







MIG/MAG AUTOMATION

Torch heads

MIG/MAG (up to 350 A)		MET 35x/39x	2
MIG/MAG (up to 450 A)		MET 32xx/37xx/39xx	6
MIG/MAG (up to 550 A)		METZ 52x/59x/54x/56x/57x	12
MIG/MAG (up to 350 A)		METZ 58xx	22
MIG/MAG (up to 450 A)		METZ 64xx	24
MIG/MAG (up to 550 A)		MFTZ 52xx/59xx/54xx/57xx	26

Accessories for torch heads



Gas nozzles			34
Version: short and reduced			



Torch heads DIX MET 350/352/354, METR 358

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

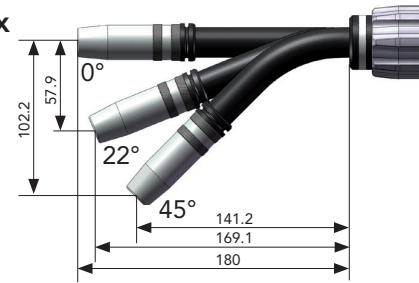
Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Small to medium material thicknesses

Technical data (DIN EN 60 974-7):	
Gas nozzle	trapezoid thread
	duty cycle
CO ₂ :	350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

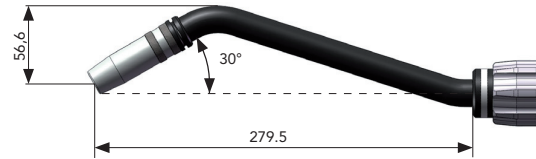
A

MET 35x



B

METR 358



For ECO.torch, LITE.torch and REVO.torch

The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

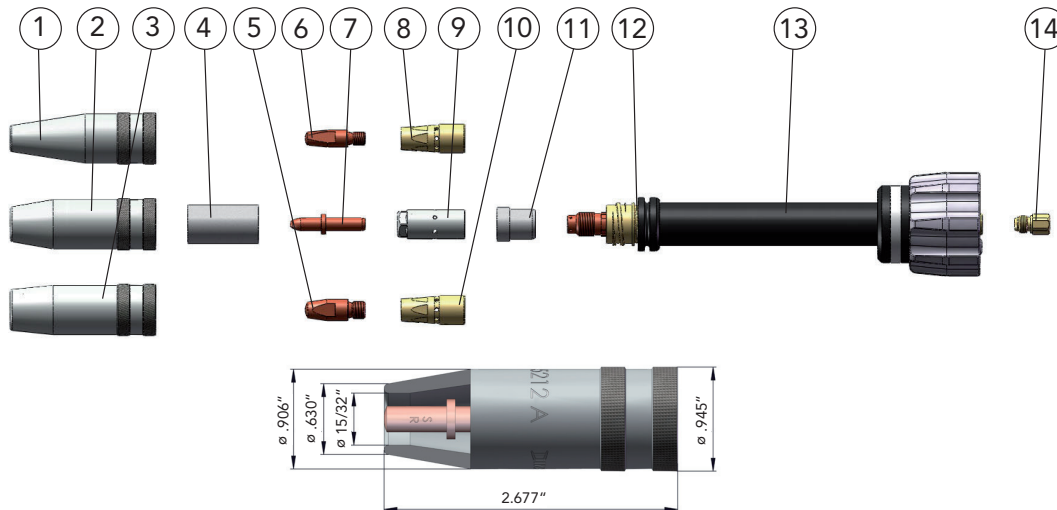
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 350	631133008
Torch head	22°	DIX MET 352	631133009
Torch head	45°	DIX MET 354	631133010
B Torch head Swan neck	30°	DIX METR 358	631133018

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX MET 350/352/354, METR 358



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 11/32" (9 mm)	DIX 1-3-5209 A	6390152090
2 Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 A	6390152120
3 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5215 A	6390152150
4 Insulator For pos. 2 and 3		DIX 2-3-520	6390252000
5 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
6 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330_
7 Contact tip	\varnothing .236" x 1.378" (\varnothing 6 x 35 mm)	DIX 3-1-__ SR	6190354__
8 Tip adapter	M6	DIX GS 300 M6	629040301
9 Clamp nut		DIX CS 300	6390433000
10 Tip adapter	M8	DIX GS 300 M8	629040302
11 Insulating sleeve		DIX IH 300	6391053000
12 O - ring	(10 pcs.)		639060004
13 Torch neck		0° DIX 6-3-350 MET	639063350
Torch neck		22° DIX 6-3-352 MET	639063352
Torch neck		45° DIX 6-3-354 MET	639063354
Torch neck Swan neck		30° DIX 6-3-358 METR	639067358
14 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

- Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5215 A, (contact tip, DIX 3-1-1.0 S, flush, clamp nut DIX CS 300, insulating sleeve DIX IH 300). Use the hook spanner DIX SLAT 4 to fix the torch heads. Variants deviating of the standard fittings on request.



Torch heads DIX MET 390/392/394, METR 398

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

Application

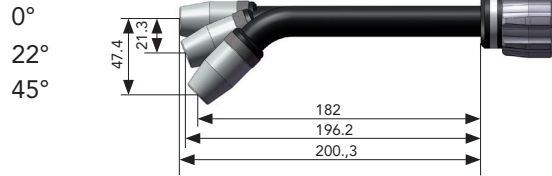
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Small to medium material thicknesses

Technical data (DIN EN 60 974-7):

Gas nozzle	trapezoid thread
	duty cycle
CO ₂ :	350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

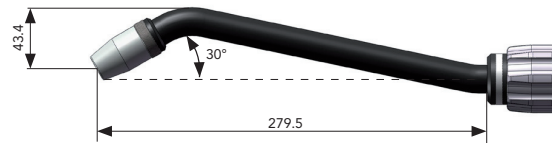
A

MET 39x



B

METR 398



For ECO.torch, LITE.torch and REVO.torch

The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:

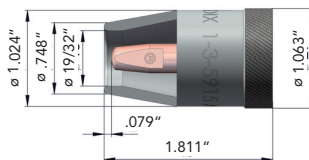
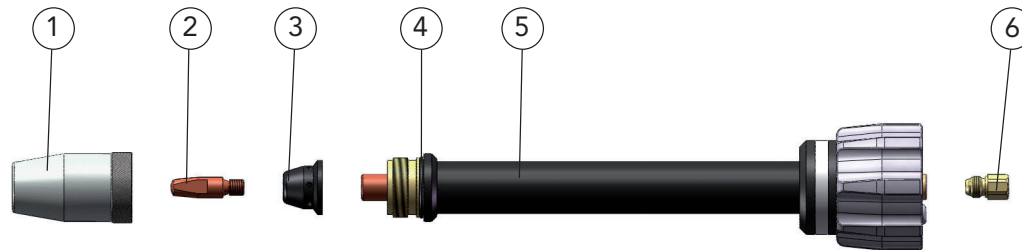
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

	Description	Dimension	Part name	Part number
A	Torch head	0°	DIX MET 390	631133004
	Torch head	22°	DIX MET 392	631133005
	Torch head	45°	DIX MET 394	631133006
B	Torch head Swan neck	30°	DIX METR 398	631133022

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MET 390/392/394, METR 398



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5915 A	6390159150
2 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
3 Gas diffusor		DIX GVT 590	6391059001
Gas diffusor	(10 pcs.)	DIX GVT 590 K	6391059003
4 O - ring	(10 pcs.)		639060004
5 Torch neck		0° DIX 6-3-390 MET	639061022
Torch neck		22° DIX 6-3-392 MET	639061023
Torch neck		45° DIX 6-3-394 MET	639061024
Torch neck Swan neck		30° DIX 6-3-398 METR	639067398
6 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

- Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5915 A, (contact tip, DIX 3-2-1.0, recessed, Gas diffusor DIX GVT 590). Use the hook spanner DIX SLAT 4 to fix the torch heads. Variants deviating of the standard fittings on request.

All order dimensions abiding in „mm“ respectively in „m“.



Torch heads DIX MET 3200/3222/3245

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 400A)

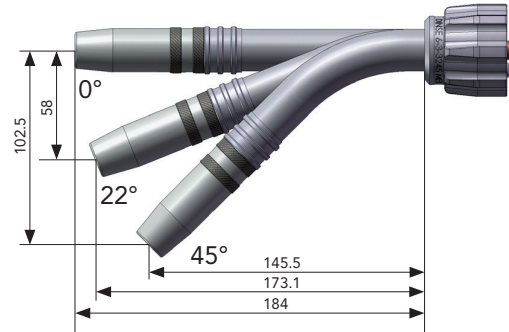
Properties

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ High-quality materials
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Small to medium material thicknesses

A MET 32xx



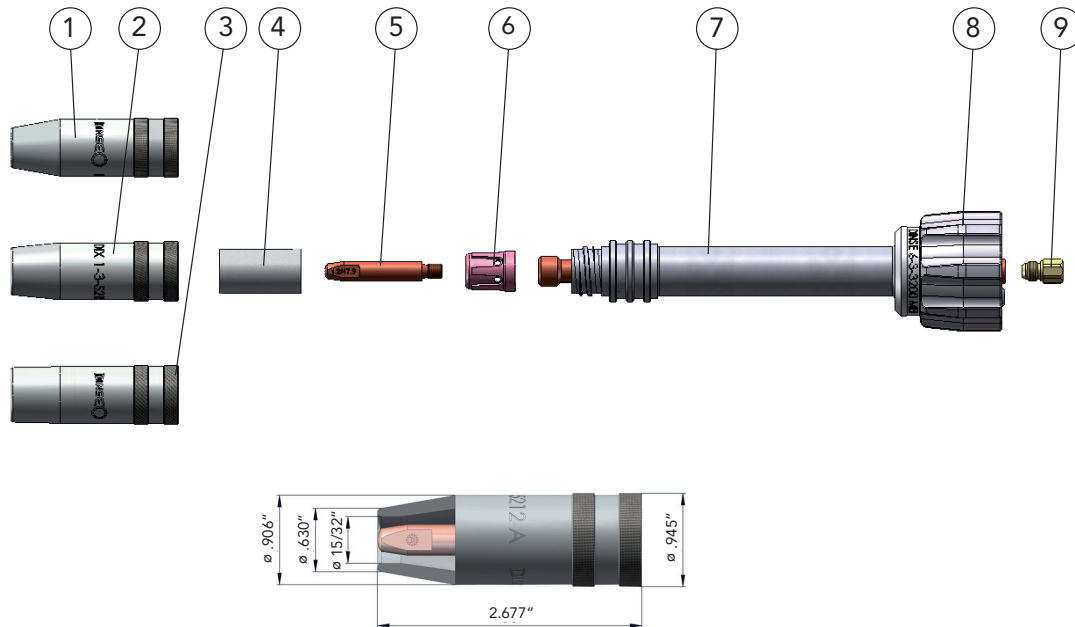
Hint:
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):	
Gas nozzle	trapezoid thread
	duty cycle
CO ₂ :	400A/100%
Mixed gas:	350A/100%
Wire diameter	.039" - .063" (1.0 - 1.6 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 3200	631133030
Torch head	22°	DIX MET 3222	631133031
Torch head	45°	DIX MET 3245	631133032

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MET 3200/3222/3245



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 11/32" (9 mm)	DIX 1-3-5209 A	6390152090
2 Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 A	6390152120
3 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5215 A	6390152150
4 Insulator		DIX 2-3-520	6390252000
5 Contact tip	M6 x 1.870" (47.5 mm)	DIX 3-2-_/47.5	6290342_
6 Gas diffuser	(10 pcs.)	DIX GVT 3200 K	6391052001
7 Torch neck	0°	DIX 6-3-3200 MET	6390653200
Torch neck	22°	DIX 6-3-3222 MET	6390653222
Torch neck	45°	DIX 6-3-3245 MET	6390653245
8 Screw cap, gray		DIX 6-3 MET	629061001
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 10 stands for 1.0 mm or 12 stands for 1.2 mm.

- Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 15/32" (12 mm), DIX 1-3-5212 A, (contact tip, DIX 3-2-1.2/47.5, flush, Gas diffuser DIX GVT 3200 K). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.



Torch heads DIX MET 3700/3722/3745

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 450A)

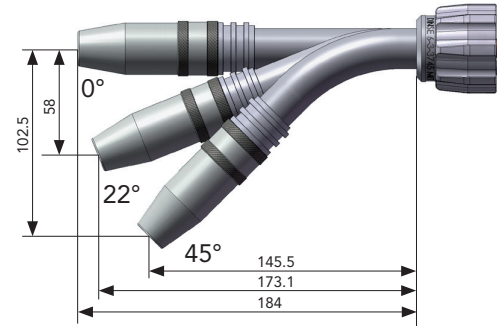
Properties

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ High-quality materials
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Small to medium material thicknesses

A MET 37xx



Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):

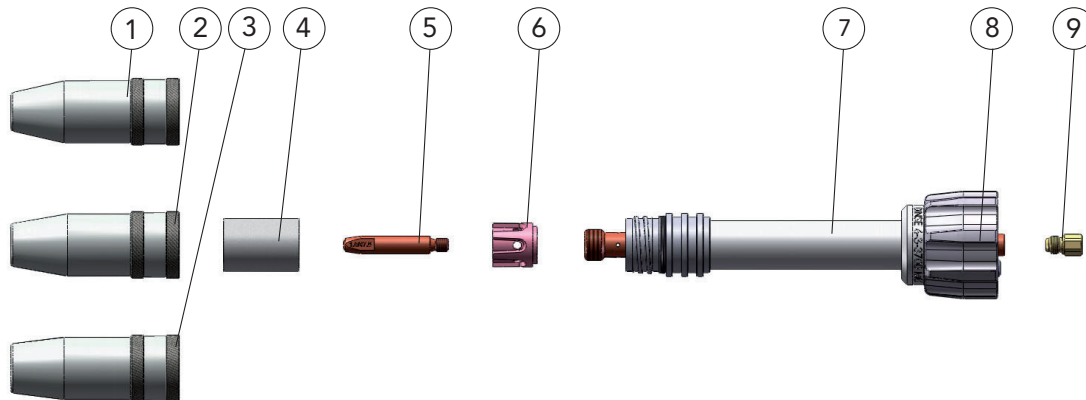
Gas nozzle:	trapezoid thread
	duty cycle
CO ₂ :	450A/100%
Mixed gas:	400A/100%
Wire diameter:	.039" - .063" (1.0 - 1.6 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 3700	631133024
Torch head	22°	DIX MET 3722	631133025
Torch head	45°	DIX MET 3745	631133026

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MET 3700/3722/3745



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 33/64" (13 mm)	DIX 1-3-5413 A	6390154130
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 A	6390154150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5418 A	6390154180
4 Insulator		DIX 2-3-500	6390250000
5 Contact tip	M6 x 1.870" (47.5 mm)	DIX 3-2-_/47.5	6290342_
6 Gas diffusor		DIX GVT 3700 K	63910916072
7 Torch neck	0°	DIX 6-3-3700 MET	6390653700
Torch neck	22°	DIX 6-3-3722 MET	6390653722
Torch neck	45°	DIX 6-3-3745 MET	6390653745
8 Screw cap, gray		DIX 6-3 MET	629061001
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 10 stands for 1.0 mm or 12 stands for 1.2 mm.

- Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5415 A, (contact tip, DIX 3-2-1.2/47.5, flush, Gas diffusor DIX GVT 3700 K). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.



Torch heads DIX MET 3900/3922/3945

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

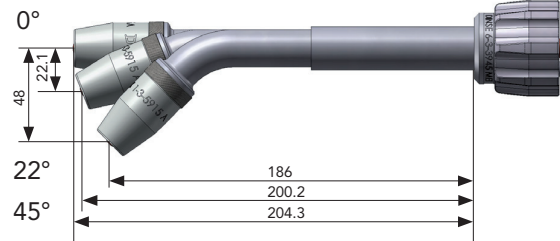
Properties

- ▶ New cooling system - the gas is circulating in a cooling spindle and flows spirally around the tube to the contact tip
- ▶ Optimated heat exchange to dissipate heat effectively
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ High-quality materials
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Small to medium material thicknesses

A MET 39xx



Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):

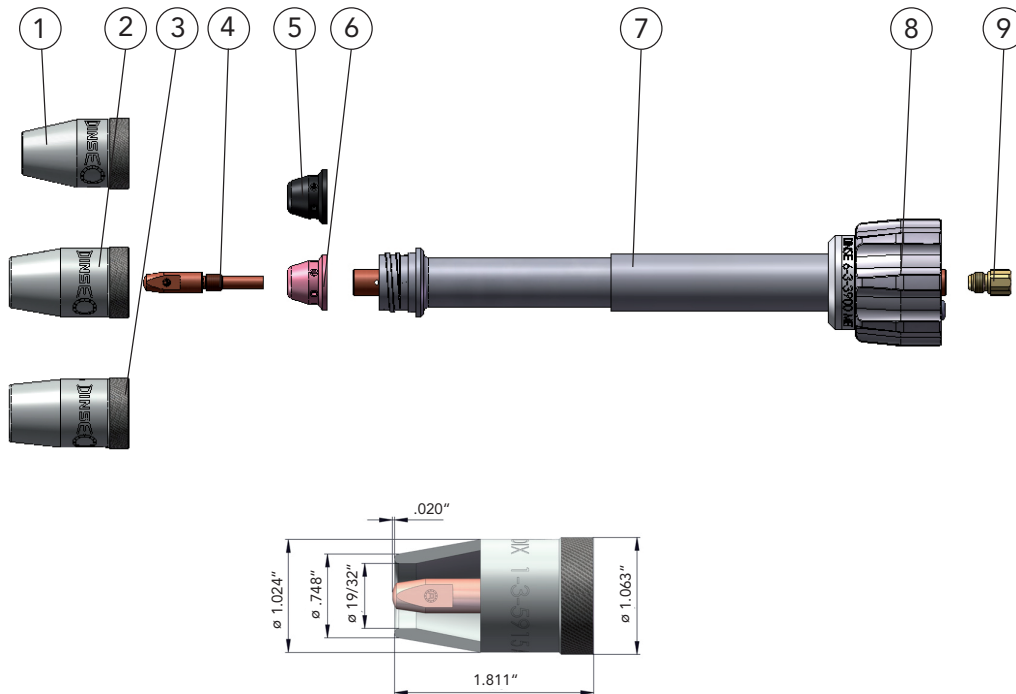
Gas nozzle	trapezoid thread
CO ₂ :	duty cycle 350A/100%
Mixed gas:	300A/100%
Wire diameter:	.039" - .047" (1.0 - 1.2 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX MET 3900	631133027
Torch head	22°	DIX MET 3922	631133028
Torch head	45°	DIX MET 3945	631133029

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MET 3900/3922/3945



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 35/64" (14 mm)	DIX 1-3-5914 A	6390159140
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5915 A	6390159150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5918 A	6390159180
4 Contact tip	M6 x 1.811" (46 mm)	DIX 3-2-._./46	6290346_ _
5 Gas diffuser		DIX GVT 590	6391059001
6 Gas diffuser	(10 pcs.)	DIX GVT 590 K	6391059003
7 Torch neck	0°	DIX 6-3-3900 MET	6390653900
Torch neck	22°	DIX 6-3-3922 MET	6390653922
Torch neck	45°	DIX 6-3-3945 MET	6390653945
8 Screw cap, gray		DIX 6-3 MET	629061001
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 10 stands for 1.0 mm or 12 stands for 1.2 mm.

- Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5915 A, (contact tip, DIX 3-2-1.0/46, flush, Gas diffuser DIX GVT 590 K). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 520/522/524/528

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

Properties

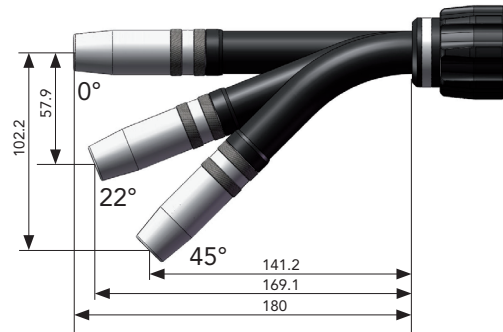
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

- ▶ For hollow shaft robots
- ▶ Unlimited rotation of the torch head
- ▶ Torsion free welding torch set
- ▶ Service friendly double separability at the rotary interface and the wire feeder
- ▶ No time loss for purging after air blast, immediate start of welding

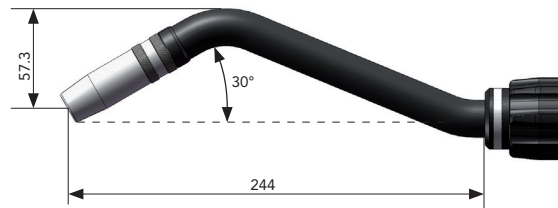
Application

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

A METZ 52x



B METZ 528



For ECO.torch, LITE.torch and REVO.torch

The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system

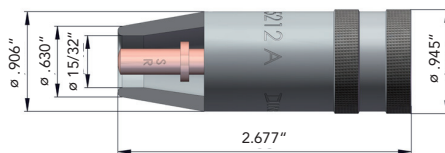
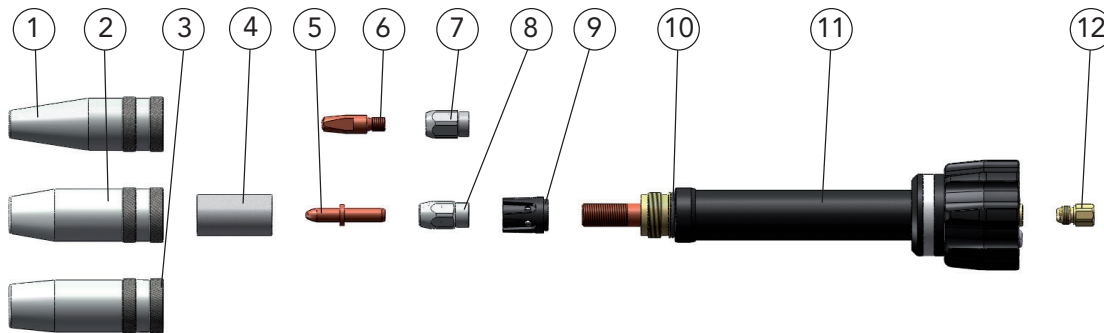
Gas nozzle:	trapezoid thread
CO ₂ :	duty cycle 350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 520	631352001
Torch head	22°	DIX METZ 522	631352002
Torch head	45°	DIX METZ 524	631352003
B Torch head	30°	DIX METZ 528	631352008

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX METZ 520/522/524/528



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 11/32" (9 mm)	DIX 1-3-5209 A	6390152090
2 Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 A	6390152120
3 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5215 A	6390152150
4 Insulator For pos. 2 and 3		DIX 2-3-520	6390252000
5 Contact tip	\varnothing .236" x 1.378" (\varnothing 6 x 35 mm)	DIX 3-1-__ SR	6190354__
6 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
7 Tip adapter		DIX GS 1-K	618150001
8 Clamp nut		DIX 4-1-MAS	6390452000
9 Gas diffuser		DIX 10-1-MAS	6391052000
10 O - ring (10 pcs.)			639060002
11 Torch neck	0°	DIX 6-3-520 METZ	6390635200
Torch neck	22°	DIX 6-3-522 METZ	6390635220
Torch neck	45°	DIX 6-3-524 METZ	6390635240
Torch neck	30°	DIX 6-3-528 METZ	6390635280
12 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

► Standard equipment for wire diameter .039" (1.0 mm) steel with gas nozzle diameter 15/32" (12 mm), DIX 1-3-5212 A, (contact tip, DIX 3-1-1.0 S, flush, clamp sleeve DIX 4-1-MAS, Gas diffuser DIX 10-1 MAS). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 590/592/594/598

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

Properties

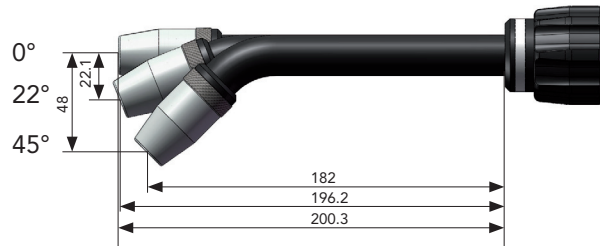
- No gas loss due to separate shield gas feed
- Integrated air blast
- TCP reachable by fixed and adjustable bracket
- Reproducible position by using checking jig with aligning module
- Precise shock sensor
- Tool changer with storage station

- For hollow shaft robots
- Unlimited rotation of the torch head
- Torsion free welding torch set
- Service friendly double separability at the rotary interface and the wire feeder
- No gas loss due to separate shield gas feed
- No time loss for purging after air blast, immediate start of welding

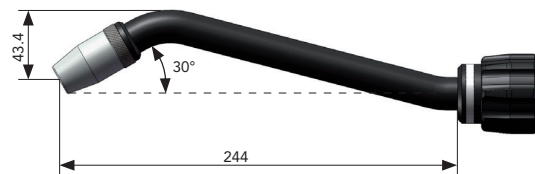
Application

- Non- and low alloyed steels
- High alloyed steels
- Aluminium-, magnesium-, copper-and nickel alloys
- Small to medium material thicknesses

A
METZ 59x



B
METZ 598



For ECO.torch, LITE.torch and REVO.torch

The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system

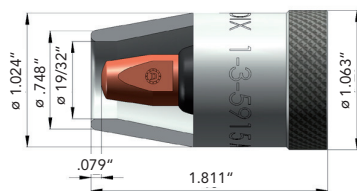
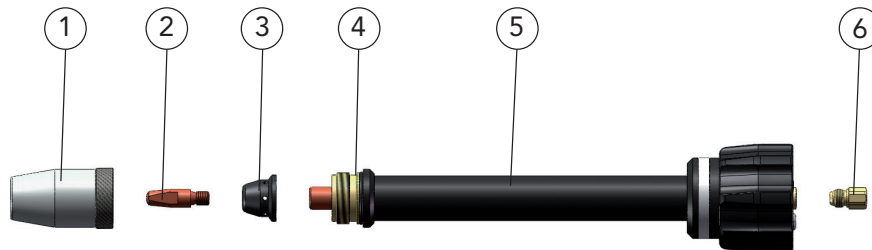
Gas nozzle:	trapezoid thread
	duty cycle
CO ₂ :	350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

	Description	Dimension	Part name	Part number
A	Torch head	0°	DIX METZ 590	631359001
	Torch head	22°	DIX METZ 592	631359002
	Torch head	45°	DIX METZ 594	631359003
B	Torch head	30°	DIX METZ 598	631359009

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX METZ 590/592/594/598



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5915 A	6390159150
2 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
3 Gas diffusor		DIX GVT 590	6391059001
Gas diffusor	(10 pcs.)	DIX GVT 590 K	6391059003
4 O - ring	(10 pcs.)		639060001
5 Torch neck		0° DIX 6-3-590 METZ	6390635900
Torch neck		22° DIX 6-3-592 METZ	6390635920
Torch neck		45° DIX 6-3-594 METZ	6390635940
Torch neck		30° DIX 6-3-598 METZ	6390635980
6 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

- Standard equipment for wire diameter.039" (1.0 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5915 A, (contact tip, DIX 3-2-1.0 , recessed, Gas diffusor DIX GVT 590). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 540/542/544/548

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 450A)

Properties

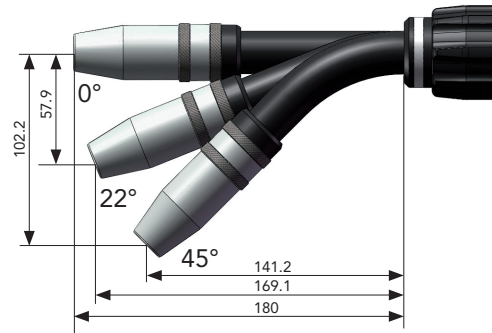
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

- ▶ For hollow shaft robots
- ▶ Unlimited rotation of the torch head
- ▶ Torsion free welding torch set
- ▶ Service friendly double separability at the rotary interface and the wire feeder
- ▶ No gas loss due to separate shield gas feed
- ▶ No time loss for purging after air blast, immediate start of welding

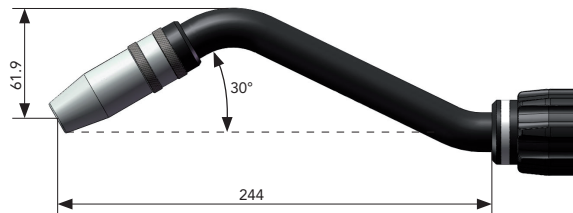
Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Medium to large material thicknesses

A METZ 54x



B METZ 548



For ECO.torch, LITE.torch and REVO.torch
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

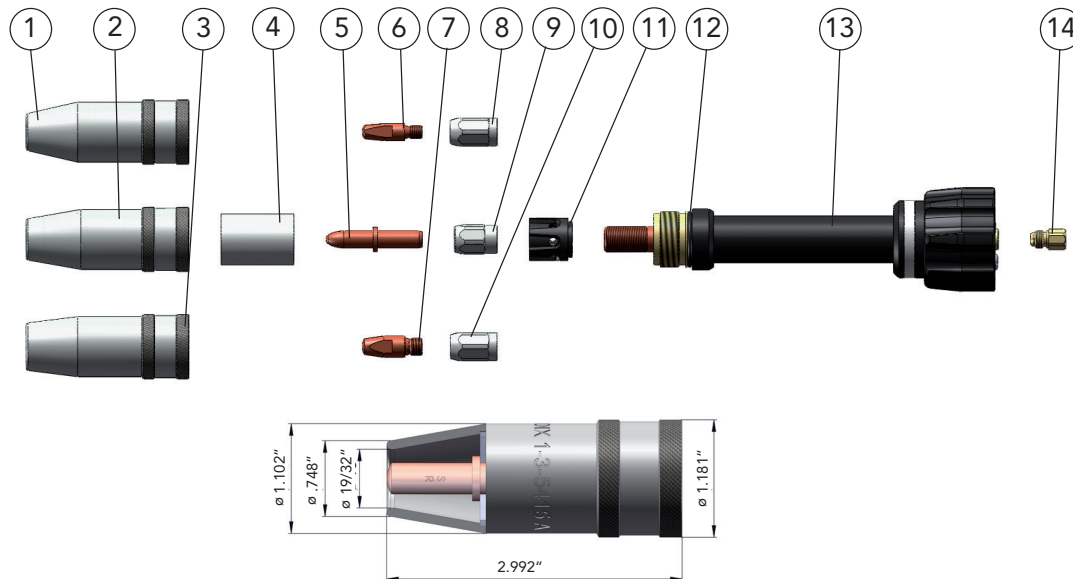
Technical data (DIN EN 60 974-7):	
Dual - circuit cooling system	
Gas nozzle:	trapezoid thread
CO ₂ :	duty cycle 450A/100%
Mixed gas:	400A/100%
Wire diameter:	.039" - .063" (1.0 - 1.6 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 540	631354001
Torch head	22°	DIX METZ 542	631354002
Torch head	45°	DIX METZ 544	631154001
B Torch head	30°	DIX METZ 548	631154019

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 540/542/544/548



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 33/64" (13 mm)	DIX 1-3-5413 A	6390154130
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 A	6390154150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5418 A	6390154180
4 Insulator		DIX 2-3-500	6390250000
5 Contact tip	\varnothing .315" x 1.772" (\varnothing 8 x 45 mm)	DIX 3-2-__ SR	6290354__
6 Contact tip	M6 x .945" (24 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
7 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
8 Tip adapter	M6	DIX GS 2 M6	628150006
9 Clamp nut		DIX 4-2-MAS	6390454000
10 Tip adapter	M8	DIX GS 2 M8	628150008
11 Gas diffusor		DIX 10-3-540	6391054000
12 O - ring	(10 pcs.)		639060003
13 Torch neck	0°	DIX 6-3-540 METZ	6390635400
Torch neck	22°	DIX 6-3-542 METZ	6390635420
Torch neck	45°	DIX 6-3-544 METZ	6390635440
Torch neck	30°	DIX 6-3-548 METZ	6390635480
14 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 10 stands for 1.0 mm or 12 stands for 1.2 mm.

➤ Standard equipment for wire diameter .047" 1.2 mm steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5415 A, (contact tip, DIX 3-2-1.2 S, flush, clamp nut DIX 4-2-MAS, Gas diffusor DIX 10-3-540). Use the hook spanner DIX SLAT 4 to fix the torch heads.

Torch heads DIX METZ 560/562/564/568

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 550A)

Properties

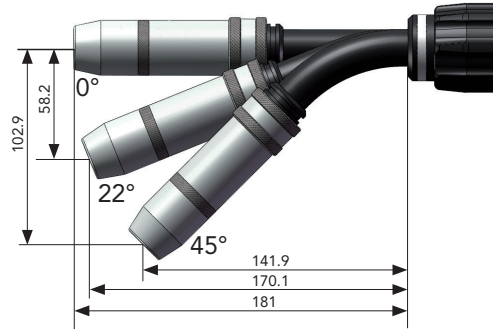
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

- ▶ For hollow shaft robots
- ▶ Unlimited rotation of the torch head
- ▶ Torsion free welding torch set
- ▶ Service friendly double separability at the rotary interface and the wire feeder
- ▶ No gas loss due to separate shield gas feed
- ▶ No time loss for purging after air blast, immediate start of welding

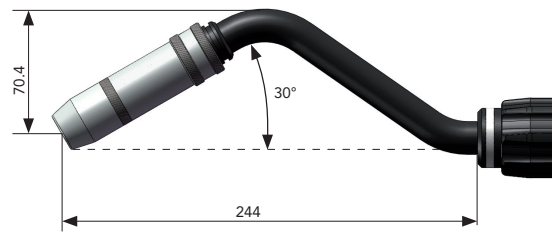
Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper- and nickel alloys
- ▶ Large material thicknesses

A METZ 56x



B METZ 568



For ECO.torch, LITE.torch and REVO.torch
The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

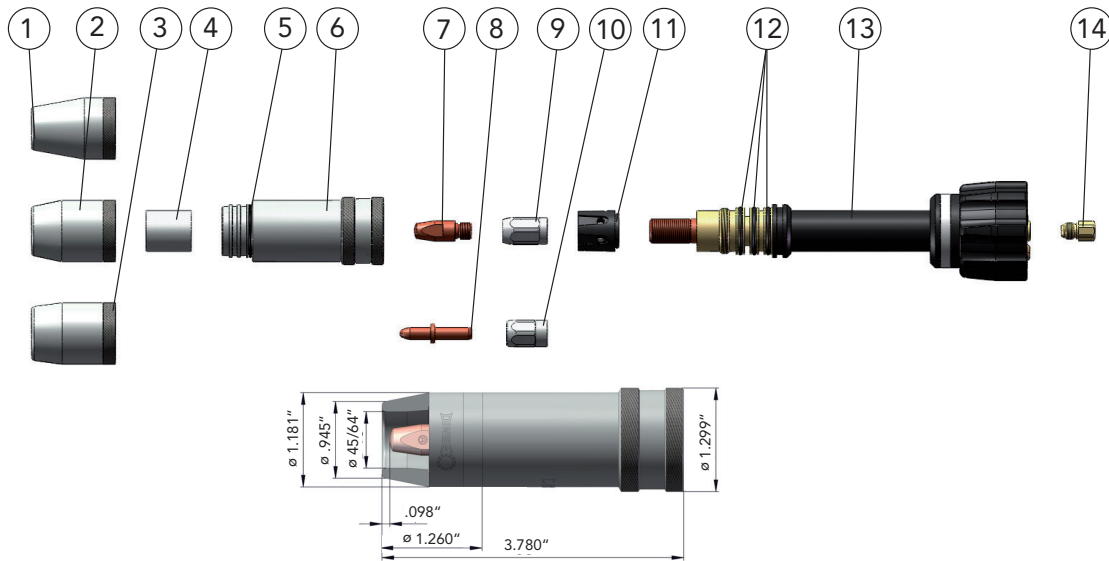
Technical data (DIN EN 60 974-7):	
Dual - circuit cooling system	
Gas nozzle:	with cooling jacket
CO ₂ :	duty cycle 550A/100%
Mixed gas:	500A/100%
Wire diameter:	.047" - .079" (1.2 - 2.0 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 560	631356001
Torch head	22°	DIX METZ 562	631356002
Torch head	45°	DIX METZ 564	631356003
B Torch head	30°	DIX METZ 568	631356011

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 560/562/564/568



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX KMG 115 TR	628040315
2 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX KMG 118 TR	628040318
3 Gas nozzle	ID \varnothing 53/64" (21 mm)	DIX KMG 121 TR	628040321
4 Cooling jacket insulator		DIX KME 110	628040303
5 O-ring, 23x1,5 mm	Viton (10 pcs.)	DIX KMR 100	629110904
6 Cooling jacket, complete, with o-ring		DIX KM 100	628040301
7 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
8 Contact tip	.315" x 1.772" (\varnothing 8 x 45 mm)	DIX 3-2-__ SR	6290354__
9 Tip adapter	M8	DIX GS 2-M8	628150008
10 Clamp nut		DIX 4-2-MAS	6390454000
11 Gas diffuser		DIX 10-3-540	6391054000
12 O - ring	(10 pcs.)		639060005
13 Torch neck	0°	DIX 6-3-560 METZ	6390635600
Torch neck	22°	DIX 6-3-562 METZ	6390635620
Torch neck	45°	DIX 6-3-564 METZ	6390635640
Torch neck	30°	DIX 6-3-568 METZ	6390635680
14 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 12 stands for 1.2 mm or 16 stands for 1.6 mm.

