

PRODUCT CATALOGUE

2019 | LASER



DINSE YOUR STRONG PARTNER FOR THE ENTIRE WELDING PROCESS

LIVE TO WELD. For us, this is more than just a „fancy slogan“: Our 200 employees have been passionate about welding for more than 60 years.

Would you like to know what DINSE passion looks like? There is, for example, our stockist who personally assembles each wear part for your order. Or the production worker who manually bends your automatic torch to the desired angle. But also the colleague in the purchasing department who daily searches for the highest quality raw materials for our products and the constructing engineer who puts all his experience into developing new systems.

IN SHORT:
WE GIVE OUR BEST EVERY DAY TO GIVE
YOU THE PERFECT WELDING RESULT

With locations throughout Germany and the world, we are one of the leading developers and manufacturers of systems for manual, robotic and automatic welding.



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OVERVIEW



**DINSE for
laser applications**

01

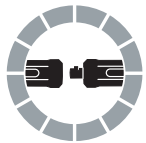
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Torch heads with non separable torch set
Front drives
Torch brackets
Front drive brackets
Wire feeders
Hot wire power sources
Colling moduls
Remote panels



Tools + Accessories

02

Accessories
Tools
Measure unit



Welding cable couplings

03

Sockets and plugs
Mounting sockets and mounting plugs
Reducers
Cable joint sockets and cable joint plugs
Coding plug

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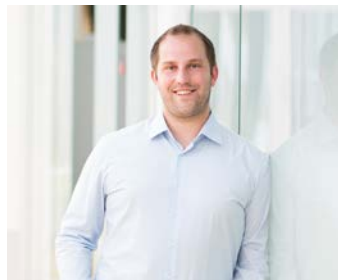
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ACADEMY

At our training facilities, the welding torches are not the only thing that heats up – so does your career: you can further your knowledge through seminars on various topics based around welding with DINSE.

Get a detailed view of the DINSE products in our „product experience world“ for manual and automated welding. Our team of instructors communicate theoretical basics to you in small groups at our training facilities.



What you learn will then be turned to practical use at our application centre. All participants can demonstrate what they are capable of at fully equipped manual workstations. Industrial robots are available for any training focusing on automation. Of course, every seminar is accompanied by our experts. There is always the possibility to ask questions, also when thinking outside the box.

ARE YOU INTERESTED?

You can find the entire training programme on the academy website at www.dinse.eu/akademie or simply send an email to akademie@dinse.eu to request your personal printed version.

Of course, our facilitator Sebastian Schack is also happy to answer any questions regarding our academy: +49-(0)40-658 75 – 242.



SERVICE

PREMIUM SERVICES FOR YOUR DINSE SYSTEM.

Service according to DINSE includes all support activities related to your laser welding application, for example:

- ▶ Technical application support
- ▶ Commissioning of your system
- ▶ Fault analysis and repair
- ▶ Immediate technical assistance by phone
- ▶ Maintaining of our high standards through our in-house quality control system

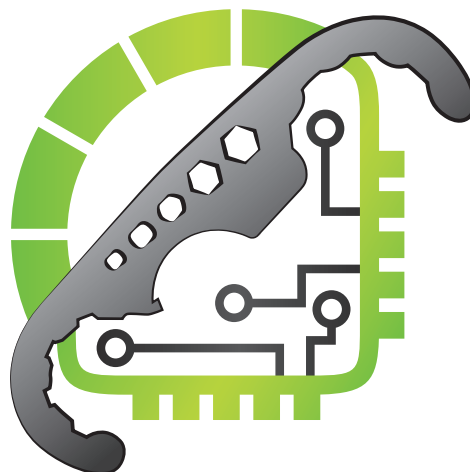
Our team of in-house specialists and local partners provides quick, personal and competent assistance: We are your experts for the entire welding process.

Disturbance or incidence?

Our service team will make sure that you get exactly the support you need to be able to produce flawlessly again as quickly as possible.

SOUNDS INTERESTING?

Our colleagues will be happy to assist you at service@dinse.eu or on: +49-(0)40-658 75 – 156.



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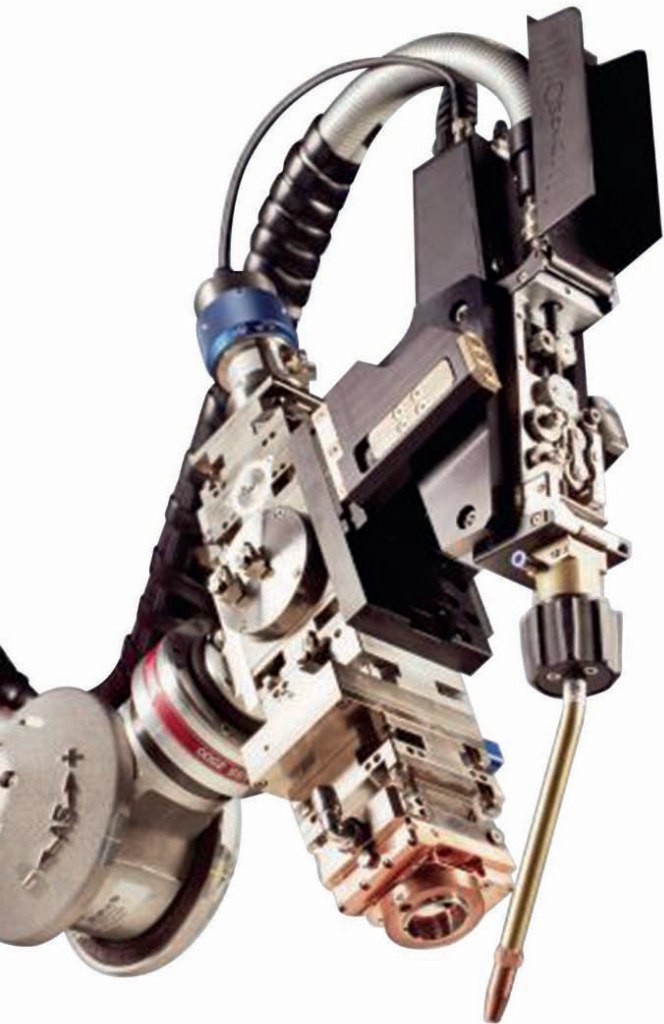
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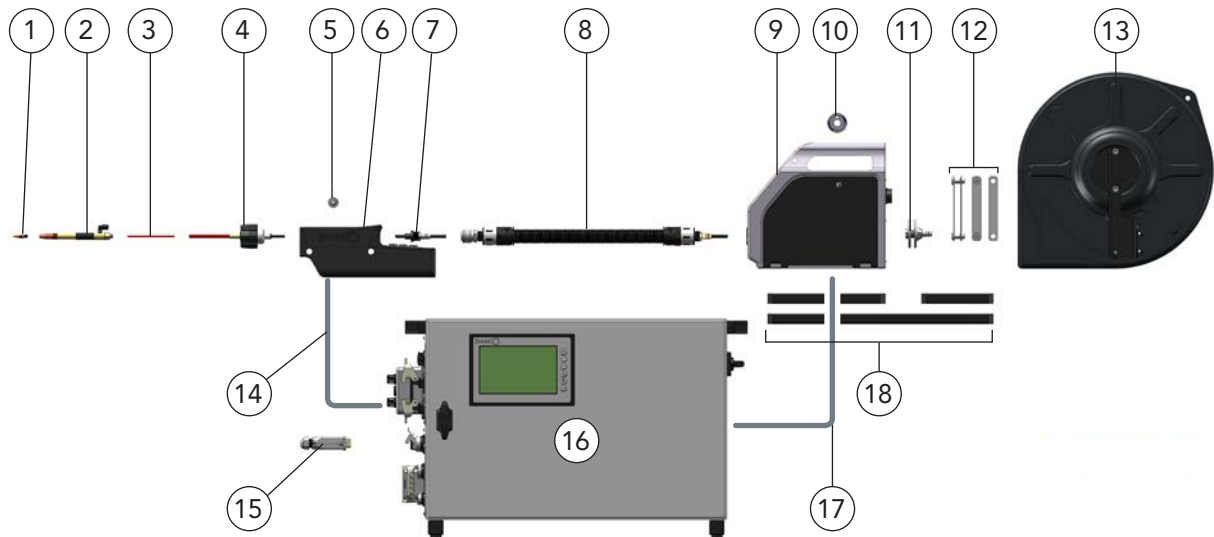
DINSE FOR LASER APPLICATIONS

01



Examples of wire feeder systems

Wire feeder system with control for Profinet-Bus



INFORMATION The example systems shown here and on the following pages are modular and can be individually adapted to your needs. Your DINSE expert will be happy to advise you.

Description	Part name	Part number
1 Contact tip, page 19	DIX 3-2-1.6 /KA	629030023
2 Torch head, page 18	DIX LH 100 SW	686111001
3 Capillary liner, red 2.5 m, page 88	DIX DSK 3- 2.5	623002525
4 Adapter set, page 45	DIX FD100 AS-CW	7430030050
5 Profile roll set, for FD 100 LS, Aluminium wire Ø 1.6 mm, page 44	DIX FD100 RS-16A	7430030097
6 Drive unit, page 42	DIX FD100 LS	7430030003
7 Connection set, page 45	DIX FD100 CS-SF	7430030060
8 Supraliner, page 48	DIX VLSL 201-7	629214070
9 Wire feeder, page 52	DIX WD 300 FD	745030000
10 Drive roll, for WD 300 FD, Aluminium wire Ø 1.6 mm, page 55	DIX DV-04-16/16A	719041160
11 Connection set	DIX SF-DV	629201407
12 Connection set, page 53	DIX WDV 100	738010000
13 Spool holder, page 56	DIX WDS 300	730530000
14 Connection cable, el. connection of drive unit and control	DIX WDVK 300-7 DIX WDVK 300-10	738090046 738090015
15 Power plug	DIX WDNS 400	738090080
16 Control, page 57	DIX FDE-PN100L	745000001
17 Connection cable, el. connection of wire feeder and control	DIX WDVK 303-3 DIX WDVK 303-5	738090054 738090056
18 Slide bar set, page 53	DIX WDG 300	738035300
19 Quick release system	DIX WDX 108-5	738120050
Scale, for wire feeder WD 300 FD, not shown	DIX DV-01 P	P719010DA001
Wire end set, not shown	DIX WDX 302	737030105
Monitoring-USB, not shown	DIX FDE-100 4.2	745000081

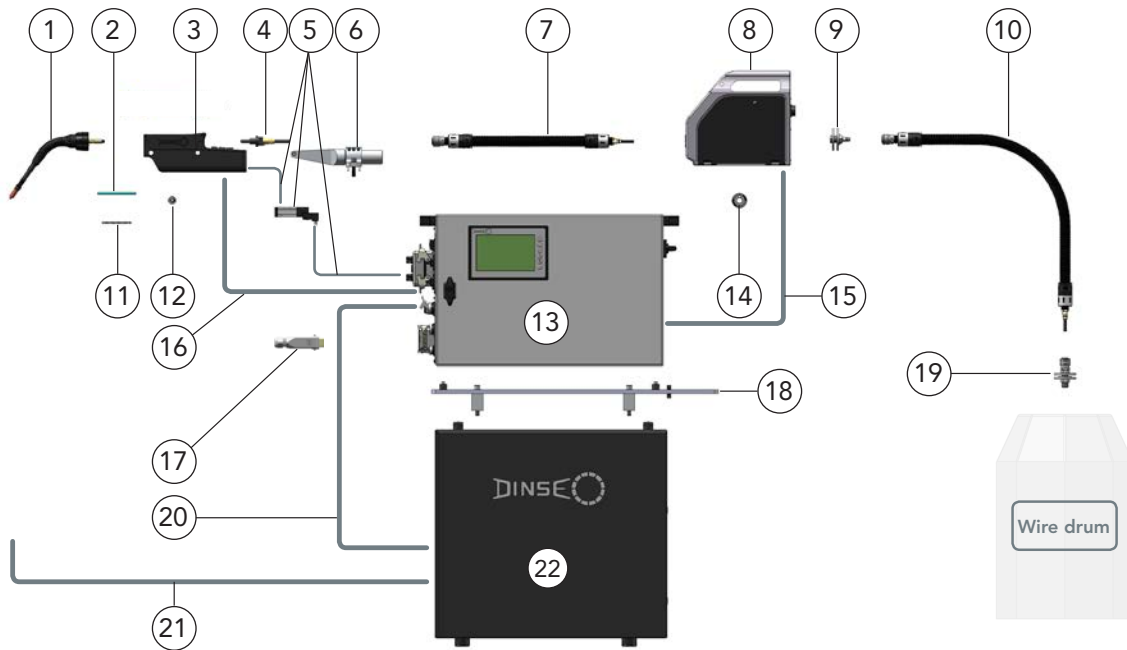
System equipment for aluminium welding wire, diameter 1.6 mm.

Examples of wire feeder systems

Hot wire feeder system with analog control



1



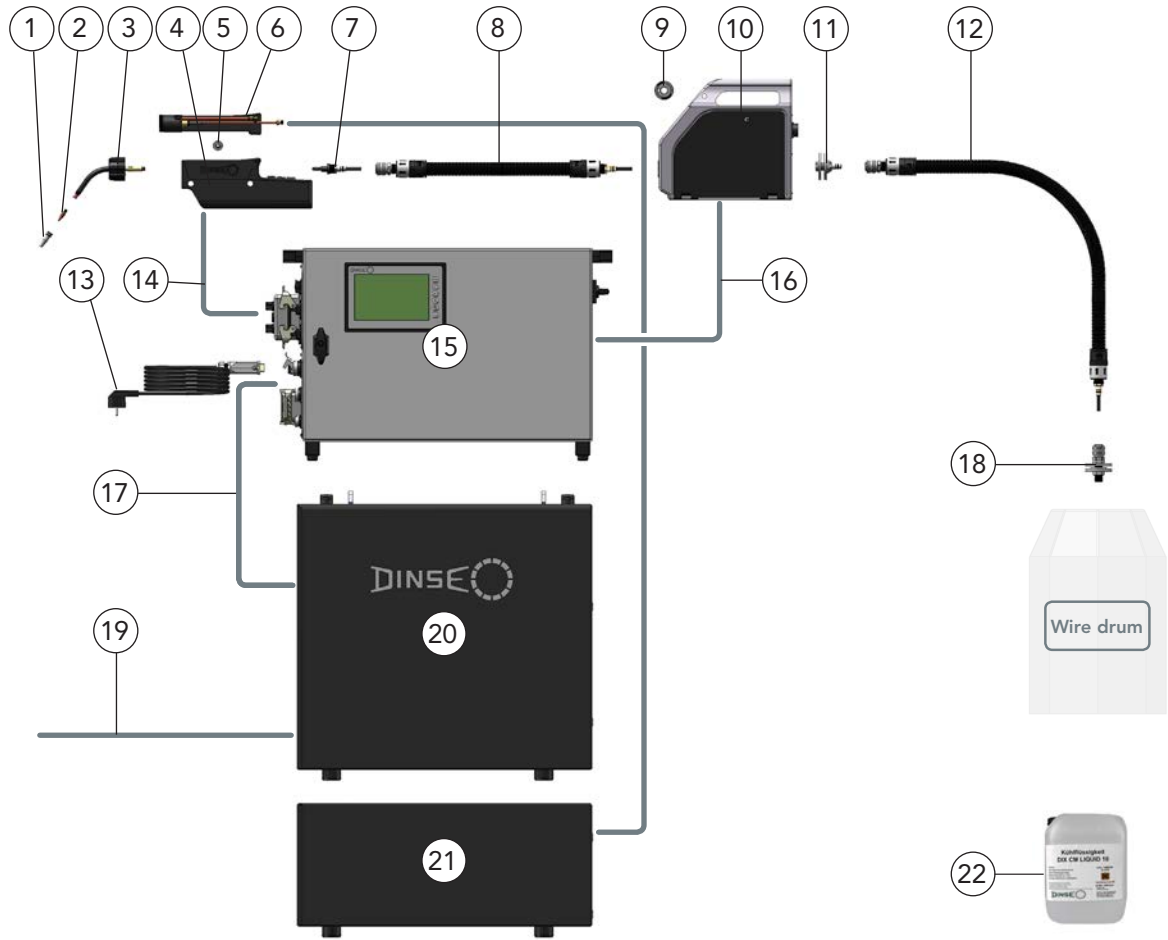
Description	Part name	Part number
1 Torch set, 0.7 m, page 28	DIX LHZ 100-0.7 SATZ/019	630167026
2 Capillary liner, turquoise 2.5 m, page 88	DIX DSK 2- 2.5	623002025
3 Drive unit, page 42	DIX FD100 LS-WB	7430030004
4 Connection set, page 45	DIX FD100 CS-SF	7430030060
5 Valve set, with 2.0 m control cable and 0.5 m compressed air hose	DIX FD100 VS	7430030065
6 Front drive bracket, page 41	DIX FDH100	683500108
7 Supraliner, page 48	DIX VLSL 201-8	629214080
8 Wire feeder, Seite 54	DIX WD 300 FD	745030000
9 Connection set	DIX SF-DV	629201407
10 Supraliner, page 48	DIX VLSL 201-3	629214030
11 Liner, 2.5 m, page 87	DIX DS 4/2.2- 2.5	623000325
12 Profile roll set, for FD 100 LS-WB, steel wire Ø 1.0 mm, page 44	DIX FD100 RS-10S	7430030091
13 Control, page 57	DIX FDE-100L	745000000
14 Drive roll, for WD 300 FD, Steel wire Ø 1.0 mm, page 55	DIX DV-04-10/10T	719042100
15 Connection cable, el. connection of wire feeder and control	DIX WDVK 303-10	738090061
16 Connection cable, el. connection of drive unit and control	DIX WDVK 300-10	738090015
17 Power plug	DIX WDNS 400	738090080
18 Retaining plate set	DIX FDE 100 HS-PI	7450000101
19 Connection set wire drum	DIX WB-CS	738100011
20 CANopen cable, bus cable for connection of control and power source	DIX WDVK 270PI-1	738090089
21 Ground cable 70 mm²	DIX GL-10/70	7410087010
22 Power source, hot wire, page 67	DIX PI 270-HW	7410010273
Wire end set, installed in wire feeder, not shown	DIX WDX 308	737030175
Connection cable, installed in control, not shown	DIX FDKV 270 PI	737060023
Interface modul, interface board for robot communication module, not shown	DIX INT SBX	7410081202
Bus modul, CANOpen for robot connection (AnyBus), not shown	DIX INT CANopen	7410081205
Trolley/2 traverses, not shown	DIX FW 4	7410081104
Scale, not shown	DIX DV-01 P	P719010DA001
OPTION: Software license, to mirror control screen to PC		

System equipment for steel welding wire, diameter 1.0 mm.



Examples of wire feeder systems

Liquid cooled hot wire feeder system with control for Ethernet-IP



Description	Part name	Part number
1 Gas nozzle, page 23	DIX 1-2-010 LK	629010001P
2 Contact tip, page 23	DIX 3-2-1.2 /KA	P629030NO005
3 Torch neck, page 22	DIX LKTZ 50 U/55°	686950002
4 Drive unit, page 42	DIX FD100 LS	7430030003
5 Profile roll set, for FD 100 LS-WB, steel wire Ø 1.2 mm, page 44	DIX FD100 RS-12S	7430030092
6 Water set, page 43	DIX FD100 WS-7	7430030135
7 Connection set, page 45	DIX FD 100 CS-SF	7430030060
8 Supraliner, page 48	DIX VLSL 201-8	629214080
9 Drive roll, for WD 300 FD, steel wire Ø 1.2 mm, page 55	DIX DV-04-12/12T	719042120
10 Wire feeder, page 52	DIX WD 300 FD	745030000
11 Connection set	DIX SF-DV	629201407
12 Supraliner, page 48	DIX VLSL 201-6	629214060
13 Power cable	DIX WDNK 230A-3	738090051
14 Connection cable, el. connection of drive unit and control	DIX WDVK 300-10	738090015
15 Control, page 57	DIX FDE-EN-IP 100L	745000124
16 Connection cable, el. connection of wire feeder and control	DIX WDVK 303-3	738090054
17 CANopen cable, bus cable for connection of control and power source	DIX WDVK 270PI-5	738090063
18 Connection set wire drum	DIX WB-CS	738100011
19 Ground cable 70 mm ²	DIX GL-5/70	7410087005
20 Power source, hot wire, page 67	DIX PI 270-HW	7410010273
21 Cooling modul, page 74	DIX CM 1500/5 CAN	7410020102
22 Cooling liquid, 10 Liter	DIX CM LIQUID 10L	7410082100
Scale, not shown	DIX DV-01 P	P719010DA001
Interface modul, interface board for robot communication module, not shown	DIX INT SBX	7410081202
Bus modul, CANOpen for robot connection (AnyBus), not shown	DIX INT CANopen	7410081205

System equipment for steel welding wire, diameter 1.2 mm.

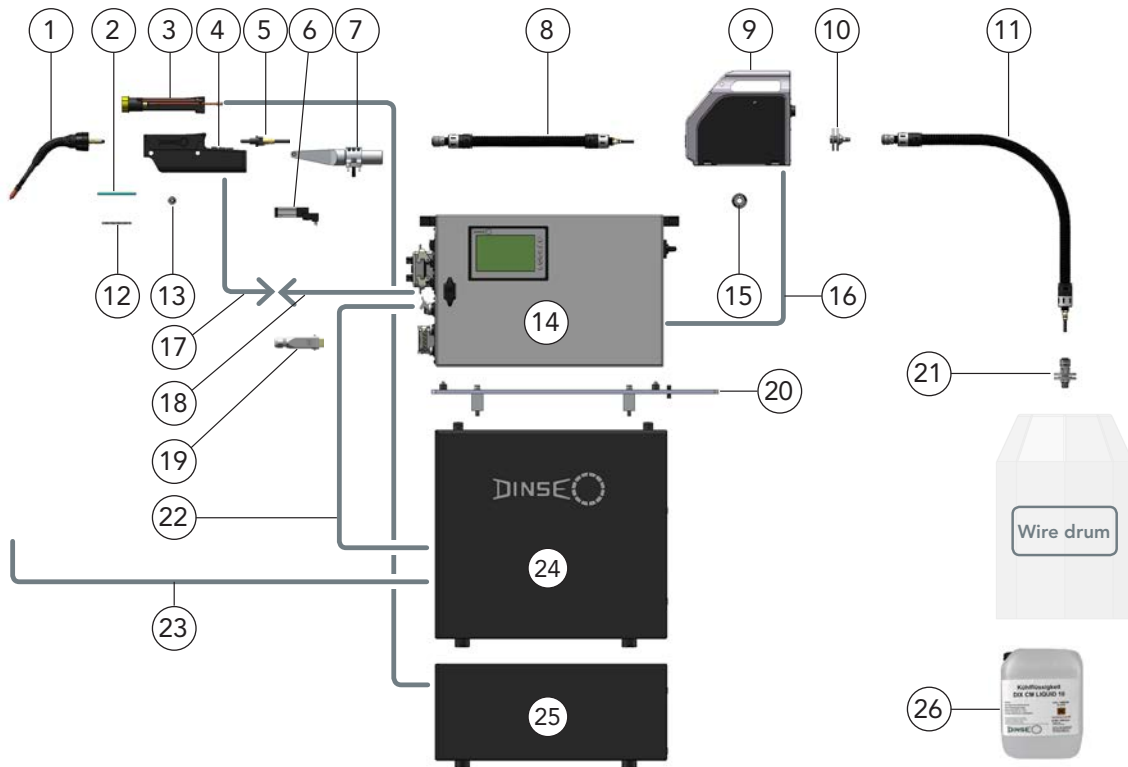


Examples of wire feeder systems

Liquid cooled hot wire feeder system with control for Profinet-Bus



1



	Description	Part name	Part number
1	Torch set, 0.7 m, page 28	DIX LHZ 100-0.7 SATZ/019	630167026
2	Capillary liner, turquoise 2.5 m, page 88	DIX DSK 2- 2.5	623002025
3	Water set, page 43	DIX FD100 WS-20	7430030188
4	Drive unit, page 42	DIX FD100 LS-WB	7430030004
5	Connection set, page 45	DIX FD100 CS-SF	7430030060
6	Valve set, with 2.0 m control cable and 0.5 m compressed air hose	DIX FD100 VS	7430030065
7	Front drive bracket, page 41	DIX FDH100	683500108
8	Supraliner, page 48	DIX VLSL 201-8	629214080
9	Wire feeder, page 52	DIX WD 300 FD	745030000
10	Connection set	DIX SF-DV	629201407
11	Supraliner, page 48	DIX VLSL 201-3	629214030
12	Liner, 2.5 m, page 87	DIX DS 4/2.2- 2.5	623000325
13	Profile roll set, for FD 100 LS-WB, steel wire Ø 1.0 mm, page 44	DIX FD100 RS-10S	7430030091
14	Control, page 57	DIX FDE-PN-100L	745000001
15	Drive roll, for WD 300 FD, steel wire Ø 1.0 mm, page 55	DIX DV-04-10/10T	719042100
16	Connection cable, el. connection of wire feeder and control	DIX WDVK 303-10	738090061
17	Connection cable, el. connection of drive unit and control	DIX WDVK 300-10	738090015
18	Extension cord, for connection cable WDVK 300-10 (Pos. 17)	DIX WDL 300-10	738090088
19	Power plug	DIX WDNS 400	738090080
20	Retaining plate set	DIX FDE 100 HS-PI	7450000101
21	Connection set wire drum	DIX WB-CS	738100011
22	CANOpen cable, bus cable for connection of control and power source	DIX WDVK 270PI-1	738090089
23	Ground cable 70 mm ²	DIX GL-10/70	7410087010
24	Power source, hot wire, page 67	DIX PI 270-HW	7410010273
25	Cooling modul, page 72	DIX CM 1200/5	7410020101
26	Cooling liquid, 10 litre	DIX CM LIQUID 10L	7410082100
	Wire end set, installed in wire feeder, not shown	DIX WDX 308	737030175
	Connection cable, installed in control, not shown	DIX FDK 270 PI	737060023
	Interface modul, interface board for robot communication module, not shown	DIX INT SBX	7410081202
	Bus modul, CANOpen for robot connection (AnyBus), not shown	DIX INT CANopen	7410081205
	Trolley/2 traverses, not shown	DIX FW 4	7410081104
	Scale, not shown	DIX DV-01 P	P719010DA001
	OPTION: Software license, to mirror control screen to PC		

LASER automation

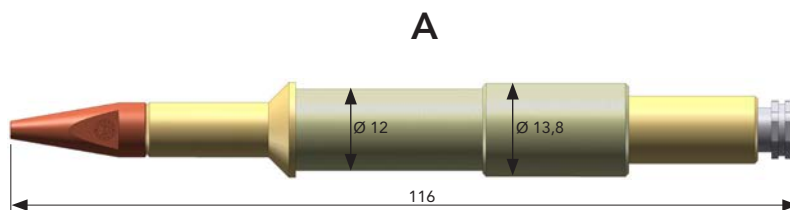




Torch heads DIX LH 100 AW

1

LASER automation



Properties

- Small design
- Low weight
- Precise wire guidance

Application

- Aluminium alloys
- Small to medium material thickness
- Without or external shield gas

Technical data (DIN EN 60 974-7):

Wire diameter: 0.6 - 1.6 mm

Description	Dimensions	Part name	Part number
A Torch head		DIX LH 100 AW	686111002

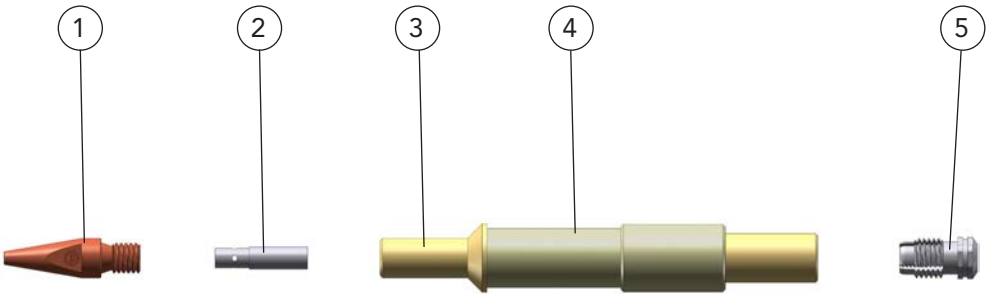
- Standard equipment for aluminium welding wire:
Distance sleeve DIX DSH 3/001, Insulating sleeve DIX IH 100 AW.

Hint:

Liners, capillary liners and service service tools in chapter TOOLS and ACCESSORIES.



Torch head DIX LH 100 AW



Description		Part name		Part number
1	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
2	Distance sleeve		DIX DSH 3/001	638100005
3	Torch neck, complete, 0°		DIX PE 100 AW	686950160
4	Insulating sleeve		DIX IH 100 AW	686950159
5	Clamping sleeve		DIX SH 270	629270270

► Other diameter on request.

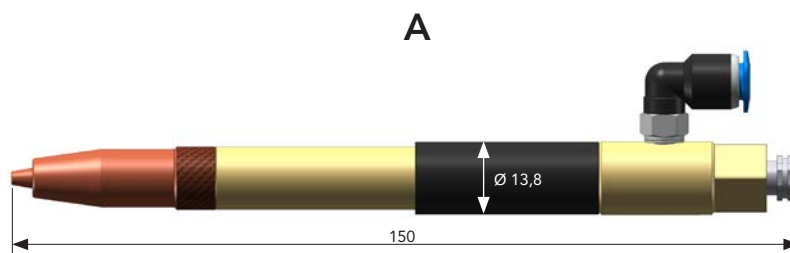




Torch heads gas cooled DIX LH 100 SW

1

LASER automation



Properties

- Small design
- Low weight
- Precise wire guidance

Application

- Non- and low alloyed steels
- High alloyed steels
- Small to medium material thickness

Technical data (DIN EN 60 974-7):

Gas nozzle mounting Metric thread
Wire diameter: 0.6 - 1.6 mm

Description	Dimensions	Part name	Part number
A Torch head		DIX LH 100 SW	686111001

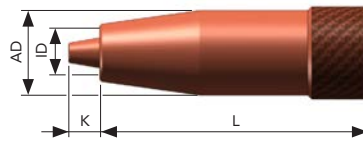
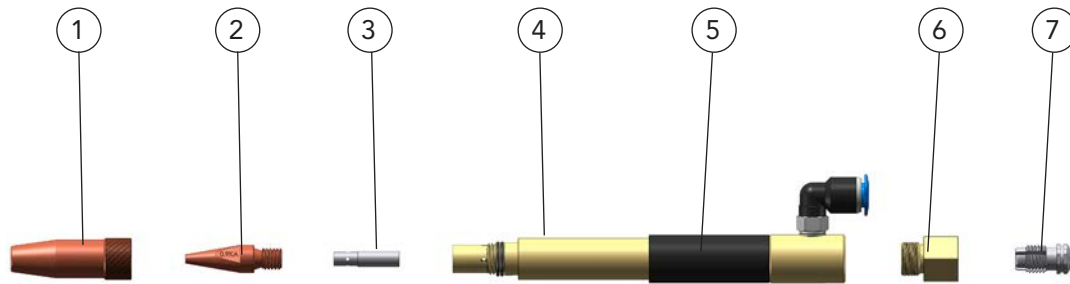
- Standard equipment for steel welding wire:
Gas nozzle DIX 1-2-011/5.5 diameter 5.5 mm, distance sleeve DIX DSH 3/001, insulating sleeve DIX IH 100 SW.

