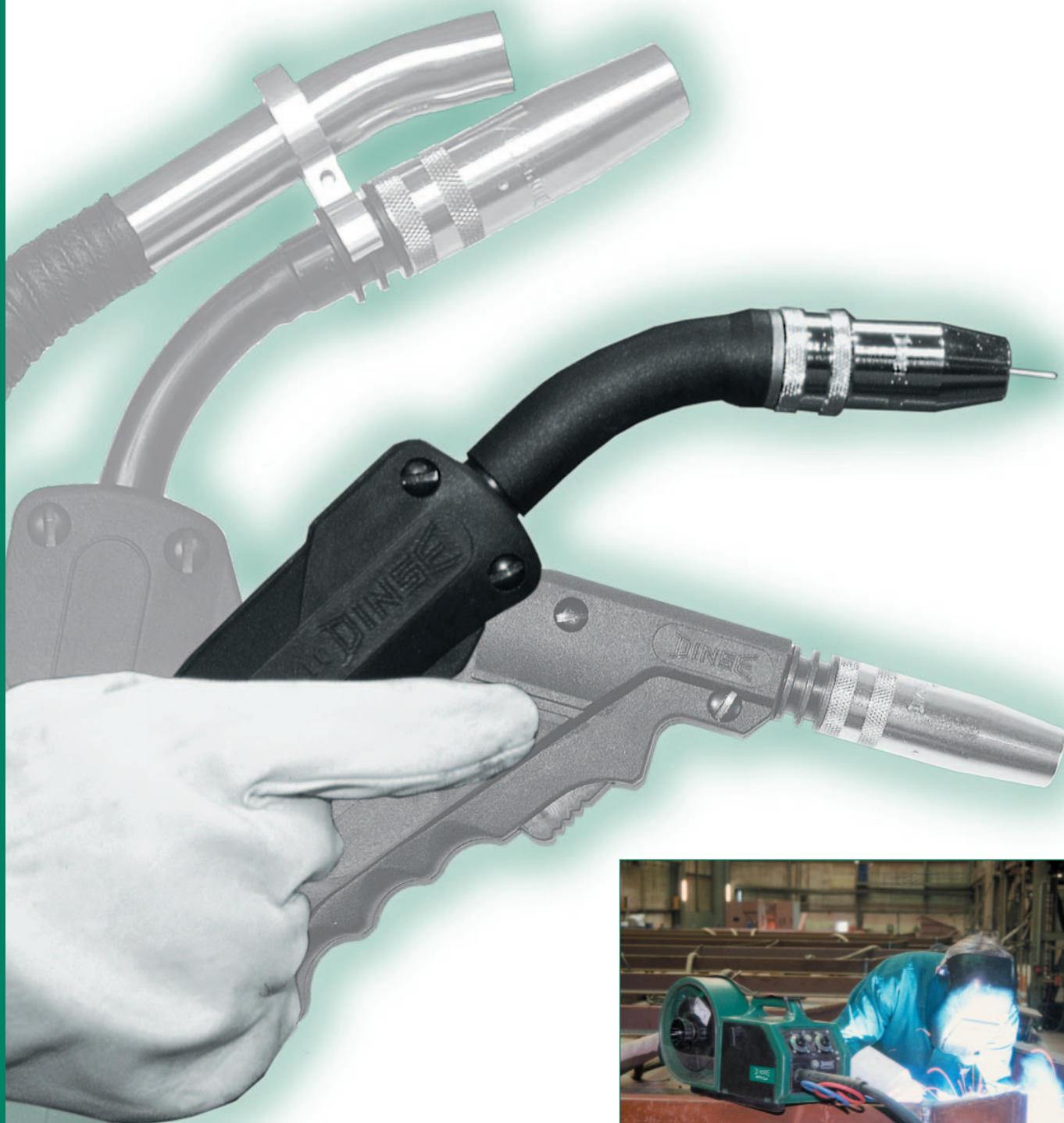


**DINSE**  
manual welding systems

**DINSE**  
WELDING TOOLS

## Welding torches wire feeds



**MIG/MAG welding  
at the highest level**



# DINSE

## manual welding torches

### Powerful, precise, durable

#### Quality in terms of technology and material - that's the key to our success

The combination of decades of user knowledge and the toughest demands in terms of manufacturing quality and endurance results in the extraordinary quality of our manual welding torches.

DINSE manual welding torches always come into use in those places where high ratings are required for stationary or mobile welding.



MG handle



#### Ergonomics as the key to high usability

Balance, weight and functionality are just as important as robust, resistant welding tools. All have a bearing on whether a welder can work to the same degree of precision in the final hours of his or her shift.