- Standard equipment for wire diameter .047" (1.2 mm) steel with cooling jacket DIX KM 100, gas nozzle diameter 45/64" (18 mm), DIX KMG 118 TR, (contact tip, DIX 3-2-1.2 M8, flush, tip adapter DIX GS 2-M8, gas diffuser DIX 10-3-540).
Use the hook spanner DIX SLAT 4 to fix the torch heads.

Torch heads DIX METZ 570/572/574/578

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 550A)

Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

- ▶ For hollow shaft robots
- ▶ Unlimited rotation of the torch head
- ▶ Torsion free welding torch set
- ▶ Service friendly double separability at the rotary interface and the wire feeder
- ▶ No gas loss due to separate shield gas feed
- ▶ No time loss for purging after air blast, immediate start of welding

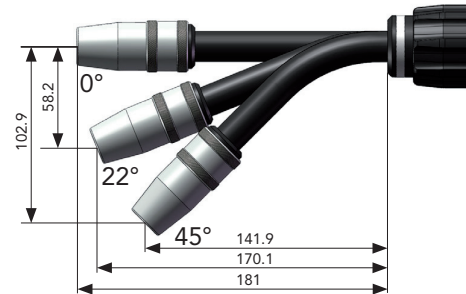


▶ Gas nozzle with screw adapter DIX SAD 5700 for extreme cases of application. The order designation you will find at accessories list.

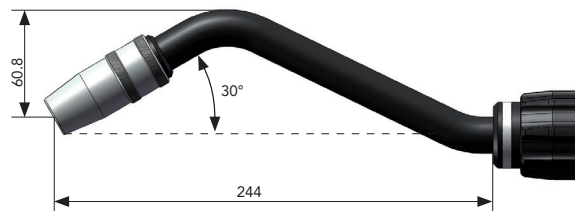
Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Large material thicknesses

A METZ 57x



B METZ 578



For ECO.torch, LITE.torch and REVO.torch

The center point of the sixth robot axis will be cut with a stickout of 15 mm.

Hint:

Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system

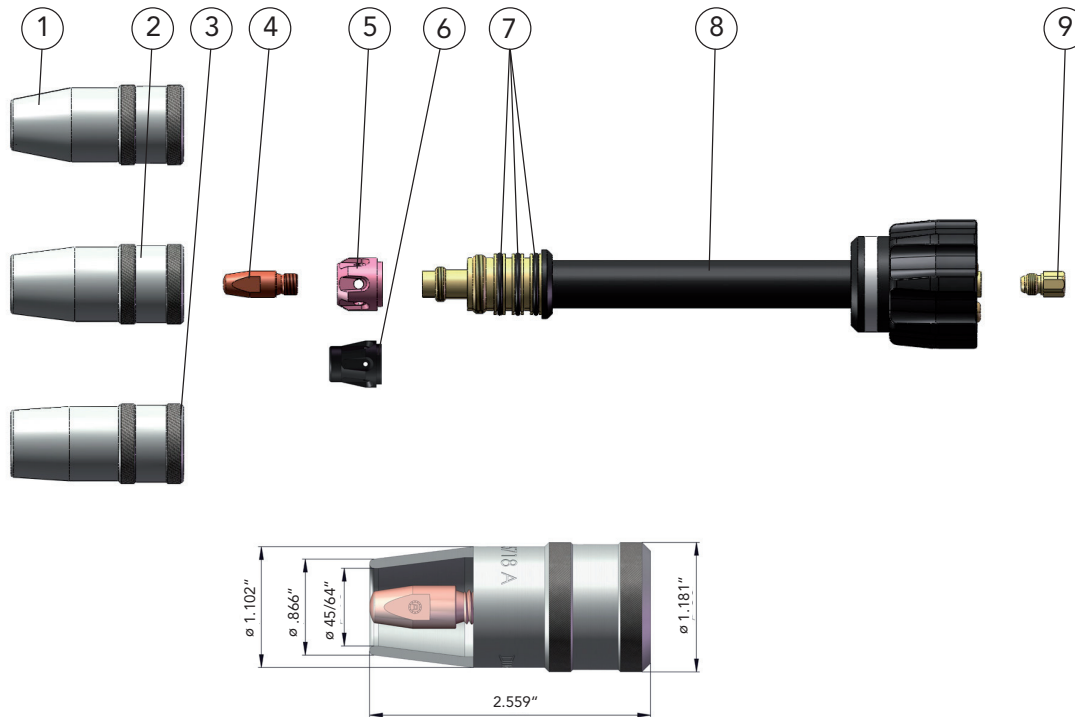
Gas nozzle:	with screw adapter
CO ₂ :	duty cycle 550A/100%
Mixed gas:	500A/100%
Wire diameter:	.047" - .079" (1.2 - 2.0 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 570	631357001
Torch head	22°	DIX METZ 572	631357002
Torch head	45°	DIX METZ 574	631357003
B Torch head	30°	DIX METZ 578	631357005

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX METZ 570/572/574/578



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5715 A	6390157150
2 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5718 A	6390157180
3 Gas nozzle	ID \varnothing 53/64" (21 mm)	DIX 1-3-5721 A	6390157210
4 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
5 Gas diffusor		DIX 10-2-305 K	6291003051
6 Gas diffusor		DIX 10-2-305	6291003052
7 O - ring, .787" x .067" (20x1,7 mm) (10 pcs.)			629110911
8 Torch neck		0° DIX 6-3-570 METZ	6390635700
Torch neck		22° DIX 6-3-572 METZ	6390635720
Torch neck		45° DIX 6-3-574 METZ	6390635740
Torch neck		30° DIX 6-3-578 METZ	6390635780
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 12 stands for 1.2 mm or 16 stands for 1.6 mm.

- Standard equipment for wire diameter .047" (1.2 mm) steel with gas nozzle diameter 45/64" (18 mm), DIX 1-3-5718 A, (contact tip, DIX 3-2-1.2 M8, flush, Gas diffusor DIX 10-2-305 K). Use the hook spanner DIX SLAT 4 to fix the torch heads.

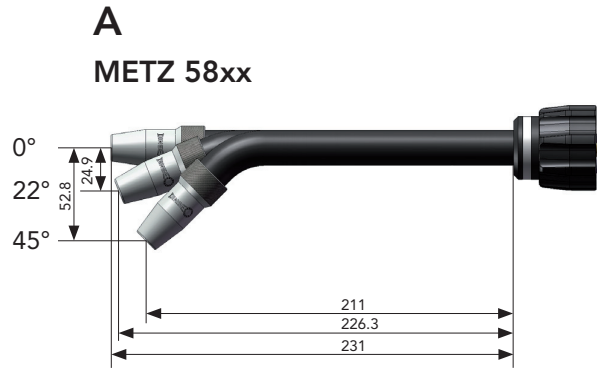
All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX METZ 5800/5822/5845

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 350A)

Properties

- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station



Hint:
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Application

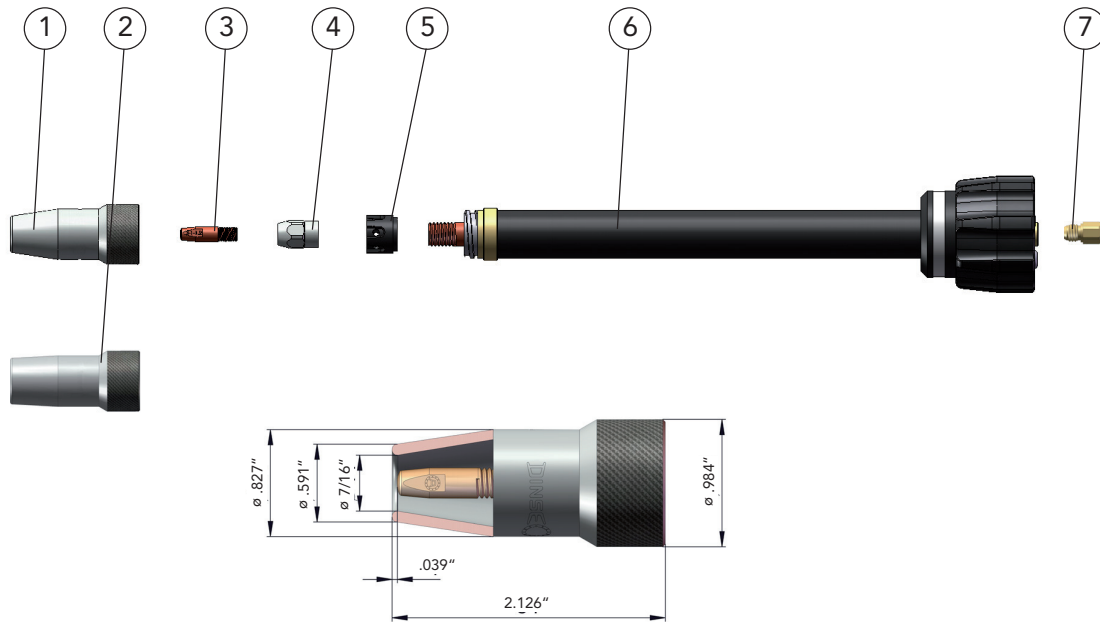
- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Small to medium material thicknesses

Technical data (DIN EN 60 974-7):	
Dual - circuit cooling system	
Gas nozzle:	trapezoid thread
	duty cycle
CO ₂ :	350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 5800	631315800
Torch head	22°	DIX METZ 5822	631315822
Torch head	45°	DIX METZ 5845	631315845

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX METZ 5800/5822/5845



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 7/16" (11 mm)	DIX 1-3-5811 A	6390158110
2 Gasd nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5815 A	6390158150
3 Contact tip	M6 x .945" (24 mm)	DIX 3-1-__	6190300__
4 Tip adapter		DIX GS 5800	619040560
5 Gas diffusor		DIX GVT 5800	619100560
6 Torch neck	0°	DIX 6-3-5800 METZ	6391635800
Torch neck	22°	DIX 6-3-5822 METZ	6391635822
Torch neck	45°	DIX 6-3-5845 METZ	6391635845
7 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

- Standard equipment for wire diameter .047" (1.2 mm) steel with gas nozzle diameter 7/16" (11 mm), DIX 1-3-5718 A, (contact tip, DIX 3-1-1.2 M6, flush, tip adapter DIX GS 5800, Gas diffusor DIX GVT 5800). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.



Torch heads DIX METZ 6400/6422/6445

For separable torch sets, ECO.torch, LITE.torch and REVO.torch (up to 450A)

Properties

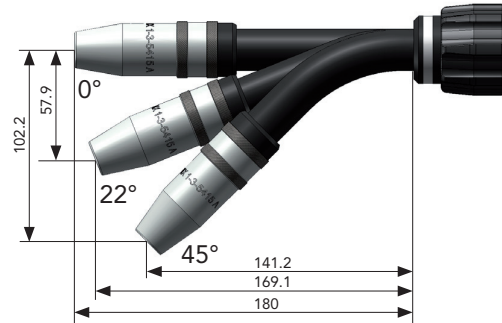
- ▶ No gas loss due to separate shield gas feed
- ▶ Integrated air blast
- ▶ TCP reachable by fixed and adjustable bracket
- ▶ Reproducible position by using checking jig with aligning module
- ▶ Precise shock sensor
- ▶ Tool changer with storage station

- ▶ For hollow shaft robots
- ▶ Torsion free welding torch set
- ▶ Service friendly double separability at the rotary interface and the wire feeder
- ▶ No gas loss due to separate shield gas feed
- ▶ No time loss for purging after air blast, immediate start of welding

Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Medium to large material thicknesses

A METZ 64xx



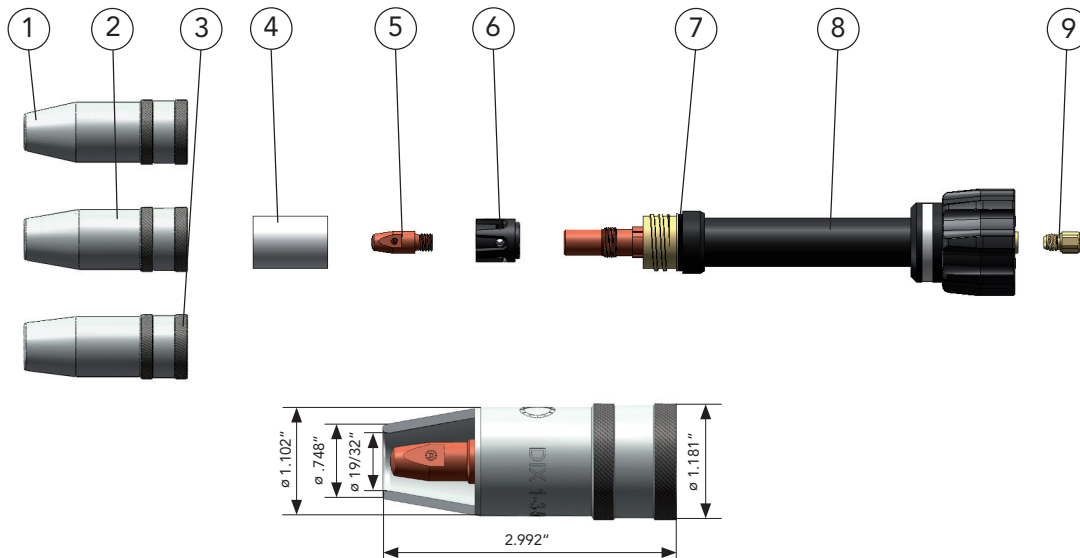
Hint:
Information to the appropriate torch sets you will find in chapter MIG/MAG AUTOMATION Torch sets.

Technical data (DIN EN 60 974-7):	
Dual - circuit cooling system	
Gas nozzle:	trapezoid thread
	duty cycle
CO ₂ :	450A/100%
Mixed gas:	400A/100%
Wire diameter:	.039" - .063" (1.0 - 1.6 mm)

Description	Dimension	Part name	Part number
A Torch head	0°	DIX METZ 6400	631136401
Torch head	22°	DIX METZ 6422	631136402
Torch head	45°	DIX METZ 6445	631136403

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX METZ 6400/6422/6445



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 33/64" (13 mm)	DIX 1-3-5413 A	6390154130
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 A	6390154150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5418 A	6390154180
4 Insulator		DIX 2-3-500	6390250000
5 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
6 Gas diffusor		DIX 10-3-540/1607	63910916071
7 O - Ring	(10 pcs.)		639060003
8 Torch neck		0° DIX 6-3-6400 METZ	6390636400
Torch neck		22° DIX 6-3-6422 METZ	6390636422
Torch neck		45° DIX 6-3-6445 METZ	6390636445
9 Connecting piece		DIX MES 300/500	639061500041
Connecting piece, MEPTZ (without picture)		DIX MEPS 300/500	6390665000
Clamp sleeve (without picture)		DIX SH 270	629270270

-- Enter the required wire diameter only in millimeter, e.g.: 10 stands for 1.0 mm or 12 stands for 1.2 mm.