Hint:

Liners, capillary liners and service service tools in chapter TOOLS and ACCESSORIES.



Torch head DIX LH 100 SW



Description	Dimensions (mm)	Part name	Part number
1 Gas nozzle	L 35/AD 11/ID 5.5/K 4	DIX 1-2-011/5.5	629010008
2 Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3 Distance sleeve		DIX DSH 3/001	638100005
4 Torch neck, complete, 0°		DIX PE 100 SW	686950138
5 Insulating sleeve		DIX IH 100 SW	686950155
6 Adapter		DIX AD 100 SW	68695014510
7 Clamping sleeve		DIX SH 270	629270270

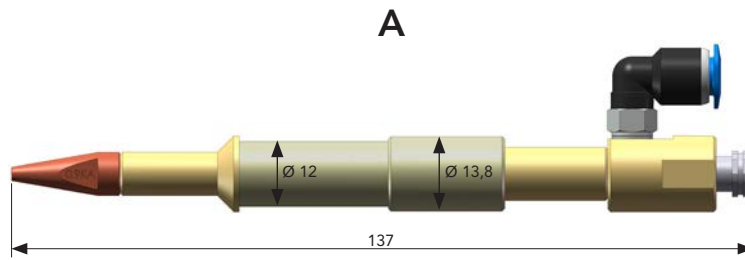
► Other diameter on request.



Torch heads gas cooled DIX LH 100 SB

1

LASER automation



Properties

- Small design
- Low weight
- Precise wire guidance
- Without gas nozzle
- Shield gas flushes around the welding wire directly

Application

- Brazing
- Non- and low alloyed steels
- High alloyed steels
- Small to medium material thickness

Technical data (DIN EN 60 974-7):

Wire diameter: 0.6 - 1.6 mm

Description	Dimensions	Part name	Part number
A Torch head		DIX LH 100 SB	686111003

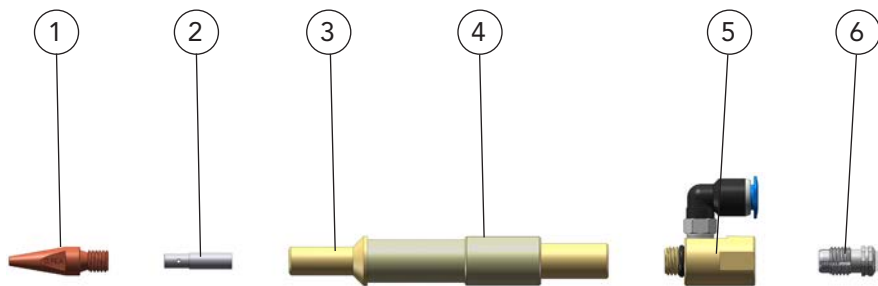
- Standard equipment for Steel welding wire:
Distance sleeve DIX DSH 3/001, insulating sleeve DIX IH 100 AW.

Hint:

Liners, capillary liners and service service tools in chapter TOOLS and ACCESSORIES.



Torch head DIX LH 100 SB



Description		Part name		Part number
1	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
2	Distance sleeve		DIX DSH 3/001	638100005
3	Torch neck, complete, 0°		DIX PE 100 AW	686950160
4	Insulating sleeve		DIX IH 100 AW	686950159
5	Adapter, complete For gas connection		DIX AD 100 SB	686950161
6	Clamping sleeve		DIX SH 270	629270270

► Other diameter on request.

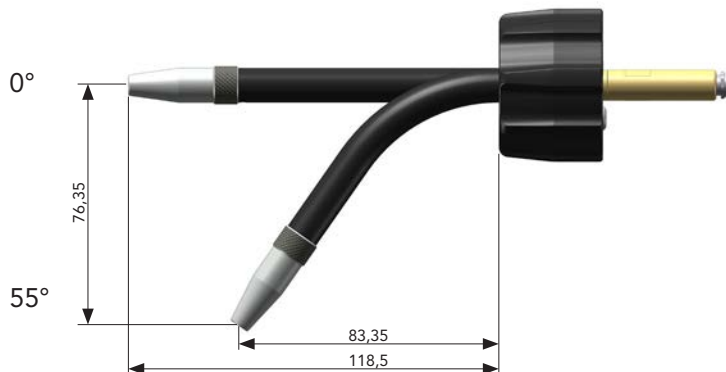


Torch heads liquid cooled DIX LKTZ 50 U/55° /L/55° / R/55° /0°

1

LASER automation

A
LKTZ 50 /0°



Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Precise wire guidance
- ▶ Left, right and down alignment

B
LKTZ 50 L/55°



C
LKTZ 50 U/55°



D
LKTZ 50 R/55°



Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminum-, magnesium-, copper- and nickel alloys
- ▶ Small to medium material thickness

Technical data (DIN EN 60 974-7):

Single - circuit cooling system
Gas nozzle mounting Metric thread
Wire diameter: 0.6 - 1.6 mm

Description	Dimensions	Part name	Part number
A Torch head	0°	DIX LKTZ 50 /0°	
B Torch head	55°	DIX LKTZ 50 L/55°	
C Torch head	55°	DIX LKTZ 50 U/55°	
D Torch head	55°	DIX LKTZ 50 R/55°	

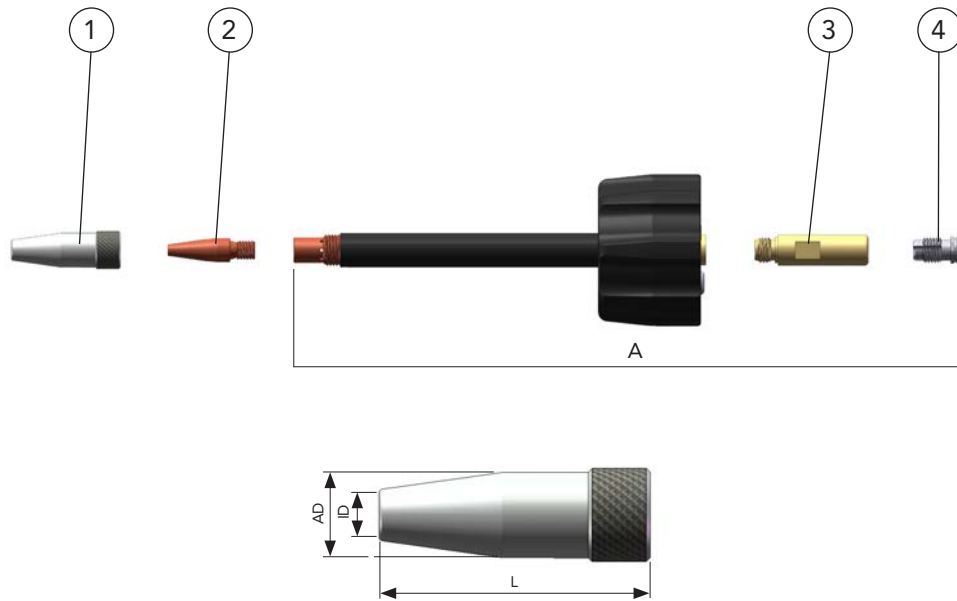
- ▶ Standard equipment for wire diameter x.x mm steel, gas nozzle DIX 1-2-0xx KA diameter XX mm, contact tip DIX 3-2-x.x /KA, Use the hook spanner DIX SLAT 4 to tighten torch heads.

Hint:

Liners, capillary liners and service service tools in chapter TOOLS and ACCESSORIES.



Torch heads DIX LKTZ 50 U/55° /L/55° / R/55° /0°



Description	Dimensions (mm)	Part name	Part number
1 Gas nozzle PEEK*	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
Gas nozzle	L 35/AD 11/ID 5,5	DIX 1-2-011 LK	629010002P
Gas nozzle**	L 30/AD 16.2/ID 11.2	DIX 1-2-012 LK	629010004
Gas nozzle	L 33/AD 12/ID 9,5	DIX 1-2-014 LK	629010006
2 Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
A Torch neck	0°	DIX LKTZ 50 /0°	686950001
Torch neck	55°	DIX LKTZ 50 L/55°	686950003
Torch neck	55°	DIX LKTZ 50 U/55°	686950002
Torch neck	55°	DIX LKTZ 50 R/55°	686950004
3 Connecting piece, MEPTZ		DIX MEPS 300/500	6390665000
4 Clamping sleeve		DIX SH 270	629270270

* Heat resistant plastic gas nozzle

** Ceramic gas nozzle



Torch sets liquid cooled DIX LHZ 100-x SATZ(/004)(/007)

Properties

- Flexible supply hose
- No gas loss due to separate shield gas feed
- One supply hose, 3 different torch heads



Application

- Non- and low alloyed steels
- High alloyed steels
- Copper alloyed for the MSG brazing
- Small to medium material thickness

Technical data (DIN EN 60 974-7):

Wire diameter: 0.6 - 1.6 mm



Description	Dimensions (mm)	Part name	Part number
1 Torch set with torch head	0.50 m	DIX LHZ 100-0.5 SATZ	630167004
Torch set with torch head	0.70 m	DIX LHZ 100-0.7 SATZ	630167003
Torch set with torch head	0.80 m	DIX LHZ 100-0.8 SATZ	630167002
Torch set with torch head	1.50 m	DIX LHZ 100-1.5 SATZ	630167001
Torch set with torch head	0.70 m	DIX LHZ 100-0.7 SATZ/004	630167016
Torch set with torch head	0.70 m	DIX LHZ 100-0.7 SATZ/007	
2 Liner	ø 2.2 mm/0.5 m	DIX DS 4/2.2-0.5	623000305
Liner	ø 2.2 mm/1.0 m	DIX DS 4/2.2-1.0	623000310
Liner	ø 2.2 mm/2.5 m	DIX DS 4/2.2-2.5	623000325

Hint:

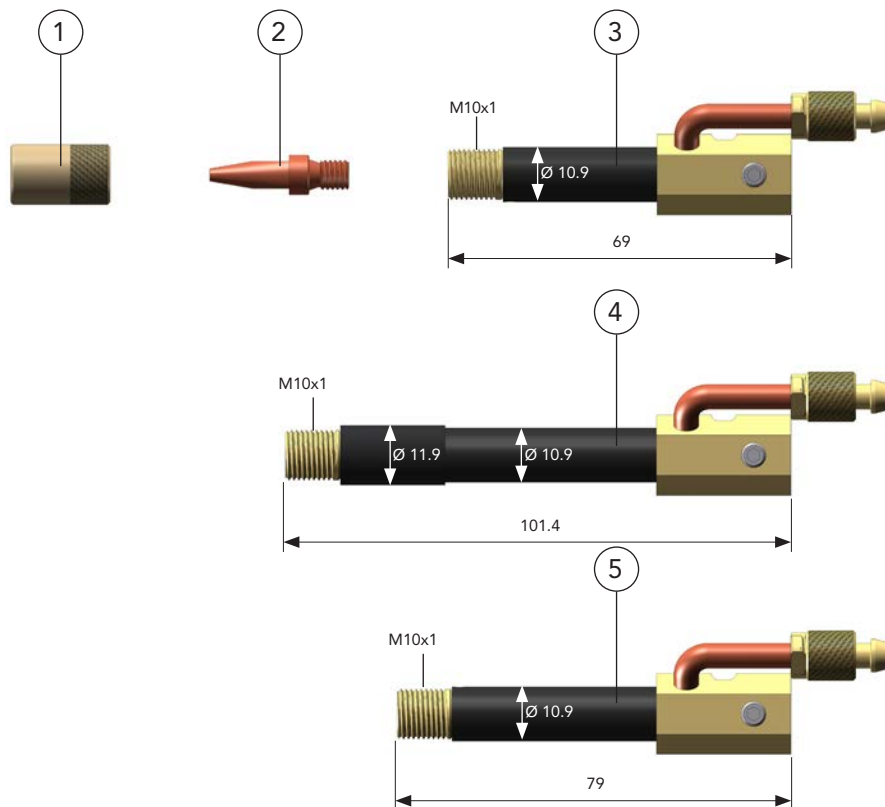
Additional liners, wire guide capillaries and service tools can be found in the chapter TOOLS and ACCESSORIES.

- Standard equipment for wire diameter 1.2 mm steel:
Gas nozzle DIX 1-2-009 LK diameter 5.5 mm, contact tip DIX 3-2-1.2 /KA.



Torch sets LHZ 100-x SATZ

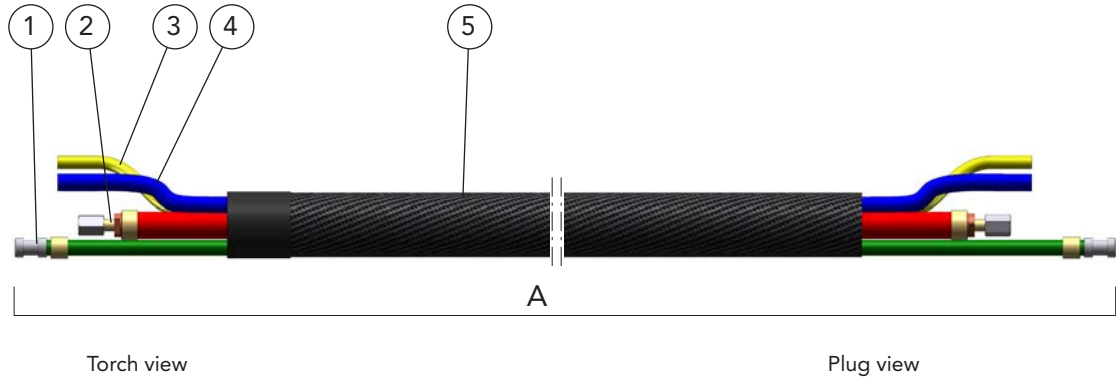
Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle PEEK*	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/003	686950115
4	Torch neck	0°	DIX LHZ 100/004	686950120
5	Torch neck	0°	DIX LHZ 100/007	686950126

* Heat resistant plastic gas nozzle

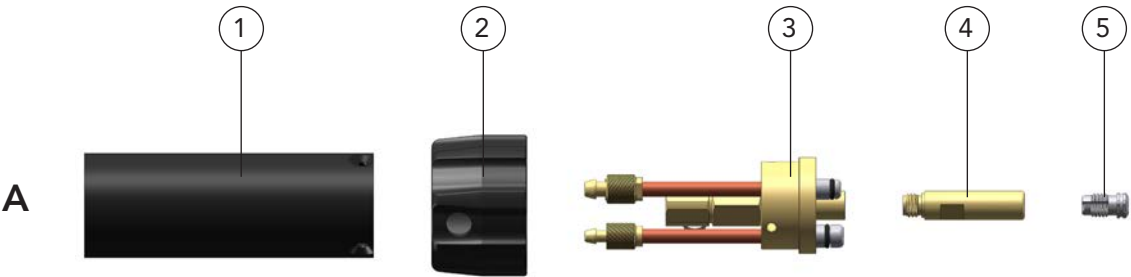
Torch sets LHZ 100-x SATZ Supply hose



Description	Part name	Part number
A Supply hose	DIX VL 100-__ LHZ	63216700__
1 Conduit hose	DIX VLM 2011-__	6292018__
2 Combi cable	DIX 22-2-303-__	629221__
3 Gas hose	DIX VL 180-__	639186001__
4 Water hose blue	DIX VL 190-__	639196001__
5 Cover hose set	DIX VL 230-__	639236001__

-- Here you define the length of the torch set, e.g.: 05 = 0.5 m or 08 = 0.8 m.
Standard lengths: 0.5 m, 0.7 m, 0.8 m and 1.5 m

Torch sets LHZ 100-x SATZ
Plug



Description		Part name		Part number
A	Plug	DIX	KCZ 100 SATZ LHZ	634167018
1	Plug sleeve	DIX	LH-SATZ	639125004P
2	Union nut	DIX	11-2 SATZ ÜWM	629111902
3	Plug insert	DIX	LHZ 110 SATZ	686110000
4	Connecting piece (MEPTZ)	DIX	MEPS 300/500	6390665000
5	Clamping sleeve	DIX	SH 270	629270270
M4 x 6 countersunk screw PA nature, (9 pcs.) not shown				629900272



Torch sets liquid cooled

DIX LHZ 100-x SATZ/001(/005)(/006)(/008)(/009)(/010)(/011)(/012)(/019)

Properties

- Flexible supply hose
- No gas loss due to separate shield gas feed
- One supply hose, 8 different torch heads



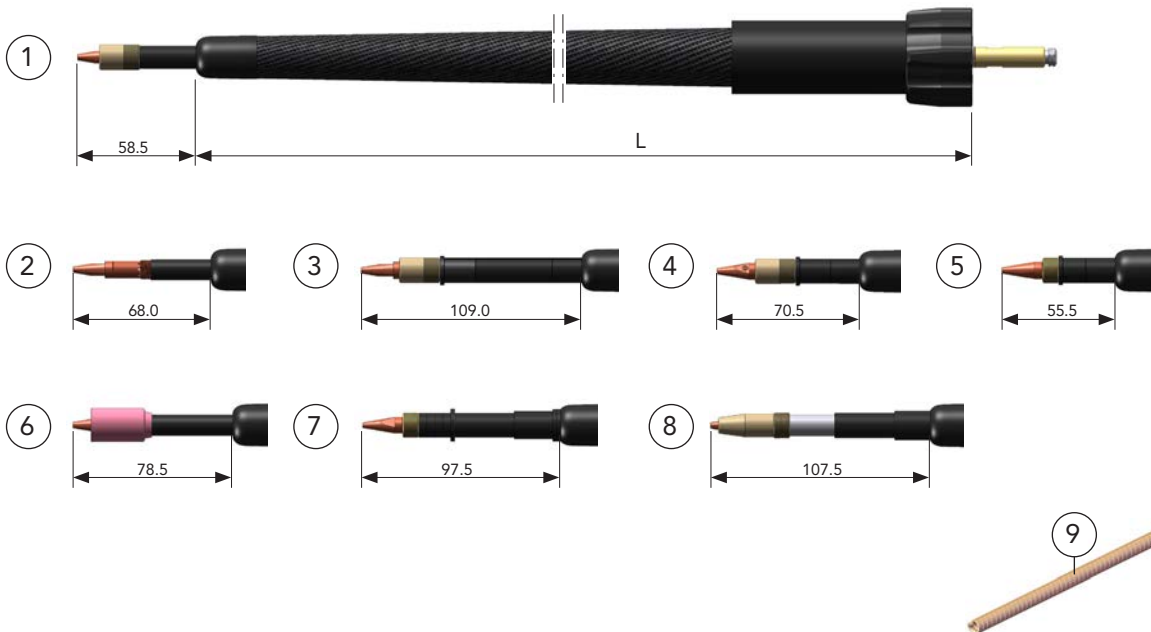
Applicationsbeispiel

Application

- Non- and low alloyed steels
- High alloyed steels
- Copper alloyed for the MSG brazing
- Small to medium material thickness

Technical data (DIN EN 60 974-7):

Wire diameter: 0.6 - 1.6 mm



Description	Dimensions (L)	Part name	Part number
1 Torch set with torch head *	0.50 m	DIX LHZ 100-0.5 SATZ/001	630167005
Torch set with torch head *	0.80 m	DIX LHZ 100-0.8 SATZ/001	630167006
Torch set with torch head *	0.90 m	DIX LHZ 100-0.9 SATZ/001	630167020
Torch set with torch head *	0.28 m	DIX LHZ 100-0.28 SATZ/005	630167018
Torch set with torch head *	0.65 m	DIX LHZ 100-0.65 SATZ/005	630167022

- Standard equipment for wire diameter 1.2 mm steel:
Gas nozzle DIX 1-2-009 LK diameter 5.5 mm, contact tip DIX 3-2-1.2 /KA.

2 Torch set with torch head, without gas nozzle	0.50 m	DIX LHZ 100-0.5 SATZ/006	630167007
Torch set with torch head, without gas nozzle	1.00 m	DIX LHZ 100-1.0 SATZ/006	630167008

- Standard equipment for wire diameter 1.0 mm steel:
Contact tip DIX 3-2-1.0 /KA.

* This torchset is delivered without liner. Please order liner separately see pos. 9.

** Heat resistant plastic gas nozzle





Description	Dimensions (L)	Part name		Part number
3 Torch set with torch head *	0.50 m	DIX	LHZ 100-0.5 SATZ/008	630167012
Torch set with torch head *	0.70 m	DIX	LHZ 100-0.7 SATZ/008	630167009
Torch set with torch head *	2.00 m	DIX	LHZ 100-2.0 SATZ/008	630167011
► Standard equipment for wire diameter 1.0 mm steel: Contact tip DIX 3-2-1.0 /KA, gas nozzle 1-2-009 LK (PEEK**)				
4 Torch set with torch head *	0.50 m	DIX	LHZ 100-0.5 SATZ/009	630167010
Torch set with torch head *	0.65 m	DIX	LHZ 100-0.65 SATZ/009	630167021
► Standard equipment for wire diameter 1.2 mm steel: Contact tip DIX 3-2-1.2 /KA, gas nozzle 1-2-009 LK (PEEK**)				
5 Torch set with torch head *, without gas nozzle	0.50 m	DIX	LHZ 100-0.5 SATZ/010	630167013
► Standard equipment for wire diameter 1.2 mm steel: Contact tip DIX 3-2-1.2 /KA				
6 Torch set with torch head *	0.50 m	DIX	LHZ 100-0.5 SATZ/011	630167014
► Standard equipment for wire diameter 1.0 mm steel: Contact tip DIX 3-2-1.0 M6 /KAL, gas nozzle DIX 1-2-012 LK				
7 Torch set with torch head *, without gas nozzle	0.50 m	DIX	LHZ 100-0.5 SATZ/012	630167015
► Standard equipment for wire diameter 1.2 mm steel: Contact tip DIX 3-2-1.2 /KA				
8 Torch set with torch head	0.60 m	DIX	LHZ 100-0.6 SATZ/019	630167024
Torch set with torch head	0.70 m	DIX	LHZ 100-0.7 SATZ/019	630167026
Torch set with torch head	0.90 m	DIX	LHZ 100-0.9 SATZ/019	630167025
► Standard equipment for wire diameter 1.0 mm steel: Contact tip DIX 3-2-1.0 /KA, gas nozzle DIX 1-2-011/001 LK				
9 Liner	ø 2.2 mm/0.3 m	DIX	DS 4/2.2-0.3	639300002
Liner	ø 2.2 mm/0.5 m	DIX	DS 4/2.2-0.5	623000305
Liner	ø 2.2 mm/1.0 m	DIX	DS 4/2.2-1	623000310
Liner	ø 2.2 mm/2.0 m	DIX	DS 4/2.2-2	623000320

Hint:

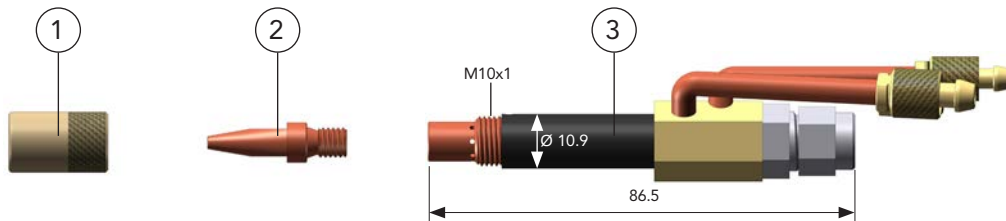
Additional liners, wire guide capillaries and service tools can be found in the chapter Tools and Accessories.

* This torchset is delivered without liner. Please order liner separately see pos. 9.

** Heat resistant plastic gas nozzle

Torch sets LHZ 100-x SATZ/001(005)

Torch head

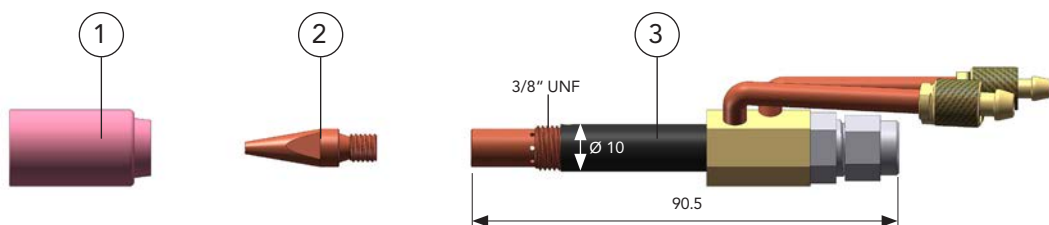


	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle PEEK*	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/005	686950124

* Heat resistant plastic gas nozzle

Torch sets LHZ 100-x SATZ/006

Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/006	686950125

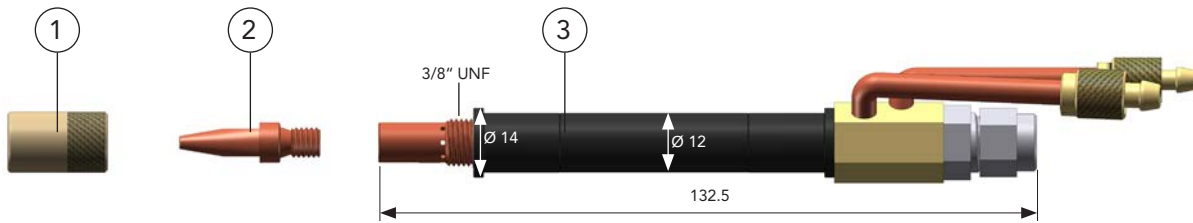
* 3/8" UNF thread

** Heat resistant plastic gas nozzle



Torch sets LHZ 100-x SATZ/008

Torch head



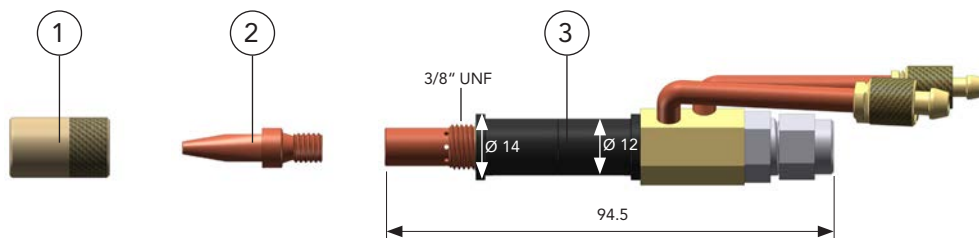
	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/008	686950130

* 3/8" UNF thread

** Heat resistant plastic gas nozzle

Torch sets LHZ 100-x SATZ/009

Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/009	686950135

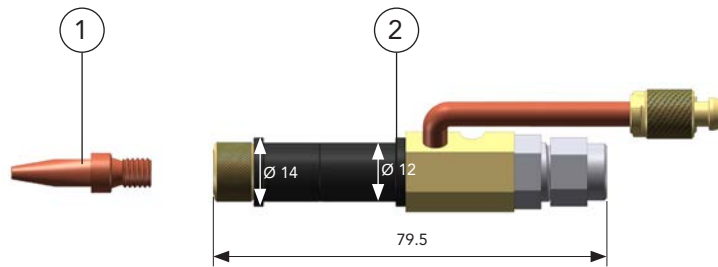
* 3/8" UNF thread

** Heat resistant plastic gas nozzle



Torch sets LHZ 100-x SATZ/010

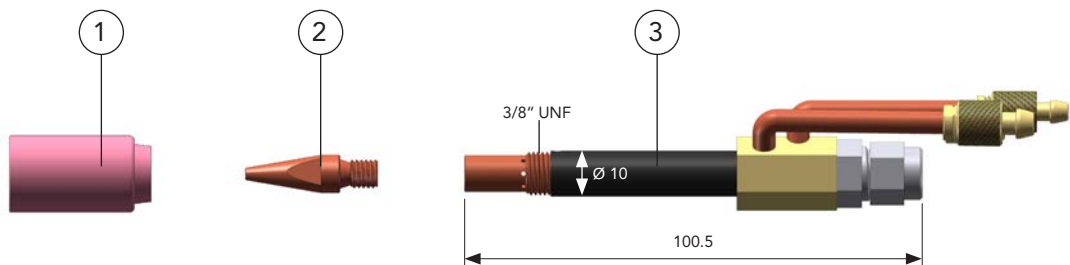
Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
2	Torch neck	0°	DIX LHZ 100/010	686950139

Torch sets LHZ 100-x SATZ/011

Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
2	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 M6 /KAL	629030033
	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
3	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
	Torch neck	0°	DIX LHZ 100/011	686950140

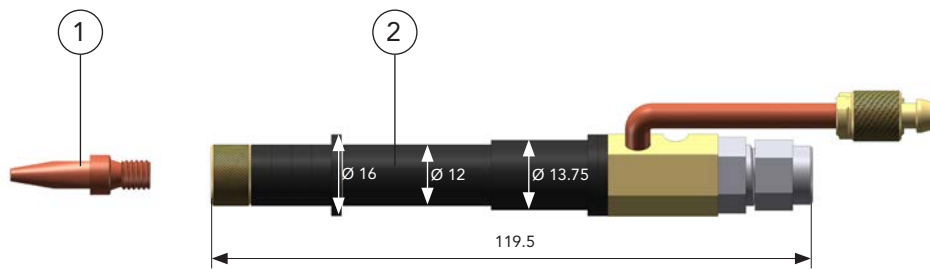
* 3/8" UNF thread

** Heat resistant plastic gas nozzle



Torch sets LHZ 100-x SATZ/012

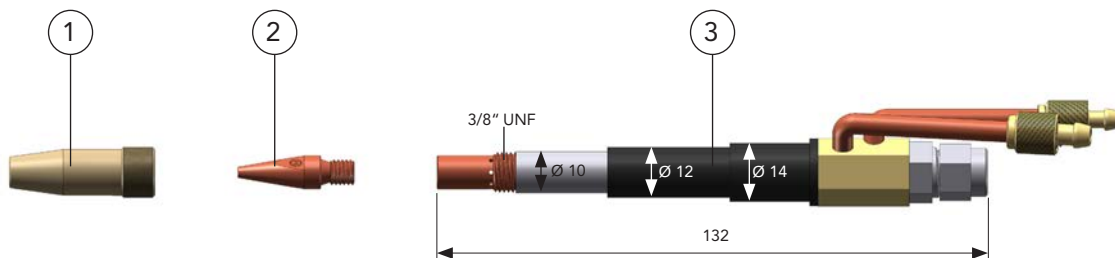
Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
2	Torch neck	0°	DIX LHZ 100/012	686950141

Torch sets LHZ 100-x SATZ/019

Torch head



	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
	Gas nozzle*	L 33/AD 11/ID 9.5	DIX 1-2-013 LK	629010005
	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
2	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 M6 /KAL	629030033
	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
3	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
	Torch neck	0°	DIX LHZ 100/015	686950146