#### DINSE component system for fewer working parts

The different torch variations largely comprise only a few basic components. This reduces the need for our customers to stock up on working parts.



gas-cooled



liquid-cooled,  
integrated remote control



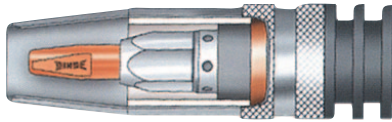
liquid-cooled, with cooling jacket,  
button at the top



### Whether cooled by liquid or gas, these systems have been perfected and proven in the field

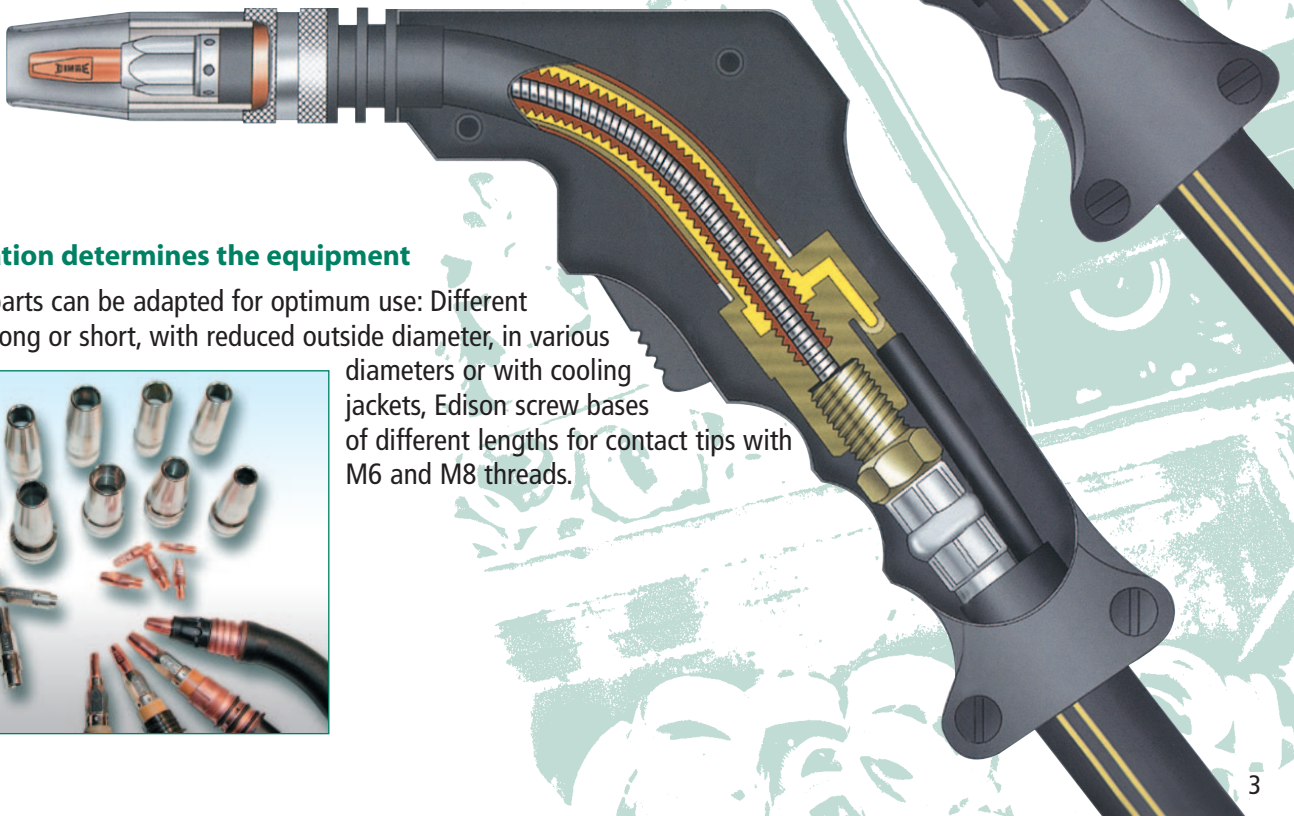
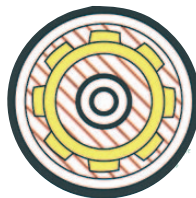
Both cooling systems draw large volumes of heat away from the welding torch as a prerequisite for significantly improved tool life.

In the case of the **DINSE twin-circuit liquid cooling system**, the cooling medium flows through the entire length of the welding torch in numerous ring-shaped, longitudinally arranged channels. The contact tip and the gas nozzle are cooled in parallel.



The **DINSE gas cooling system** directs the gas through ring-shaped, longitudinally arranged channels, over numerous transverse ribs like a cascade and on to the gas nozzle.

Basically, the **inert gas** is guided separately in DINSE welding torches. A loss of gas is thus ruled out.