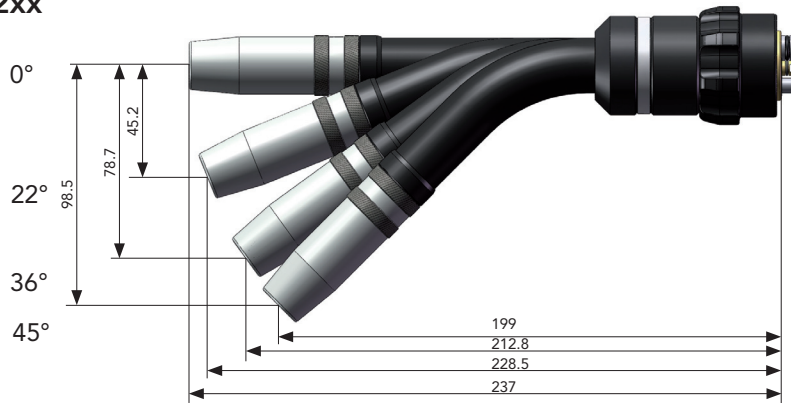
- Standard equipment for wire diameter .047" (1.2 mm) steel with gas nozzle diameter 19/32" (15 mm), DIX 1-3-5415 A, (contact tip, DIX 3-2-1.2 M8, recessed, gas diffusor DIX 10-3-540/1607). Use the hook spanner DIX SLAT 4 to fix the torch heads.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX MFTZ 5200/5222/5245/5236

For FRONIUS® torch sets (up to 350A)

A MFTZ 52xx



Application

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

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system	
Gas nozzle:	trapezoid thread
CO ₂ :	duty cycle 350A/100%
Mixed gas:	300A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

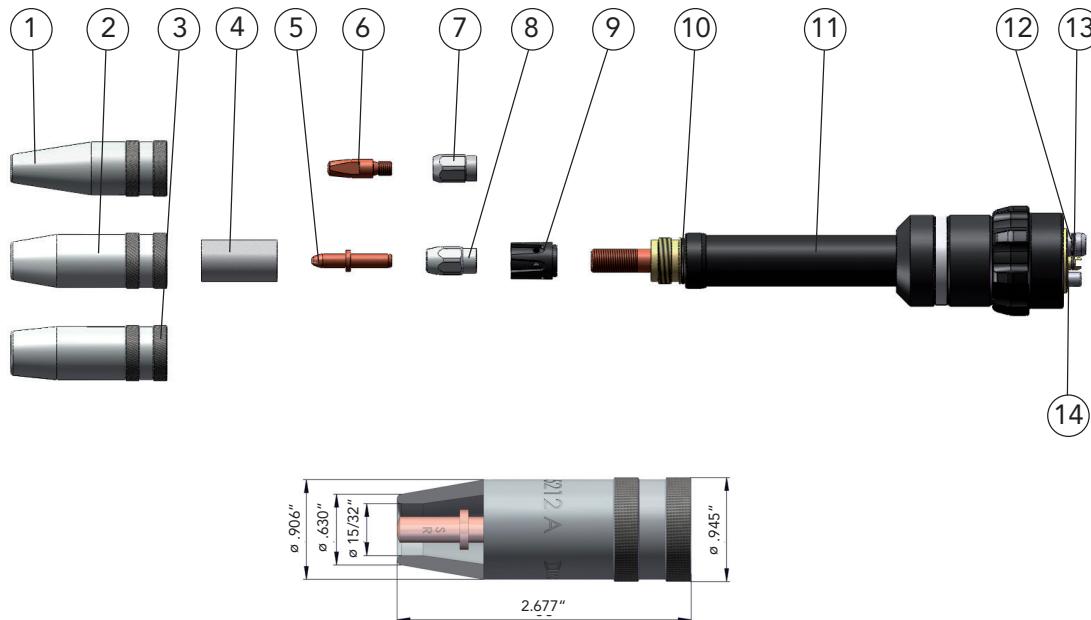
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MFTZ 5200	631505200
Torch head	22°	DIX MFTZ 5222	631505222
Torch head	45°	DIX MFTZ 5245	631505245
Torch head	36°	DIX MFTZ 5236	631505236

- ▶ Same TCP as Fronius®. Other TCP's on request.

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MFTZ 5200/5222/5245/5236



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 11/32" (9 mm)	DIX 1-3-5209 A	6390152090
2 Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 A	6390152120
3 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5215 A	6390152150
4 Insulator For pos. 2 and 3		DIX 2-3-520	6390252000
5 Contact tip	\varnothing .236" x 1.378" (\varnothing 6 x 35 mm)	DIX 3-1-__ SR	6190354__
6 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
7 Tip adapter		DIX GS 1-K	618150001
8 Clamp nut		DIX 4-1-MAS	6390452000
9 Gas diffusor		DIX 10-1-MAS	6391052000
10 O - ring, .669" x .059"	(17x1.5 mm) (10 pcs.)		639060002
11 Torch neck		0° DIX 6-3-5200 MFTZ	6390685200
Torch neck		22° DIX 6-3-5222 MFTZ	6390685222
Torch neck		45° DIX 6-3-5245 MFTZ	6390685245
Torch neck		36° DIX 6-3-5236 MFTZ	6390685236
12 O - ring, .276" x .059"	(7x1.5 mm) (10 pcs.)		639159009
13 O - ring, .157" x .039"	(4x1.0 mm) (10 pcs.)		629110901
14 O - ring, .236" x .059"	(6x1.5 mm) (10 pcs.)		639060008

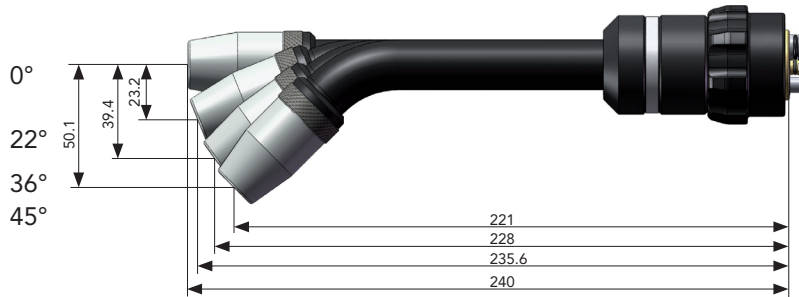
-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX MFTZ 5900/5922/5945/5936

For FRONIUS® torch sets (up to 400A)

A MFTZ 59xx



Application

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

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system

Gas nozzle:	trapezoid thread
	duty cycle
CO ₂ :	400A/100%
Mixed gas:	350A/100%
Wire diameter:	.031" - .047" (0.8 - 1.2 mm)

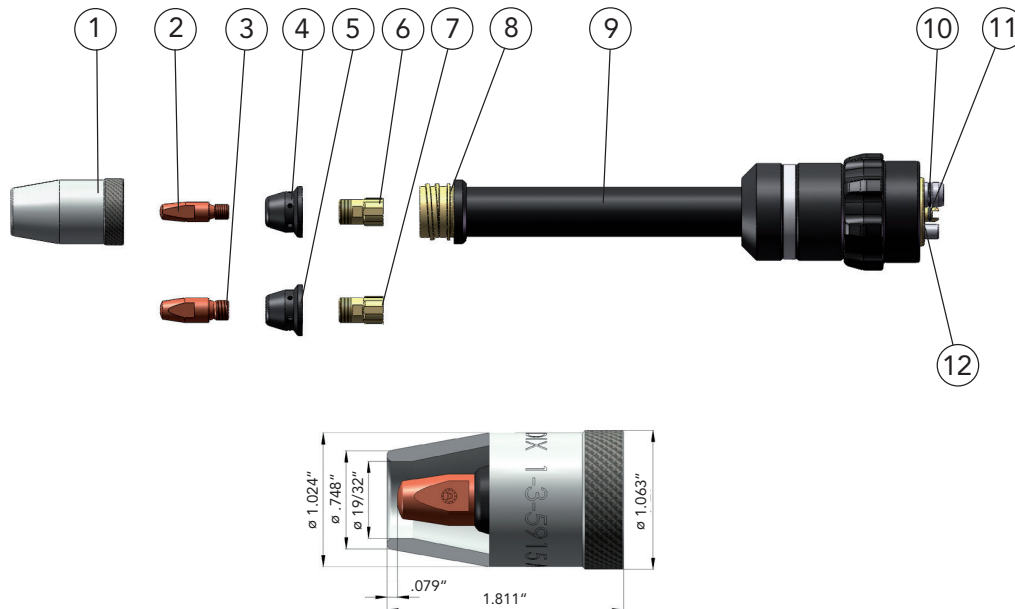
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MFTZ 5900	631505900
Torch head	22°	DIX MFTZ 5922	631505922
Torch head	45°	DIX MFTZ 5945	631505945
Torch head	36°	DIX MFTZ 5936	631505936

- ▶ Same TCP as Fronius®. Other TCP's on request.

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MFTZ 5900/5922/5945/5936



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5915 A	6390159150
2 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300__
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330__
3 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301__
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331__
4 Gas diffusor		DIX GVT 590	6391059001
Gas diffusor	(10 pcs.)	DIX GVT 590 K	6391059003
5 Gas diffusor		DIX GVT 590/001	6391059002
6 Tip adapter		M6 DIX GS 590 M6	639069257313
7 Tip adapter		M8 DIX GS 590 M8	639069257314
8 O - ring, .787" x .059" (20x1.5 mm) (10 pcs.)			639060001
9 Torch neck		0° DIX 6-3-5900 MFTZ	6390685900
Torch neck		22° DIX 6-3-5922 MFTZ	6390685922
Torch neck		45° DIX 6-3-5945 MFTZ	6390685945
Torch neck		36° DIX 6-3-5936 MFTZ	6390685936
10 O - ring, .276" x .059" (7x1.5 mm) (10 pcs.)			639159009
11 O - ring, .157" x .039" (4x1.0 mm) (10 pcs.)			629110901
12 O - ring, .236" x .059" (6x1.5 mm) (10 pcs.)			639060008

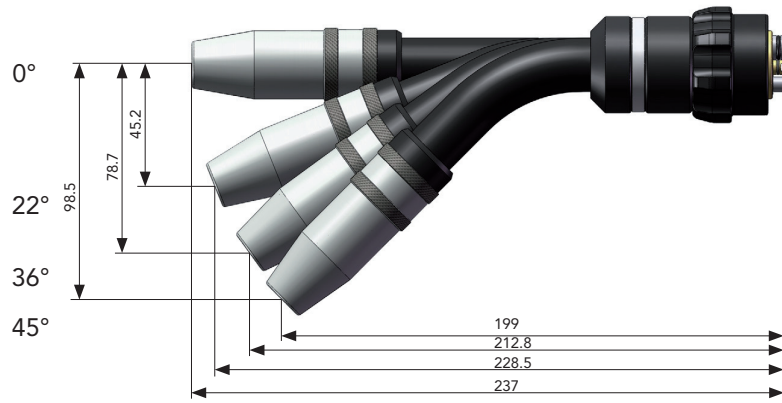
-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX MFTZ 5400/5422/5445/5436

For FRONIUS® torch sets (up to 450A)

A MFTZ 54xx



Application

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

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system

Gas nozzle:	trapezoid thread
CO ₂ :	duty cycle 450A/100%
Mixed gas:	400A/100%
Wire diameter:	.039" - .063" (1.0 - 1.6 mm)

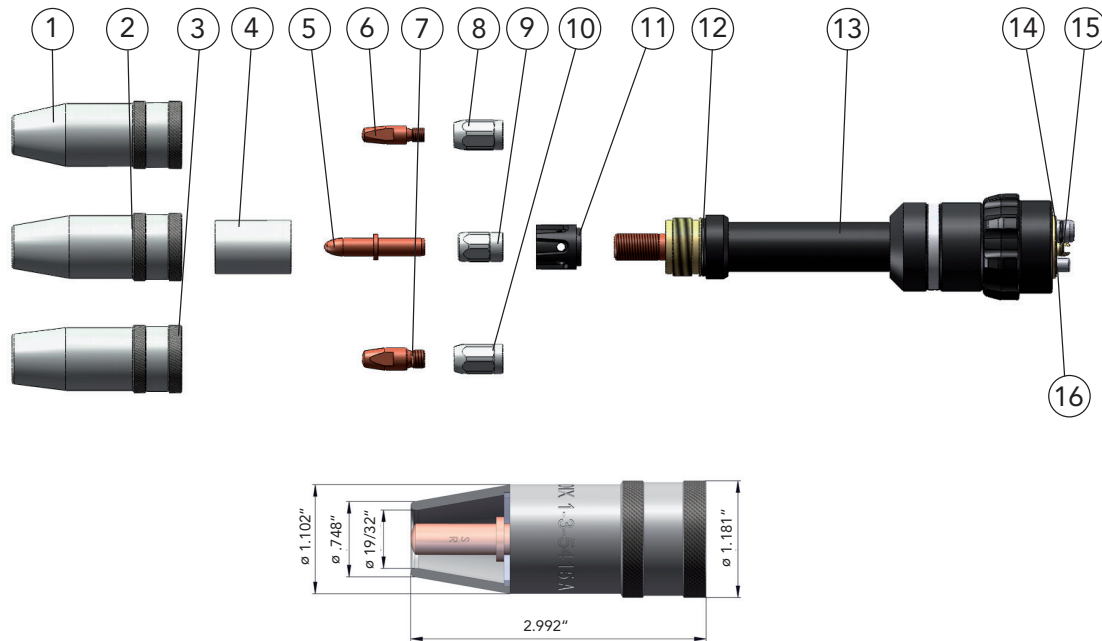
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MFTZ 5400	631505400
Torch head	22°	DIX MFTZ 5422	631505422
Torch head	45°	DIX MFTZ 5445	631505445
Torch head	36°	DIX MFTZ 5436	631505436

- ▶ Same TCP as Fronius®. Other TCP's on request.

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MFTZ 5400/5422/5445/5436



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 33/64" (13 mm)	DIX 1-3-5413 A	6390154130
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 A	6390154150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5418 A	6390154180
4 Insulator		DIX 2-3-500	6390250000
5 Contact tip	\varnothing .315" x 1.772" (\varnothing 8 x 45 mm)	DIX 3-2-__ SR	6290354_
6 Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__	6290300_
Contact tip	M6 x 1.102" (28 mm)	DIX 3-2-__ CR-ZR	6290330_
7 Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8	6290301_
Contact tip	M8 x 1.102" (28 mm)	DIX 3-2-__ M8 CR-ZR	6290331_
8 Tip adapter	M6	DIX GS 2 M6	628150006
9 Clamp nut		DIX 4-2-MAS	6390454000
10 Tip adapter	M8	DIX GS 2 M8	628150008
11 Gas diffusor		DIX 10-3-540	6391054000
12 O - ring, .866"x.079"	(22x2 mm) (10 pcs.)		639060003
13 Torch neck	0°	DIX 6-3-5400 MFTZ	6390685400
Torch neck	22°	DIX 6-3-5422 MFTZ	6390685422
Torch neck	45°	DIX 6-3-5445 MFTZ	6390685445
Torch neck	36°	DIX 6-3-5436 MFTZ	6390685436
14 O - ring, .276"x.059"	(7x1.5 mm) (10 pcs.)		639159009
15 O - ring, .157"x.039"	(4x1.0 mm) (10 pcs.)		629110901
16 O - ring, .236"x.059"	(6x1.5 mm) (10 pcs.)		639060008

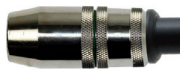
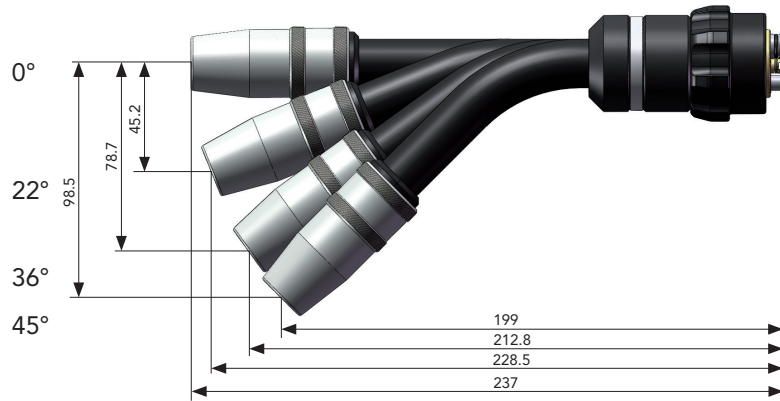
-- Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm or 10 stands for 1.0 mm.

All order dimensions abiding in „mm“ respectively in „m“.

Torch heads DIX MFTZ 5700/5722/5745/5736

For FRONIUS® torch sets (up to 500A)

A MFTZ 57xx



▶ Gas nozzle with screw adapter DIX SAD 5700 for extreme cases of application. The order designation you will find at the accessories list.

Application

- ▶ Non- and low alloyed steels
- ▶ High alloyed steels
- ▶ Aluminium-, magnesium-, copper-and nickel alloys
- ▶ Large material thicknesses

Technical data (DIN EN 60 974-7):

Dual - circuit cooling system	
Gas nozzle:	with screw adapter
CO ₂ :	duty cycle 550A/100%
Mixed gas:	500A/100%
Wire diameter:	.047" - .079" (1.2 - 2.0 mm)

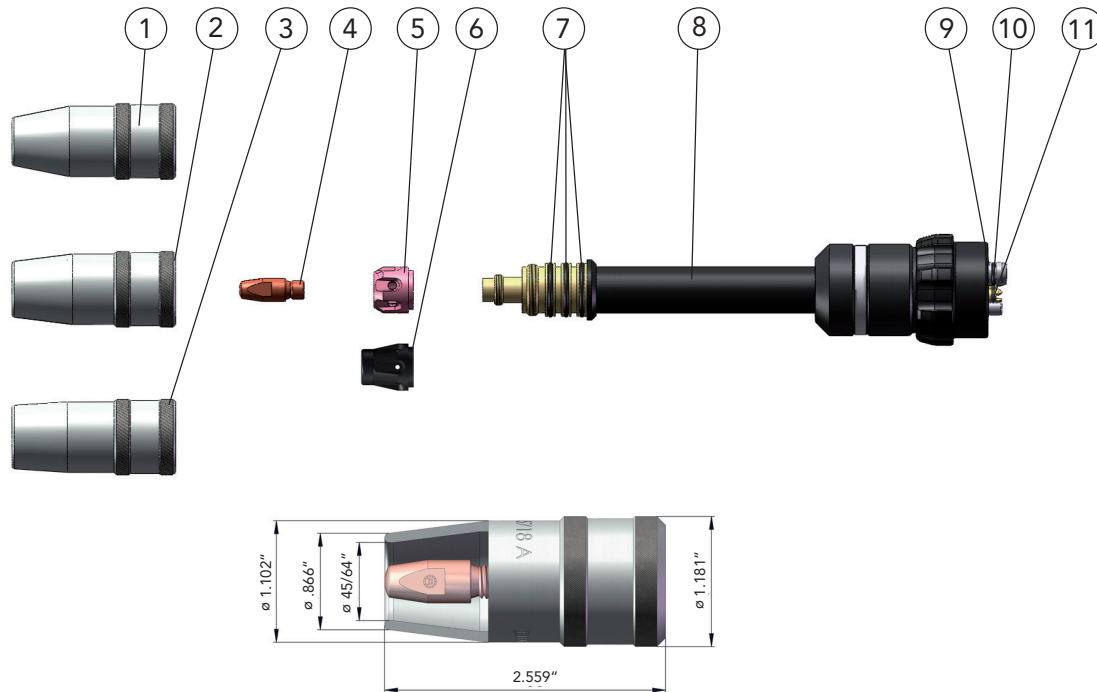
Description	Dimension	Part name	Part number
A Torch head	0°	DIX MFTZ 5700	631505700
Torch head	22°	DIX MFTZ 5722	631505722
Torch head	45°	DIX MFTZ 5745	631505745
Torch head	36°	DIX MFTZ 5736	631505736

Same TCP as Fronius®. Other TCP's on request.