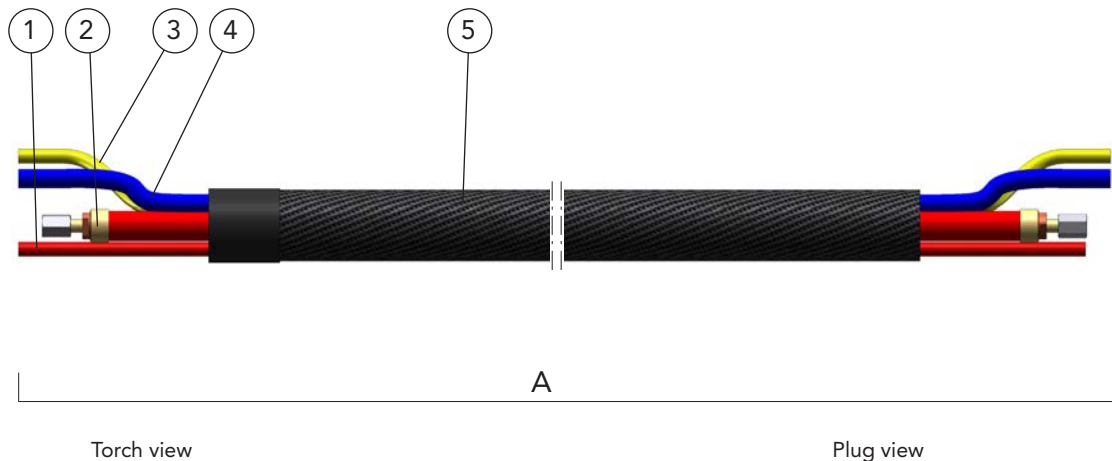
* 3/8" UNF thread

** Heat resistant plastic gas nozzle



Torch sets LHZ 100-x SATZ/001(/005)(/006)(/008)(/009)(/010)(/011)(/012)(/019)

Supply hose

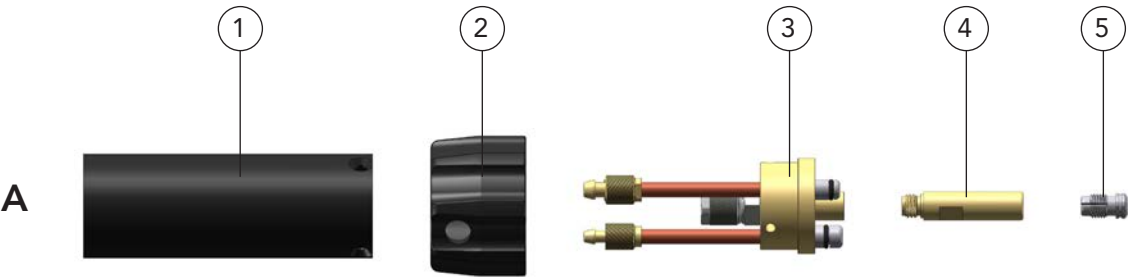


Description	Part name	Part number
A Supply hose	DIX VL 100-__ LHZ/001	63216700-__
1 Water hose red, used as conduit hose	DIX VL 191-__	639196002-__
2 Combi cable	DIX 22-2-303-__	629221-__
3 Gas hose	DIX VL 180-__	639186001-__
4 Water hose blue	DIX VL 190-__	639196001-__
5 Cover hose set	DIX VL 130-__	6392370000-__

-- Here you define the length of the torch set, e.g.: 05 = 0.5 m or 08 = 0.8 m.
Standard lengths: 0.5 m and 0.65 m

Torch sets LHZ 100-x SATZ/001(/005)(/006)(/008)(/009)
(/010)(/011)(/012)(/019)

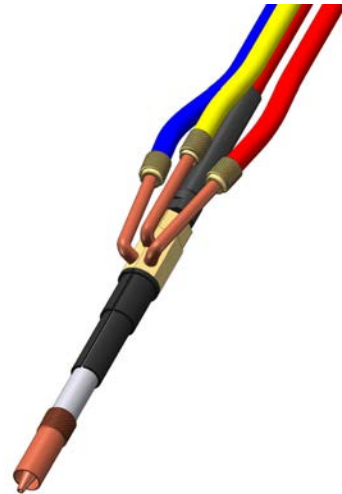
Plug



Description		Part name		Part number
A	Plug	DIX	KCZ 100 SATZ LHZ /001	634167019
1	Plug sleeve	DIX	LH-SATZ	639125004P
2	Union nut	DIX	11-2 SATZ ÜWM	629111902
3	Plug insert	DIX	SATZ 110/001	639116044
4	Connecting piece (MEPTZ)	DIX	MEPS 300/500	6390665000
5	Clamping sleeve	DIX	SH 270	629270270
M4 x 6 countersunk screw PA Nature, (9 Pcs.) not shown				629900272

Properties

- Flexible supply hose
- No gas loss due to separate shield gas feed

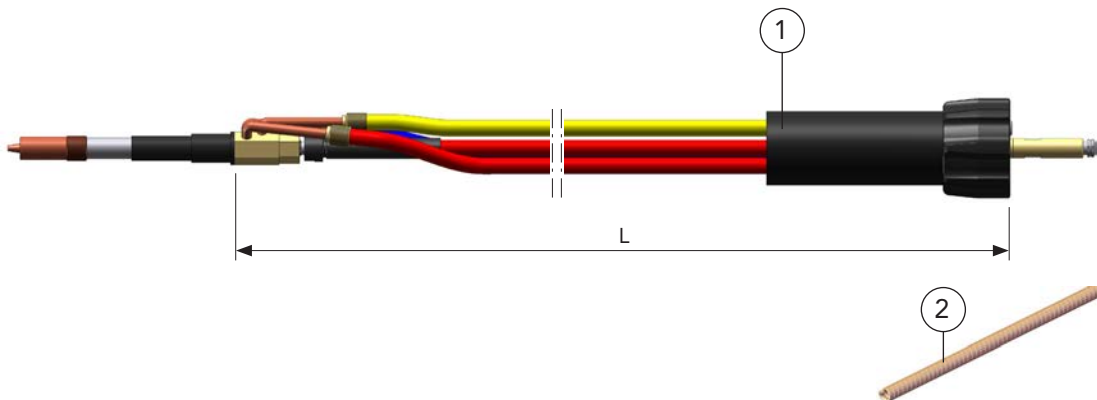


Application

- Non- and low alloyed steels
- High alloyed steels
- Copper alloyed for the MSG brazing
- Small to medium material thickness

Technical data (DIN EN 60 974-7):

Wire diameter: 0.6 - 1.6 mm



Description	Dimensions	Part name	Part number
1 Torch set with torch head, without cover hose	0.45 m	DIX LHZ 100-0.45 SATZ/015	630167017
Torch set with torch head, without cover hose	0.60 m	DIX LHZ 100-0.6 SATZ/015	630167023
2 Liner	ø 2.2 mm/0.5 m	DIX DS 4/2.2-0.5	623000305
Liner	ø 2.2 mm/1.0 m	DIX DS 4/2.2-1	623000310

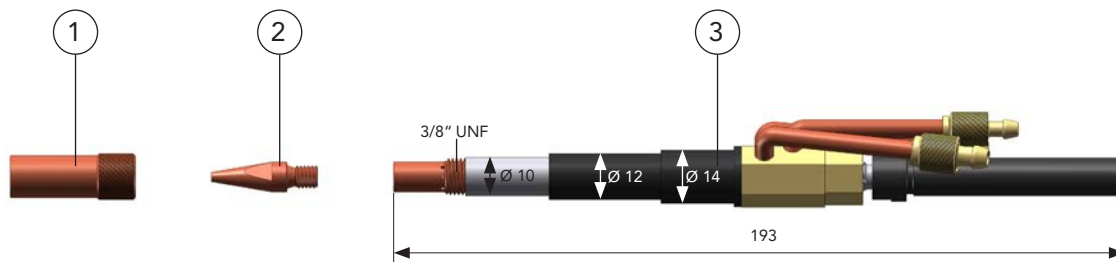
Hint:

Additional liners, wire guide capillaries and service tools can be found in the chapter TOOLS and ACCESSORIES.

- Standard equipment for wire diameter 1.0 mm steel:
Contact tip DIX 3-2-1.0 M6 /KAL, gas nozzle DIX 1-2-013 LK

Torch sets LHZ 100-x SATZ/015

Torch head



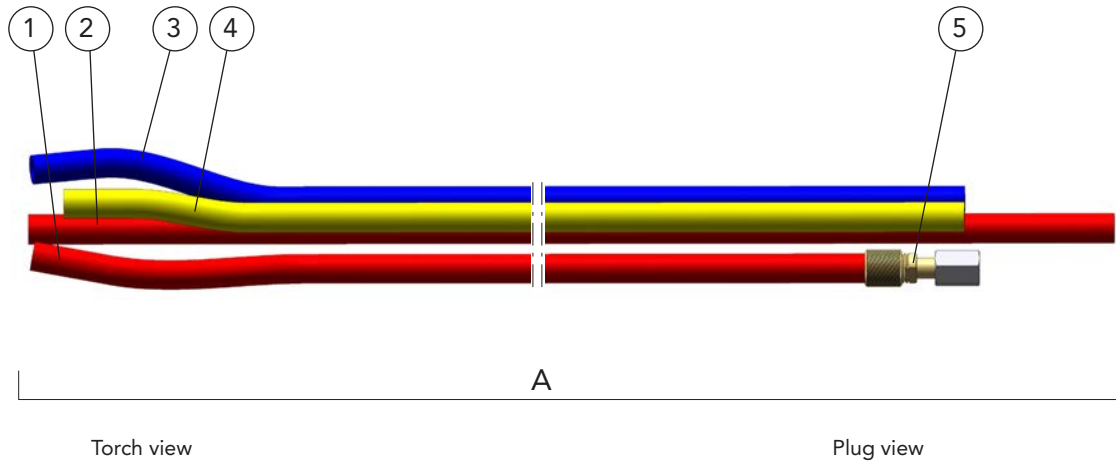
	Description	Dimensions (mm)	Part name	Part number
1	Gas nozzle*	L 33/AD 111/ID 9.5	DIX 1-2-013 LK	629010005
	Gas nozzle*, Ceramic	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
	Gas nozzle PEEK**	L 20/AD 12/ID 9	DIX 1-2-009 LK	68690100109
	Gas nozzle	L 20/AD 12/ID 9	DIX 1-2-010 LK	629010001P
	Gas nozzle	L 35/AD 11/ID 5.5	DIX 1-2-011 LK	629010002P
	Gas nozzle	L 33/AD 12/ID 9.5	DIX 1-2-014 LK	629010006
	Gas nozzle PEEK**	L 35/AD 11/ID 4.7	DIX 1-2-011/001 LK	629010003
	Gas nozzle	L 30/AD 16.2/ID 12	DIX 1-2-012 LK	629010004
2	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 M6 /KAL	629030033
	Contact tip	wire-Ø 0.6 mm	DIX 3-2-0.6 /KA	P629030NO012
	Contact tip	wire-Ø 0.8 mm	DIX 3-2-0.8 /KA	P629030NO007
	Contact tip	wire-Ø 0.9 mm	DIX 3-2-0.9 /KA	6290300042
	Contact tip	wire-Ø 1.0 mm	DIX 3-2-1.0 /KA	P629030NO004
	Contact tip	wire-Ø 1.2 mm	DIX 3-2-1.2 /KA	P629030NO005
	Contact tip	wire-Ø 1.6 mm	DIX 3-2-1.6 /KA	629030023
3	Torch neck	0°	DIX LHZ 100/015	686950146

* 3/8" UNF thread

** Heat resistant plastic gas nozzle

Torch sets LHZ 100-x SATZ/015

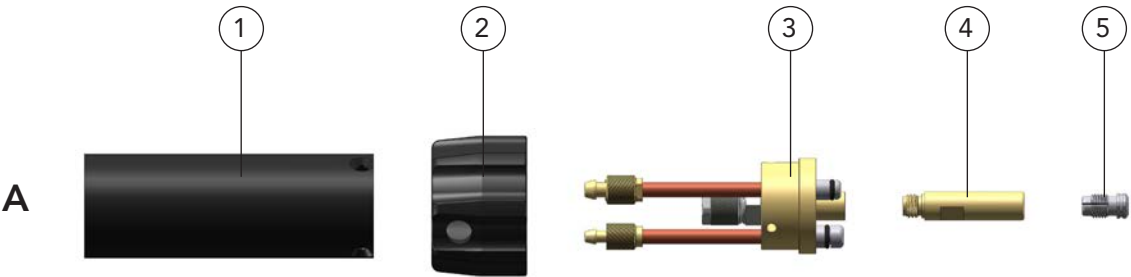
Supply hose



Description	Part name	Part number
A Supply hose	DIX VL 100-__ LHZ/015	63216700__2
1 Water hose red, without adapter "Kombi-VL 190"	DIX VL 191-__	639196002__
2 Water hose red, used as conduit hose	DIX VL 191-__	639196002__
3 Gas hose	DIX VL 180-__	639186001__
4 Water hose blue	DIX VL 190-__	639196001__
5 Adapter Kombi-VL 190 M8 x 1 mm, Ø 6 mm		629221903

-- Here you define the length of the torch set, e.g.: 0.45 = 0.45 m or 0.6 = 0.6 m.
Standard lengths: 0.45 m and 0.6 m

Torch sets LHZ 100-x SATZ/015
Plug



Description		Part name		Part number
A	Plug	DIX	KCZ 100 SATZ LHZ /001	634167019
1	Plug sleeve	DIX	LH-SATZ	639125004P
2	Union nut	DIX	11-2 SATZ ÜWM	629111902
3	Plug insert	DIX	SATZ 110/001	639116044
4	Connecting piece (MEPTZ)	DIX	MEPS 300/500	6390665000
5	Clamping sleeve	DIX	SH 270	629270270
M4 x 6 countersunk screw PA nature, (9 Pcs.) not shown				629900272



Torch brackets

DIX FHS 45

For robot and automation components LASER

Properties

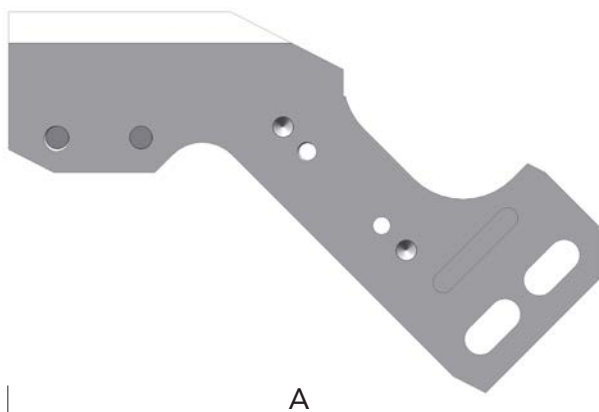
- ▶ Brackets made of aluminium
- ▶ High mechanical strength
- ▶ High dimensional accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance

Application

- ▶ For DINSE torch heads
LH 100 AW(SW)(SB)
- ▶ For DINSE torch sets
LHZ 100-x SATZ(/xxx)



Torch bracket, fixed FHS 45
(Application sample)



Description	Part name	Part number
A Torch bracket, fixed	45° DIX FHS 45	683545000

Hint: Service tools can be found in the chapter TOOLS and ACCESSORIES.

Front drive brackets

DIX FDH 100, DIX FD 100 HA90

For Front drive units FD 10x



1

Properties

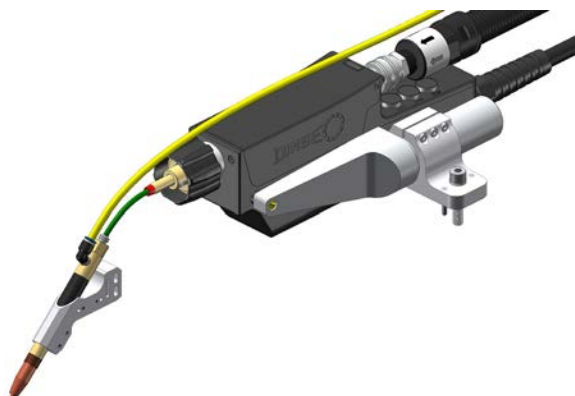
- Bracket made of high-strength aluminium
- High mechanical strength
- High dimensional accuracy
- Low weight
- Very good corrosion resistance



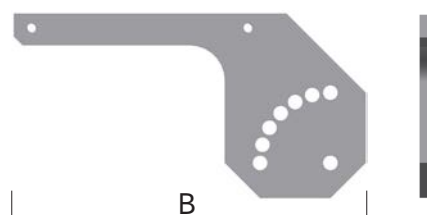
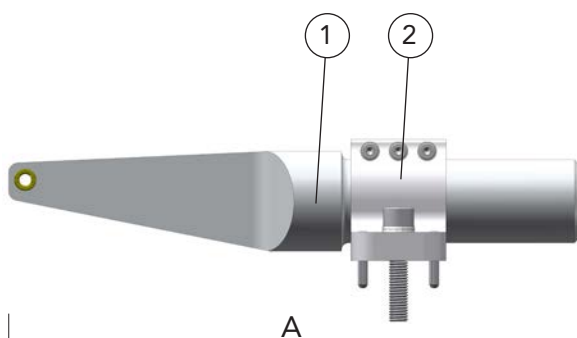
FDH 100 HA90, with FD 100 LS
(Application sample)

Application

- For DINSE Front drive
DIX FD 100 L(S)
DIX FD 101 L(S)
DIX FD 102 L(S)



FDH 100, with FD 100 LS
(Application sample)



LASER automation

Description	Part name		Part number
A Front drive bracket	DIX	FDH 100	683500108
B Front drive bracket	DIX	FDH 100 HA90	7430030185
1 Bracket	DIX	FH FD100	683530039
2 Retainer	DIX	HA FD100	683510116

- Other front drive brackets on request.



Front drive units

DIX FD 100 LS(-WB)

DIX FD 101 LS(-WB)

For robotic- and automatic applications

Technical data (IEC 60974-5):

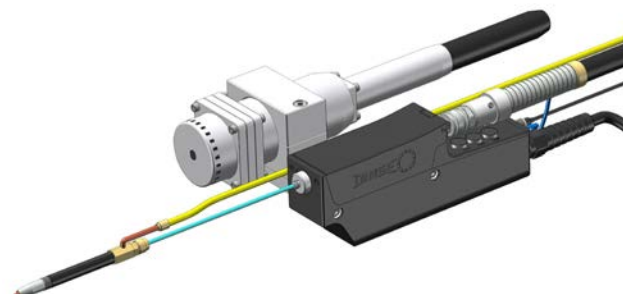
Drive unit	FD 100 LS
With wire flow sensor	FD 101 LS
Drive unit	FD 100 LS-WB
With wire flow sensor and wire brake	FD 101 LS-WB
Wire feed speed:	0.4 - 24 m/min
	0.3 - 5 m/min (FD 101)
Wire diameter:	ø 0.8 - 1.6 mm
Dimension (L/W/H):	270/58/1055 mm
Weight:	approx. 1.95 kg



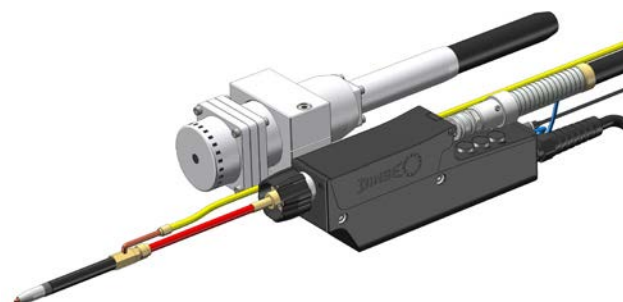
Drive unit DIX FD100 LS (-WB)

Advantage

- Wire feeder system with powerful drive unit
- Solid and compact construction
- Powerful 4-roll drive
- Low weight
- Two different variants available:
 - with integrated wire flow sensor
 - with integrated wire flow sensor and wire brake
- Quickly change of the spare and wear parts
- For hot wire applications available with water- set
- Drive unit with connection for torch necks or torch sets



Drive unit with torch head, capillary liner and Supra Feed plus, application sample - cold wire



Drive unit with torch head, rotatable wire guide and Supra Feed plus, application sample - cold wire

Properties

- For PUSH-PULL and PUSH-PUSH mode
- Applications at thin and kink-sensitive wire electrodes
- Constant wire feeding for long distances
- Special contour of the profile roll for aluminum welding
- On request the drive unit will delivered with another transmission ratio, wire feeding speed 0.3 to 5.0 m / min

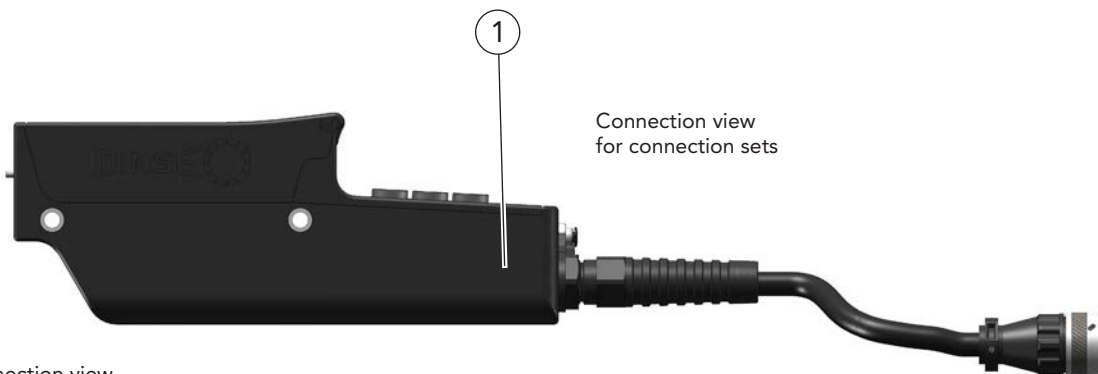


Drive unit with torch head, water set and Supra Feed application sample - hot wire

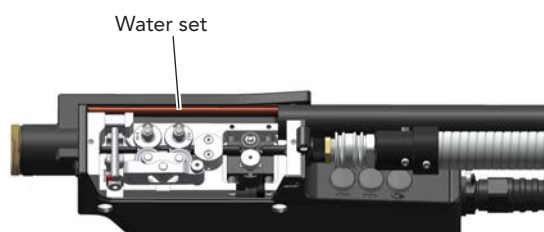
Front drive units DIX FD 100 LS(-WB) DIX FD 101 LS(-WB) For robotic- and automatic applications



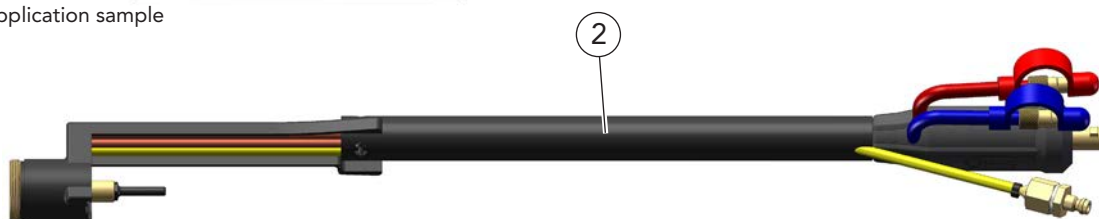
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Connection view
for adapter sets



Application sample



Connection view
for torch necks or torch sets

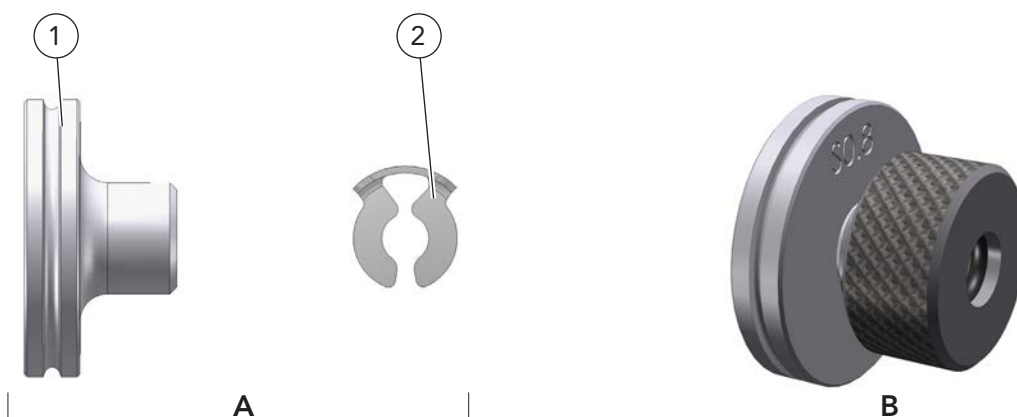
LASER automation

	Description	Part name		Part number
1	Drive unit with wire flow sensor	DIX	FD100 LS	7430030003
	Drive unit with wire flow sensor	DIX	FD101 LS	7430030005
	Drive unit with wire flow sensor and wire brake	DIX	FD100 LS-WB	7430030004
	Drive unit with wire flow sensor and wire brake	DIX	FD101 LS-WB	7430030142
➤ Variants deviating of the standard fittings on request.				
Accessories:				
2	Water set, 5 m	DIX	FD100 WS-5	7430030138
	Water set, 7 m	DIX	FD100 WS-7	7430030135

- Other lengths on request.
Variants deviating of the accessories on request.



Drive unit FD 100 LS(-WB), FD 101 LS(-WB) Profile roll sets

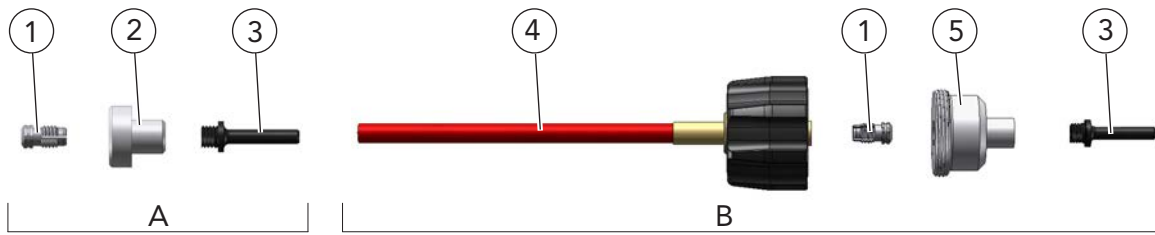


Description		Dimension	Part name		Part number
A	Profile roll set for welding wire steel: All sets are equipped with two profile rolls and four KL - safeguard.				
	Profile roll sets	Wire-ø 0.8 mm	DIX	FD100 RS-08 S	7430030098
	Profile roll sets	Wire-ø 1.0 mm	DIX	FD100 RS-10 S	7430030091
	Profile roll sets	Wire-ø 1.2 mm	DIX	FD100 RS-12 S	7430030092
	Profile roll sets	Wire-ø 1.6 mm	DIX	FD100 RS-16 S	7430030099
1	Profile roll	Wire-ø 0.8 mm	DIX	FD100 WFR-08 S	7430030072
	Profile roll	Wire-ø 1.0 mm	DIX	FD100 WFR-10 S	7430030070
	Profile roll	Wire-ø 1.2 mm	DIX	FD100 WFR-12 S	7430030071
	Profile roll	Wire-ø 1.6 mm	DIX	FD100 WFR-16 S	7430030073
B	Profile roll sets with locknut for welding wire steel: All sets are equipped with two profile rolls and two locknuts.				
	Profile roll sets	Wire-ø 0.8 mm	DIX	FD RSL-08 S	7430030195
	Profile roll sets	Wire-ø 1.0 mm	DIX	FD RSL-10 S	7430030196
	Profile roll sets	Wire-ø 1.2 mm	DIX	FD RSL-12 S	7430030197
	Profile roll sets	Wire-ø 1.6 mm	DIX	FD RSL-16 S	7430030198
A	Profile roll set for welding wire aluminum alloys: All sets are equipped with two profile rolls and four KL - safeguard.				
	Profile roll sets	Wire-ø 0.8 mm	DIX	FD100 RS-08 A	7430030096
	Profile roll sets	Wire-ø 1.0 mm	DIX	FD100 RS-10 A	7430030093
	Profile roll sets	Wire-ø 1.2 mm	DIX	FD100 RS-12 A	7430030094
	Profile roll sets	Wire-ø 1.6 mm	DIX	FD100 RS-16 A	7430030097
1	Profile roll	Wire-ø 0.8 mm	DIX	FD100 WFR-08 A	7430030082
	Profile roll	Wire-ø 1.0 mm	DIX	FD100 WFR-10 A	7430030080
	Profile roll	Wire-ø 1.2 mm	DIX	FD100 WFR-12 A	7430030081
	Profile roll	Wire-ø 1.6 mm	DIX	FD100 WFR-16 A	7430030083
2	KL - Sicherung	VPE 10 Stück	DIX	FD100 WFR-C	7430030095
B	Profile roll sets with locknut for welding wire aluminum alloys: All sets are equipped with two profile rolls and two locknuts.				
	Profile roll sets	Wire-ø 0.8 mm	DIX	FD RSL-08 A	7430030199
	Profile roll sets	Wire-ø 1.0 mm	DIX	FD RSL-10 A	7430030200
	Profile roll sets	Wire-ø 1.2 mm	DIX	FD RSL-12 A	7430030201
	Profile roll sets	Wire-ø 1.6 mm	DIX	FD RSL-16 A	7430030202

► Other diameters on request.

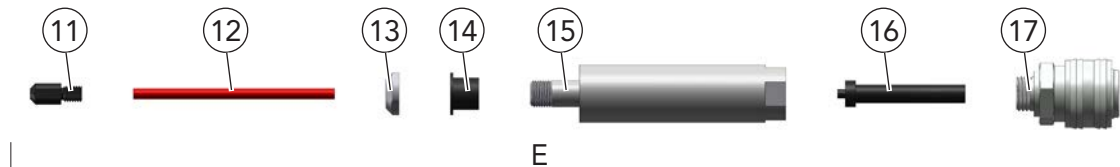
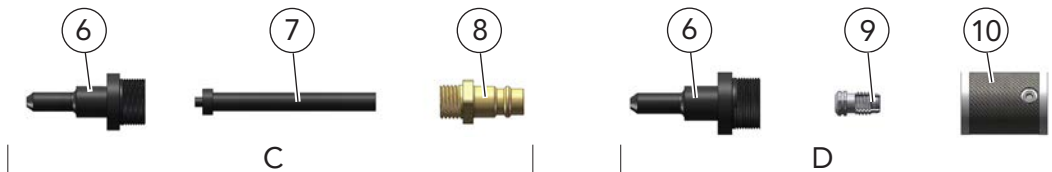


Drive unit FD 100 LS(-WB), FD 101 LS(-WB) Adapter sets, Connection sets



	Description	Part name	Part number
A	Adapter set, for capillary liner	DIX FD100 AS	7430030047
B	Adapter set	DIX FD100 AS-CW	7430030050
1	Clamp sleeve	DIX SH 270	629270270
2	Adapter	DIX FD100 A-CS	7430030048
3	Wire guide	DIX FD100 WG-AS	7430030049
4	Wire guide, complete	DIX FD100 CW	7430030052
5	Adapter	DIX FD100 A-CW	7430030053

► Variants deviating of the accessories on request.