MS handle

### The application determines the equipment

All working parts can be adapted for optimum use: Different gas nozzles, long or short, with reduced outside diameter, in various diameters or with cooling jackets, Edison screw bases of different lengths for contact tips with M6 and M8 threads.



# DINSE

## manual welding torches

### The system for your project

#### MIG/MAG manual welding torches

##### GAS-COOLED

DIX MG 1 - 230  
DIX MS 1 - 230

CO <sub>2</sub>	250A / 60% ED
Mixed gas	200A / 60% ED
Wire diameter	0,8 - 1,0 mm

DIX MG 2 - 330

Options: UP/DOWN key for infinitely variable adjustment of welding output, LCD Switch for calling up operating points or welding programmes, LCD

DIX MS 2 - 330

CO <sub>2</sub>	300A / 60% ED
Mixed gas	270A / 60% ED
Wire diameter	0,9 - 1,2 mm

DIX MDW 2 - 300 torches

Changeable torch heads, pivoting around 360°

DIX MWL 1-230	45°	short
DIX MWS 1-230	45°	long

CO <sub>2</sub>	250A / 60% ED
Mixed gas	200A / 60% ED
Wire diameter	0,8 - 1,0 mm

DIX MWL 2-330	45°	short
DIX MWS 2-330	45°	long

CO <sub>2</sub>	300A / 60% ED
Mixed gas	270A / 60% ED
Wire diameter	0,9 - 1,2 mm

DIX MPW 2 - 300 PUSH-PULL torches

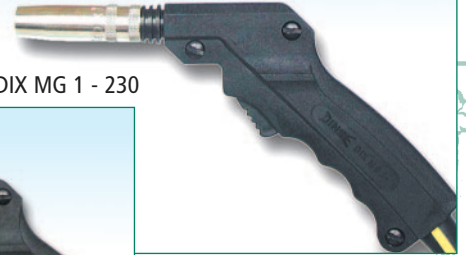
Changeable torch heads, pivoting around 360°

DIX MWL 2-330	45°	short
DIX MWS 2-330	45°	long

CO <sub>2</sub>	300A / 60% ED
Mixed gas	270A / 60% ED
Wire diameter	0,9 - 1,2 mm

Options: Integrated remote control

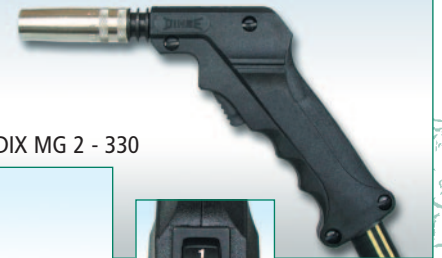
DIX MG 1 - 230



DIX MS 1 - 230



DIX MG 2 - 330



DIX MS 2 - 330



DIX MDW 2 - 300



DIX MWS 1 - 230  
DIX MWL 2 - 330



DIX MPW 2 - 300

PUSH-PULL



Integrated wire feed to convey soft wires over long distances



DIX MGZ 2 - 330



DIX MSZ 2 - 330



DIX MSZ 2 - 302



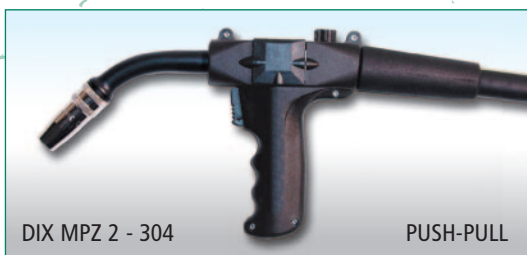
DIX MSZ 2 - 304



DIX KM 2  
cooling jacket  
with gas nozzle



DIX MSZ 2 - 306



DIX MPZ 2 - 304

PUSH-PULL

Integrated wire feed to specifically convey aluminium wires over long distances

### MIG/MAG manual welding torches LIQUID-COOLED

#### DIX MGZ 2 - 330

Options: UP/DOWN key for infinitely variable adjustment of welding output,  
LCD Switch for calling up operating points or welding programmes, LCD

#### DIX MSZ 2 - 330

CO <sub>2</sub>	400A / 60% ED
Mixed gas	320A / 60% ED
Wire diameter	0,9 - 1,2 mm

### TWIN-CIRCUIT COOLING SYSTEM

#### DIX MSZ 2 - 302

CO <sub>2</sub>	450A / 60% ED
Mixed gas	400A / 60% ED
Wire diameter	0,8 - 1,2 mm

#### DIX MSZ 2 - 304

CO <sub>2</sub>	500A / 60% ED
Mixed gas	450A / 60% ED
Wire diameter	1,0 - 1,6 mm

#### DIX MSZ 2 - 306

Option: DIX KM2 cooling jacket

CO <sub>2</sub>	550A / 60% ED
Mixed gas	500A / 60% ED
Wire diameter	1,2 - 2,0 mm

Options: UP/DOWN key for infinitely variable adjustment of welding output,  
LCD Switch for calling up operating points or welding programmes, LCD