Hint:

- ▶ Liners, capillary liners and service tools you will find in chapter tools and accessories.

Torch heads DIX MFTZ 5700/5722/5745/5736



Description	Dimension Inch / Metric	Part name	Part number
Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5715 A	6390157150
Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5718 A	6390157180
Gas nozzle	ID \varnothing 53/64" (21 mm)	DIX 1-3-5721 A	6390157210
Contact tip		DIX 3-2-__ M8	6290301__
Contact tip		DIX 3-2-__ M8 CR-ZR	6290331__
Gas diffusor		DIX 10-2-305 K	6291003051
Gas diffusor		DIX 10-2-305	6291003052
O - ring, .787"x.067" (20x1.7 mm)	(10 pcs.)		629110911
Torch neck		0° DIX 6-3-5700 MFTZ	6390685700
Torch neck		22° DIX 6-3-5722 MFTZ	6390685722
Torch neck		45° DIX 6-3-5745 MFTZ	6390685745
Torch neck		36° DIX 6-3-5736 MFTZ	6390685736
O - ring, .276"x.059" (7x1.5 mm)	(10 pcs.)		639159009
O - ring, .157"x.039" (4x1.0 mm)	(10 pcs.)		629110901
O - ring, .236"x.059" (6x1.5 mm)	(10 pcs.)		639060008

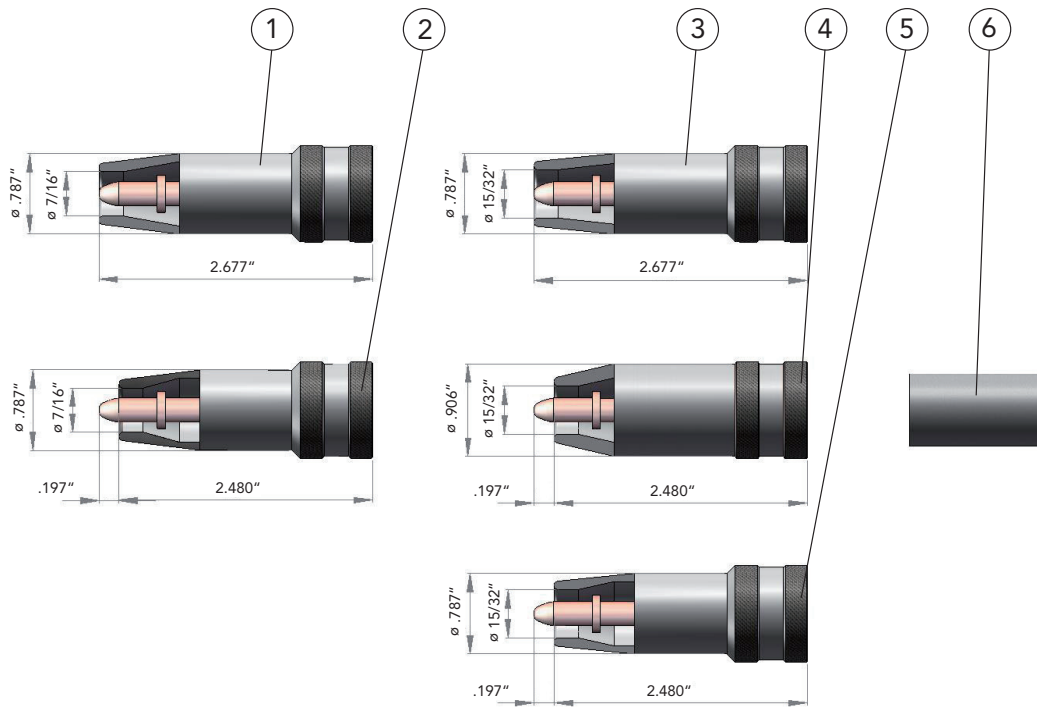
-- Enter the required wire diameter only in millimeter, e.g.: 12 stands for 1.2 mm or 16 stands for 1.6 mm.

All order dimensions abiding in „mm“ respectively in „m“.

Accessories for torch heads

Gas nozzles

For torch heads DIX MET 35x, METZ 52x, METR 358, MFTZ 52xx



	Description	Dimension Inch / Metric	Part name	Part number
1	Gas nozzle	ID \varnothing 7/16" (11 mm)	DIX 1-3-5211 AR	6390152115
2	Gas nozzle	ID \varnothing 7/16" (11 mm)	DIX 1-3-5211 AKR	6390152116
3	Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 AR	6390152125
4	Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 AK	6390152121
5	Gas nozzle	ID \varnothing 15/32" (12 mm)	DIX 1-3-5212 AKR	6390152126
6	Insulator For pos. 4		DIX 2-3-520	6390252000

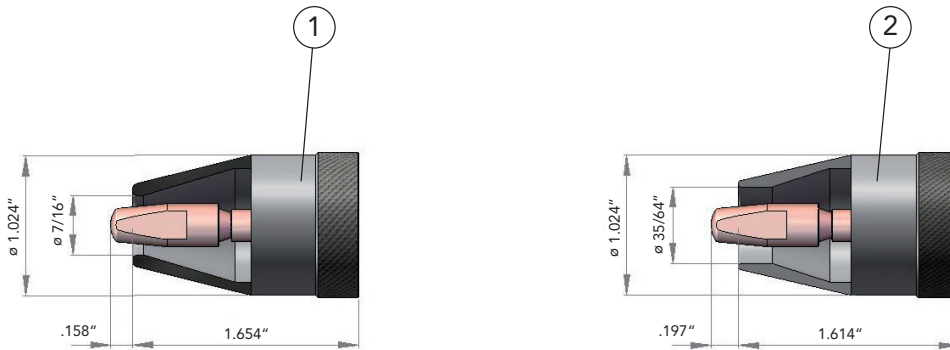
- ▶ K - short, R - reduced
Other versions on request.

All order dimensions abiding in „mm“ respectively in „m“.

Accessories for torch heads

Gas nozzles

For torch heads DIX MET 39x, METZ 59x, METR 398/59x, MFTZ 59xx



Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 7/16" (11 mm)	DIX 1-3-5911 A	6390159110
2 Gas nozzle	ID \varnothing 35/64" (14 mm)	DIX 1-3-5914	6390159149

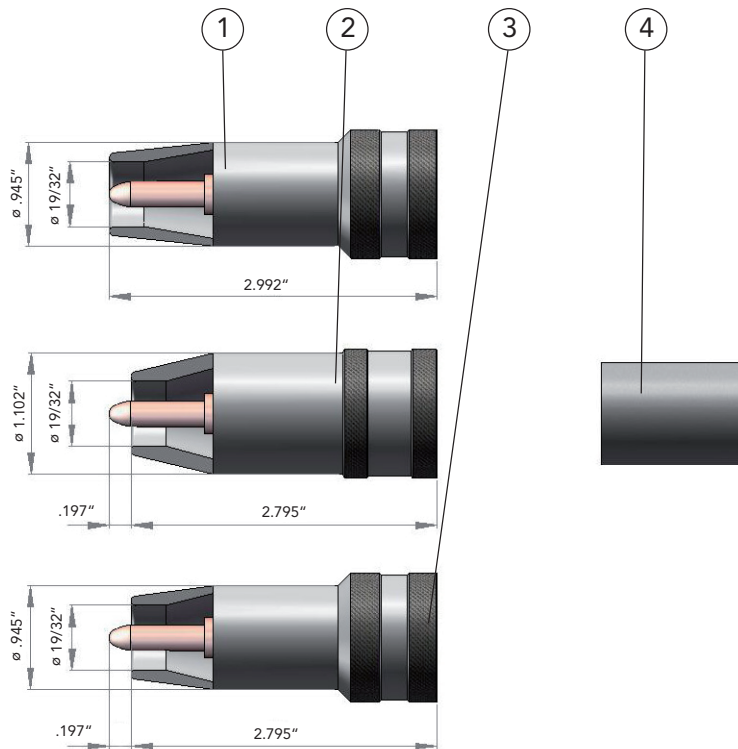
All order dimensions abiding in „mm“ respectively in „m“.

MIG/MAG AUTOMATION

Accessories for torch heads

Gas nozzles

For torch heads DIX METZ 54x, MFTZ 54xx



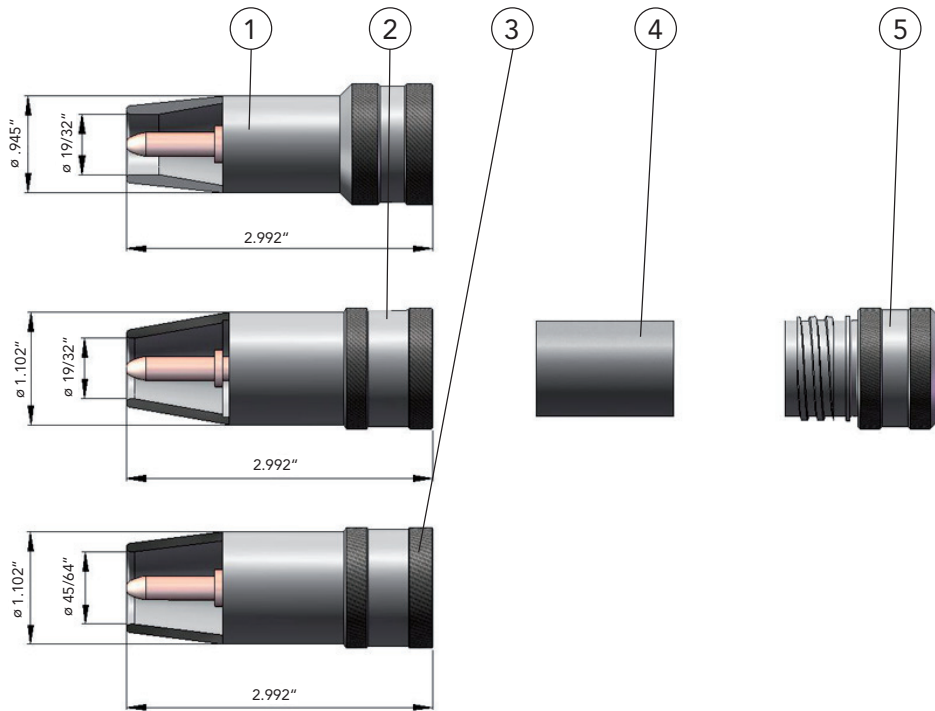
	Description	Dimension Inch / Metric	Part name	Part number
1	Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 AR	6390154155
2	Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 AK	6390154151
3	Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 AKR	6390154156
4	Insulator For pos. 2		DIX 2-3-500	6390250000

- K - short, R - reduced
Other versions on request.

All order dimensions abiding in „mm“ respectively in „m“.

Gas nozzles

For torch heads DIX METZ 56x



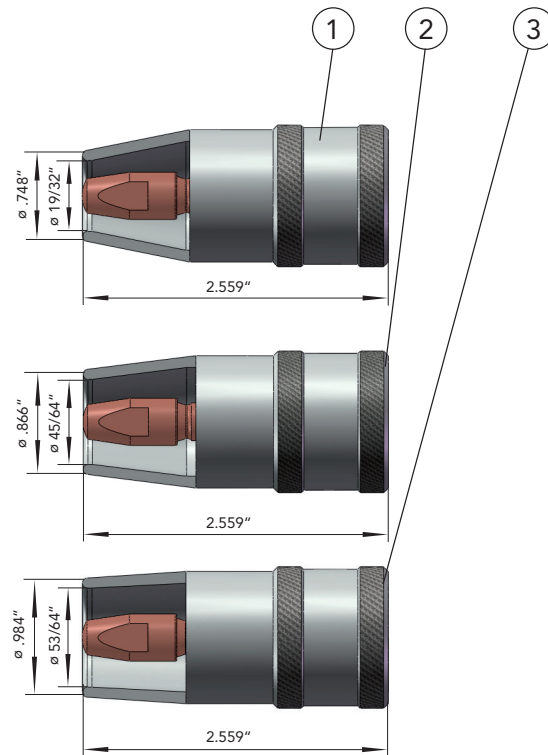
Description	Dimension Inch / Metric	Part name	Part number
1 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 AR	6390154155
2 Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5415 A	6390154150
3 Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5418 A	6390154180
4 Insulator For pos. 2		DIX 2-3-500	6390250000
5 Screw adapter		DIX SAD 2-404/540	628140000

- R - reduced
Other versions on request.

All order dimensions abiding in „mm“ respectively in „m“.

Gas nozzles

For torch heads DIX METZ 57x, MFTZ 57xx



	Description	Dimension Inch / Metric	Part name	Part number
1	Gas nozzle	ID \varnothing 19/32" (15 mm)	DIX 1-3-5715 A	6390157150
2	Gas nozzle	ID \varnothing 45/64" (18 mm)	DIX 1-3-5718 A	6390157180
3	Gas nozzle	ID \varnothing 53/64" (21 mm)	DIX 1-3-5721 A	6390157210

► Other versions on request.

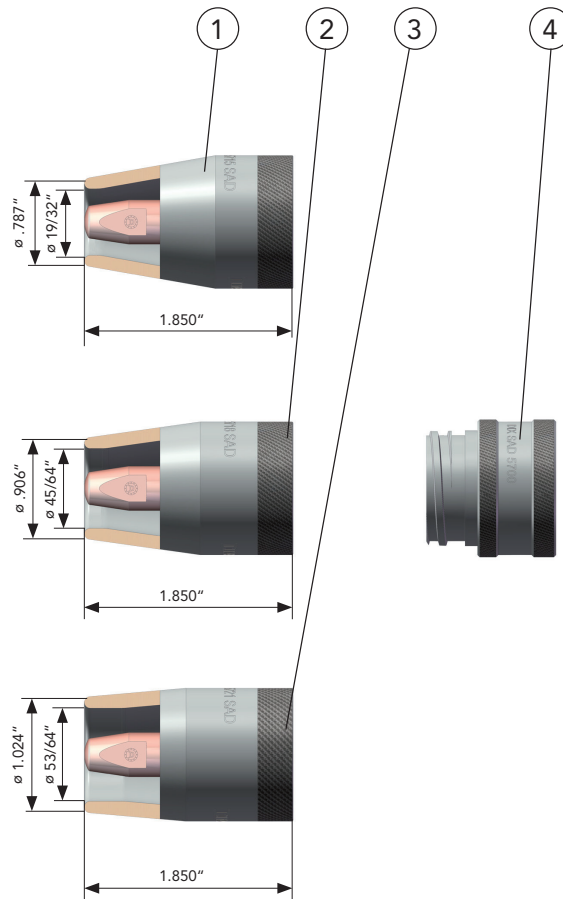
All order dimensions abiding in „mm“ respectively in „m“.

Accessories for torch heads



Gas nozzles

For torch heads DIX MSZ/MCZ 305, METZ 57x, MFTZ 57xx



	Description	Dimension Inch / Metric	Part name	Part number
1	Gas nozzle	ID ø 19/32" (15 mm)	DIX 1-3-5715 SAD	6280257157
2	Gas nozzle	ID ø 45/64" (18 mm)	DIX 1-3-5718 SAD	6280257187
3	Gas nozzle	ID ø 53/64" (21 mm)	DIX 1-3-5721 SAD	6280257217
4	Screw adapter		DIX SAD 5700	628145700








► Other versions on request.

All order dimensions abiding in „mm“ respectively in „m“.

MIG/MAG AUTOMATION

MIG/MAG AUTOMATION

Robotic and automatic applications MIG/MAG, TIG

Shock sensor		SAS 100	42
Shock sensor		SAS 200	43
Torch bracket, fixed version		PHF 100	44
Torch bracket, adjustable version		PHW 100	44
For TIG			
Torch bracket, fixed version		PHF 110	45
Torch bracket - system		PHS 600 PHS 625	46
For PUSH-PULL and PUSH-PUSH			
Torch bracket		MEP 200	48



Shock sensor SAS 100

For robotic and automatic applications

MIG/MAG AUTOMATION

Properties

- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight

Application

- ▶ For DINSE torch systems
gas cooled
 DIX MET / METT 310
liquid cooled
 DIX METZ / METTZ 600
- ▶ For DINSE torch brackets
 DIX PHF 100, PHW 100, PHF 110



MIG/MAG application sample



WIG application sample



Technical data (DIN EN 60 974-7):

Reset accuracy:	± 0.03 mm
400 mm to robotic flange	
Deflection range:	20°
Switch class:	Opener
Switching capacity:	30V DC/0.5A
Dimension (D/H):	ø 3.091" - 2.559" (ø 78.5 / 65 mm)
Weight:	660 g
Cable length:	3.937" - 33.465" (100 - 850 mm)
Adapter flange	DIX ADF 6xxx
Bore pattern dependent of robot type	

Hint:
Information to the appropriate adapter flanges ADF you will find in chapter TOOLS and ACCESSORIES.

Description	Dimension Inch / Metric	Part name	Part number
A Shock sensor	ø 3.091" / 2.559" (ø 78.5 / 65 mm)	DIX SAS 100	68310001

Spare parts and wear parts

1	Dust boot	DIX SAS 640	683100015
2	Switch set	DIX SAS 650	683100018

Hint: Service tools you will find in chapter tools and accessories.