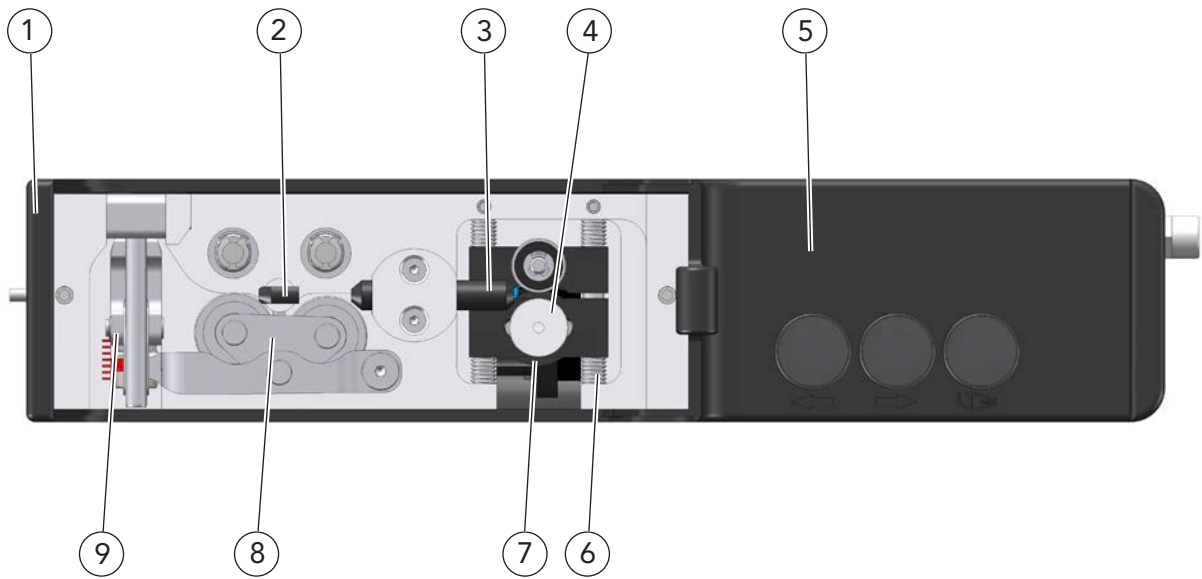
	Description	Dimension	Part name	Part number
C	Connection set for Supra Feed		DIX FD100 CS-SF	7430030060
D	Connection set for conduit hose		DIX FD100 CS-CH	7430030059
E	Connection set for XL-Rolliner®		DIX FD100 CS-XL	7430030151
6	Wire guide		DIX FD100 WG-PN	7430030061
7	Wire guide		DIX FD100 WG-SF	7430030062
8	Coupler plug, G 1/4 AG		DIX FD100 PN	719261280
9	Clamp sleeve		DIX SH 270	629270270
10	Connection coupler		DIX FD100 CS-R	7430030067
11	Wire guide		DIX FD100 WG-XF	7430030154
12	Capillary liner	78 mm	DIX DSK 3-0,078	62300250078
13	Lock nut		DIX FD100 LN-XL	7430030153
14	ISO - sleeve		DIX FD100 IS-XL	7430030155
15	Adapter		DIX FD100 C-XL	7430030152
16	Wire guide		DIX FD100 WG-XR	7430030156
17	Coupler socket, G1/4 AG		DIX FD100 SO	629201403

► Variants deviating of the asseccories on request.



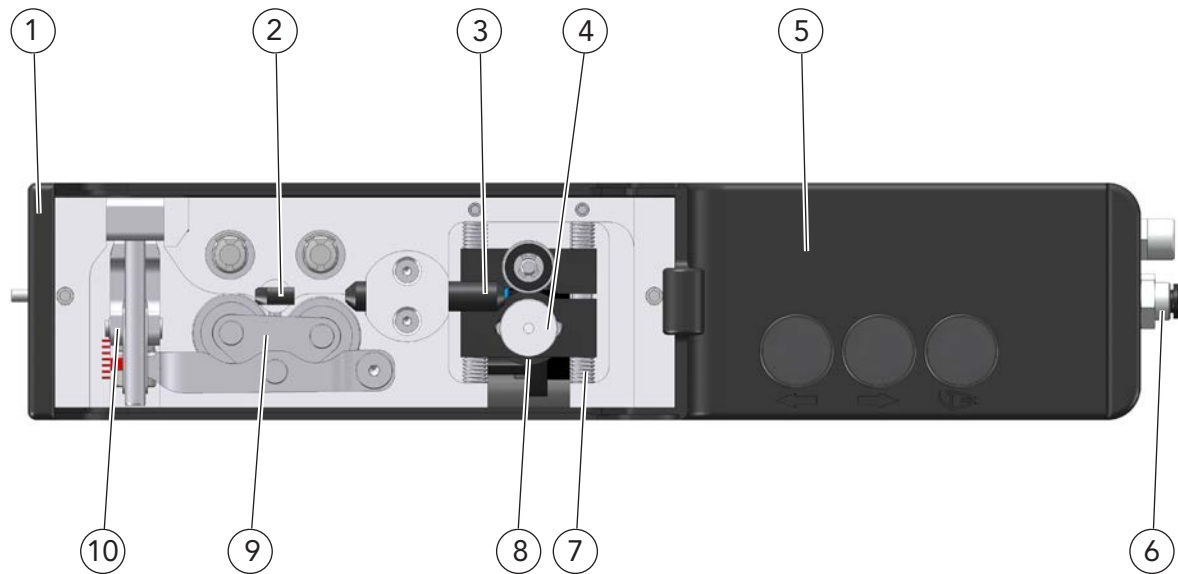
Spare and wear parts

Drive unit FD 100 LS, FD 101 LS With wire flow sensor



	Description	Part name		Part number
1	Cover cap	DIX	FD100 CC	7430030038
2	Wire guide	DIX	FD100 WG-PS	7430030015
3	Wire guide	DIX	FD100 WG-WB	7430030014
4	Measuring wheel set	DIX	FD100 MW-S	7430030066
5	Cover	DIX	FD100 CL	7430030037
6	Pressure spring	DIX	FD100 FS-S	7430030046
7	Encoder	DIX	FD100 GS	7430030044
8	Pressure system	DIX	FD100 PS	7430030026
9	Tension unit	DIX	FD100 TU	7430030019
	Counter sunk screw, M3x5, Material: PA66/black, not shown	DIX	FD100 CS	7430030115
	Pressure spring, not shown	DIX	FD100 TU-S	7430030025
	Mounting set, not shown	DIX	FD100 MS	7430030016
	Cable hose, not shown	DIX	FD100 CH	7430030035
	Motor cover complete, not shown	DIX	FD100 MC	7430030039

Drive unit FD 100 LS-WB, FD 101 LS-WB with wire flow sensor and wire brake



	Description	Part name		Part number
1	Cover cap	DIX	FD100 CC	7430030038
2	Wire guide	DIX	FD100 WG-PS	7430030015
3	Wire guide	DIX	FD100 WG-WB	7430030014
4	Measuring wheel set	DIX	FD100 MW-S	7430030066
5	Cover	DIX	FD100 CL	7430030037
6	Bulk head fitting	DIX	FD100 BF	7430030116
7	Pressure spring	DIX	FD100 FS-S	7430030046
8	Encoder	DIX	FD100 GS	7430030044
9	Pressure system	DIX	FD100 PS	7430030026
10	Tension unit	DIX	FD100 TU	7430030019
	Counter sunk screw, M3x5, Material: PA66/black, not shown	DIX	FD100 CS	7430030115
	Pressure spring, not shown	DIX	FD100 TU-S	7430030025
	Mounting set, not shown	DIX	FD100 MS	7430030016
	Cable hose, not shown	DIX	FD100 CH	7430030035
	Motor cover complete, not shown	DIX	FD100 MC	7430030039
	Wire break valve set, not shown Control of the wire break	DIX	FD100 VS	7430030065

Wire feed system Supraliner for robotic-, automatic- and laser applications

Technical data:

Supraliner	VLSL 201
Wire diameter:	ø 0.8-1.6 mm
Outside diameter:	ø 37 mm
Minimum bending radius:	150 mm
Allowed distortion:	180°/meter

Advantage

- Perfect for high dynamic movements
- No abrasion due to extremely small forces to the wire
- Low maintenance
- Without any sliding friction
- 90° shifted rolls guides the wire
- Allowed bending radius is 150 mm
- Low weight
- Options:
Connecting sets WDX 109 WD 300 for wire feeder and connecting set WB-SC for wire bulk container
- Connection to drive unit
FD 200 M(ME) and
Drive unit FD 100 LS-(WB)
(connecting set FD 100 CS-SF)

Application

- Support of welding wires
- Connection from wire bulk container to the wire feeder
- Connection from wire bulk container to the welding torch
- Connection from wire feeder to the welding torch



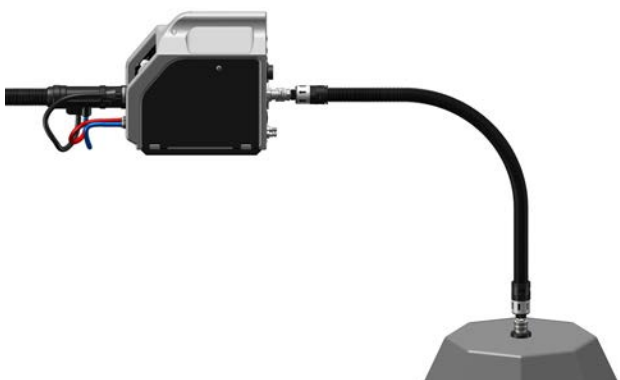
Supraliner DIX VLSL 201



Supraliner, drive unit with torch head, rotatable wire guide, application sample - Laser



Supraliner, drive unit with torch head and water set application sample - Laser

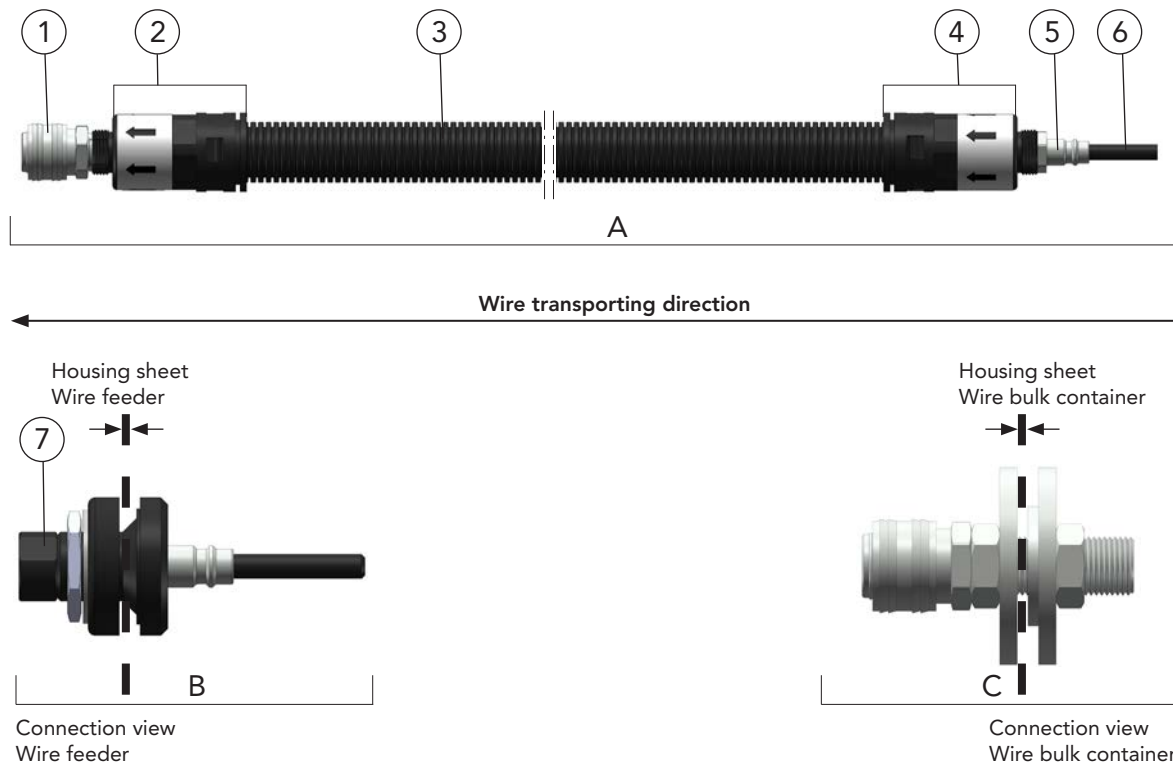


Supraliner, wire feeder and wire bulk container application sample - Laser

Wire feed system Supraliner for robotic-, automatic- and laser applications



1



LASER automation

Description	Dimension ID/length	Part name	Part number
A Supraliner		DIX VLSL 201-__	6292140__ 0
► Other lengths on request.			
Options:			
B Connection For wire feeder		DIX WDX 109 WD 300	738131003
C Connection set wire bulk container For wire bulk container		DIX WB-CS	738100011
Spare and wear parts:			
1 Coupling socket, G 1/4 AG		DIX FD100 SO	629201403
2 Wire outlet		DIX WGO 201	629214002
3 Cover hose		DIX VLSL 230-__	6292320__
4 Wire inlet		DIX WGI 201	629214003
5 Coupling plug, G 1/4 AG		DIX FD100 PN	719261280
6 Wire guide	ø 10 mm / 68 mm	DIX FD 100 WG-SF	7430030062
7 Intake spout		DIX WDX 109 ELT	738131002
Supraliner, not shown Without Pos. 2, 3, and 4	ø 1.6 mm / 25 m	DIX VLSL 202	629214000

-- In case of order enter the desired length, e.g.: 10 = 1.0 m or 20 = 20.0 m.
Standard lengths: 1.0 m, 4.0 m, 7.0 m, 8.0 m, 10.0 m, 20.0 m and 22.0 m



Wire feed system Suprafeed (plus) for robotic- and automatic applications

Technical data:

Suprafeed	VLSF 201
Suprafeed plus	VLRO 201
Wire diameter:	ø 0.8-1.6 mm
Outside diameter:	ø 22 mm
Minimum bending radius :	150 mm
Allowed distortion:	180°/meter

Advantage

- Perfect for high dynamic movements
- No abrasion due to extremely small forces to the wire
- Stable arc due to precise wire guide
- Low maintenance
- Without any sliding friction
- 90° shifted rolls guides the wire
- Allowed bending radius is 150 mm
- Low weight
- Options:
Connecting sets WDX 109 WD 300 for wire feeder and WDX 109 FASS for wire bulk container

Application

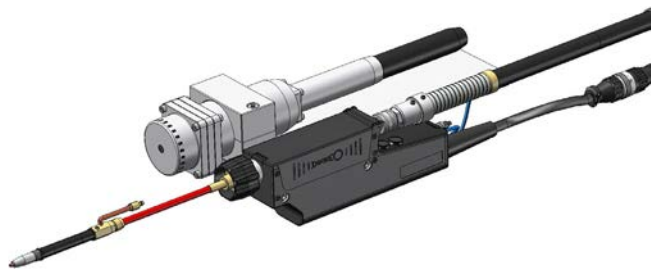
- Support of welding wires
- Connection from wire bulk container to the wire feeder
- Connection from wire bulk container to the welding torch
- Connection from wire feeder to the welding torch



Suprafeed DIX VLSF 201



Suprafeed plus DIX VLRO 201



Suprafeed plus, drive unit with torch head, rotatable wire guide, application sample - cold wire



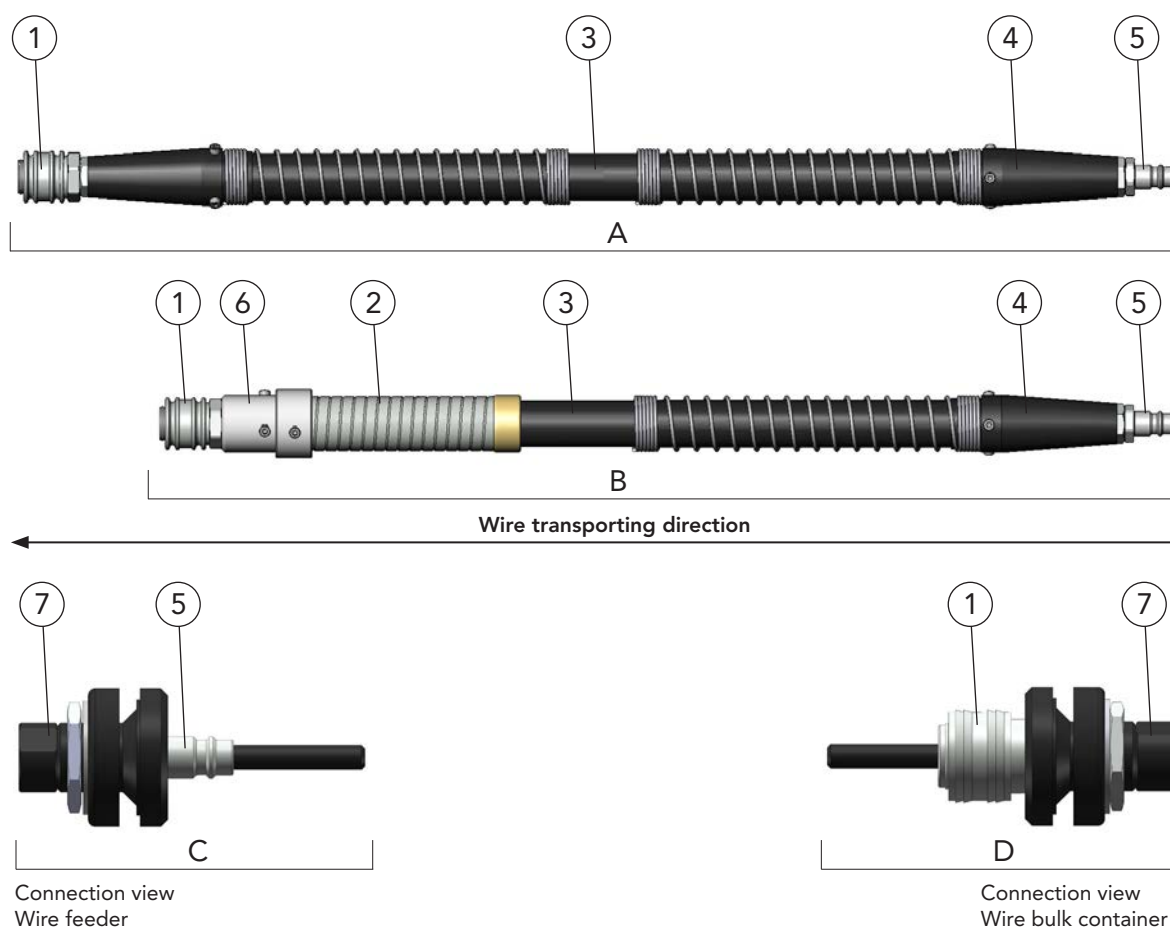
Suprafeed plus, drive unit with torch head and water set application sample - hot wire



Suprafeed, wire feeder and wire bulk container application sample - MIG/MAG

Wire feed system Suprafeed (plus) for robotic- and automatic applications

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Description	Dimension ID/length	Part name	Part number
A Suprafeed		DIX VLSF 201-__	6292015-__
B Suprafeed plus With metal jacket bend protection		DIX VLRO 201-__	6292014-__
► Other lengths on request.			
Options:			
C Connection For wire feeder		DIX WDX 109 WD 300	738131003
D Connection For wire bulk container		DIX WDX 109 FASS	738131001
Spare and wear parts:			
1 Coupling socket, G 1/4 AG		DIX FD100 SO	629201403
2 Connection set suprafeed		DIX SF PLUS-CS	629201402
3 Cover hose	100 m	DIX VL 130-__	6392370000
4 Connection set suprafeed		DIX SF-CS	629201401
5 Coupling plug, G 1/4 AG		DIX FD100 PN	719261280
6 End fitting suprafeed		DIX SF-PLUS-CSE	629201404
7 Intake spout		DIX WDX 109 ELT	738131002
Suprafeed, not shown	ø 1.6 mm / 25 m	DIX VLSF-202-__	629201400
Sealing ring, G 1/4", not shown	(10 pcs.)		738131005
-- In case of order enter the desired length, e.g.: 50 = 5.0 m or 70 = 7.0 m. Standard lengths: 5.0 m and 7.0 m			

Wire feeders

DIX WD 300 FD

For robot and automation applications

LASER

Technical data (IEC 60974-5):

Wire feeder	DIX WD 300 FD
Wire feed speed	0 - 20 m/min
Welding current, max.	500A/60% duty cycle
Wire diameter	0.8 - 1.6 mm
Line voltage	42V/50Hz
Protection class	IP 23
Dimension (L/W/H)	275/220/250 mm
Weight	approx. 7.2 kg
Spool holder (optional)	DIX WDS 200 DIX WDS 300

Options according to range of application



Model for supportive PUSH operation

Properties

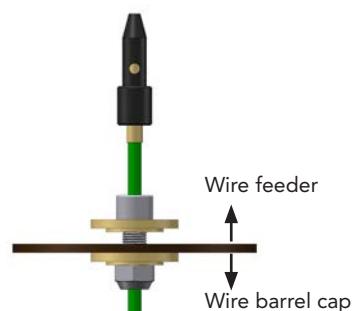
- Supportive PUSH operation for wire feeding through long distances
- PUSH-PUSH principle in combination with DINSE – welding torches with integrated speed regulated motor
- Torque controlled motor with adjustable maximum torque (feed power) prevents the filler wire from snapping
- Exact wire feeding independent of twisting, bending and torch set length
- For all power sources
- Light, robust and fully insulated through plastic housing

Application

- Solid and flux-cored wires
- Non- and low alloyed steels
- High alloyed steels
- Aluminum-, magnesium-, copper- and nickel alloys
- Small to large material thickness



Model - Laser, MIG/MAG – with DIX WDS 200/300 (PUSH-PUSH operation)



Optional DFS-connection marathon DIX 36-2 to the connection between wire feeder DIX WD 300 and wire barrel cap application sample



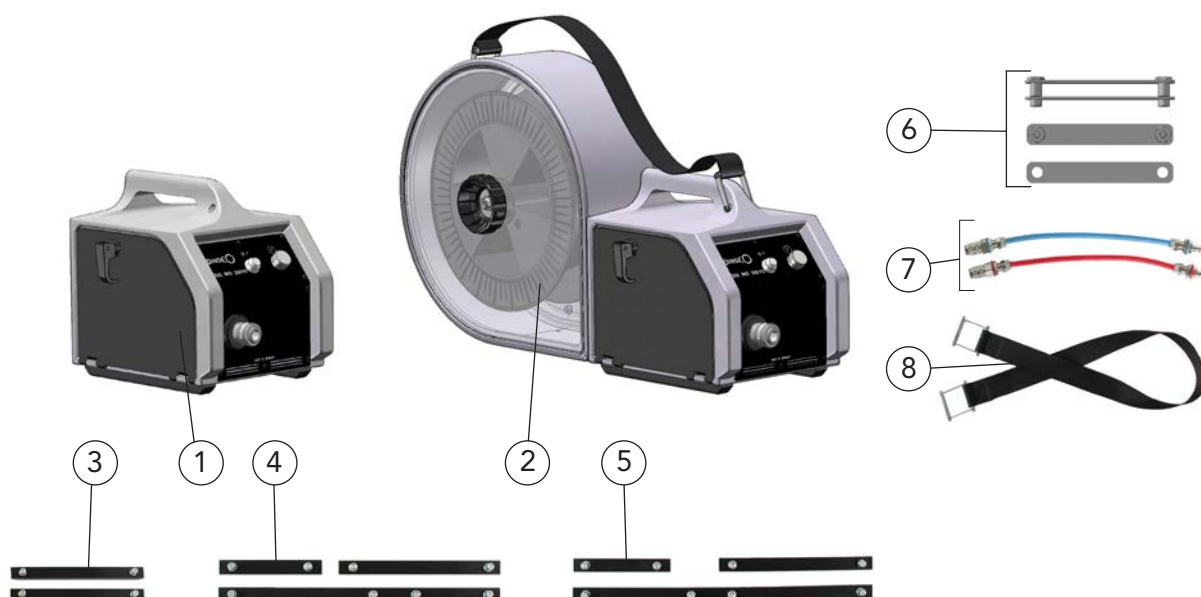
Model with wire barrel respectively for PUSH-PUSH operation

Wire feeders

DIX WD 300 FD

For robot and automation applications LASER

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	Description	Part name		Part number
1	Wire feeder Without drive roll*	DIX	WD 300 FD	745030000
2	Spool holder	DIX	WDS 200	730520000
	Spool holder	DIX	WDS 300	730530000
Options:				
3	Slide bar set For wire feeder DIX WD 300	DIX	WDG 100	738030000
4	Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 200	DIX	WDG 200	738035200
5	Slide bar set For wire feeder DIX WD 300 with spool holder DIX WDS 300	DIX	WDG 300	738035300
6	Connection set For connecting DIX WD 300 with DIX WDS 200/300	DIX	WDV 100	738010000
7	Water set For liquid cooled model	DIX	WDW 100	738040000
8	Carry strap set For manual transport of DIX WD 300 with DIX WDS 200/300	DIX	WDT 100	738020000
	Cold wire set	DIX	WDA 300	738050009
	Hot wire set	DIX	WDA 301	738050011
	MAG set	DIX	WDA 302	738050012
	TIG set, not shown	DIX	WDA 303	738050013
	Gas solenoid valve set, not shown, for cold wire-, hot wire- and TIG set	DIX	WDX 100	719280001
	DFS-connection for marathon, not shown	DIX	36-2	718250001

* Each wire diameter requires its own drive roll.
Part names and part numbers of the drive rolls are given in the Spare and wear parts lists.

► All sets available ready-installed on request (specify when placing an order).
Other fittings on request.

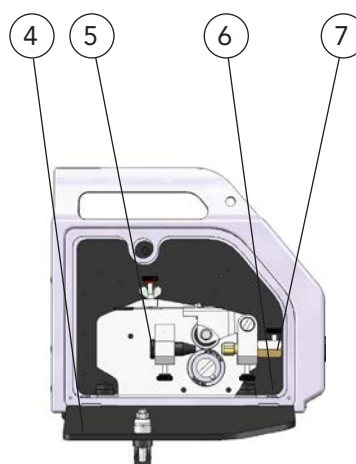
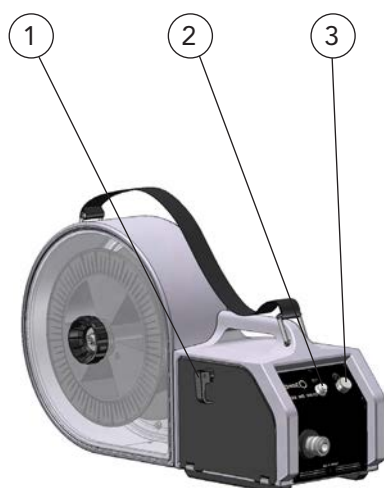
Hint:

Liners, capillary liners and service tools you will find in Chapter TOOLS and ACCESSORIES.

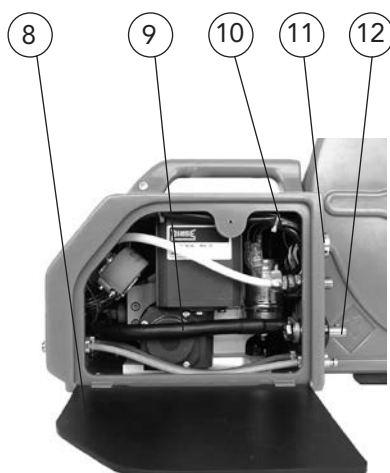
Wire feeder WD 300

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Drive view



Electronic view



Description	Part name		Part number
1 Cover plate catch	DIX	WD-13-400	739130000
2 Sealing cap	DIX	DV-32 DK	719329000
3 Potentiometer fixing	DIX	DV-WS-005/2	71814000510
4 Cover (drive)	DIX	WD-11-A	739110000
5 Intake spout	DIX	36-2 WDET	629363005
6 Screw, 2 pcs.	DIX	DV-17-4000	719174000
7 Connecting adapter	DIX	36-2 DV	629363000
Clamping sleeve, not shown	DIX	27-2 MAP	629270041
Clamping nut, not shown	DIX	28-2 SA	629280040
8 Cover (electronic)	DIX	WD-11-E	739110100
9 Power cable	DIX	DV-25-1410/095	719254141095
10 Solenoid valve	DIX	GMV-42	719280042
11 Mounting plug	DIX	DV-37-23/BURNDY	719377023
12 Plug	DIX	SE 50/70	122300050
13 Coupling socket	DIX	WDX 103	738100004
14 Mounting socket	DIX	DV-38-23/BURNDY	719387023

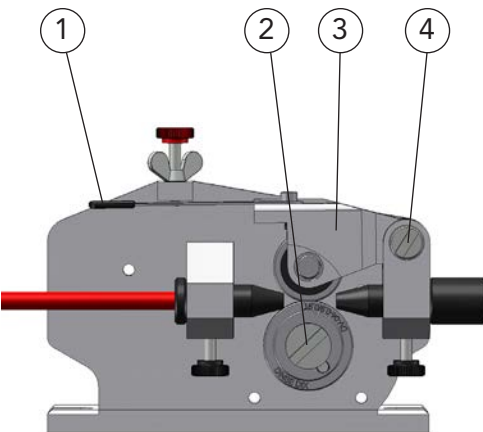


Wire feeder WD 300
Drive rolls, Drive, Wiring set

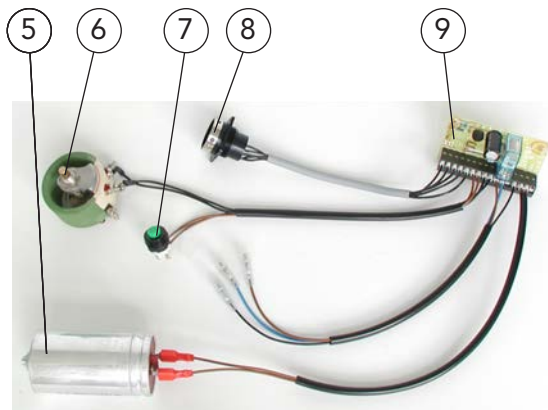


Description	Dimension	Part name		Part number
Type of application for steel wire electrodes:				
Drive roll	Wire ø 0.8 mm	DIX	DV-04-08/08 T	719042080
Drive roll	Wire ø 1.0 mm	DIX	DV-04-10/10 T	719042100
Drive roll	Wire ø 1.2 mm	DIX	DV-04-12/12 T	719042120
Drive roll	Wire ø 1.6 mm	DIX	DV-04-16/16 T	719042160
Type of application for aluminum alloy wire electrodes:				
Drive roll	Wire ø 0.8 mm	DIX	DV-04-08/08 A	719041080
Drive roll	Wire ø 1.0 mm	DIX	DV-04-10/10 A	719041100
Drive roll	Wire ø 1.2 mm	DIX	DV-04-12/12 A	719041120
Drive roll	Wire ø 1.6 mm	DIX	DV-04-16/16 A	719041160

➤ Each wire diameter requires its own drive roll. Other diameters on request.