### Standard lengths

for welding torches	3.0 and 4.0 m
for PUSH-PULL	4.0 and 8.0 m

**Standard angle** 45° (others on request)

**Button at the top** on request

#### DIX MPZ 2 - 304 PUSH-PULL

CO <sub>2</sub>	500A / 60% ED
Mixed gas	450A / 60% ED
Wire diameter	1,0 - 1,6 mm

Options: Integrated remote control



# DINSE

## fume extraction unit

### Protection for employees and the environment

By using a fume extraction unit, you are taking responsibility for the health of your staff. A good general atmosphere at work results from the healthy working climate that such workers' protection provides.

#### Complete systems with integrated extraction and torches with retrofit external extraction

- Harmful substances are directly extracted at the point of origin
- High efficiency through easy and mobile handling
- Optimum capture of welding smoke using pivoted suction hose
- DIX ZA EX retrofit kit for simple assembly on torch head

#### Systems for external fume extraction

DIX ZA 300 EX with bypass  
DIX ZA 301 EX  
Retrofitting-sets available for torch types 230, 330 and 304

#### Complete systems

##### Welding torches with integrated fume extraction

DIX MR 1 - 250	gas-cooled
CO <sub>2</sub>	250A / 60% ED
Mixed gas	200A / 60% ED
Wire diameter	0,8 - 1,0 mm
DIX MR 2 - 350	gas-cooled
CO <sub>2</sub>	300A / 60% ED
Mixed gas	250A / 60% ED
Wire diameter	0,9 - 1,2 mm
DIX MRZ 2 - 350	liquid-cooled
CO <sub>2</sub>	350A / 60% ED
Mixed gas	300A / 60% ED
Wire diameter	0,9 - 1,2 mm

#### Conversion torch for simple replacement of the housing.

DIX ZA MRSZ 304 liquid-cooled



DIX MS 2 - 330 with  
DIX ZA 300 EX



DIX MR 1 - 250



DIX ZA MRSZ 304

# DINSE

## manual wire feed units

# DINSE

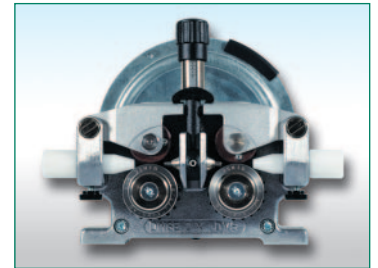
WELDING TOOLS

### For the heaviest usage and a long service life



The robust DINSE wire feed units will work under extreme conditions for many years in MIG/MAG welding, in mobile applications specifically, for example in plant engineering and tank construction, shipbuilding and car manufacture.

The consistent feeding throughput of wire guarantees high precision in standard applications as well as in PUSH-PULL mode.



Precise wire feed as a result of powerful DINSE disk armature motor

### The system offers all the advantages

- Lightweight, robust and fully insulated plastic casing
- Various spool diameters
- Long service life without maintenance intervals as a result of the disk armature motor
- Constant torque over the entire speed range
- Compatible with all common power sources

### Applications

- Solid wires and cored wires
- Unalloyed and low-alloy steels
- High-alloy steels
- Alloys of aluminium, magnesium, copper and nickel
- Small through to large material thicknesses

### DIX WD 400 wire feed Technical data (IEC 60974 - 5)

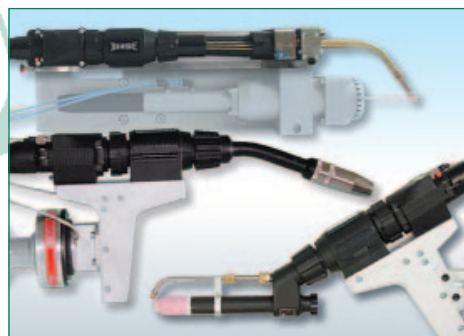
Wire feed	
Speed	0 - 20 m/min
Max. welding current	500A / 60% ED
Max. open-circuit voltage	U <sub>0</sub> = 113 V
System of protection	IP 23
Dimensions (L/B/H)	275/220/250 mm
Weight	7,2 kg
Spool housing	DIX WDS 200 DIX WDS 300



## DINSE welding systems



**DINSE manual welding torches**



**DINSE robot and  
automated welding systems**



**DINSE wire feed units for  
manual welding systems**



**DINSE wire feed units for  
robot and automation use**



**DINSE tools, cable  
connectors, electrode  
holders, earth clamps,  
magnetic earths**



**DINSE robot and  
automation components**

**Take the lead with DINSE.**

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