Shock sensor SAS 200

For robotic and automatic applications



Properties

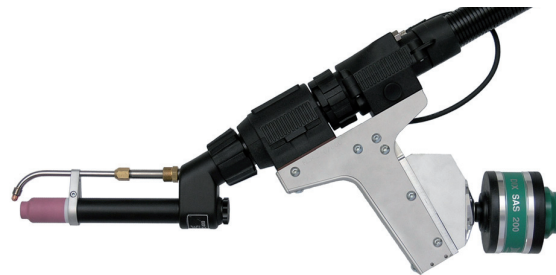
- ▶ Crash-protection of robot, welding torch and welding fixture at collision in set up and automatic mode
- ▶ Quick shut down of the robot through program stop or emergency stop
- ▶ Precise reset after deflection
- ▶ Low weight



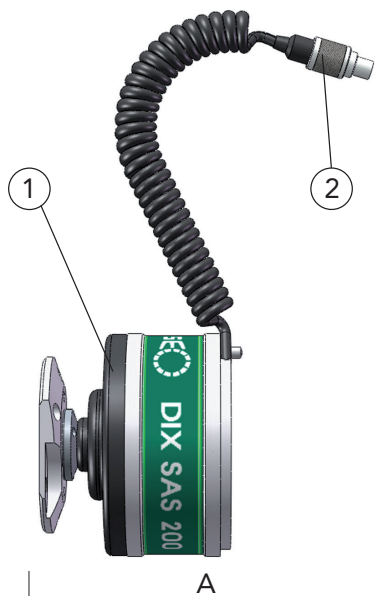
MIG/MAG application sample

Application

- ▶ For DINSE torch systems
gas cooled
 DIX MEPTT 310
liquid cooled
 DIX MEPTTZ 600
- ▶ For DINSE torch brackets
 DIX MEP 200(E)(T)



WIG application sample



Technical data (DIN EN 60 974-7):	
Reset accuracy: 400 mm to robotic flange	± 0.03 mm
Deflection range:	20°
Switch class:	Opener
Switching capacity:	30V DC/0.5A
Dimension (D/H):	ø 3.091" - 2.559" (ø 78.5 / 65 mm)
Weight:	660 g
Cable length:	3.937" - 33.465" (100 - 850 mm)
Adapter flange	DIX ADF 6xxx
Bore pattern dependent of robot type	

Hint:
Information to the appropriate adapter flanges ADF you will find in chapter TOOLS and ACCESSORIES.

Description	Dimension Inch / Metric	Part name	Part number
A Shock sensor	ø 3.091" / 2.559" (ø 78.5 / 65 mm)	DIX SAS 200	683100200

Spare parts and wear parts

1	Dust boot	DIX SAS 640	683100015
2	Switch set	DIX SAS 650	683100018

Hint: Service tools you will find in chapter tools and accessories.

MIG/MAG AUTOMATION



Torch bracket, fixed PHF 100 / adjustable PHW 100

For robotic and automatic applications MIG/MAG

MIG/MAG AUTOMATION

Properties

- ▶ All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- ▶ Torch brackets made of aluminium cast alloy
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Flexible TCP adjustment by adjustable torch bracket

Application

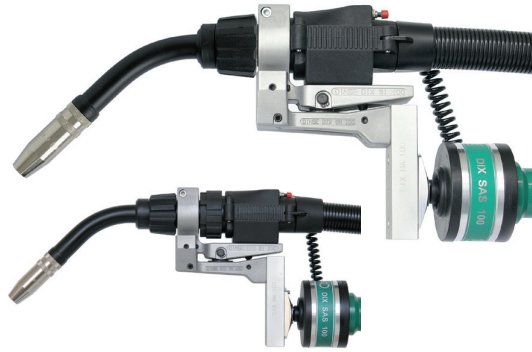
- ▶ For DINSE torch systems
gas cooled
 DIX MET / METT 310
liquid cooled
 DIX METZ / METTZ 600

Technical data

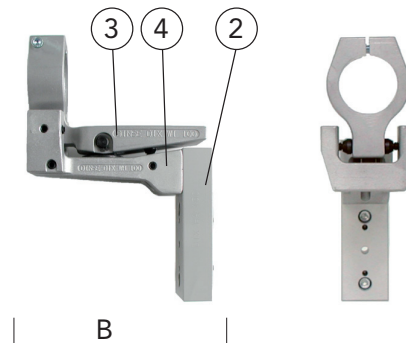
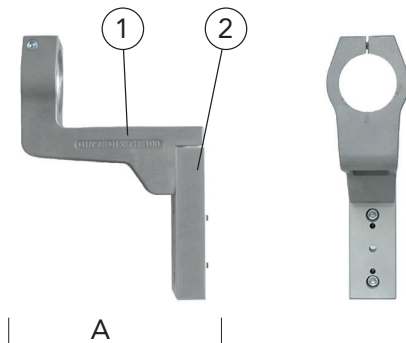
Torch bracket, fixed PHF 100
Torch bracket, adjustable PHW 100
 TCP for torch heads, 45° without offset, with shock sensor
 DIX SAS 100: 400 mm to robotic flange



Torch bracket, fixed PHF 100
 Separable and double separable version, with shock sensor DIX SAS 100 (application sample)



Torch bracket, adjustable PHW 100
 Separable and double separable version, with shock sensor DIX SAS 100 (application sample)



Description	Part name	Part number
A Torch bracket, fixed	DIX PHF 100	683500100
B Torch bracket, adjustable	DIX PHW 100	683501100
Spare parts and wear parts		
1 Bracket	DIX FH 100	683530100
2 Retainer	DIX HA 100 (0°)	683510100
3 Rocker	DIX WI 100	683551100
4 Adjustable bracket	DIX WH 100	683541100

Hint:

Service tools you will find in chapter tools and accessories.

Torch bracket, fixed PHF 110

For robotic and automatic applications TIG



Properties

- All common TCP's (different lengths and angles) with adapter flanges and further retainers attainable
- Torch brackets made of aluminium cast alloy
- High mechanical strength
- High dimension accuracy
- Low weight
- Very good corrosion resistance
- Insulation by insulating sleeve



Application

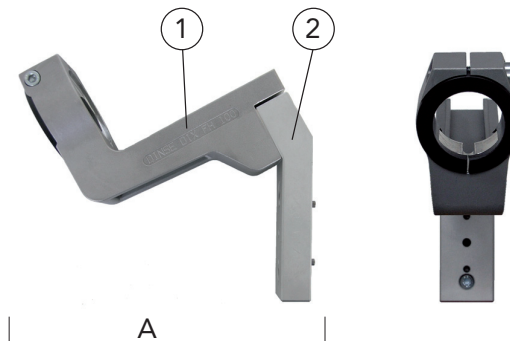
- For DINSE torch systems
liquid cooled
DIX METZ / METTZ 600

Technical data:

Torch bracket, fixed PHF 110

Angle, horizontal: 30°
TCP for torch heads,
with shock sensor
DIX SAS 100:
437 mm to robotic flange
(electrode stand out: 5 mm)

Pistolenhalter, Fest PHF 110
Separable and double separable version,
with shock sensor DIX SAS 100
(application sample)



Description	Part name	Part number
A Torch bracket, fixed	DIX PHF 110	683500104
Spare parts and wear parts		
1 Fixed bracket	DIX FH 110	683530110
2 Retainer	DIX HA 110/011 (30°)	683510018

Hint:

Service tools you will find in chapter tools and accessories.



Torch bracket - system, PHS 600 / PHS 625

For robotic and automatic applications MIG/MAG

MIG/MAG AUTOMATION

Properties

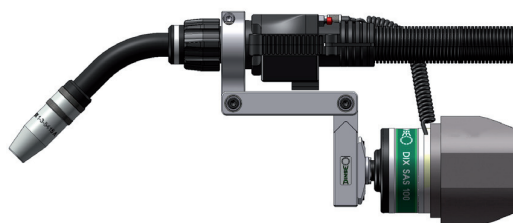
- ▶ All established TCP's (different lengths and angles) reachable by PH-Jointer and other PH-Retainer
- ▶ Bracket parts made of high-strength aluminium
- ▶ High mechanical strength
- ▶ High dimension accuracy
- ▶ Low weight
- ▶ Very good corrosion resistance
- ▶ Self-locking joint screw connection

Advantage

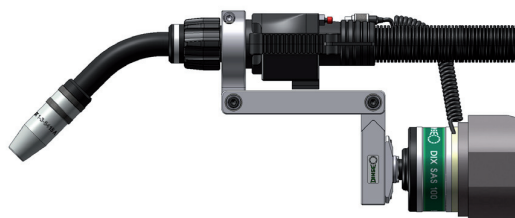
- ▶ High flexibility
- ▶ New clamping technique
- ▶ Mounting without PH-Jointer possible

Application

- ▶ For DINSE torch heads
gas cooled
 DIX MET / METT 310
liquid cooled
 DIX METZ / METTZ 600



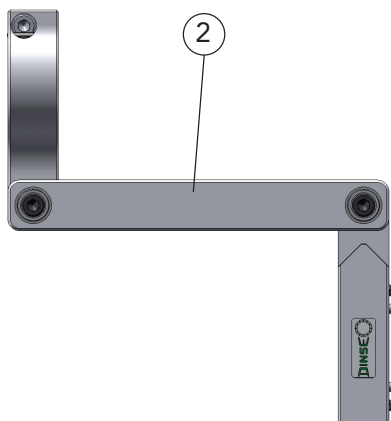
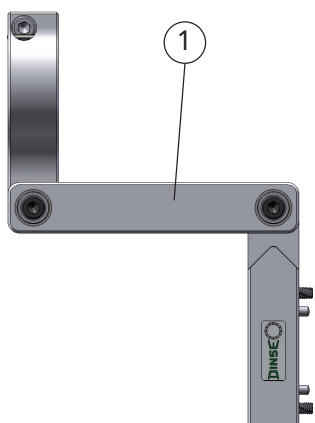
PH-System PH 600
 Separable version,
 with schock sensor DIX SAS 100
 (application sample)



PH-System PHS 625, with PH-Jointer (+ 25 mm)
 Separable version,
 with schock sensor DIX SAS 100
 (application sample)



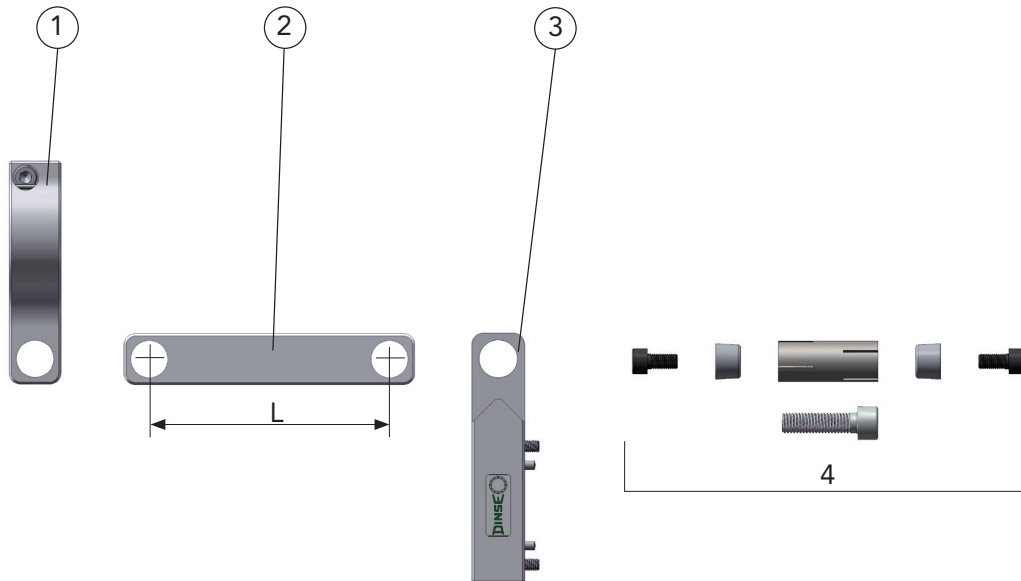
Angle (standard 90°) continuously adjustable



Description	Part name	Part number
1 PH-System	DIX PHS 600	683500600
2 PH-System	DIX PHS 625	683500625

- ▶ Other torch bracket - systems on request.

Torch bracket - system DIX PHS 6xx



Description	Dimensions Inch / Metric	Part name	Part number
1 PH-Torch set		DIX PHG 600	683521001
2 PH-Jointer	L = 4.094" (104 mm)	DIX PHV 600-104	683522001
PH-Jointer (without picture)	L = 5.079" (129 mm)	DIX PHV 600-129	683522002
3 PH-Retainer		DIX PHA 600	683523001
4 Clamp sleeve, complete		DIX SH 600	683524001

► Other PH-Jointer lengths on request.

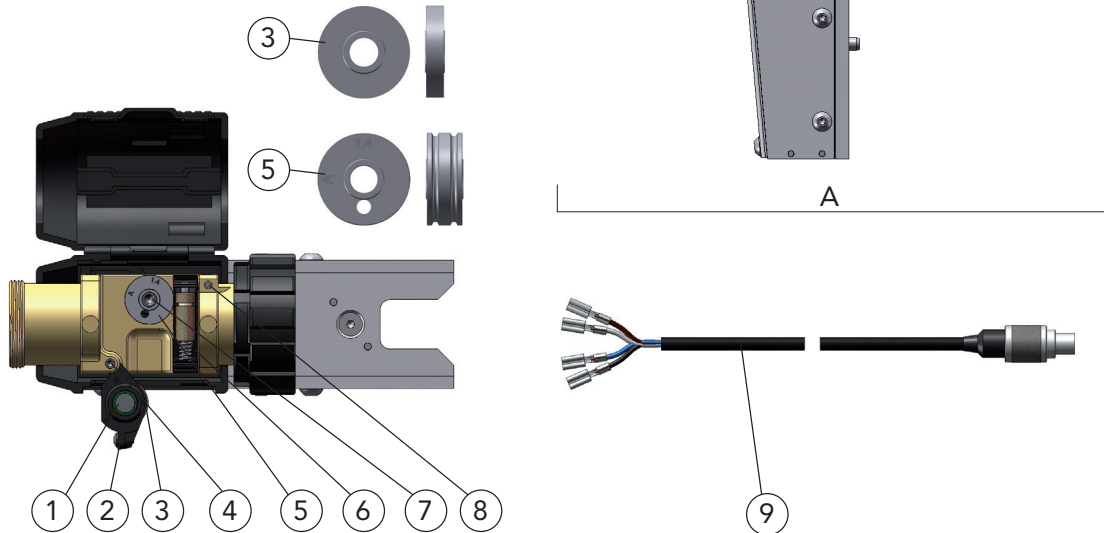


Torch bracket, MEP 200 (E) (T)

For PUSH-PULL and PUSH-PUSH applications

Application

- ▶ For DINSE torch systems
gas cooled
 DIX MEPTT 310
liquid cooled
 DIX MEPTTZ 600
- ▶ Torch bracket with integrated wire feeder
 (Delivery without drive rolls)









	Description	Part name	Part number
A	Torch bracket	DIX MEP 200	631620010
	Torch bracket, Encoder	DIX MEP 200 E	631620014
	Torch bracket, Tacho	DIX MEP 200 T	631620012
Spare parts and wear parts			
1	Pressure system, with pos. 2 and 3	DIX MEP 310	6393116000
2	Pressure housing, without pressure roll	DIX MEP 311	639311001
3	Pressure roll	DIX MEP 312	639311600011
4	Screw axle	DIX MEP 351	639350600037
5	Drive roll, for aluminium alloy	DIX MEP 321-__ A	639321__00
	Drive roll, for steel	DIX MEP 322-__ S	639322__00
6	Stirrup lock	DIX MEP 340	639340001
	Pivot bearing, for stirrup lock, without picture	DIX MEP 341	639340002
7	Flange screw		683216020
8	Threaded pin		6390601400022
9	Control wire	DIX MEP 442	639446004

Enter the required wire diameter only in millimeter, e.g.: 08 stands for 0.8 mm, 12 stands for 1.2 mm, or 16 stands for 1.6 mm
 Standard diameter: .030", .039", .047" and .063" (0.8 mm, 1.0 mm, 1.2 mm and 1.6 mm).
 Other wire diameters on request.

Hint: Service tools you will find in chapter tools and accessories.

MIG/MAG AUTOMATION

Separable and double separable applications

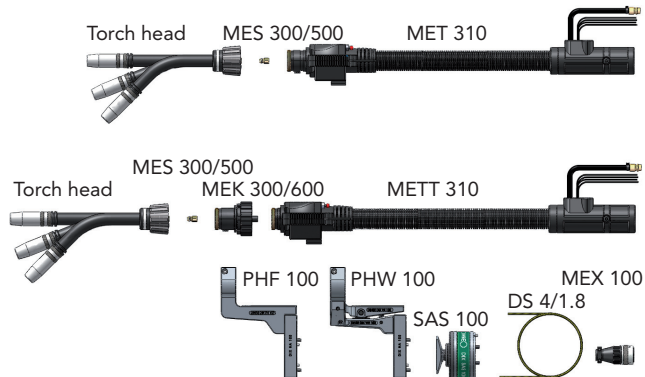
Torch sets		MET / METT 310	50
Torch sets PUSH-PUSH / PUSH-PULL		MEPTT 310	54
Torch sets		METZ / METTZ 600	58
Torch sets PUSH-PUSH / PUSH-PULL		MEPTTZ 600	62
Torch sets with wire brake		METZ 600 WB 1	66
Torch sets with wire brake		METTZ 600 WB 1	67



Separable and double separable application MET(T) 310 For torch sets

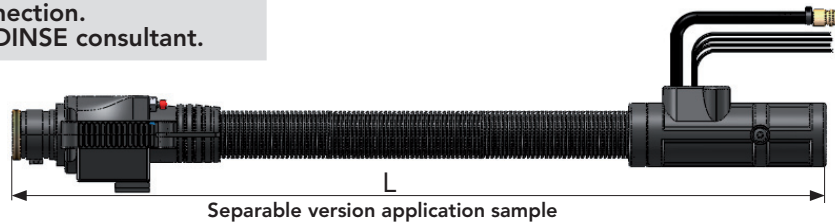
Applications

- ▶ For DINSE torch heads
gas cooled
DIX MET 35x/39x
DIX MET 32xx/37xx/39xx

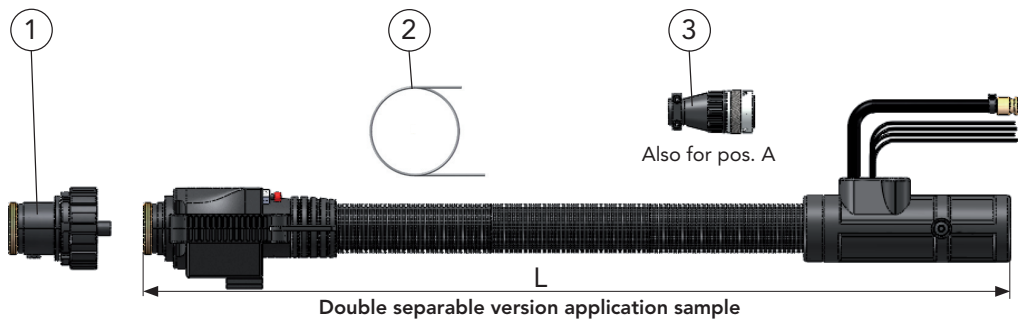


● Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.