2 rolls drive



Wiring set

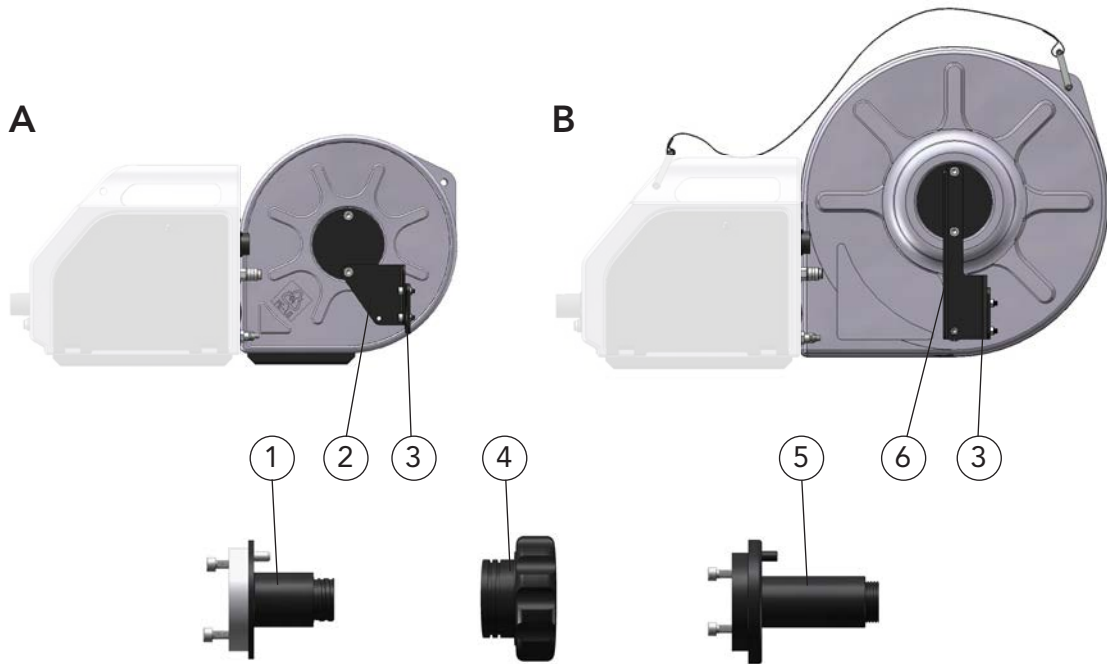
Description	Part name		Part number
1 Spring plate	DIX	DV-06 F	71906030013
2 Holding screw, for drive roll	DIX	DV-05 S	719050400
3 Pressure shackle, compl.	DIX	DV-06 P	719060300
4 Steering pivot pin	DIX	DV-07 S	719070400
5 Capacitor	DIX	DV-KS 02	718130002
6 Resistor	DIX	DV-WS-002/1	71814000211
7 Tipping switch	DIX	DV-32	719320000
8 Mounting plug	DIX	DV-37-23/BURNDY	719377023
9 Logic board	DIX	ESLO 0202	719430202



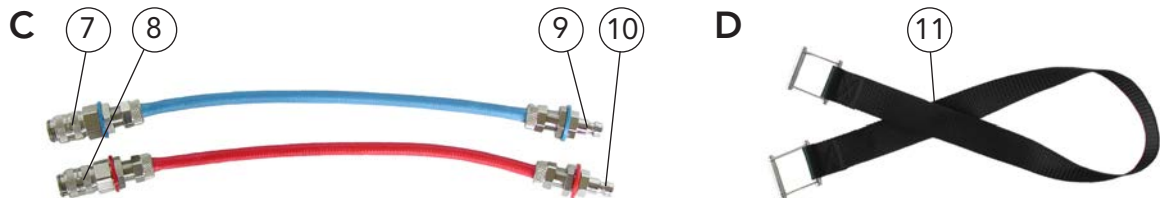
Spare and wear parts

Wire feeder WD 300

Spool holder, Water set, Carry strap set



Description	Part name		Part number
A Spool holder	DIX	WDS 200	730520000
B Spool holder	DIX	WDS 300	730530000
1 Spool mandrel (WDS 200)	DIX	WDS-19-200	739190020
2 ZS - support	DIX	WDS-23-120	739230120
3 ZS - supporting plate	DIX	WDS-23-200	739230200
4 Spool nut For DIX WDS 200(300)	DIX	DV-24-2400	719242400
5 Spool mandrel (WDS 300)	DIX	WDS-19-300	739190030
6 ZS - support	DIX	WDS-23-130	739230130
Spool holder cover Transparent, DIX WDS 200, not shown	DIX	WDS-11-200	739115200
Spool holder cover Transparent, DIX WDS 300, not shown	DIX	WDS-11-300	739115300



Description	Part name		Part number
C Water set	DIX	WDW 100	738040000
D Carry strap set	DIX	WDT 100	738020000
7 Plug coupling, blue	DIX	WD-30 BLAU	739300001
8 Plug coupling, red	DIX	WD-30 ROT	739300002
9 Water plug, blue	DIX	WD-26 BLAU	739260001
10 Water plug, red	DIX	WD-26 ROT	739260002
11 Carrying belt	DIX	WDT 100/01	73802000011



Control DIX FDE-x 100 L for automation LASER



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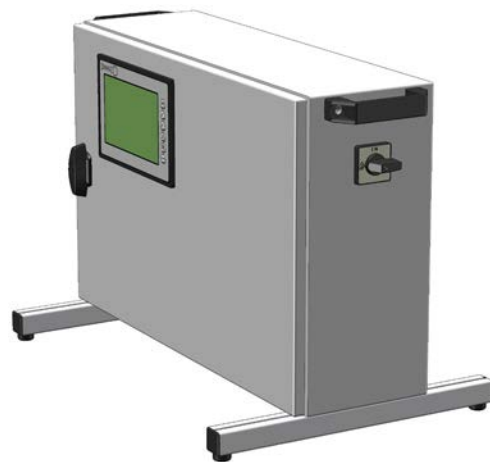
Technical data (IEC 60974-10):

Control	DIX FDE-x 100 L
Mains frequency	50 Hz - 60 Hz
Mains fuse	bei 230 VAC
(complete wire feeding system)	bei 115 VAC
Portection class	IP 54
Dimensions (L/W/H)	690 /404(201)/440 mm
Weight	approx. 25 kg

Properties

- Continuous wire feeding
- Extended process monitoring
- Optionally monitoring via Ethernet
- Process parameters can be stored and retrieved on internal SD card
- Maintenance interval monitoring individually adjustable
- Extension with common fieldbus systems possible
- Modern semiconductor technology
- Up to a maximum of 10 menu languages selectable
- Diagnostic, analog interface and line voltage capability

Options depending on range of application



Control DIX FDE 100 L - application sample



System with drive unit with torch head, control, spool holder and wire feeder application sample



Control DIX FDE-PN100 L, model with PROFINET

Application

- PUSH-PUSH and PUSH-PULL technology
- Diagnostic system
- Micro processor based control

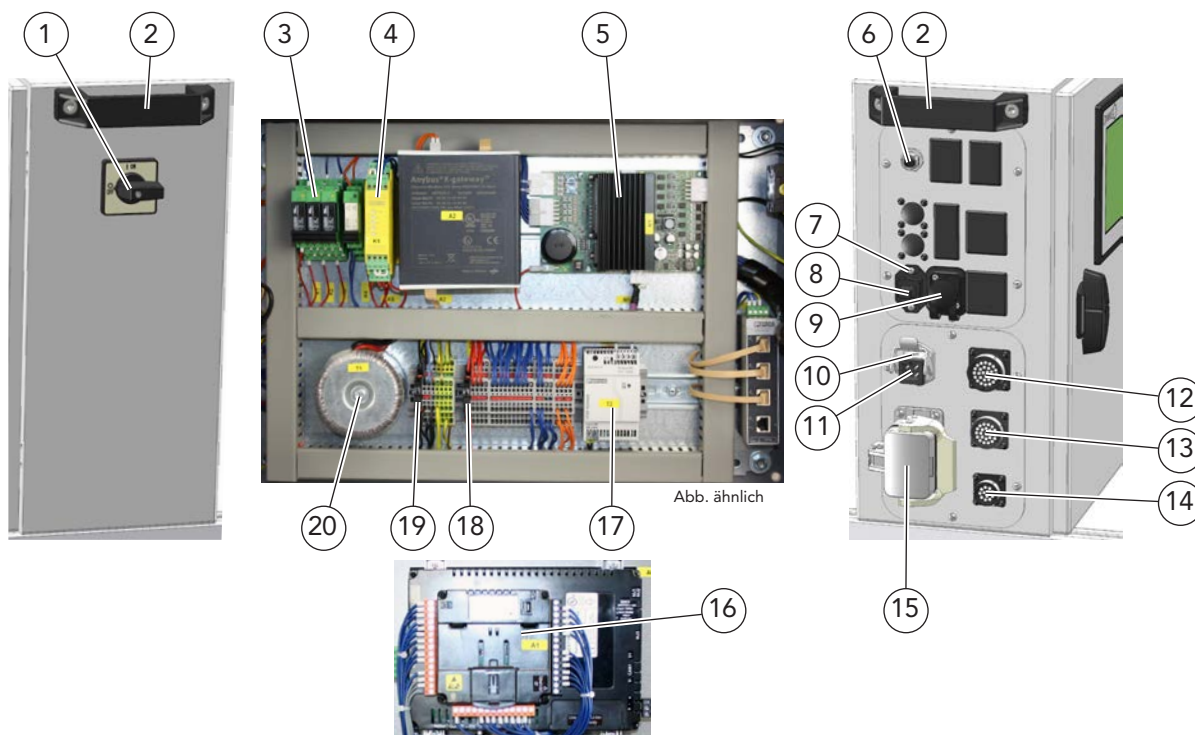
	Description / Interface	Part name	Part number
1	Control, not shown	DIX FDE100L	745000000
2	Control, CAN, not shown	DIX FDE-CAN100L	745000003
3	Control, DEVICENET, not shown	DIX FDE-DN100L	745000004
4	Control, PROFIBUS, not shown	DIX FDE-PB100L	745000002
5	Control, PROFINET	DIX FDE-PN100L	745000001
Optionen:			
6	Control, ETHERNET, INTERBUS, not shown	DIX FDE-EN-IP100L	745000124
7	Control, INTERBUS, Lichtwellenleiter, not shown	DIX FDE-IB-LWL100L	745000109
8	Control, PROFINET, Lichtwellenleiter, not shown	DIX FDE-PN-LWL100L	745000108



LASER automation

Control DIX FDE 100 L(/115)

Spare and wear parts



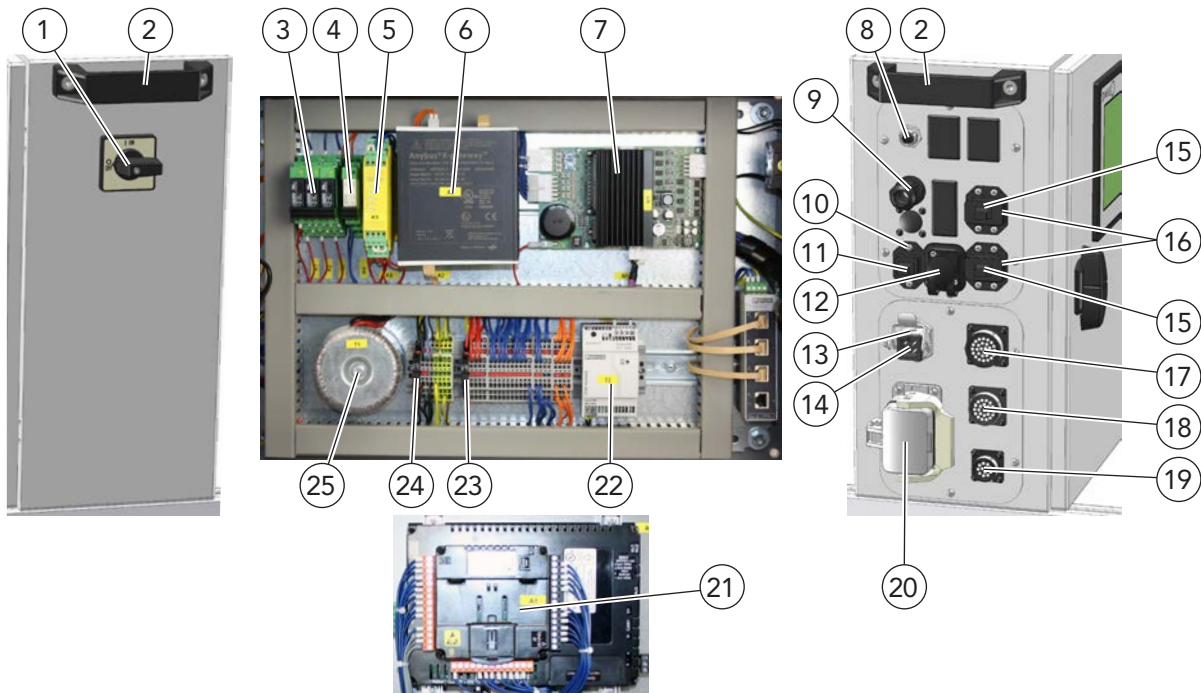
Description	Part name	Part number
Control, mains voltage 230 Vac	DIX FDE 100 L	745000000
Control, mains voltage 115 Vac	DIX FDE 100 L/115	745000005
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Safety relay	DIX PSR-SPP-24 DC	737050008
5 Servo amplifier	DIX ESSV 0600	745000030
6 Connection cable, incl. mounting socket for CAN-BUS, optionally	DIX FDVK 270 PI	737060023
7 Mounting frame	DIX RJ45 AR	745000017
8 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, Plastic, not shown	DIX RJ45 ST	745000020
9 Interface adapter	DIX USB A / USB B	629900271
10 Mounting housing	DIX HAN 3 A	71990000512
11 Pin insert (m)	DIX HAN 4 A	71990000511
12 Mounting socket	DIX DV-38-28/BURNDY	719387028
13 Mounting socket	DIX DV-38-23/BURNDY	719387023
14 Mounting socket	DIX 41-2-BURNDY 12P	629411001
15 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
16 Control, not programmed	DIX XL7E	745000029
17 Power supply 24V/1.3A	DIX NT 324-13	737030021
18 Fuse terminal block	DIX PT 4-HESILED 60	745000121
19 Fuse terminal block	DIX PT 4-HESILA 250	745000120
20 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patch cable, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269



Control DIX FDE-DN 100 L(/115)



Spare and wear parts



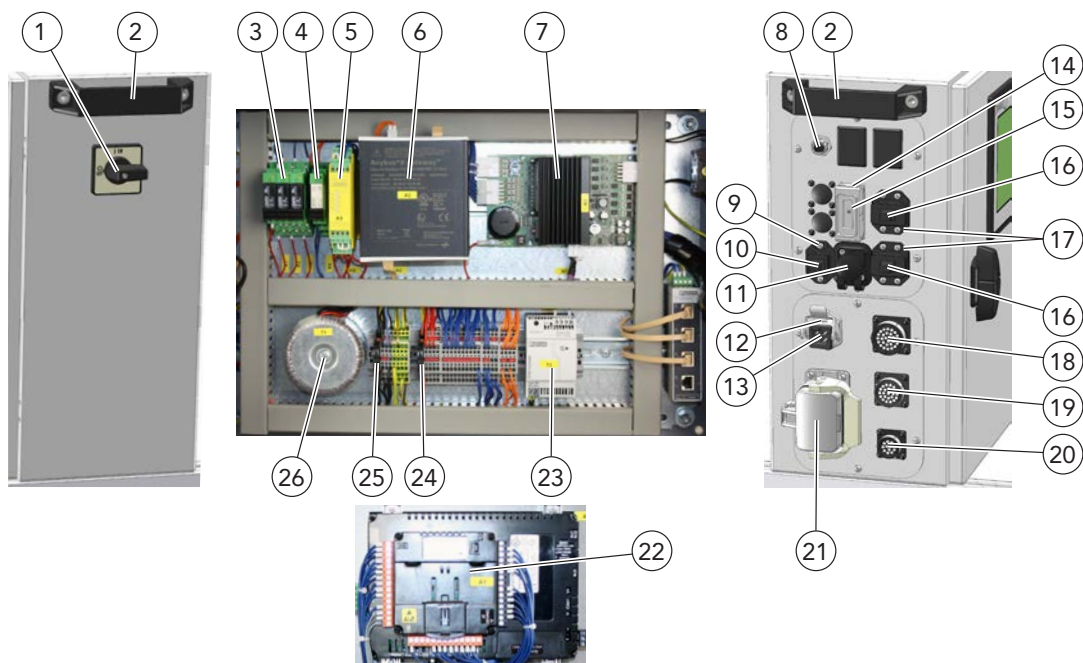
Description	Part name	Part number
Control, mains voltage 230 VAC	DIX FDE-DN 100 L	745000004
Control, mains voltage 115 VAC	DIX FDE-DN 100 L/115	745000009
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Devicenet, without programming	DIX BSDN100	745000079
7 Servo amplifier	DIX ESSV 0600	745000030
8 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDVK 270 PI	737060023
9 Cable gland, M20x1.5 black		719900030
10 Mounting frame	DIX RJ45 AR	745000017
11 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, plastic, not shown	DIX RJ45 ST	745000020
12 Interface adapter	DIX USB A / USB B	629900271
13 Mounting housing	DIX HAN 3 A	71990000512
14 Pin insert (m)	DIX HAN 4 A	71990000511
15 Protective cover	DIX AIDA SPG. I	745000022
16 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
17 Mounting socket	DIX DV-38-28/BURNDY	719387028
18 Mounting socket	DIX DV-38-23/BURNDY	719387023
19 Mounting socket	DIX 41-2-BURNDY 12P	629411001
20 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
21 Control, without programming	DIX XL7E	745000029
22 Power supply 24V/1.3A	DIX NT 324-13	737030021
23 Fuse terminal block	DIX PT 4-HESILED 60	745000121
24 Fuse terminal block	DIX PT 4-HESILA 250	745000120
25 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

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Control DIX FDE-IB 100 L(/115)

Spare and wear parts



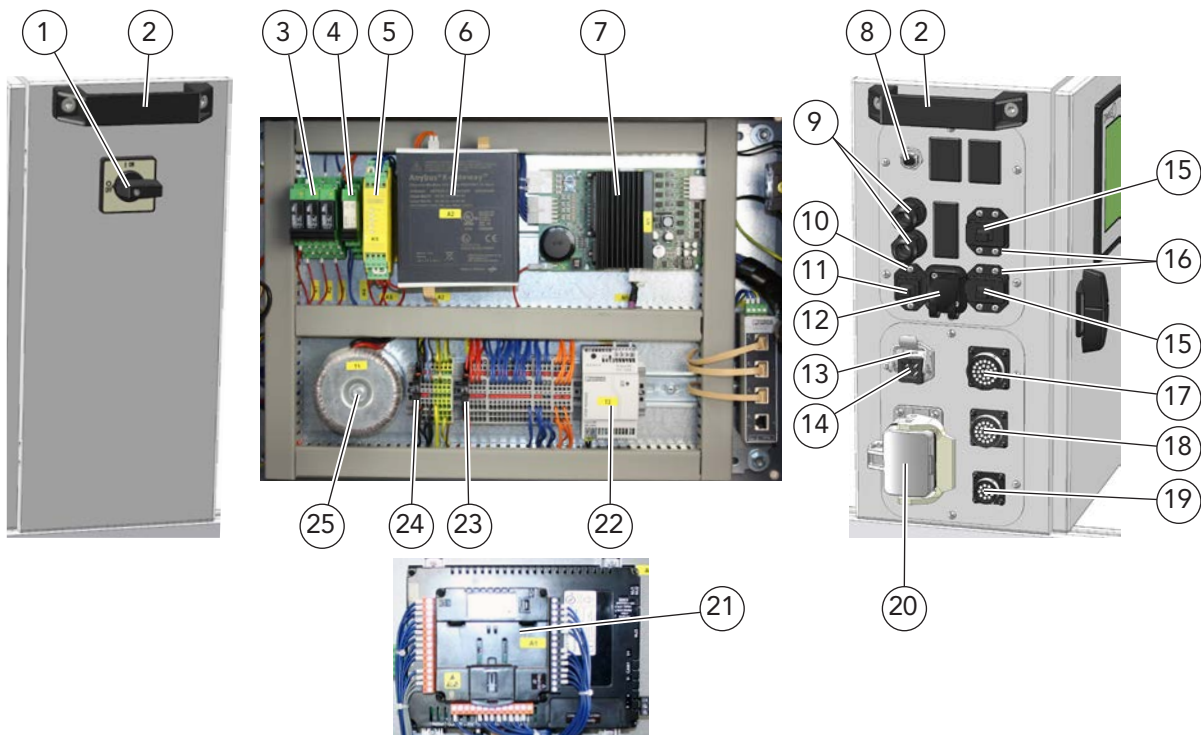
Description	Part name	Part number
Control, mains voltage 230 Vac	DIX FDE-IB2M 100 L	745000082
Control, mains voltage 115 Vac	DIX FDE-IB2M 100 L/115	745000138
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Interbus CU, without programming	DIX BSIB100	745000083
7 Servo amplifier	DIX ESSV 0600	745000030
8 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDVK 270 PI	737060023
9 Mounting frame	DIX RJ45 AR	745000017
10 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, Plastic, not shown	DIX RJ45 ST	745000020
11 Interface adapter	DIX USB A / USB B	629900271
12 Mounting housing	DIX HAN 3 A	71990000512
13 Pin insert (m)	DIX HAN 4 A	71990000511
14 Mounting frame	DIX D-SUB 9pol ST/ST	745000089
15 Protective cover	DIX D-SUB 9 pol.	745000024
Plug connector, plastic, not shown	DIX D-SUB 9pol Interbus	745000090
16 Protective cover	DIX AIDA SPG.	745000022
17 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
18 Mounting socket	DIX DV-38-28/BURNDY	719387028
19 Mounting socket	DIX DV-38-23/BURNDY	719387023
20 Mounting socket	DIX 41-2-BURNDY 12P	629411001
21 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
22 Control, without programming	DIX XL7E	745000029
23 Power supply 24V/1.3A	DIX NT 324-13	737030021
24 Fuse terminal block	DIX PT 4-HESILED 60	745000121
25 Fuse terminal block	DIX PT 4-HESILA 250	745000120
26 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

Control

DIX FDE-IB-LWL 100 L(/115)



Spare and wear parts



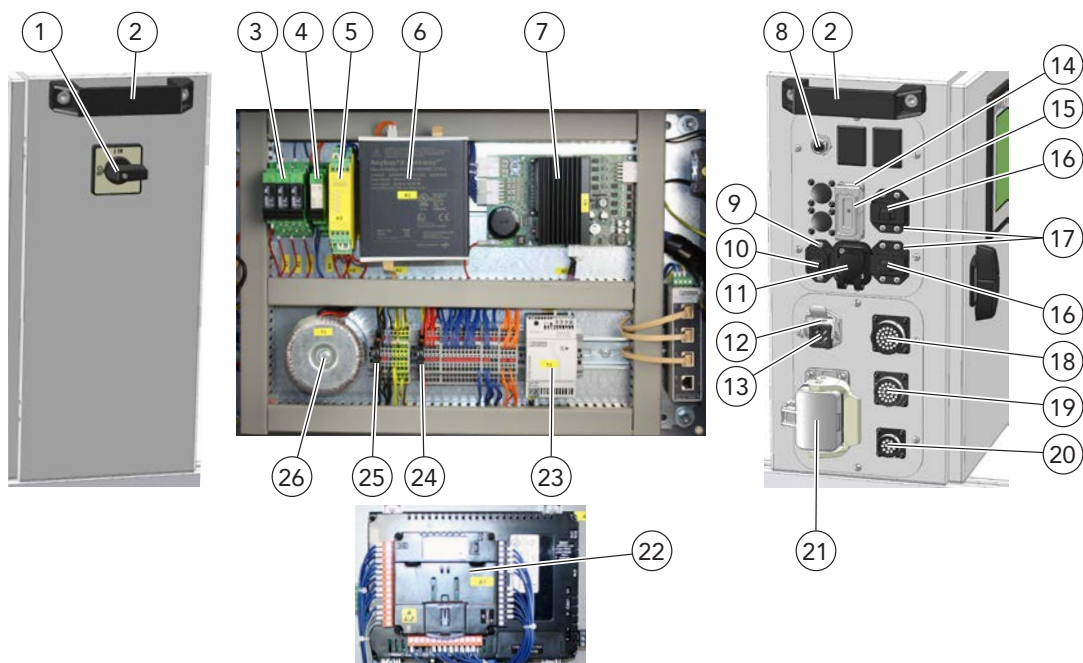
Description	Part name	Part number
Control, mains voltage 230 VAC	DIX FDE-IB-LWL 100 L	745000109
Control, mains voltage 115 VAC	DIX FDE-IB-LWL 100 L/115	745000139
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Interbus, without programming	DIX BSIBLWL100	745000112
7 Servo amplifier	DIX ESSV 0600	745000030
8 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDKV 270 PI	737060023
9 Cable gland, M20x1.5 black		719900030
10 Mounting frame	DIX RJ45 AR	745000017
11 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, plastic, not shown	DIX RJ45 ST	745000020
12 Interface adapter	DIX USB A / USB B	629900271
13 Mounting housing	DIX HAN 3 A	71990000512
14 Pin insert (m)	DIX HAN 4 A	71990000511
15 Protective cover	DIX AIDA SPG.	745000022
16 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
17 Mounting socket	DIX DV-38-28/BURNDY	719387028
18 Mounting socket	DIX DV-38-23/BURNDY	719387023
19 Mounting socket	DIX 41-2-BURNDY 12P	629411001
20 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
21 Control, without programming	DIX XL7E	745000029
22 Power supply 24V/1.3A	DIX NT 324-13	737030021
23 Fuse terminal block	DIX PT 4-HESILED 60	745000121
24 Fuse terminal block	DIX PT 4-HESILA 250	745000120
25 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

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Control DIX FDE-PB 100 L(/115)

Spare and wear parts



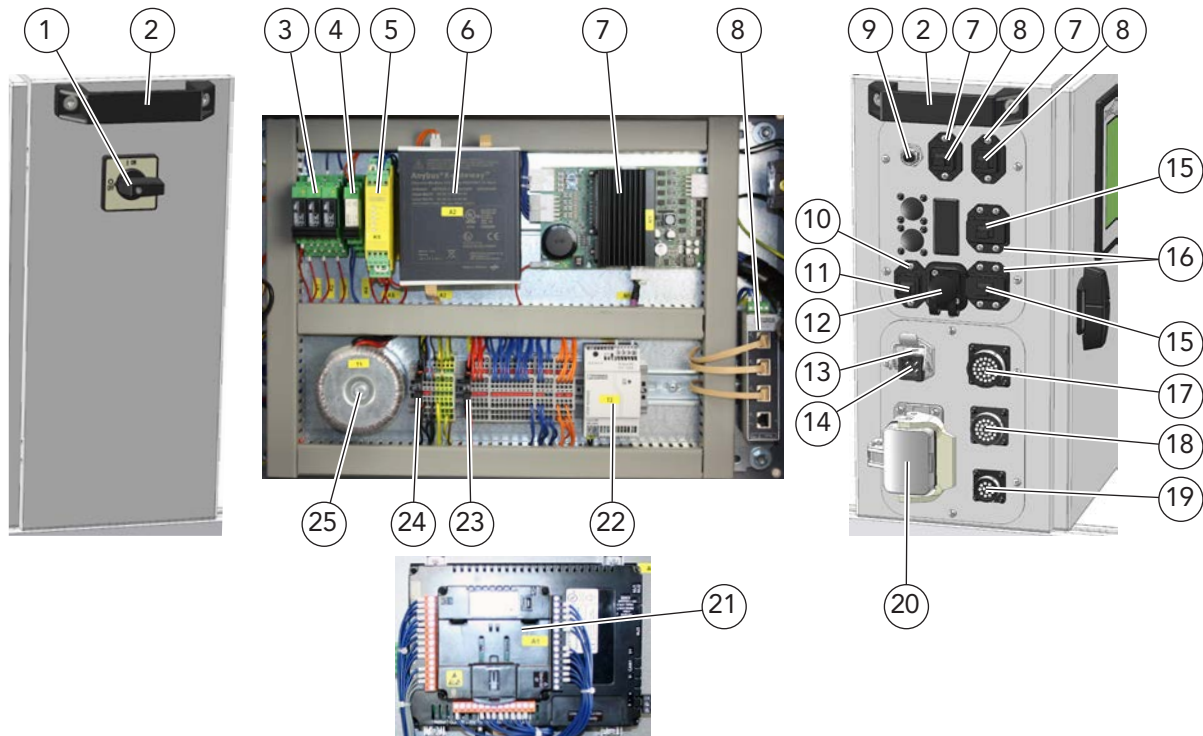
Description	Part name	Part number
Control, mains voltage 230 Vac	DIX FDE-PB 100 L	745000002
Control, mains voltage 115 Vac	DIX FDE-PB 100 L/115	745000007
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Profibus, without programming	DIX BSPB100	745000080
7 Servo amplifier	DIX ESSV 0600	745000030
8 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDVK 270 PI	737060023
9 Mounting frame	DIX RJ45 AR	745000017
10 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, plastic, not shown	DIX RJ45 ST	745000020
11 Interface adapter	DIX USB A / USB B	629900271
12 Mounting housing	DIX HAN 3 A	71990000512
13 Pin insert (m)	DIX HAN 4 A	71990000511
14 Mounting frame	DIX D-SUB 9pol Bu/Bu	745000052
15 Protective cover	DIX D-SUB 9 pol.	745000024
D-SUB Plug connector 9pol Profibus, plastic, not shown		745000053
16 Protective cover	DIX AIDA SPG.	745000022
17 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
18 Mounting socket	DIX DV-38-28/BURNDY	719387028
19 Mounting socket	DIX DV-38-23/BURNDY	719387023
20 Mounting socket	DIX 41-2-BURNDY 12P	629411001
21 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
22 Control, without programming	DIX XL7E	745000029
23 Power supply 24V/1.3A	DIX NT 324-13	737030021
24 Fuse terminal block	DIX PT 4-HESILED 60	745000121
25 Fuse terminal block	DIX PT 4-HESILA 250	745000120
26 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

Control

DIX FDE-PN 100 L(/115)



Spare and wear parts



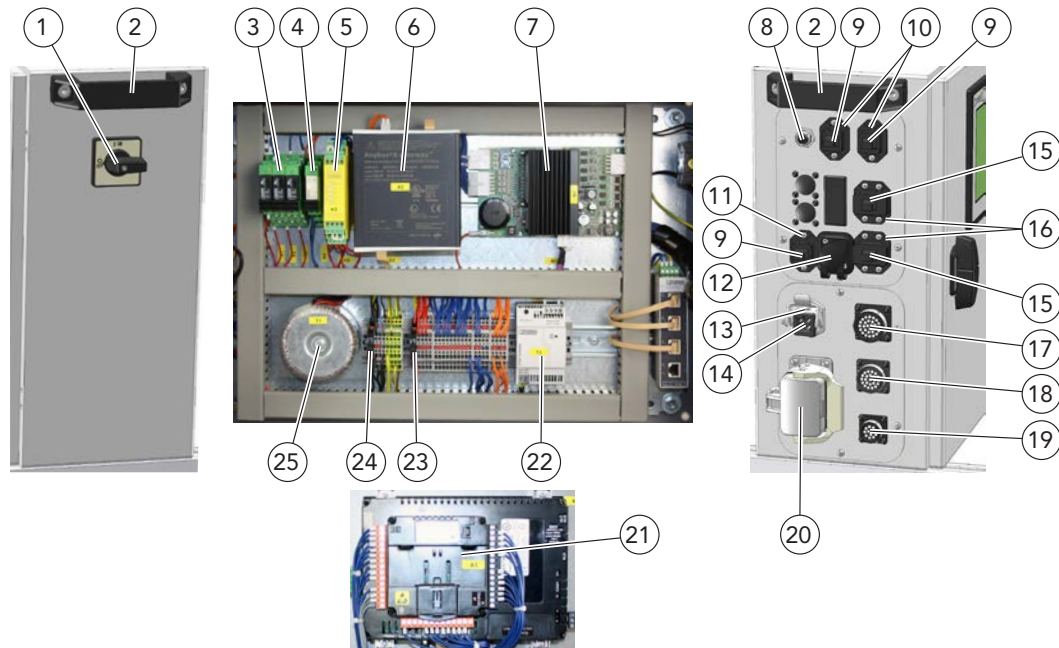
Description	Part name	Part number
Control, mains voltage 230 VAC	DIX FDE-PN 100 L	745000001
Control, mains voltage 115 VAC	DIX FDE-PN 100 L/115	745000006
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Profinet, without programming	DIX BSPN100	745000078
7 Servo amplifier	DIX ESSV 0600	745000030
8 Ethernet Switch	DIX RJ45 ES	745000047
9 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDKV 270 PI	737060023
10 Mounting frame	DIX RJ45 AR	745000017
11 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, plastic, not shown	DIX RJ45 ST	745000020
12 Interface adapter	DIX USB A / USB B	629900271
13 Mounting housing	DIX HAN 3 A	71990000512
14 Pin insert (m)	DIX HAN 4 A	71990000511
15 Protective cover	DIX AIDA SPG.	745000022
16 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
17 Mounting socket	DIX DV-38-28/BURNDY	719387028
18 Mounting socket	DIX DV-38-23/BURNDY	719387023
19 Mounting socket	DIX 41-2-BURNDY 12P	629411001
20 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
21 Control, without programming	DIX XL7E	745000029
22 Power supply 24V/1.3A	DIX NT 324-13	737030021
23 Fuse terminal block	DIX PT 4-HESILED 60	745000121
24 Fuse terminal block	DIX PT 4-HESILA 250	745000120
25 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

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Control DIX FDE-PN-LWL 100 L(/115)

Spare and wear parts

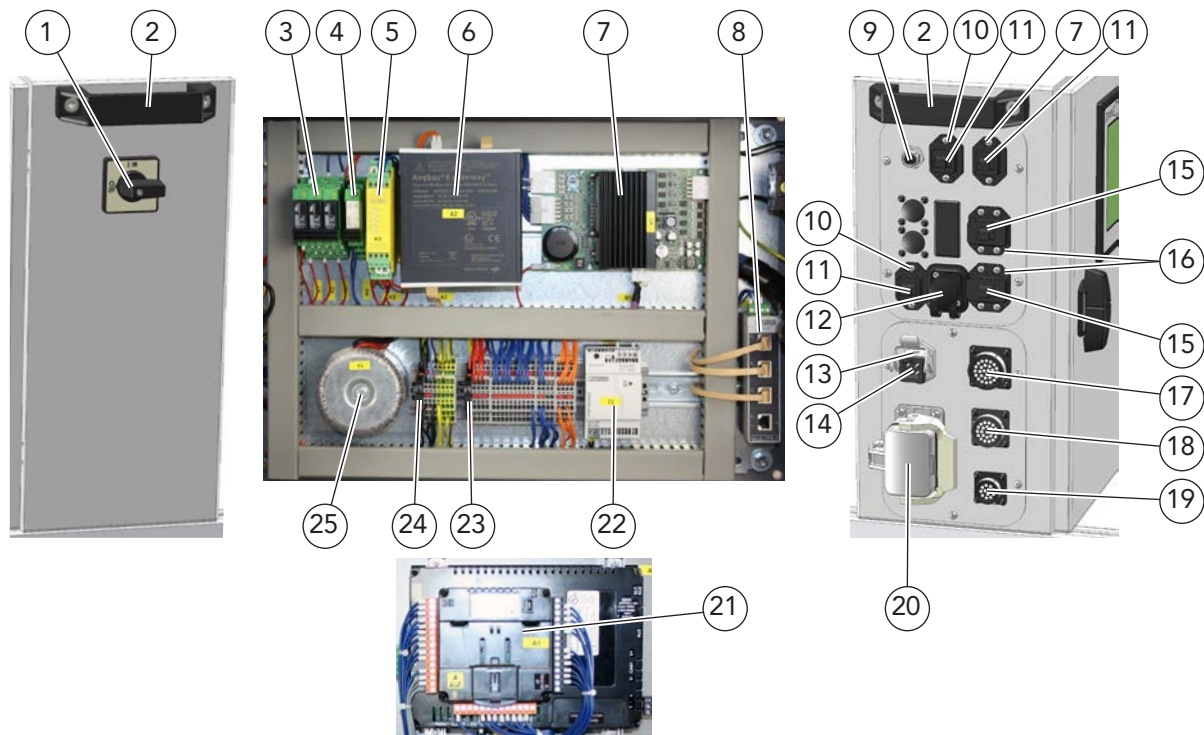


Description	Part name	Part number
Control, mains voltage 230 VAC	DIX FDE-PN-LWL 100 L	745000108
Control, mains voltage 115 VAC	DIX FDE-PN-LWL 100 L	745000140
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module Profinet, without programming	DIX BSPN100	745000078
7 Servo amplifier	DIX ESSV 0600	745000030
8 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDVK 270 PI	737060023
9 Protective cover	DIX RJ45 SD	745000019
10 Mounting frame metal	DIX SCRJ MNNA	745000102
Coupling metal, not shown	DIX MSTB	745000099
Power-Plug connector, not shown	DIX MSTB-Metal	745000103
11 Mounting frame-Set	DIX MNNA Metal	745000100
Plug connector, not shown	DIX RJ45 Metal	745000098
12 Interface adapter	DIX USB A / USB B	629900271
13 Mounting housing	DIX HAN 3 A	71990000512
14 Socket insert	DIX HAN Q5 / 6pol	745000105
15 Protective cover	DIX AIDA SPG.	745000022
16 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
17 Mounting socket	DIX DV-38-28	719388028
18 Mounting socket	DIX DV-38-23	719388023
19 Mounting socket	DIX 41-2 12P	629411011
20 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
21 Control, without programming	DIX XL7E	745000029
22 Power supply 24V/1.3A	DIX NT 324-13	737030021
23 Fuse terminal block	DIX PT 4-HESILED 60	745000121
24 Fuse terminal block	DIX PT 4-HESILA 250	745000120
25 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 Pcs., not shown	DIX Fine fuse 4.0 A (10 Pcs.)	629900269
Profi-Net, not shown	DIX Scalance X202-2PIRT	745000104
LWL-Patchkabel, 2 x benötigt, not shown	DIX 1-FOC-PN-C-1003IP20	745000114

Control DIX FDE-EN-IP 100 L(/115)



Spare and wear parts



Description	Part name	Part number
Control, Mains voltage 230 Vac	DIX FDE-EN-IP 100 L	745000124
Control, Mains voltage 115 Vac	DIX FDE-EN-IP 100 L/115	745000126
1 Power switch	DIX WD 2-20	719590018
2 Handle, front and rear	DIX DV-14-4000	719144000
3 Power relay 1pol, 3 pcs.	DIX DV-LR-24	718501608
4 Relay 2pol.	DIX DV-R-24	718501607
5 Safety relay	DIX PSR-SPP-24 DC	737050008
6 Bus module EtherNet/IP, without programming	DIX BSEN/IP	745000123
7 Servo amplifier	DIX ESSV 0600	745000030
8 Ethernet Switch	DIX RJ45 ES	745000047
9 Connection cable, inkl. Mounting socket for CAN-BUS, optionally	DIX FDKV 270 PI	737060023
10 Mounting frame	DIX RJ45 AR	745000017
11 Protective cover	DIX RJ45 SD	745000019
Socket insert, not shown	DIX RJ45 BE	745000018
Plug connector, plastic, not shown	DIX RJ45 ST	745000020
12 Interface adapter	DIX USB A / USB B	629900271
13 Mounting housing	DIX HAN 3 A	71990000512
14 Pin insert (m)	DIX HAN 4 A	71990000511
15 Protective cover	DIX AIDA SPG.	745000022
16 Coupling metal	DIX MSTB	745000099
Plug Power-Bus, not shown	DIX MSTB-PB	745000076
17 Mounting socket	DIX DV-38-28/BURNDY	719387028
18 Mounting socket	DIX DV-38-23/BURNDY	719387023
19 Mounting socket	DIX 41-2-BURNDY 12P	629411001
20 Mounting housing with cap	DIX HAN 6 ESS	71990002712
Socket insert (m), not shown	DIX HAN 6 ES	71990001913
21 Control, without programming	DIX XL7E	745000029
22 Power supply 24V/1.3A	DIX NT 324-13	737030021
23 Fuse terminal block	DIX PT 4-HESILED 60	745000121
24 Fuse terminal block	DIX PT 4-HESILA 250	745000120
25 Toroidal transformer 2x 115/42V/160VA	DIX Toroidal transformer 2x 115/42V/160VA	719590026
Patchkabel, not shown	DIX 1.5 HB	745000025
Socket shell, low design 6B, not shown	DIX Socket shell, low design 6B	71990003412
Fine fuse 4.0 A, 10 pcs., not shown	DIX Fine fuse 4.0 A (10 pcs.)	629900269

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Remote panel for DIX FDE-Control DIX FDE-RP 100-5 For robot and automation applications

1



Description		Part name		Part number
1	Remote panel, kompl.	DIX	FDE-RP 100-5	745000058

► Other models on request.

LASER automation



Hot wire power source DIX PI 270-HW for robot and automation applications

1

Technical data (IEC 60974-1):

Power source	DIX PI 270
Mains voltage	3 x 400 VAC
Mains frequency	50 Hz - 60 Hz
Mains voltage tolerance	- 20% / + 25%
Mains fuse	32 A slow blow (16 A possible)
Power connection cable	4 x 4,0 mm ² (4 x 2,5 mm ² at 16 A)
Output	
Open-circuit voltage	< 15 V
Welding current	5 A - 270 A
Protection class	IP 23
Safety marking	S mark
Dimension (L/W/H)	710 /340/610 mm
Weight	approx. 40 kg
Options:	
Cooling module	DIX CM 1200
Cooling module	DIX CM 1500
Remote panel	DIX RP 100 E



Power source DIX PI 270-HW - with or without cooling modul
DIX CM 1200/1500 applicable
Options according to the application



Application sample
System with hot wire power source, cooling modul, control, front drive and wire feeder with spool holder

Properties

- The modular design allows a lot of variants
- Robot interface for automatic applications
- All parameters for welding procedures, material and function are adjustable
- Bus connection for data transfer and control signals



Remote panel DIX RP 100 E (optionally)

Application

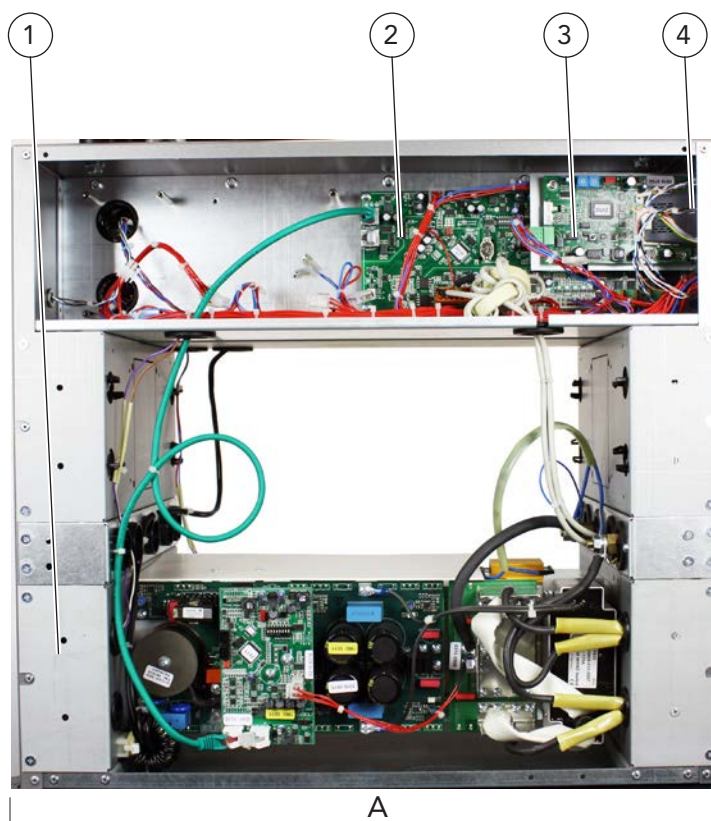
- For automatic laser hot wire welding

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Hot wire power source DIX PI 270-HW For robot and automation applications

Right view



Description	Part name	Part number
A Power source, 32 A connection, for standard configuration	DIX PI 270-HW	7410010273
Spare and wear parts:		
1 Fan with cable harness + plug	DIX PI FAN	7410087015
2 Printed circuit board	DIX PI MSR 2	7410087026
Robotic interface board:		
3 Interface Modul	DIX INT SBX	7410081202
4 Busmodul CANOpen	DIX INT CANOpen	7410081205

Hot wire power source

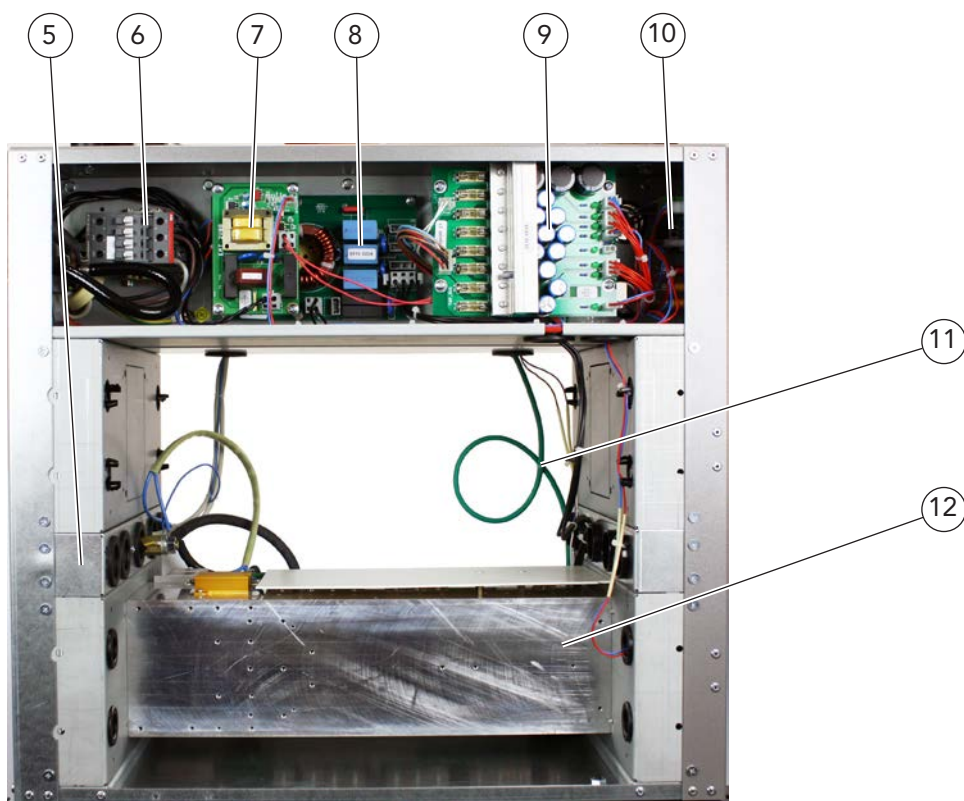
DIX PI 270-HW

For robot and automation applications



1

Left view



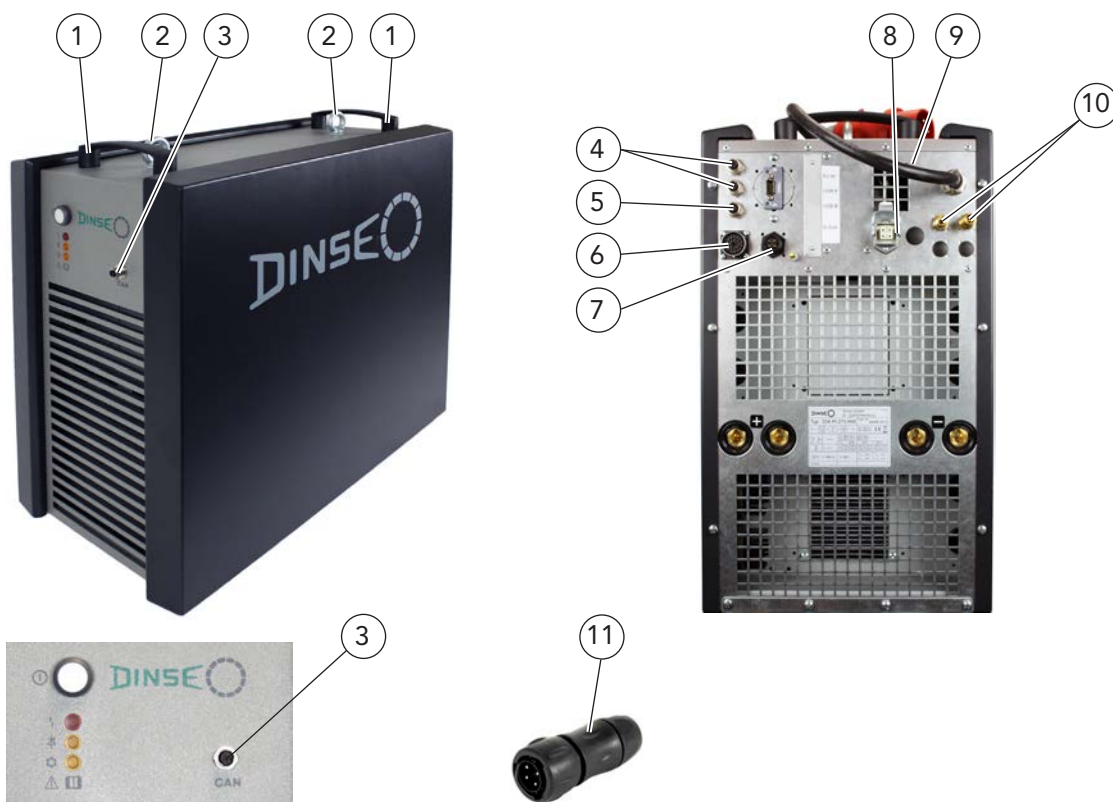
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Description	Part name	Part number	Artikelnummer
Spare and wear parts:			
5 Cassette, complete, for PI 270-HW		DIX PI WCB 270/400	7410087001
6 Contactor		DIX PI CONTACTOR	7410087016
7 Printed circuit board		DIX PI EAT	7410087017
8 Printed circuit board		DIX PI PF2	7410087018
9 Printed circuit board		DIX PI TGP	7410087019
Toroidal core control transformer, not shown		DIX PI TRF	7410087020
10 Printed circuit board,		DIX PI FLGB	7410087021
Patch cable, red, not shown	0.5 m	DIX PATCH RD-05	7410087022
Patch cable, red, not shown	1.0 m	DIX PATCH RD-10	7410087045
11 Patch cable, green	0.5 m	DIX PATCH GN-05	7410087046
Patch cable, green	1.0 m	DIX PATCH GN-10	7410087023
12 Inverter module, One-sided assembling for PI 270-HW		DIX PI Inverter 1	7410087024



Hot wire power source DIX PI 270-HW For robot and automation applications

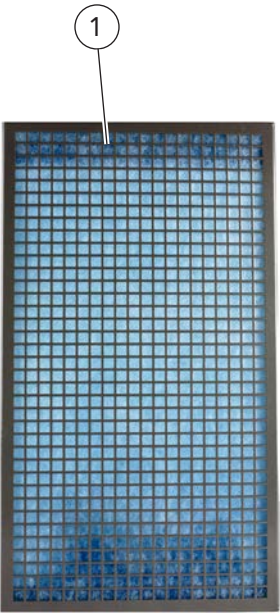
Spare and wear parts



Description	Part name	Part number	Artikelnummer
1 Handle	DIX GRIP		7410081103
2 Jack ring M10, 2 pcs.	DIX EYE BOLTS		7410081100
3 Mounting socket, compl., 5-pin, (Socket with cable harness)	DIX CON CAN 1		7410087006
4 Mounting socket, 5-pin	DIX CON CAN 2		7410087007
5 Mounting socket, 8-pin, Automatic interfaces	DIX CON AUTO		7410087011
6 Mounting socket, 23-pin, (Socket with cable harness, for wire feeder)	DIX CON WF		7410087047
7 Mounting socket, 4-pin, (Socket with cable harness, for CM 1200)	DIX CON CM/AS		7410087008
8 Mounting socket, 4-pin, (Socket with cable harness, for CM main connection)	DIX CON CM/PS		7410087012
9 Main cable 32 A, for PI 270/400/500	5,0 m DIX PI MC 32A-5		7410087013
10 Solenoid valve 24 Vdc	DIX GMV GAS 24V DC		7333050404
11 Coding plug cooling For applications without cooling module	DIX CM C PLUG		7410082301

Hot wire power source
DIX PI 270-HW
For robot and automation applications

Zubehör



Description		Part name	Part number
1	Filter mat kit	DIX FM KIT PI	7410081101
	Filter mat set, 10 pcs., not shown	DIX FM PI - 10	7410081102



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Cooling modules for DIX PI-Power sources

DIX CM 1200/5 (E) (S)

For robotic- and automatic applications

Technical data (IEC 60974-2/10):

Cooling module	DIX CM 1200/5
Cooling type	Air Forced (AF)
Cooling performance at 25°	max. 1200 watts
Cooling loop pressure	max. 3.8 bar
Tank volume, approx.	5.0 litres
Protection class	IP 23
Dimensions (L/W/H)	710/340/255 mm
Weight, approx. (without coolant)	25 kg

Properties

- The modular design allows a lot of variants
- Standard - control by the power source

Application

- For automatic operation
- Device cooling module for liquid cooled MIG/MAG welding application

Options according to range of application



Cooling module DIX CM 1200/5, DIX CM 1200/5 E and DIX CM 1200/5 S



Application sample - Power source with cooling module



A



	Description	Part name	Part number
A	Cooling module Standard control, 1.2 KW cooling performance	DIX CM 1200/5	7410020101
	Cooling module External operation, 1.2 KW cooling performance, not shown	DIX CM 1200/5 E	7410020103
	Cooling module Separate operation, 1.2 KW cooling performance, not shown	DIX CM 1200/5 S	7410020105
1	Coolant, 10 litres	DIX CM LIQUID 10	7410082100
	➤ Liquid capacity of the cooling modules 5 litres.		

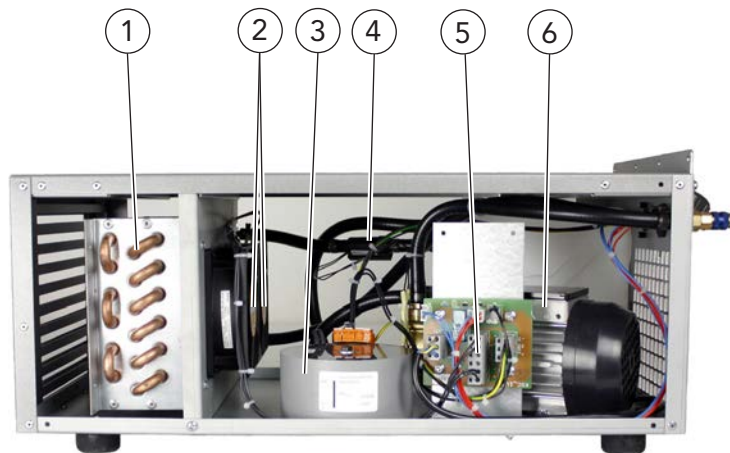
Cooling modules MIG/MAG for DIX PI-Power sources

DIX CM 1200/5 (E) (S)

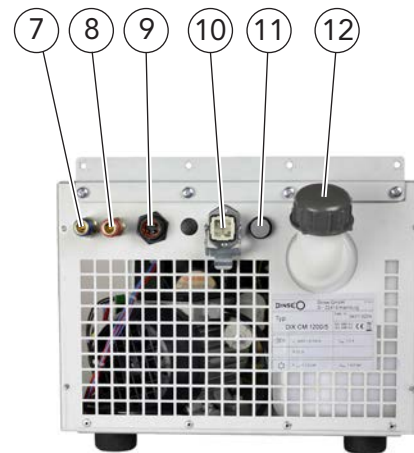
For robotic- and automatic applications



Spare and wear parts



Right view



Back side

	Description	Part name	Part number
1	Heat exchanger For cooling modules DIX CM 1200/1500	DIX CM HE	7410087027
2	Ventilator For cooling module DIX CM 1200	DIX CM1200 FAN	7410087028
3	Toroidal core transformer, For 400V/230V	DIX CM TRF	7410087029
4	Pressure monitor For cooling module DIX CM 1200/5	DIX CM FW	7410087038
5	Printed circuit board For cooling module DIX CM 1200	DIX CM KGC	7410087032
6	Water pump, 230V	DIX CM CP	7410087031
7	Coupling socket, blue	DIX CM KD BL	7410087033
8	Coupling socket, red	DIX CM KD RD	7410087034
9	Mounting plug, 4-pin For DIX PI standard version CM 1200/5	DIX CON CM/AP	7410087048
10	Mounting plug, 4-pin, plug with cable harness	DIX CON CM/PP	7410087049
11	Push-button, grey	DIX CM Button	7410087035
12	Cover, for cooling water tank	DIX CM CAP	7410087036

LASER automation



Cooling modules for DIX PI-Power sources

DIX CM 1500/5 CAN (E CAN)

For robotic- and automatic applications

Technical data (IEC 60974-2/10):

Cooling module	DIX CM 1500/5 CAN
Cooling type	Air Forced (AF)
Cooling performance at 25°	max. 1500 watts
Cooling loop pressure	max. 3.8 bar
Tank volume, approx.	5.0 litres
Protection class	IP 23
Dimensions (L/W/H)	710/340/255 mm
Weight, approx. (without coolant)	25 kg

Properties

- The modular design allows a lot of variants
- CAN-Bus - control by the power source

Application

- For automatic operation
- Device cooling module for liquid cooled MIG/MAG welding application
- Operation only in connection with
DINSE robot welding power source
DIX PI 270/400/500/600

Options according to range of application



Cooling module DIX CM 1500/5 CAN,
DIX CM 1500/5 E CAN



Application sample - Power source with cooling module



A



1

	Description	Part name	Part number
A	Cooling module CAN-Bus control, 1.5 KW cooling performance	DIX CM 1500/5 CAN	7410020102
	Cooling module CAN-Bus control, 1.5 KW cooling performance, External operation, not shown	DIX CM 1500/5 E CAN	7410020104
1	Coolant, 10 litres	DIX CM LIQUID 10	7410082100

- Capacity of the cooling modules 5 litres.



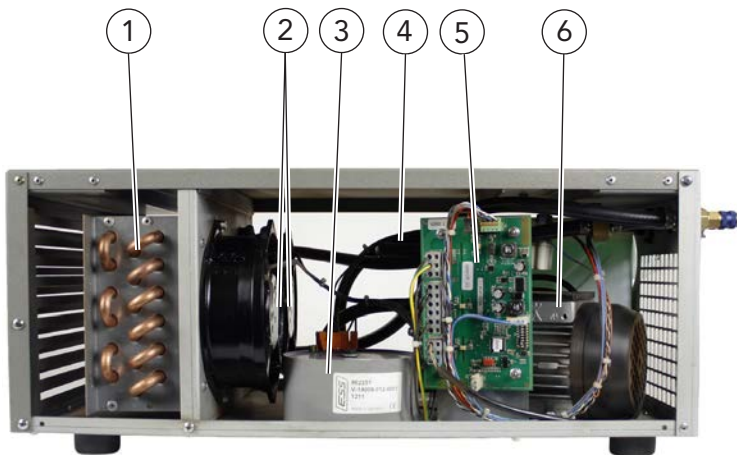
Cooling modules for DIX PI-Power sources

DIX CM 1500/5 CAN (E CAN)

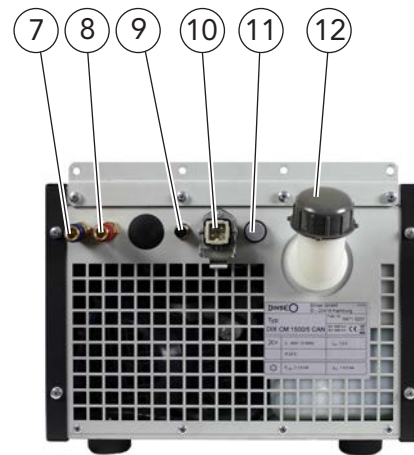
For robotic- and automatic applications



Spare and wear parts



Right view



Back side

	Description	Part name		Part number
1	Heat exchanger For cooling modules DIX CM 1200/5 and CM 1500/5	DIX	CM HE	7410087027
2	Ventilator For cooling module DIX CM 1500	DIX	CM1500 FAN	7410087050
3	Toroidal core transformer, For 400V/230V	DIX	CM TRF	7410087029
4	Flowmeter For cooling module DIX CM 1500/5	DIX	CM FHKC	7410087030
5	Printed circuit board For cooling module DIX CM 1500/5	DIX	CM KGP	7410087037
6	Water pump, 230V	DIX	CM CP	7410087031
7	Coupling socket, blue	DIX	CM KDBL	7410087033
8	Coupling socket, red	DIX	CM KDRD	7410087034
9	Mounting plug, 5 pin (plug with cable harness), for DIX CM 1500/5 CAN, tilted	DIX	CON CAN 3	7410087003
10	Mounting plug, 4-pin For cooling module DIX CM 1500/5	DIX	CON CM/AD	7410087004
11	Push-button, grey	DIX	CM - Button	7410087035
12	Cover For cooling water tank	DIX	CM CAP	7410087036

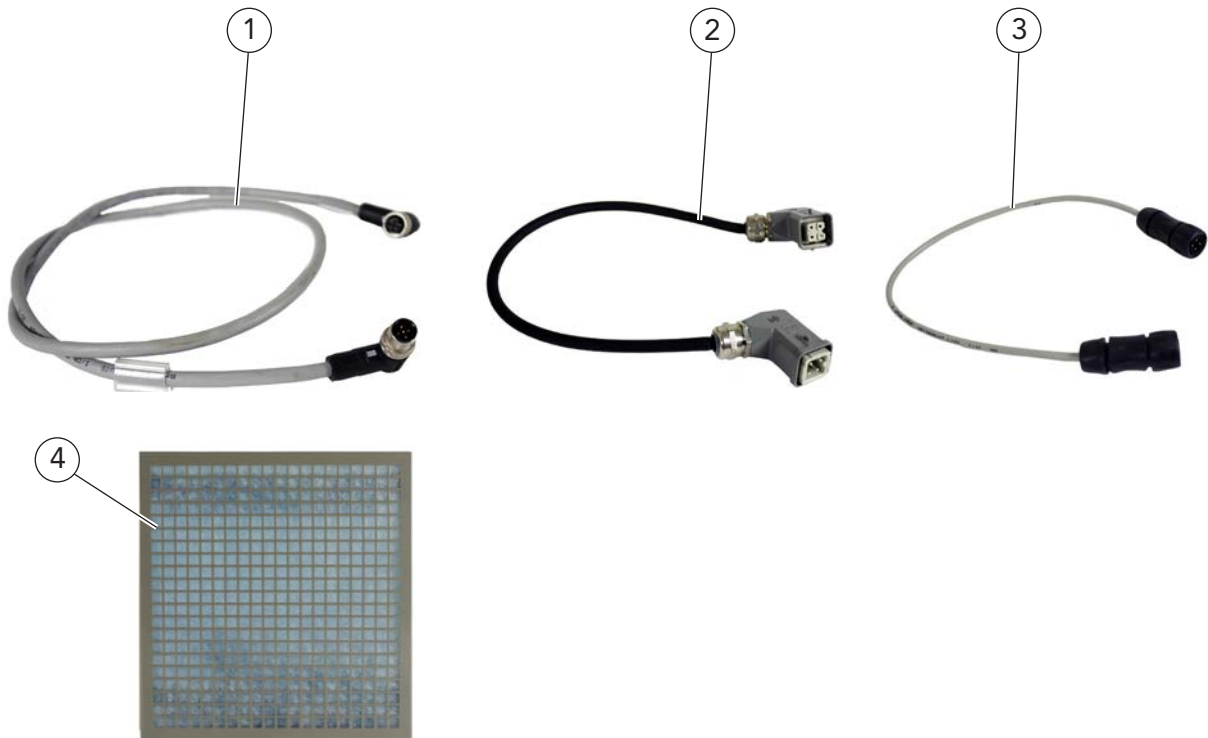
LASER automation

1



Cooling modules for DIX PI-Power sources DIX CM 1200/5 (E) (S) / DIX CM 1500/5 CAN (E CAN) For robotic- and automatic applications

Accessories



	Description	Dimension	Part name		Part number
1	Connection cable Connection intermediate power source and cooling modules CM 1500/5, CAN control		DIX	CM Link CAN	7410082201
	Connection cable Connection intermediate power source and cooling modules, external, CAN control	5.0 m	DIX	CM Link E5 CAN	7410082203
2	Connection cable For voltage Connection intermediate power source and cooling module		DIX	CM Power	7410082205
	Connection cable For voltage Connection intermediate power source and cooling module, external, not shown	5.0 m	DIX	CM Power E5	7410082206
3	Connection cable Connection intermediate power source and cooling module CM 1200/5		DIX	CM Link	7410082200
	Connection cable Connection intermediate power source and cooling module, external, not shown	5.0 m	DIX	CM Link E5	7410082202
4	Filter mat kit		DIX	FM KIT CM	7410082101
	Filter mat set, not shown	10 pcs.	DIX	FM CM 10	7410082102

► Standard lengths: 5 m and 10 m. Other lengths on request..