A



B



	Description	Dimension Inch / Metric	Part name	Part number
A	Torch set	3' 11" (1.2 m)	DIX MET 310-1.2 N	630132146
	Torch set	4' 7" (1.4 m)	DIX MET 310-1.4 N	630132147
	Torch set	6' 7" (2.0 m)	DIX MET 310-2.0 N	630132148
B	Torch set	3' 11" (1.2 m)	DIX METT 310-1.2 N	630133034
	Torch set	4' 7" (1.4 m)	DIX METT 310-1.4 N	630133035
	Torch set	6' 7" (2.0 m)	DIX METT 310-2.0 N	630133036
1	Torch body		DIX MEK 300/600	631015005
2	Liner	ø .071" (1.8) / __ m	DIX DS 4/1.8-__	6130002__
	-- Standard length:	5' 7", 6' 3" and 8' 2" (1.7 m, 1.9 m and 2.5 m)		
3	Cable plug set For DINSE wire feeders, only assembled		DIX MEX 100	639077001

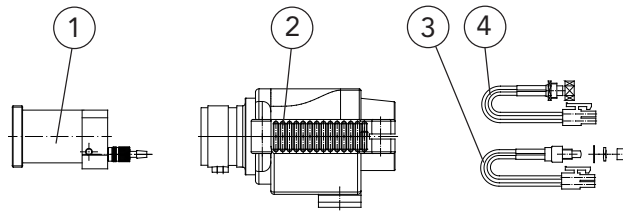
-- Enter the desired length of the liner only in meter, e.g.: 17 stands for 1.7 m, 19 stands for 1.9 m or 25 stands for 2.5 m.

Hint:

Other liners, capillary liners and service tools you will find in chapter tools and accessories. The order designation of the system components you will find in the corresponding chapter.

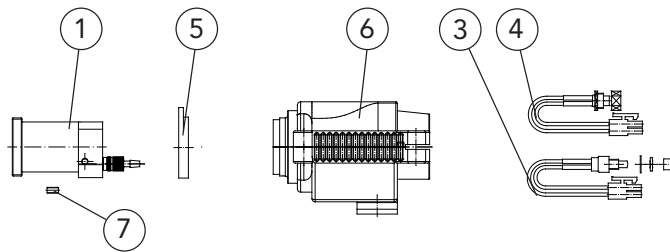
Torch sets MET 310

Connecting set for torch sets



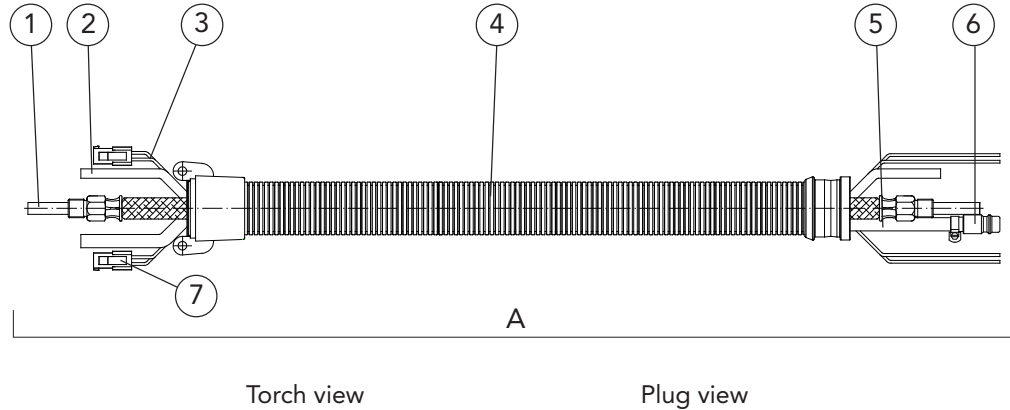
Torch sets METT 310

Connecting set for torch sets



Description	Part name	Part number
1 Torch connection, ME	DIX ME 150	639150003
2 Housing, MET 1	DIX MET 070	639073019
3 Push button - Set, ME For set-up mode	DIX ME 080	639085001
4 Socket set, ME 1, For shock sensor	DIX ME 090	639076001
5 Housing supporting ring, METT	DIX METT 071	639073100012
6 Housing, METT 1	DIX METT 070	639073020
7 Fitting part, METT	DIX METT 072	6391530001

Torch sets MET(T) 310 Supply hose



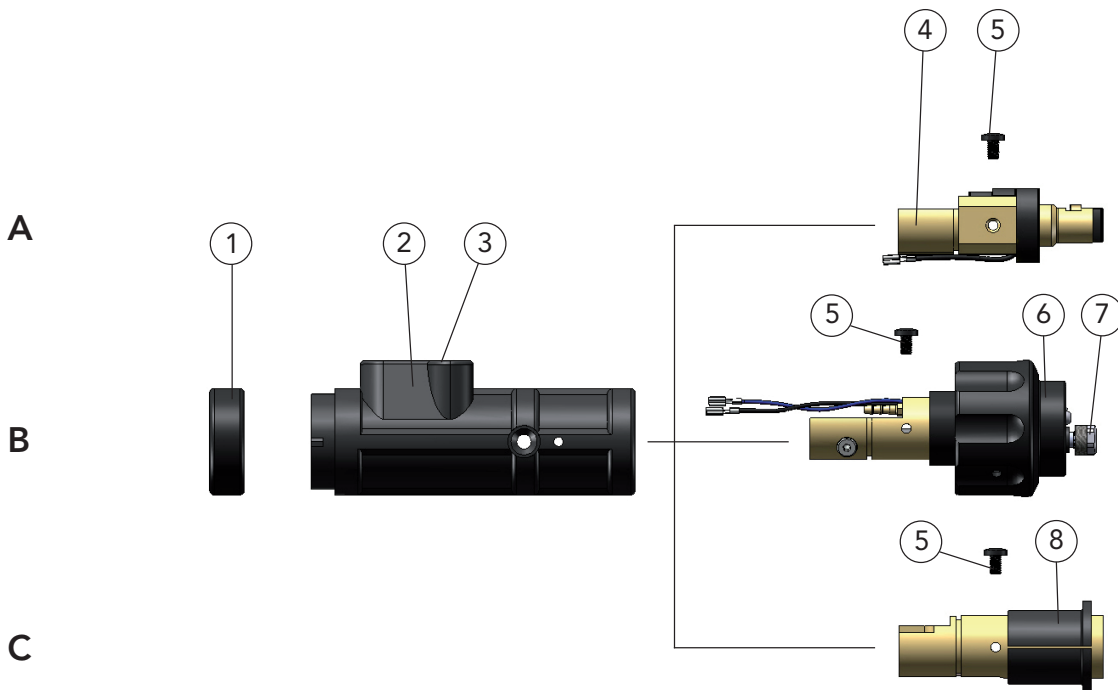
Description	Part name	Part number
A Supply hose	DIX VLE 310-__	632233001-__
1 Binary cable	DIX VL 200-__	639206002-__
2 Gas hose	DIX VL 180-__	639186001-__
3 Control wire set, blue For shock sensor	DIX VL 210-__	639216001-__
4 Cover hose set	DIX VL 230-__	639236001-__
5 Air blast hose	DIX VL 240-__	639246001-__
6 Air blast plug	DIX 16-3-506	6391650600
7 Control wire set, black For set up mode	DIX VL 211-__	639216002-__

-- Enter the desired length of the welding torch sets, only in meter, e.g.: 12 stands for 1.2 m, 14 stands for 1.4 m or 20 stands for 2.0 m.
Standard length: 3' 11", 4' 7" and 6' 7" (1.2 m, 1.4 m and 2.0 m)

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets MET(T) 310

Plug



You need a Power Pin / Power Pin Set for the compact plug DIX KCME 330 N (Pos. C). You will find the Power Pin / Power Pin Set that fits to your wire feeder in the chapter tools and accessories or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCME 300	638900026
B Plug	DIX KCME 300 SA	638900027
C Plug	DIX KCME 300 N	638900044
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG	6391250011
3 Sealing cap	DIX 12-3-510 DK	901515135
4 Plug insert	DIX ME 300 SE	639113004
5 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
6 Plug insert	DIX ME 600 SA	639116070
7 Clamp nut	DIX MEZ 113	639116007
8 Plug insert	DIX MEP 300 N	639116077

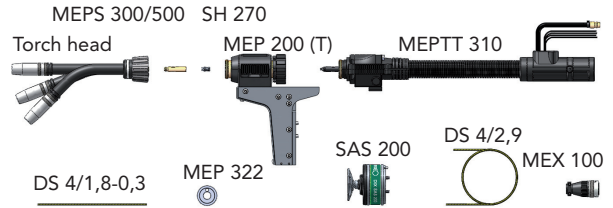


Double separable application MEPTT 310

For PUSH-PULL and PUSH-PUSH torch sets

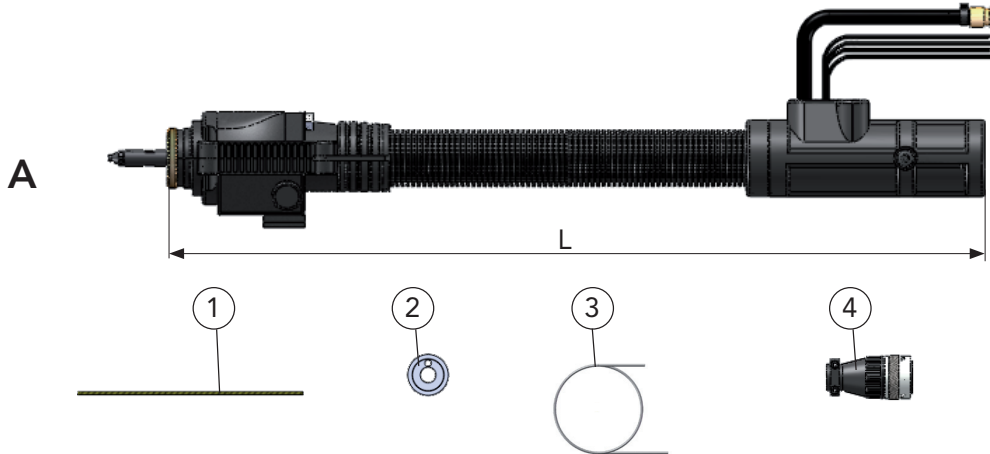
Properties

- ▶ For DINSE torch heads
gas cooled
DIX MET 35x/39x
DIX MET 32xx/37xx/39xx
- ▶ Torch bracket MEP 200
for PUSH-PULL applications
Torch bracket, tacho MEP 200 T
for PUSH-PUSH applications



Double separable version for PUSH-PULL and PUSH-PUSH application sample

● Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.



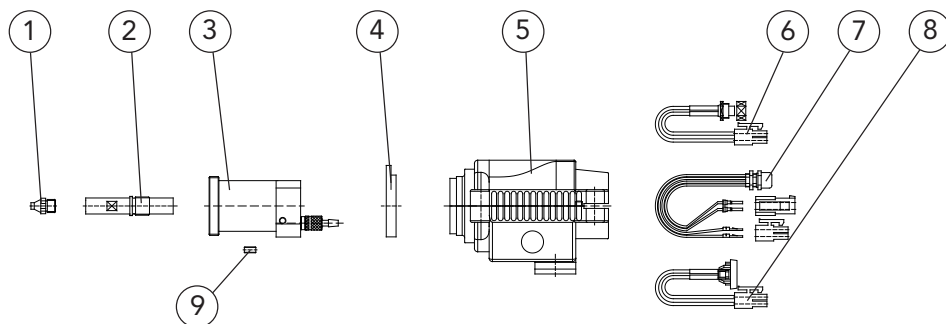
Description	Dimension Inch / Metric	Part name	Part number
A Torch set, for PUSH-PULL	3' 11" 1.2 m	DIX MEPTT 310-1.2 N	630631023
Torch set, for PUSH-PULL	4' 7" 1.4 m	DIX MEPTT 310-1.4 N	630631024
Torch set, for PUSH-PULL	6' 7" 2.0 m	DIX MEPTT 310-2.0 N	630631025
Torch set, for PUSH-PUSH	16' 5" 5.0 m	DIX MEPTT 310-5.0 N	630631026
Torch set, for PUSH-PUSH	23' 7.0 m	DIX MEPTT 310-7.0 N	630631027
1 Liner For the torch head	ø .071" / 1' (ø 1.8 mm / 0.3 m)	DIX DS 4/1,8-0.3	639300001
2 Drive roll for steel	ø .039" (1.0) mm S	DIX MEP 322-1.0 S	6393221000
3 Liner Standard length:	ø .114" (2.9) / __ m 5' 7", 6' 3", 8' 2", 18' and 27' 11" (1.7 m, 1.9 m, 2.5 m, 5.5 m and 7.5 m)	DIX DS 4/2.9-__	6230005__
4 Cable plug set For DINSE wire feeders, only assembled		DIX MEX 100	639077001

-- Enter the desired length of the liner, only in meter, e.g.: 17 stands for 1.7 m, 19 stands for 1.9 m, 25 stands for 2.5 m, 55 stands for 5.5 or 75 stands for 7.5 m.

Hint: Other liners, capillary liners and service tools you will find in chapter tools and accessories. The order designation of the system components you will find in the corresponding chapter.

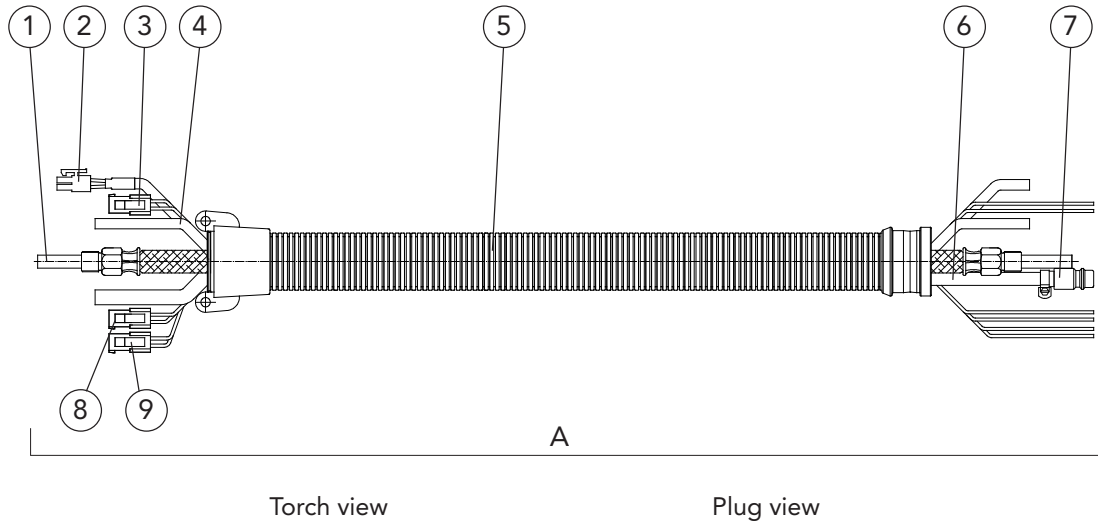
Torch sets MEPTT 310

Connecting set for torch sets



Description	Part name	Part number
1 Intake nozzle	DIX MEP 152	6391536005
2 Connecting piece, MEP	DIX MEP 151	6391536003
3 Drive connection, MEP	DIX MEP 150	639150004
4 Housing supporting ring, METT	DIX METT 071	639073100012
5 Housing, METT 2	DIX METT 073	639073021
6 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
7 Socket set, ME 2 For gear motor and tacho	DIX ME 091	639076002
8 Push button, ME 2 For set up mode	DIX ME 081	639085002
9 Fitting part, METT	DIX METT 072	6391530001