Remote panels for DIX PI-Power sources
DIX RP 100 E
For robotic- and automatic applications



1



	Description	Dimension	Part name		Part number
1	Remote panel, complete		DIX	RP 100 E	7410050100
2	Connection cable	5.0 m	DIX	RP Cable 5	7410050205

► Other versions on request.

LASER automation



Für Ihre Notizen:



TOOLS & ACCESSORIES

02



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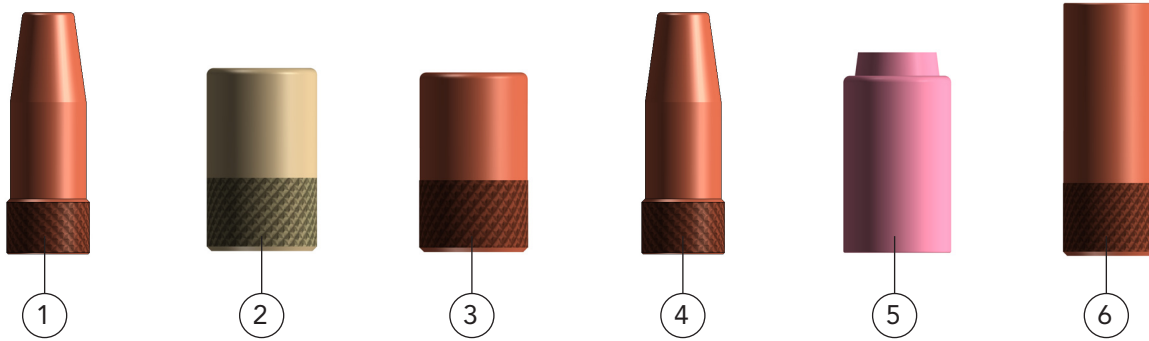
Gas nozzles

For robotic- and automatic torch heads

LASER



2



Part name	Part number	For use with
1 DIX 1-2-011/5.5 (M9x1 Thread)	629010008	LH 100 SW
2 DIX 1-2-009 LK* (M10x1 Thread)	68690100109	
3 DIX 1-2-010 LK (M?x1 Thread)	629010001P	LKTZ 50 L/55°, LKTZ 50 U/55°, LKTZ 50 R/55°, LHZ 100-x SATZ/xxx
4 DIX 1-2-011 LK (M10x1 Thread)	629010002P	
5 DIX 1-2-012 LK** (3/8" UNF Thread)	629010004	LHZ 100-x SATZ/006(008)(009)(011)(015)(019)
6 DIX 1-2-014 LK (M9x1 Thread)	629010006	LKTZ 50 L/55°, LKTZ 50 U/55°, LKTZ 50 R/55°, LHZ 100-x SATZ/xxx

* Gas nozzle made of heat resistant plastic
 ** Gas nozzle made of ceramic

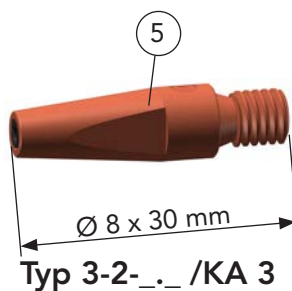
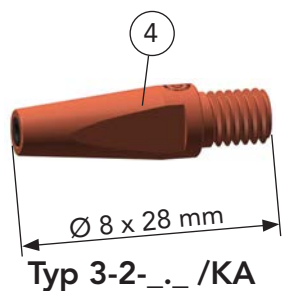
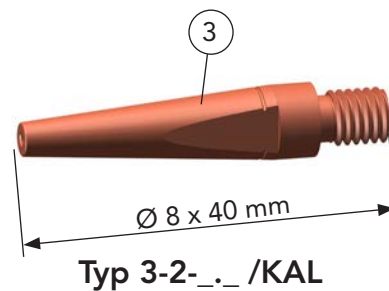
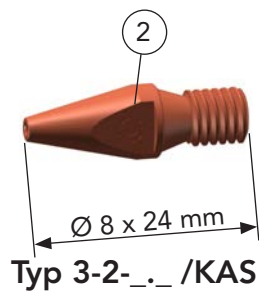
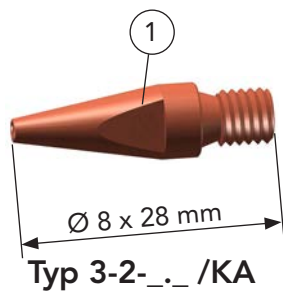
Tools and accessories



Contact tips

For robotic- and automatic torch heads

LASER



INFO DIX 3-2-... KD Contact tip?
Please ask your DINSE consultant.

	Part name	Part number	For use with
1	DIX 3-2-0.6 /KA	P629030NO012	
	DIX 3-2-0.8 /KA	P629030NO007	
	DIX 3-2-0.9 /KA	6290300042	
	DIX 3-2-1.0 /KA	P629030NO004	
	DIX 3-2-1.2 /KA	P629030NO005	
	DIX 3-2-1.6 /KA	629030023	
2	DIX 3-2-1.0 /KAS 24	629030028	LH 100 AW, LH 100 SW, LH 100 SB, LKTZ 50 L/55°, LKTZ 50 R/55°, LKTZ 50 U/55°, LHZ 100-x SATZ/xxx
	DIX 3-2-1.2 /KAS 24	629030037	
3	DIX 3-2-0.8 M6 /KAL	629030043	
	DIX 3-2-1.0 M6 /KAL	629030033	
	DIX 3-2-1.2 M6 /KAL	629030034	
	DIX 3-2-1.6 M6 /KAL	629030044	
4	DIX 3-2-1.7 KA*	629030026	
5	DIX 3-2-1.7 KA 3*	629030056	

* Contact tip with plastic insert



Connecting pieces, clamping sleeves

For robotic- and automatic torch heads

LASER



Part name	Part number	For use with
Connecting piece		
1 DIX MEPS 300/500	6390665000	LH 100 AW, LH 100 SW, LH 100 SB, LKTZ 50 L/55°, LKTZ 50 R/55°, LKTZ 50 U/55°, LHZ 100-x SATZ
Clamping sleeve		
2 DIX SH 270	629270270	LH 100 AW, LH 100 SW, LH 100 SB, LKTZ 50 L/55°, LKTZ 50 R/55°, LKTZ 50 U/55°, LHZ 100-x SATZ



System holder for supply hose For robotic- and automatic torch heads LASER

1



Description	Diameter nominal	Dimension (W/H/D in mm)	Part name	Part number
1 Holder Fixing for cover hose set DIX VL 230-__	DN 29	71.6/49.5/30	DIX VLH 29	62923550413
Holder Fixing for intermediate hose package DIX ZSR 70-__, DIX ZSZR 70-__, DIX WFL-400/550-__ and VSD package DIX WFL-S-__	DN 36	88.6/61.6/30	DIX VLH 36	62923550313
Holder Fixing for intermediate hose package DIX ZSZR 95-__ and VSD package DIX WFL-S-__, DIX WFL-SE-__	DN 48	88.6/72.5/30	DIX VLH 48	62923550213

-- Enter the desired length of the cover hose set, intermediate hose package or VSD package. Please ask your DINSE consultant.

► Mounting parts and other nominal diameters on request

Wire adjusting units

DIX DRE 100, DIX DRE 100 V, DIX DRE 101

For robotic and automatic torch sets LASER

2

Tools and accessories

Properties

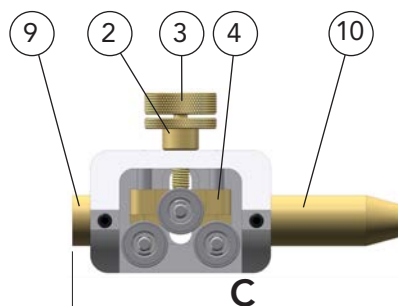
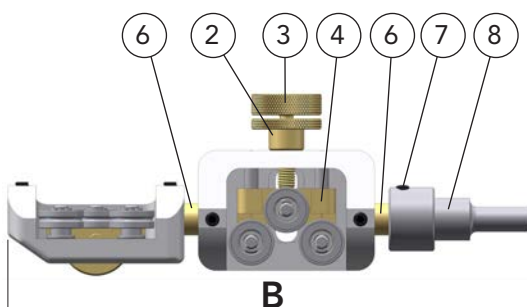
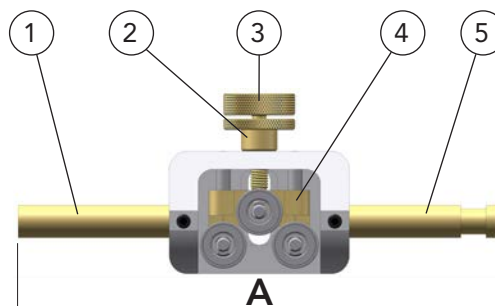
- Small design
- Low weight
- Accurate wire aligning

Application

- Steel welding wire
- Aluminum welding wire
- Flux-cored welding wire

Technical data:

Wire diameter: 0.6 - 1.6 mm



Description	Part name	Part number
A Wire adjusting unit	DIX DRE 100	6382600100
B Wire adjusting unit package	DIX DRE 100 V	6382600101
C Wire adjusting unit	DIX DRE 101	6382610100
Spare and wear parts		
1 End sleeve 2	DIX DRE 100-08	6382608100
2 Lock nut	DIX DRE 100-06	6382606100
3 Adjusting screw	DIX DRE 100-05	6382605100
4 Slide bar	DIX DRE 100-02	6382602100
5 End sleeve 1	DIX DRE 100-07	6382607100
6 End sleeve	DIX DRE 100-10	6382610402
7 Screw pin M 4x 6 ISO4026 sw 45H		6390601400022
8 Wire guide	DIX FD100 WG-PNV	7430030063
9 Intake spout	DIX DRE 100 FLD	6382610101
10 End sleeve	DIX DRE 100-01 FLD	6382610102



Wire adjusting units

DIX DRE 102, DIX DRE 103, DIX DRE 104

For robotic and automatic torch sets LASER

Properties

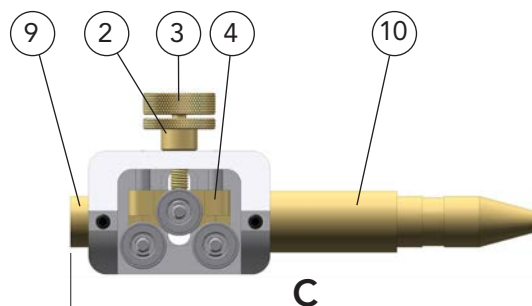
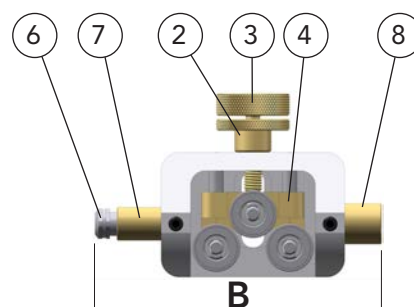
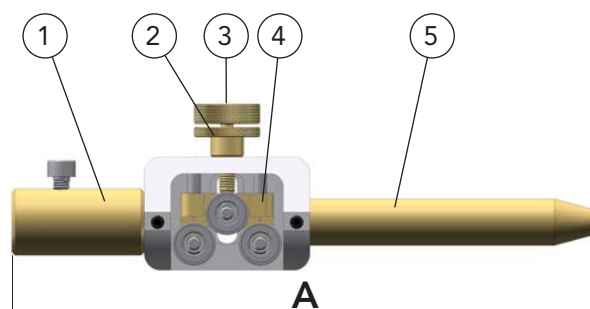
- ▶ Small design
- ▶ Low weight
- ▶ Accurate wire aligning

Application

- ▶ Steel welding wire
- ▶ Aluminum welding wire
- ▶ Flux-cored welding wire

Technical data:

Wire diameter: 0.6 - 1.6 mm



Description	Part name	Part number
A Wire adjusting unit	DIX DRE 102	6382610200
B Wire adjusting unit	DIX DRE 103	6382610300
C Wire adjusting unit	DIX DRE 104	6382610400
Spare and wear parts		
1 Intake spout, complete	DIX DRE 102-02	6382610201
2 Lock nut	DIX DRE 100-06	6382606100
3 Adjusting screw	DIX DRE 100-05	6382605100
4 Slide bar	DIX DRE 100-02	6382602100
5 End sleeve	DIX DRE 102-01	6382610202
6 Clamp sleeve	DIX SH 270	629270270
7 SH Aufnahme	DIX DRE 103-01	6382610301
8 Fixture	DIX DRE 103-02	6382610302
9 Intake spout	DIX DRE 100 FLD	6382610101
10 End sleeve	DIX DRE 104-01	6382610401



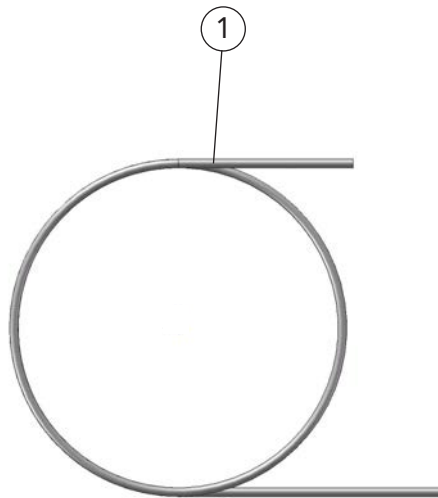
Liner

For robotic and automatic torches

LASER



2



Liner for welding wire of non- and low alloyed steels

	Description	Dimension ID/length/color	Part name		Part number
1	Liner For wire diameter 0.8 mm	ø 1.5 mm / 50 m brass	DIX	DS 4/1.5-50	613000100
	Liner For wire diameter 1.0 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 1.8 mm / 50 m brass	DIX	DS 4/1.8-50	613000200
	Liner For wire diameter 1.2 mm (PUSH-PUSH/PULL wire diameter 1.0 mm)	ø 2.2 mm / 50 m brass	DIX	DS 4/2.2-50	623000300
	Liner For wire diameter 1.4 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.4 mm / 50 m brass	DIX	DS 4/2.4-50	623000400
	Liner For wire diameter 1.6 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.9 mm / 50 m brass	DIX	DS 4/2.9-50	623001500

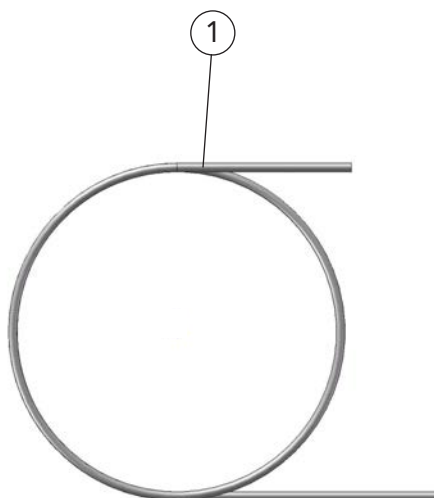
➤ Liner for other wire diameters on request.

Tools and accessories



Capillary liner

For robotic and automatic torches
LASER



Capillary liner for welding wire of high alloyed steels, copper-, aluminum-, magnesium- and nickel alloys

Description	Dimension ID/length/color	Part name		Part number
1 Capillary liner For wire diameter 0.8 mm	ø 1.65 mm / 100 m orange	DIX	DSK 1-100	613002000
Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.25 mm / 100 m turquoise	DIX	DSK 2-100	623002000
Capillary liner For wire diameter 1.6 mm (PUSH-PUSH/PULL wire diameter 1.2 mm)	ø 2.95 mm / 100 m red	DIX	DSK 3-100	623002500
Capillary liner for special use with high - temperature applications				
Capillary liner For wire diameter 0.8 mm	ø 1.5 mm / 100 m black / orange	DIX	DST 1-100	613001000
Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.2 mm / 100 m black / green	DIX	DST 2-100	623001000
Capillary liner for special use with high - abrasive applications				
Capillary liner For wire diameter 1.0 and 1.2 mm (PUSH-PUSH/PULL wire diameter 0.8 mm)	ø 2.3 mm / 100 m grey	DIX	DSS 2-100	623003000
Distance sleeve, not shown		DIX	DSH 300	628100001

➤ Capillary liner for other wire diameters on request.

ECO.flow pressure regulator

For robotic- and automatic torch heads

LASER



2

Tools and accessories



Application sample



Application sample



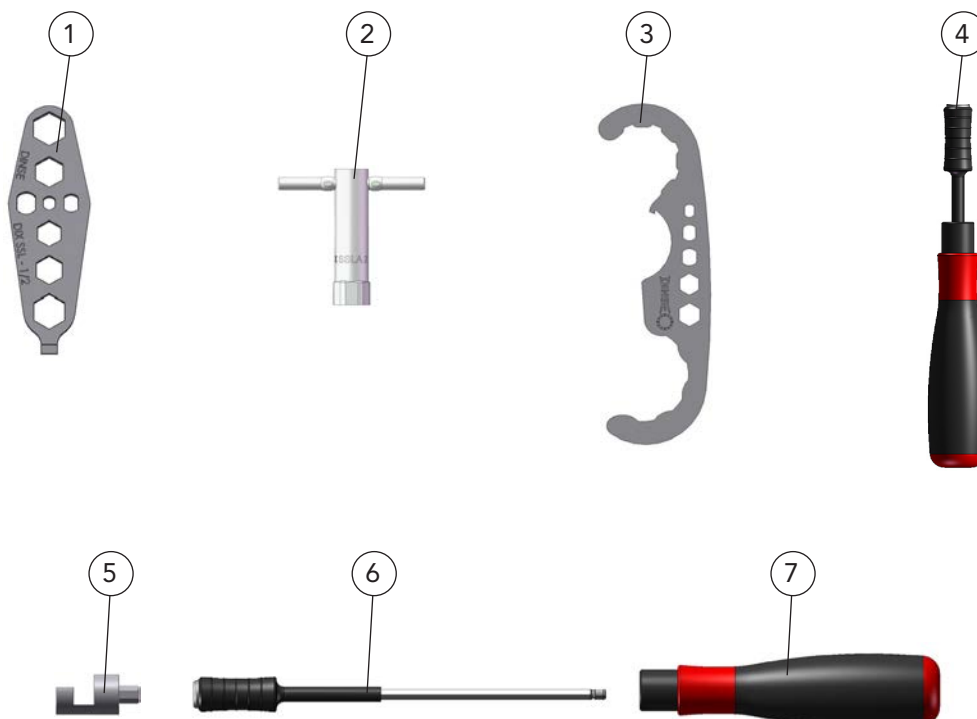
Application sample

	Description	max. pressure / flow rate	Part name		Part number
Cylinder pressure regulator					
1	Pressure regulator	200 bar / 0-20 l/min	DIX	DRV-100	628080100
	Pressure regulator	200 bar / 0-34 l/min	DIX	DRV-101	628080101
	Pressure regulator, lockable	200 bar / 0-20 l/min	DIX	DRV-102	628080102
	Pressure regulator, lockable	200 bar / 0-34 l/min	DIX	DRV-103	628080103
	Pressure regulator, with two flowmeters	200 bar / 0-20/34l/min	DIX	DRV-104	628080104
	Pressure regulator	300 bar / 0-20 l/min	DIX	DRV-105	628080105
	Pressure regulator	300 bar / 0-34 l/min	DIX	DRV-106	628080106
Sampling points pressure regulator					
2	Pressure regulator	200 bar / 0-20 l/min	DIX	DRV-200	628080200
	Pressure regulator	200 bar / 0-34 l/min	DIX	DRV-201	628080201
	Pressure regulator, lockable	200 bar / 0-20 l/min	DIX	DRV-202	628080202
	Pressure regulator, lockable	200 bar / 0-34 l/min	DIX	DRV-203	628080203
	Pressure regulator, 3/8" input and output, lockable	200 bar / 0-34 l/min	DIX	DRV-204	628080204
Built-in pressure regulator					
3	Pressure regulator	300 bar	DIX	DRV-300	628080300
	Pressure regulator, without handwheel	10 bar	DIX	DRV-301	628080301
	Pressure regulator, with handwheel	10 bar	DIX	DRV-302	628080302



Service tools For robotic and automatic torches LASER

2



Tools and accessories

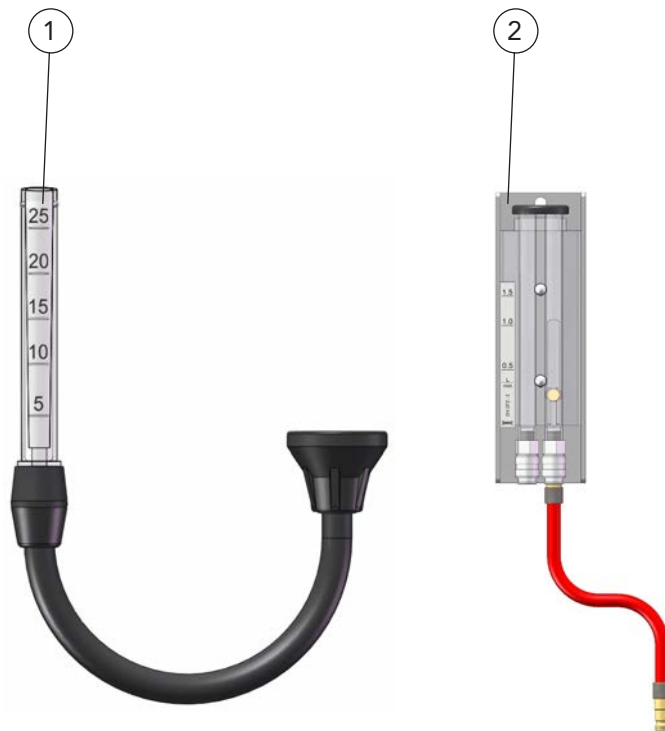
	Description	Part name	Part number
1	Special spanner For tighten M6 / M8 contact tips and tip adapters	DIX SSL 1/2	628010012
2	Socket spanner For tighten contact tips DIX 3-2-xx SR and clamp nut DIX 4-2-MAS	DIX SSLA 2	628010005
3	Hook spanner For tighten robotic torch heads and automatic torch sets	DIX SLAT 4	6380160001
4	Torque wrench (without torque bit) For tighten contact tips	DIX DMS 100	638400002
Spare and wear parts			
5	Torque bit For Pos. 6 and screwed contact tips M6	DIX DMB 100-M6	638400003
6	Torque extension For Pos. 7	DIX DMV 100	638400004
7	Torque transmitter, for tighten contact tips	DIX DMG 100-1.1 Nm	638400001



Service tools
For robotic and automatic torches
LASER



2



Description	Part name		Part number
1 Gas flow meter For robotic and automatic torches	DIX	GMA 2	628080005
2 Flow meter For measuring coolant flow of liquid cooling units.	DIX	DFZ 2	628091000



Digital Tacho Controller

Wire measuring unit

LASER

Technical data:	
Digital Tacho Control	DTC 100
m/min	0.10-1999
ft/min	0.40-6550
in/min	4.00-78700
m/sec	0.10-33.30
ft/sec	0.10-109
m	0.00-99999
ft	0.00-99999
in	0.00-99999
Speed:	0,10-19999 U/min
Measurement precision:	± 0.02 % / ± 1 digit U/min
Maximum ambient temperature	- 20-70° C
Automatic shut-off after 30 sec	



Advantage

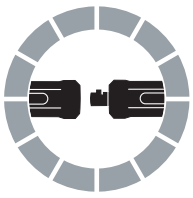
- Quality control in welding production
- Tool for creating and documenting welding procedure specifications (WPS) and welding procedure qualification (WPAR)
- Calculation of wire consumption at the welding production
- Important tool at the welder training and carrying out of welding experiments
- Evidence at the calibration of welding equipment

Properties

- Calibration certificate for DIN EN ISO 9001:2000
- Detecting of rotation speed, wire speed, distance measurement, welding speed and amount of wire
- Optical measuring with light or mechanical measuring with adapter

Description	Part name		Part number
Digital Tacho Control	DIX	DTC 100	718163100





DINSE CABLE CONNECTORS

03



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Welding cable couplings

Sockets DIX BK xx



Benefits

- Perfect grip
- Extremely sturdy and long-lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Possible to adapt sleeve to all standard cable diameters
- Extremely stable with tongue & groove connection of sleeve and interior

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes

Technical data (DIN EN 60 974-12):

Sockets	BK xx
Welding procedures:	Electrical arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

BKM



BK



BKK



BKS



BKM socket, version M for small welding machines
BKK socket version (with double clamp), (application sample)



	Description	Nominal cross-section (mm²)	Current capacity max. (at 60% ED)	Part name	Part number
1	Socket, Mini	10-16	140A	DIX BKM 25	121100020
		16-25	190A		
2	Socket, standard	16-25	190A	DIX BK 25	121100025
	Socket, standard	35-50	315A	DIX BK 50	121100050
	Socket, standard	50-70	400A	DIX BK 70	121100070
3	Socket, Plus (with double clamping)	50-70	400A	DIX BKK 70	121110070
	Socket, Plus (with double clamping)	70-95	500A	DIX BKK 95	121110090
4	Socket, Special (with double clamping)	70-95	500A	DIX BKS 95	121120090
	Socket, Special (with double clamping)	95-120	590A	DIX BKS 120	121120120

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.



Welding cable couplings Plugs DIX SK xx

Benefits

- Perfect grip
- Extremely sturdy and long-lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Possible to adapt sleeve to all standard cable diameters
- Extremely stable with tongue & groove connection of sleeve and interior

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes

Technical data (DIN EN 60 974-12):

Plugs	SK xx
Welding procedures:	Electric arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

SKM



SK



SKK



SKS



SKM plug, version M for small welding machines
SKK version (with double clamp) (application sample)



	Description	Nominal cross-section (mm²)	Current capacity max. (at 60% ED)	Part name	Part number
1	Plug, Mini	10-16	140A	DIX SKM 25	122100020
		16-25	190A		
2	Plug, standard	16-25	190A	DIX SK 25	122100025
	Plug, standard	35-50	315A	DIX SK 50	122100050
	Plugs standard	50-70	400A	DIX SK 70	122100070
3	Plug, Plus (with double clamping)	50-70	400A	DIX SKK 70	122110070
	Plug, Plus (with double clamping)	70-95	500A	DIX SKK 95	122110090
4	Plug, Special (with double clamping)	70-95	500A	DIX SKS 95	122120090
	Plug, Special (with double clamping)	95-120	590A	DIX SKS 120	122120120

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.



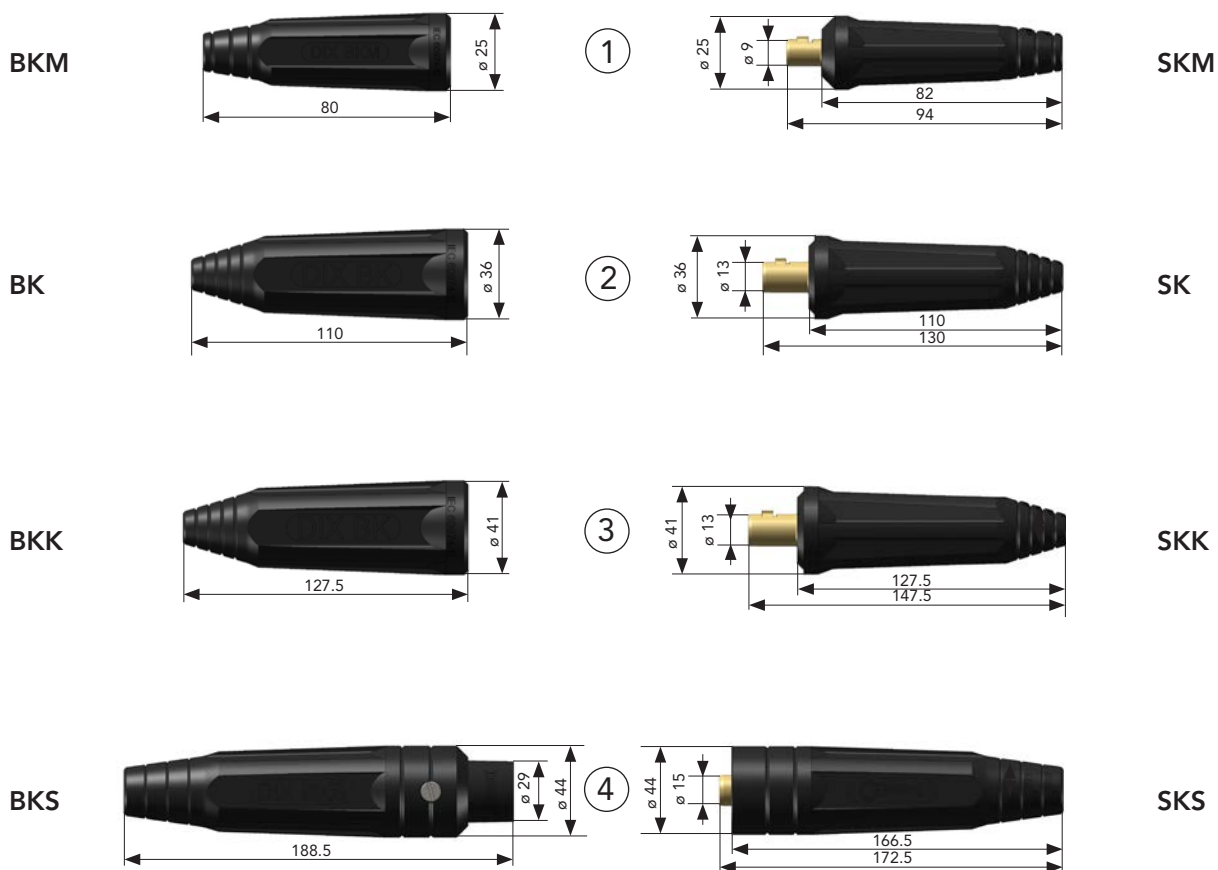
Dimension sheet welding cable couplings



Sockets BK xx, plugs SK xx

Sockets:

Plugs:

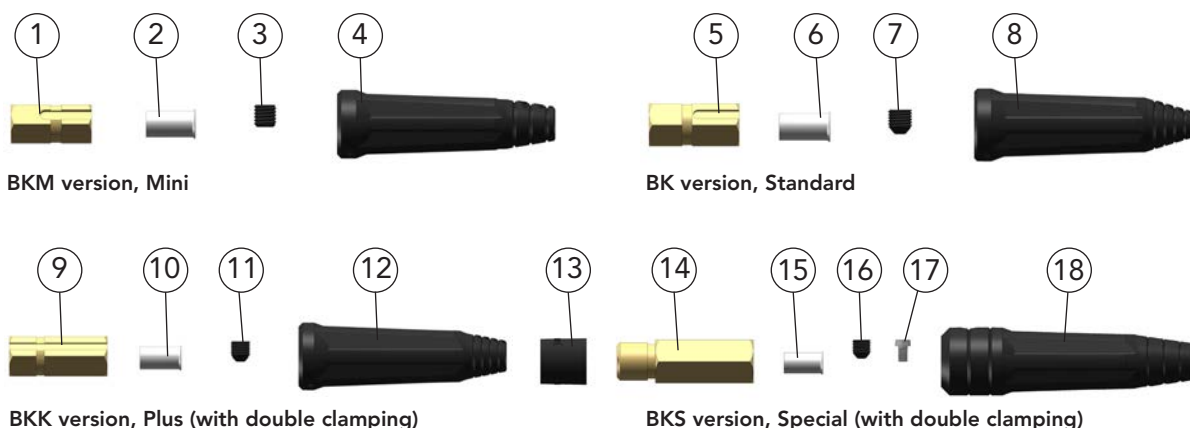


Sockets	Plugs
1 DIX BKM 25	DIX SKM 25
2 DIX BK 25	DIX SK 25
DIX BK 50	DIX SK 50
DIX BK 70	DIX SK 70
3 DIX BKK 70	DIX SKK 70
DIX BKK 95	DIX SKK 95
4 DIX BKS 95	DIX SKS 95
DIX BKS 120	DIX SKS 120



Spare and wear parts welding cable couplings

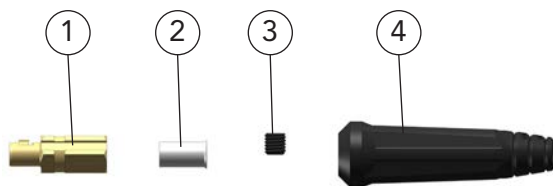
Sockets DIX BK xx



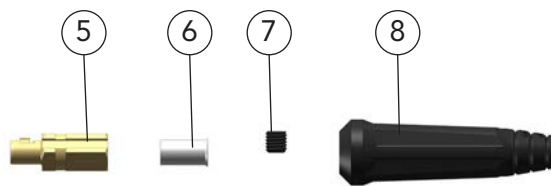
	Description	Dimension	Part name		Part number
BKM version, Mini:					
1	Interior part		DIX	BKM 25-01	129131001
2	Clamping sleeve		DIX	8/15	199200015
3	Screw pin	M8x8 mm			199100011
4	Rubber sleeve		DIX	BKM-02	129211021
BK version, Standard:					
5	Interior part		DIX	BK 25-01	129131002
	Interior part, not shown		DIX	BK 50-01	129131003
	Interior part, not shown		DIX	BK 70-01	129131004
6	Clamping sleeve, for BK 25		DIX	10/25	199200020
	Clamping sleeve, for BK 50, not shown		DIX	35/50	199200050
	Clamping sleeve, for BK 70, not shown		DIX	50/70	199200070
7	Screw pin, for BK 25	M8x1x10 mm			199100009
	Screw pin, for BK 50, not shown	M10x10 mm			199100010
	Screw pin, for BK 70, (pos. 11)	M12x12 mm			199100018
8	Rubber sleeve		DIX	BK-02	129211072
BKK version, Plus (with double clamping):					
9	Interior part		DIX	BKK 70-01	129131005
	Interior part, not shown		DIX	BKK 95-01	129131006
10	Clamping sleeve, for BKK 70		DIX	50/70 KK	199201070
	Clamping sleeve, for BKK 95, not shown		DIX	70/95 KK	199201090
11	Screw pin, for BKK 70 and BKK 95	M12x12 mm			199100018
12	Rubber sleeve		DIX	BKK-02	129211191
BKS version, Special (with double clamping):					
13	Additional sleeve		DIX	BEC 101	65904010114
14	Interior part		DIX	BKS 95-1	129111290
	Interior part, not shown		DIX	BKS 120-1	129111320
15	Clamping sleeve, for BKS 95		DIX	70/95 KK	199201090
	Clamping sleeve, for BKS 120, not shown		DIX	95/120 KK	199201120
16	Screw pin, for BKS 95	M12x12 mm			199100018
	Screw pin, for BKS 120, not shown	M16x12 mm			199100016
17	Cylinder screw		DIX	13-2	629130000
18	Rubber sleeve		DIX	BKS-02	129211321



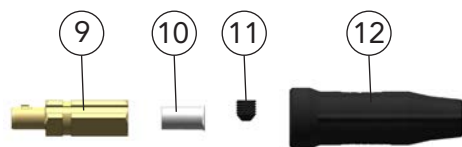
Plugs DIX SK xx



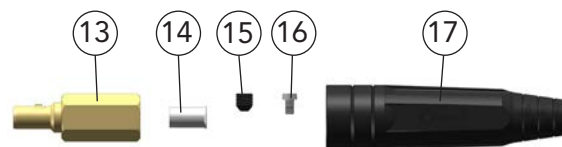
SKM version, Mini



SK version, Standard



SKK version, Plus (with double clamping)



SKS version, Special (with double clamping)

	Description	Dimension	Part name		Part number
SKM version, Mini					
1	Interior part		DIX	SKM 25-01	129131007
2	Clamping sleeve		DIX	8/15	199200015
3	Screw pin	M8x8 mm			199100011
4	Rubber sleeve		DIX	SKM-02	129221021
SK version, Standard					
5	Interior part		DIX	SK 25-01	129131008
	Interior part, not shown		DIX	SK 50-01	129131009
	Interior part, not shown		DIX	SK 70-01	129131010
6	Clamping sleeve, for SK 25		DIX	10/25	199200020
	Clamping sleeve, for SK 50, not shown		DIX	35/50	199200050
	Clamping sleeve, for SK 70, not shown		DIX	50/70	199200070
7	Screw pin, for SK 25	M8x8 mm			199100011
	Screw pin, for SK 50, not shown	M10x10 mm			199100010
	Screw pin, for SK 70, not shown	M12x12 mm			199100018
8	Rubber sleeve		DIX	SK-02	129221072
SKK version, Plus (with double clamping)					
9	Interior part		DIX	SKK 70-01	129131011
	Interior part, not shown		DIX	SKK 95-01	129131012
10	Clamping sleeve, for SKK 70		DIX	50/70 KK	199201070
	Clamping sleeve, for SKK 95, not shown		DIX	70/95 KK	199201090
11	Screw pin, for SKK 70 and SKK 95	M12x12 mm			199100018
12	Rubber sleeve		DIX	SKK-02	129221191
SKS version, Special (with double clamping)					
13	Interior part		DIX	SKS 95-1	129121290
	Interior part, not shown		DIX	SKS 120-1	129121320
14	Clamping sleeve, for SKS 95		DIX	70/95 KK	199201090
	Clamping sleeve, for BKS 120, not shown		DIX	95/120 KK	199201120
15	Screw pin, for SKS 95	M12x12 mm			199100018
	Screw pin, for BKS 120, not shown	M16x12 mm			199100016
16	Cylinder screw		DIX	13-2	629130000
17	Rubber sleeve		DIX	SKS-02	129221321

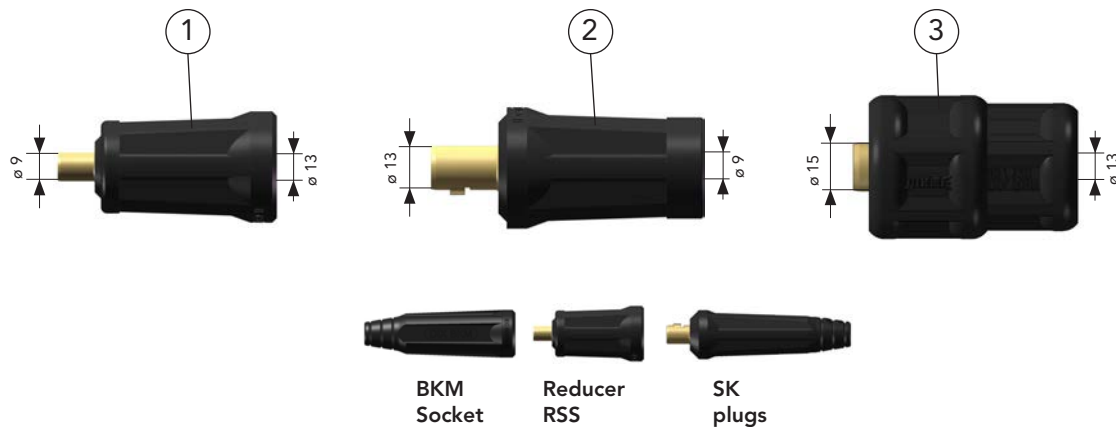
Accessories welding cable couplings

Reducers DIX RSS xx

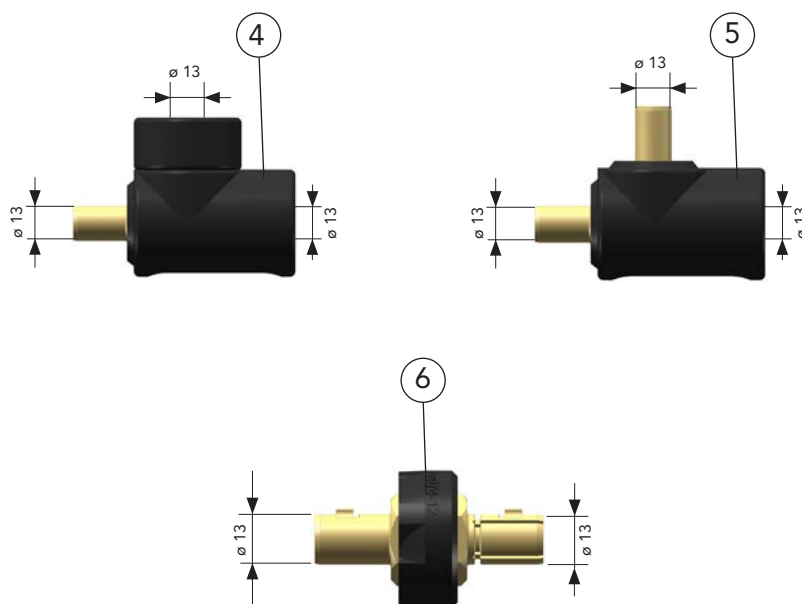
Cable joint sockets DIX KAB xx

Cable joint plugs DIX KAS xx

Coding plug DIX SEC



Sample application



Description	Application	Part name	Part number
1 Reducer	BKM - SK	DIX RSS 50/25	124305025
2 Reducer	BK - SKM	DIX RSS S50/B25	124325025
3 Reducer	BKS - SKK	DIX RSS 95/120	124300000
4 Cable joint socket For: SK, SKK, BK, BKK		DIX KAB 70/95	123100070
5 Cable joint plug For: SK, SKK, BK, BKK		DIX KAS 70/95	123200070
6 Coding plug		DIX SEC	122130070

Mounted couplings

Mounting sockets DIX BEM 25, DIX BE 50/70, DIX BE 70/95



3

Benefits

- Extremely sturdy and long-lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Easy assembly and optimal fixture

BEM



BE



BE



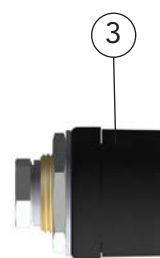
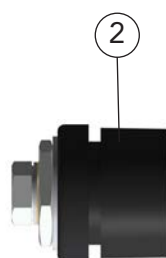
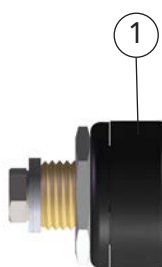
Technical data (DIN EN 60 974-12):

Sockets	BEM 25 BE 50/70 BE 70/95
Welding procedures:	Electrical arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

BEM socket, version M for small welding machines,
BE socket, Standard
(sample application)

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes



	Description	Nominal cross-section up to	Connection screw	Current rating (A) at 60% ED	Part name	Part number
1	Mounting socket Mini	25 mm ²	M8	220A	DIX BEM 25	121300020
2	Mounting socket Standard	50 mm ²	M10	330A	DIX BE 50/70	121300050
3	Mounting socket Standard	70 mm ²	M12	400A	DIX BE 70/95	121300070

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.



Welding cable couplings

Mounted couplings

Mounting sockets DIX BEK 50/70 GELB, DIX BEK 70/95 GELB, DIX BES 95/120

Benefits

- Extremely sturdy and long-lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Easy assembly and optimal fixture

BEK GELB



BEK GELB



BES



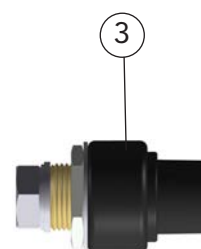
Technical data (DIN EN 60 974-12):

Sockets	BEK 50/70 GELB BEK 70/95 GELB BES 95/120
Welding procedures:	Electrical arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

Socket BEK GELB, Plus version (with cover cap), BES Socket Special version (sample application)

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes



	Description	Nominal cross-section up to	Connection screw	Current rating (A) at 60% ED	Part name	Part number
1	Socket Plus with cover cap	50 mm ²	M10	330A	DIX BEK 50/70 GELB	121330050
2	Socket Plus with cover cap	70 mm ²	M12	400A	DIX BEK 70/95 GELB	121330070
3	Socket Special	95 mm ²	M16	480A	DIX BES 95/120	1213300120

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.



Mounted couplings

Mounting plugs DIX SEM 25, DIX SE 50/70

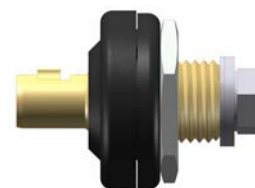


3

Benefits

- Extremely sturdy and long-lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Easy assembly and optimal fixture

SEM



SE



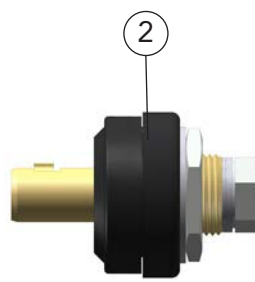
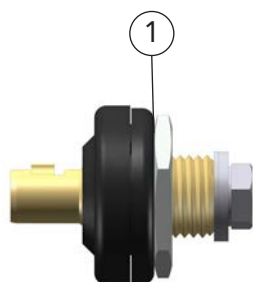
Technical data (DIN EN 60 974-12):

Plugs	SEM 25 SE 50/70
Welding procedures:	Electrical arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

SEM plug, version M for small welding machines, plug, SE version S for standard (application sample)

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes



	Description	Nominal cross-section to	Connection screw	Current rating (A) at 60% ED	Part name	Part number
1	Plug Mini	25 mm ²	M8	220A	DIX SEM 25	122300020
2	Plug Standard	50 mm ²	M10	330A	DIX SE 50/70	122300050

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.



Welding cable couplings

Mounted couplings

Mounting plugs DIX SE 70/95, DIX SES 95/120

Benefits

- Extremely sturdy and long lasting
- Reliable connection at high current loads
- Very good current transfer with original DINSE coupler
- Easy assembly and optimal fixture

SE



SES



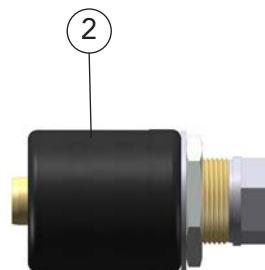
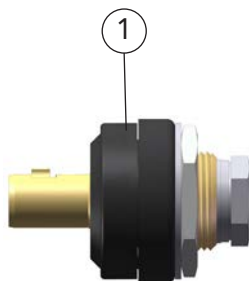
SE plug, standard version, SES plug, Special version (sample application)

Technical data (DIN EN 60 974-12):

Plugs	SE 70/95 SES 95/120
Welding procedures:	Electrical arc welding
Protection class:	IP 3X
Ambient air temperature:	
- for welding	-10°C to +40°C
- during transport and storage	-20°C to +55°C
Relative humidity:	up to 90% at 20°C

Application

- DINSE welding cable couplings are used exclusively for welding cables in arc welding and related processes



	Description	Nominal cross-section to	Connection screw	Current rating (A) at 60% ED	Part name	Part number
1	Plug, Standard	70 mm ²	M12	400A	DIX SE 70/95	122300070
2	Plug, Special	95 mm ²	M16	480A	DIX SES 95/120	122320120

- Recommended nominal cross-sections (mm²) of welding cables from CU dependent on welding current and cable length.

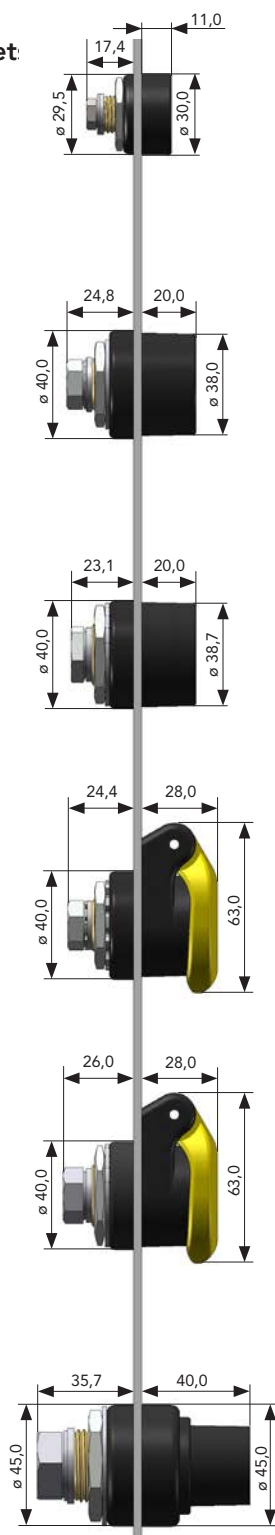


Dimension sheet mounted couplings

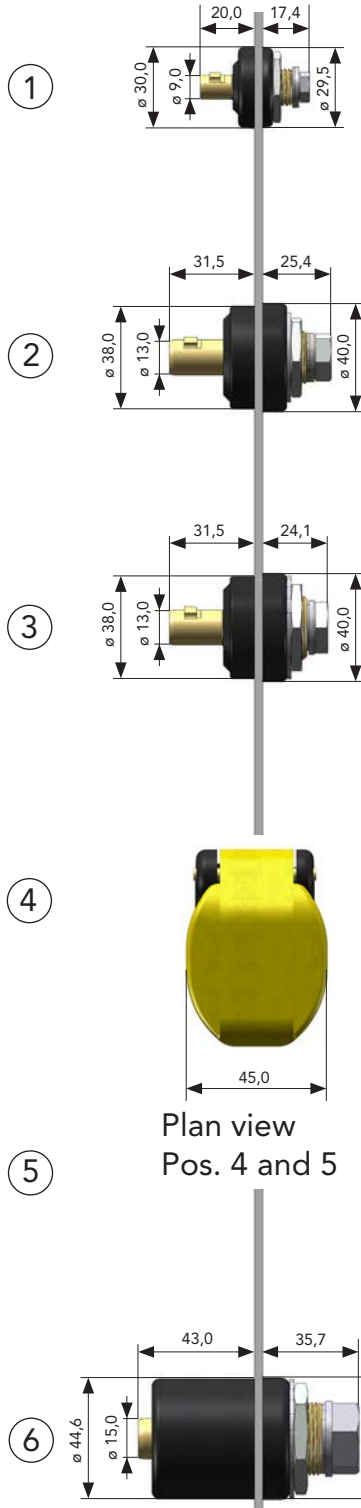


Mounting sockets DIX BE xx, Mounting plugs DIX SE xx

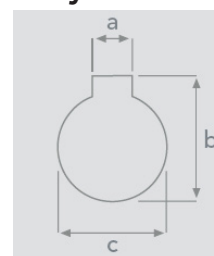
Mounting socket:



Mounting plugs:



Assembly dimensions:

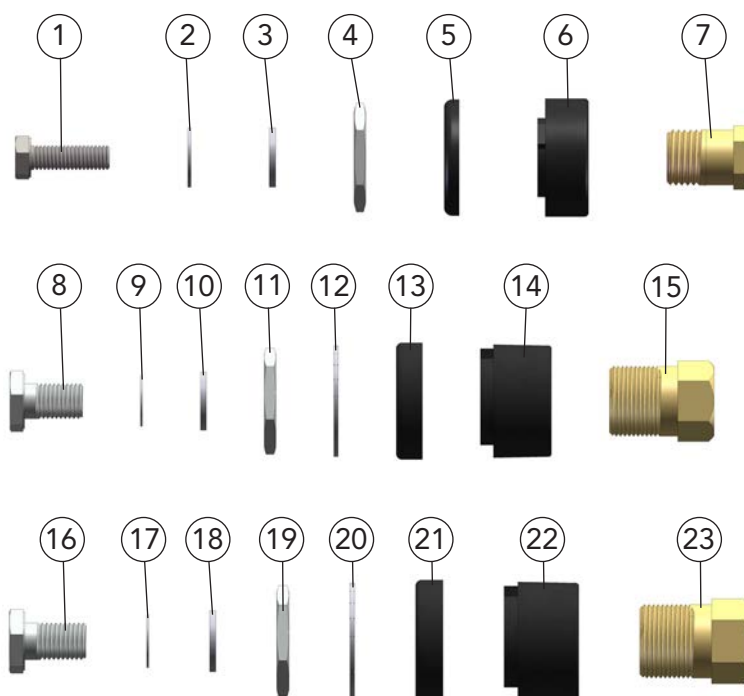


	Sockets	Plugs	a (in mm)	b (in mm)	c (in mm)
1	DIX BEM 25	DIX SKM 25	6.3	22.7	20.2
2	DIX BE 50/70	DIX SE 50/70	6.3	33.2	30.2
3	DIX BE 70/95	DIX SE 70/95	6.3	33.2	30.2
4	DIX BEK 50/70 GELB	-	6.3	33.2	30.2
5	DIX BEK 70/95 GELB	-	6.3	33.2	30.2
6	DIX BES 95/120	DIX SES 95/120	6.3	38.2	35.2



Spare and wear parts mounted couplings

Mounting socket DIX BEM 25, DIX BE 50/70, DIX BE 70/95

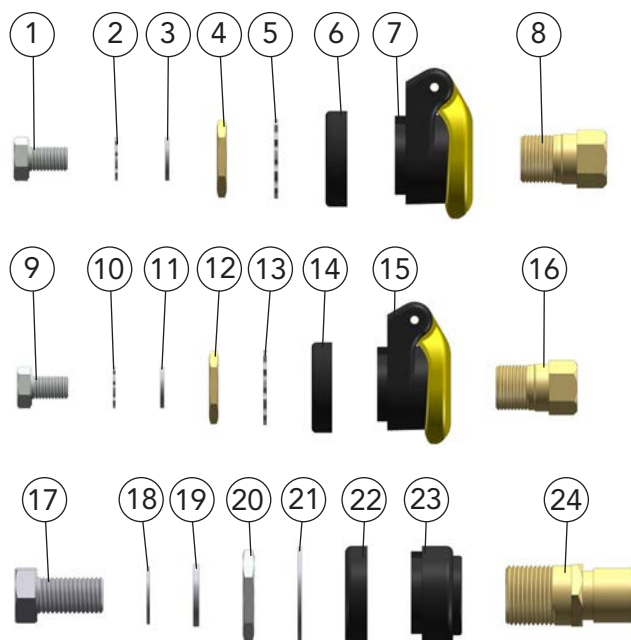


Description	Terminal screw	Part name	Part number
Version BEM 25 (M8), Mini			
1 Screw, M 8x1x14			12961302013
2 Serrated washer, J 8.4			12961302012
3 Washer, 8.4			12961302011
4 Nut		DIX B/SEM 25-4	129413020
5 Compression ring		DIX B/SEM 25-3	129313020
6 ISO-shell		DIX BEM 25-2	129213020
7 Interior part		DIX BEM 25-1	129113020
Version BE 50/70 (M10), standard			
8 Screw, M 10x16			12961305013
9 Serrated washer, A 10.5			12961305012
10 Washer, 10.5			12961305011
11 Nut		DIX B/SE 50/70-4	129413050
12 Serrated washer		DIX B/SE 50/70-5	129513050
13 Compression ring		DIX B/SE 50/70-3	129313050
14 ISO-shell		DIX BE 50/70-2	129213050
15 Interior part		DIX BE 50-1	129113050
Version BE 70/95 (M12), standard			
16 Screw, M 12x1.5x20			12961307013
17 Serrated washer, J 12.5			12961307012
18 Washer 13			12961307011
19 Nut		DIX B/SE 70/95-4	129413070
20 Serrated washer		DIX B/SE 70/95-5	129513070
21 Compression ring		DIX B/SE 70/95-3	129313070
22 ISO-shell		DIX BE 70/95-2	129213070
23 Interior part		DIX BE 70/95-1	129113070

Spare and wear parts mounted couplings



Mounting socket DIX BEK 50/70 GELB, DIX BEK 70/95 GELB, DIX BES 95/120

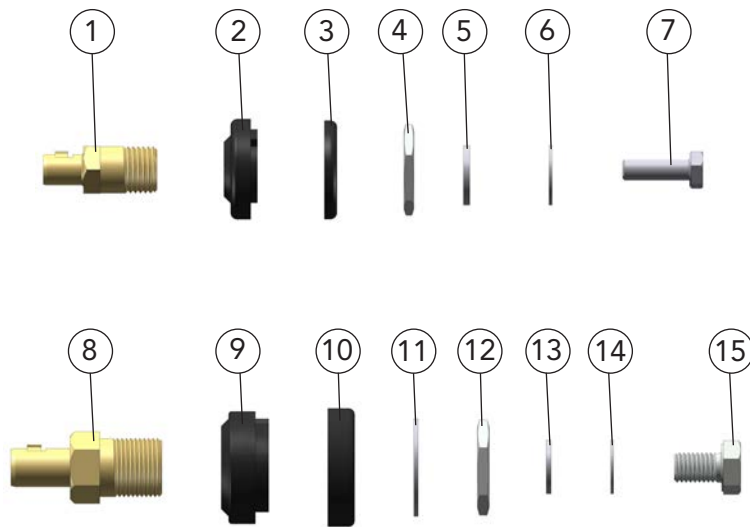


Description	Terminal screw	Part name	Part number
Version BEK 50/70 GELB (M10), Plus (with cover cap)			
1 Screw, M10x16			12961305013
2 Serrated washer		DIX B/SE 50/70-5	129513050
3 Washer, 10.5			12961305011
4 Nut		DIX B/SE 50/70-4	129413050
5 Serrated washer, A 10.5			12961305012
6 Compression ring		DIX B/SE 50/70-3	129313050
7 Cover		DIX BAK 50/70	12931305011
8 Interior part		DIX BE 50-1	129113050
Version BEK 70/95 GELB (M12), Plus (with cover cap)			
9 Screw, M12x1.5x20			12961307013
10 Serrated washer		DIX B/SE 70/95-5	129513070
11 Washer, 13			12961307011
12 Nut		DIX B/SE 70/95-4	129413070
13 Serrated washer, J 12.5			12961307012
14 Compression ring		DIX B/SE 70/95-3	129313070
15 Cover		DIX BAK 70/95	12931307011
16 Interior part		DIX BE 70/95-1	129113070
Version BES 95/120 (M16), Special			
17 Screw, M16x25			12961312013
18 Serrated washer, J 17			12961312012
19 Washer, 17			12961312011
20 Nut		DIX B/SES 95/120-4	129413120
21 Serrated washer		DIX B/SES 95/120-5	129513120
22 Compression ring		DIX BES 95/120-3	129313120
23 ISO-shell		DIX BES 95/120-2	129213320
24 Interior part		DIX BES 95/120-1	129113320
25 Additional sleeve, not shown		DIX BEC 101	65904010114



Spare and wear parts mounted couplings

Mounting plugs DIX SEM 25, DIX SE 50/70

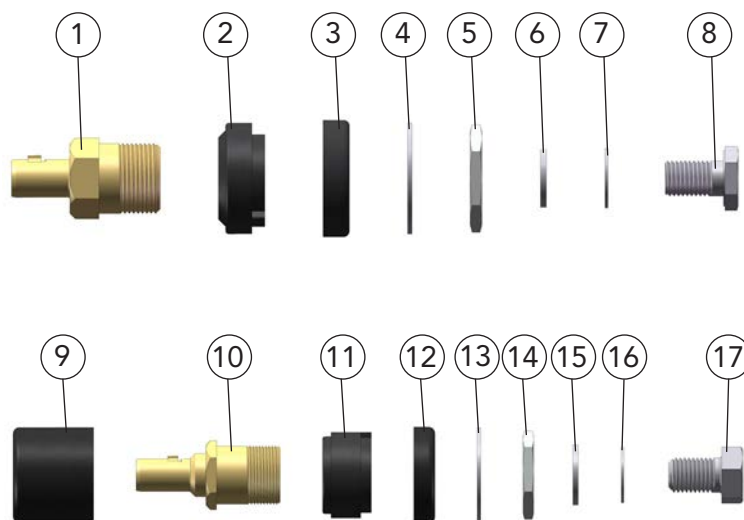


	Description	Terminal screw	Part name		Part number
Version SEM 25 (M8), Mini					
1	Interior part		DIX	SEM 25-1	129123020
2	ISO-shell		DIX	SEM 25-2	129223020
3	Compression ring		DIX	B/SEM 25-3	129313020
4	Nut		DIX	B/SEM 25-4	129413020
5	Washer, 8.4				12961302011
6	Serrated washer, J 8.4				12961302012
7	Screw, M8x1x14				12961302013
Version SE 50/70 (M10), Standard					
8	Interior part		DIX	SE 50/70-1	129123050
9	ISO-shell		DIX	SE 50/70-2	129223050
10	Compression ring		DIX	B/SE 50/70-3	129313050
11	Serrated washer		DIX	B/SE 50/70-5	129513050
12	Nut		DIX	B/SE 50/70-4	129413050
13	Washer, 10.5				12961305011
14	Serrated washer, A 10.5				12961305012
15	Screw, M10x16				12961305013



Spare and wear parts mounted couplings

Mounting plugs DIX SE 70/95, DIX SES 95/120



	Description	Terminal screw	Part name		Part number
Version SE 70/95 (M12), Standard					
1	Interior part		DIX	SE 70/95-1	129123070
2	ISO-shell		DIX	SE 70/95-2	129223070
3	Compression ring		DIX	B/SE 70/95-3	129313070
4	Serrated washer		DIX	B/SE 70/95-5	129513070
5	Nut		DIX	B/SE 70/95-4	129413070
6	Washer, 13				12961307011
7	Serrated washer, J 12.5				12961307012
8	Screw, M12x1.5x20				12961307013
Version BES 95/120 (M16), Special					
9	Base		DIX	SES 95/120-2U	12922332011
10	Interior part		DIX	SES 95/120-1	129123320
11	ISO-cap		DIX	SES 95/120-2	12922332012
12	Compression ring		DIX	BES 95/120-3	129313120
13	Serrated washer		DIX	B/SES 95/120-5	129513120
14	Nut		DIX	B/SES 95/120-4	129413120
15	Washer, 17				12961312011
16	Serrated washer, J 17				12961312012
17	Screw, M16x25				12961312013

Welding cable couplings

3



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