Torch sets MEPTT 310 Supply hose



MIG/MAG AUTOMATION

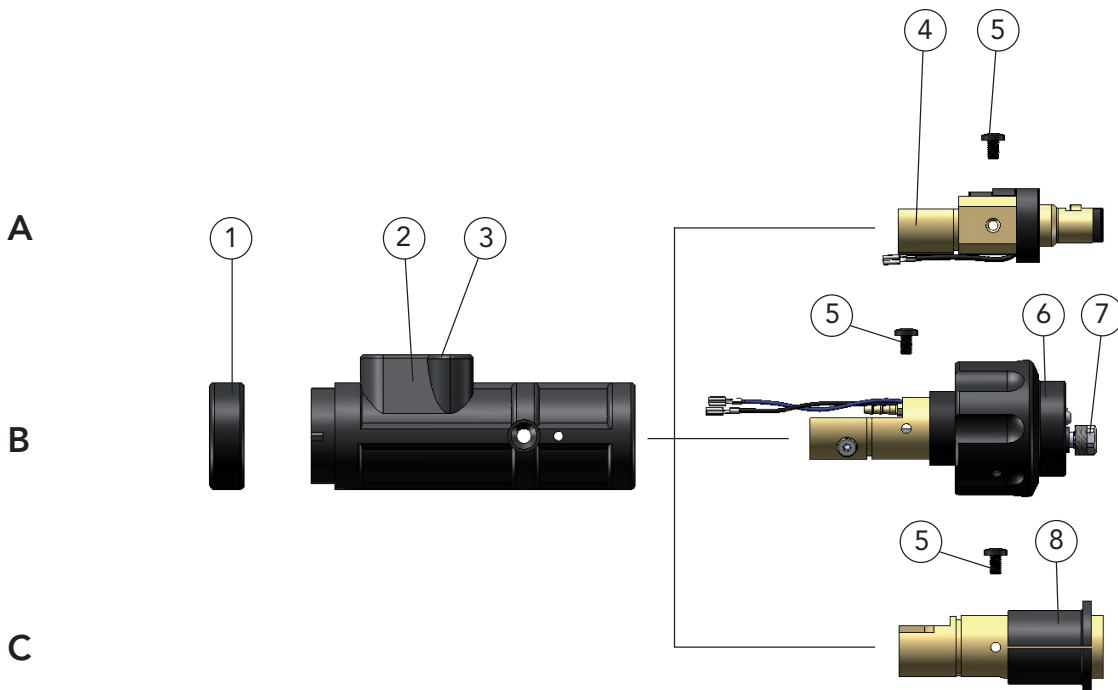
Description	Part name	Part number
A Supply hose	DIX VLEP 310-__	632631001__
1 Binary cable	DIX VL 200-__	639206002__
2 Control wire set, white / brown For tacho	DIX VL 213-__	639216004__
3 Control wire set, blue For shock sensor	DIX VL 210-__	639216001__
4 Gas hose	DIX VL 180-__	639186001__
5 Cover hose set	DIX VL 230-__	639236001__
6 Air blast hose	DIX VL 240-__	639246001__
7 Air blast plug	DIX 16-3-506	6391650600
8 Control wire set, black For set up mode	DIX VL 211-__	639216002__
9 Control wire set, brown / red For gear motor	DIX VL 212-__	639216003__

-- Enter the desired length of the welding torch sets, only in meter, e.g.: 12 stands for 1.2 m, 14 stands for 1.4 m, 20 stands for 2.2, 50 stands for 5.0 or 70 stands for 7.0 m.
Standard length: 3' 11", 4' 7", 6' 7", 16' 5" and 23' (1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m)

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets MEPTT 310

Plug



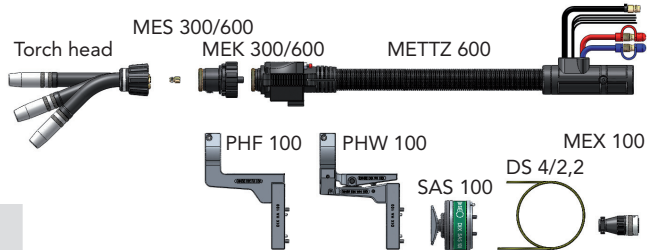
DINSE You need a Power Pin / Power Pin Set for the compact plug DIX KCMEP 300 N (Pos. C). You will find the Power Pin / Power Pin Set that fits to your wire feeder in the chapter tools and accessories or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCMEP 300	638900032
B Plug	DIX KCMEP 300 SA	638900033
C Plug	DIX KCMEP 300 N	638900048
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Sealing cap	DIX 12-3-510 DK	901515135
4 Plug insert	DIX ME 300 SE	639113004
5 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
6 Plug insert	DIX ME 600 SA	639116070
7 Clamp nut	DIX MEZ 113	639116007
8 Plug insert	DIX ME 300 N	639116077

Separable and double separable application MET(T)Z 600 For torch sets

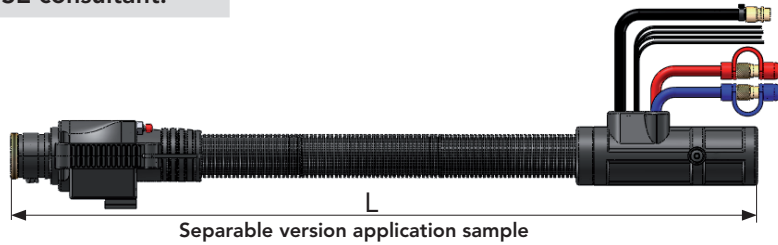
Applications

- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x
DIX METZ 58xx



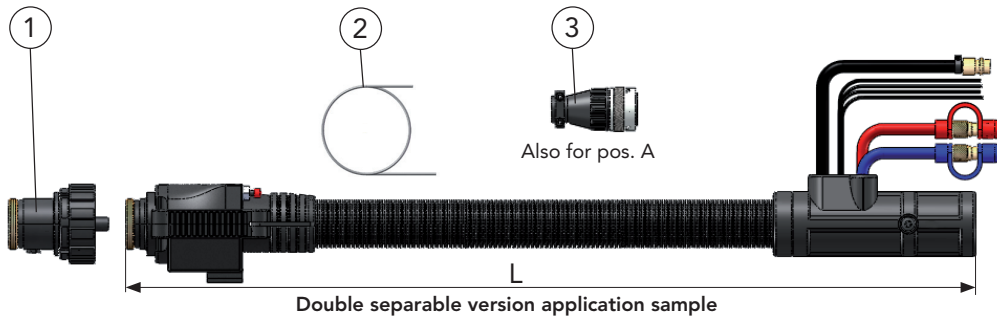
● Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.

A



Separable version application sample

B



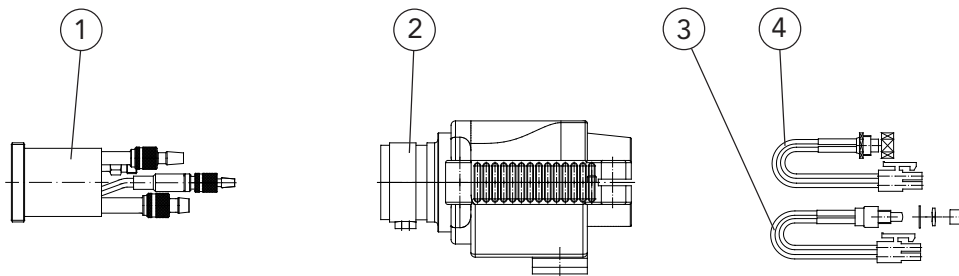
Double separable version application sample

Description	Dimension Inch / Metric	Part name	Part number
A Torch set	3' 11" (1.2 m)	DIX METZ 600-1.2 N	630163368
Torch set	4' 7" (1.4 m)	DIX METZ 600-1.4 N	630163354
Torch set	6' 7" (2.0 m)	DIX METZ 600-2.0 N	630163408
B Torch set	3' 11" (1.2 m)	DIX METTZ 600-1.2 N	630166179
Torch set	4' 7" (1.4 m)	DIX METTZ 600-1.4 N	630166193
Torch set	6' 7" (2.0 m)	DIX METTZ 600-2.0 N	630166186
1 Torch body		DIX MEK 300/600	631015005
2 Liner __ - Standard length:	ø .071" (1.8) / __ m 5' 7", 6' 3" and 8' 2" (1.7 m, 1.9 m, 2.5 m)	DIX DS 4/1.8-__	6130002__
Liner __ - Standard length:	ø .087" (2.2) / __ m 5' 7", 6' 3" and 8' 2" (1.7 m, 1.9 m, 2.5 m)	DIX DS 4/2.2-__	6230003__
3 Cable plug set For DINSE wire feeders, only assembeld		DIX MEX 100	639077001

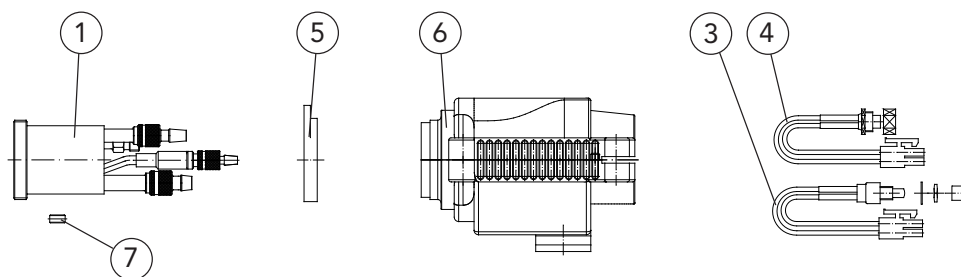
-- Enter the desired length of the liner, only in meter, e.g.: 17 stands for 1.7 m, 19 stands for 1.9 m or 25 stands for 2.5 m.

Hint: Other liners, capillary liners and service tools you will find in chapter tools and accessories. The order designation of the system components you will find in the corresponding chapter.

Torch sets METZ 600 Connecting set for torch sets



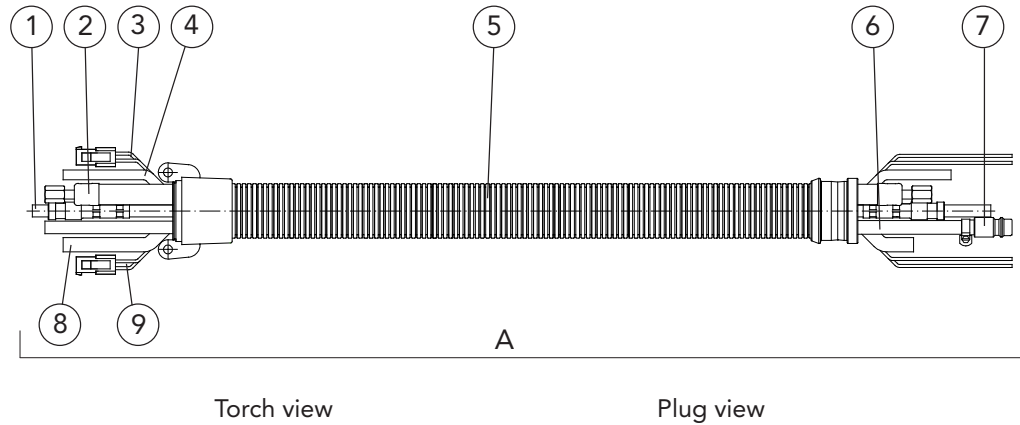
Torch sets METTZ 600 Connecting set for torch sets



Description	Part name	Part number
1 Torch connection, MEZ	DIX MEZ 150	6391530003
2 Housing, MET 1	DIX MET 070	639073019
3 Push button set, ME 1 For set up mode, according to equipment	DIX ME 080	639085001
4 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
5 Housing supporting ring, METT	DIX METT 071	639073100012
6 Housing, METT 1	DIX METT 070	639073020
7 Fitting part, METT	DIX METT 072	6391530001

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets MET(T)Z 600
Supply hose

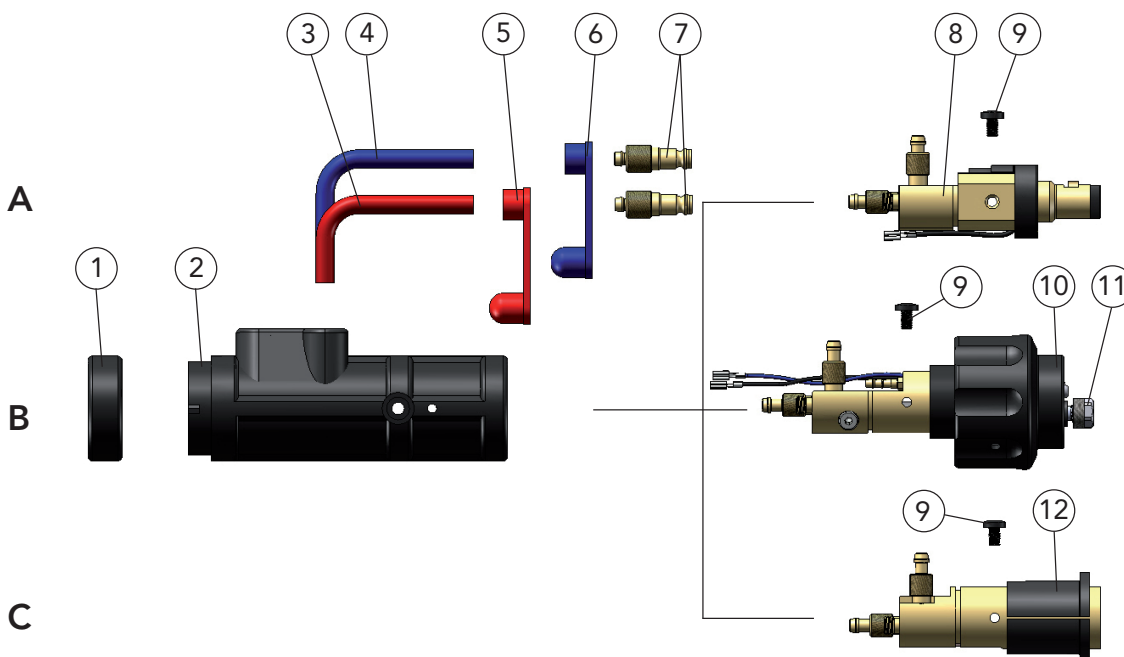


Description	Part name	Part number
A Supply hose	DIX VLEZ 600-__	632006001-__
1 Conduit hose	DIX VL 201-__	639206003-__
2 Combi cable	DIX VL 220-__	639226001-__
3 Control wire set, blue For shock sensor	DIX VL 210-__	639216001-__
4 Gas hose	DIX VL 180-__	639186001-__
5 Cover hose set	DIX VL 230-__	639236001-__
6 Air blast hose	DIX VL 240-__	639246001-__
7 Air blast plug	DIX 16-3-506	6391650600
8 Water hose	DIX VL 190-__	639196001-__
9 Control wire set, black For set up mode	DIX VL 211-__	639216002-__

-- Enter the desired length of the welding torch set, only in meter, e.g.: 12 stands for 1.2 m, 14 stands for 1.4 m or 20 stands for 2.0 m.
Standard length: 3' 11", 4' 7" and 6' 7" (1.2 m, 1.4 m and 2.0 m)

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets MET(T)Z 600 Plug



DINSE You need a Power Pin / Power Pin Set for the compact plug DIX KCZME 600 N (Pos. C). You will find the Power Pin / Power Pin Set that fits to your wire feeder in the chapter tools and accessories or you ask your DINSE consultant.

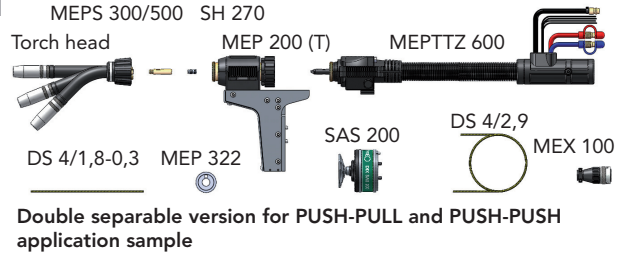
	Description	Part name	Part number
A	Plug	DIX KCZME 600	638900024
B	Plug	DIX KCZME 600 SAZ	638900025
C	Plug	DIX KCZME 600 N	638900045
1	Fixing ring	DIX 12-3-510 HR	6391250013
2	Plug housing	DIX 12-3-510 SG	6391250011
3	Connection hose, red	DIX VL 171 ROT	629171004
4	Connection hose, blue	DIX VL 170 BLAU	629171003
5	Cap, red	DIX VL 173	629172002
6	Cap, blue	DIX VL 172	629172001
7	Water plug	DIX 16-2	629160000
8	Plug insert	DIX ME 300 SEZ	639116064
9	Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10	Plug insert	DIX ME 600 SAZ	639116068
11	Clamp nut	DIX MEZ 113	639116007
12	Plug insert	DIX ME 600 N	639116076

Double separable application MEPTTZ 600

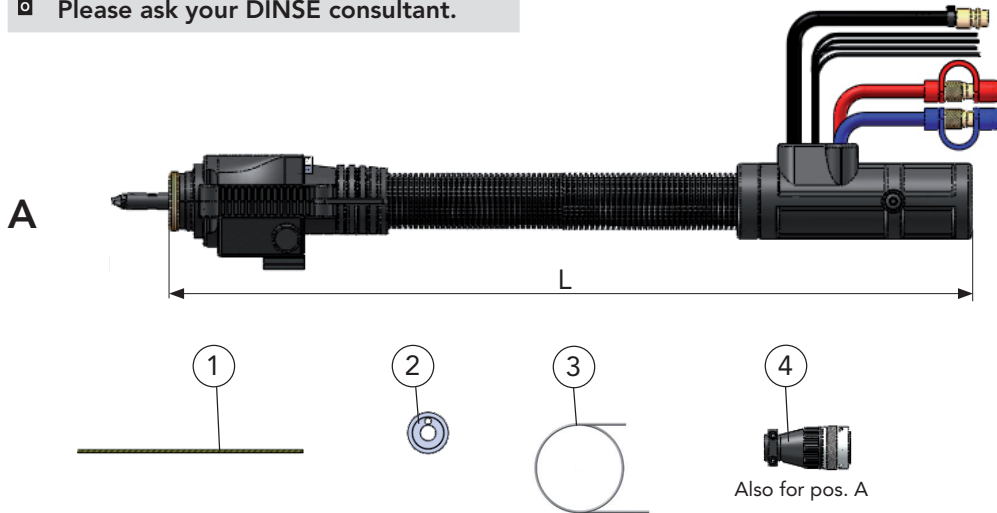
For PUSH-PULL and PUSH-PUSH torch sets

Applications

- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x
DIX METZ 58xx
- ▶ Torch bracket MEP 200 for PUSH-PULL applications
Torch bracket, tacho MEP 200 T for PUSH-PUSH applications



● Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.



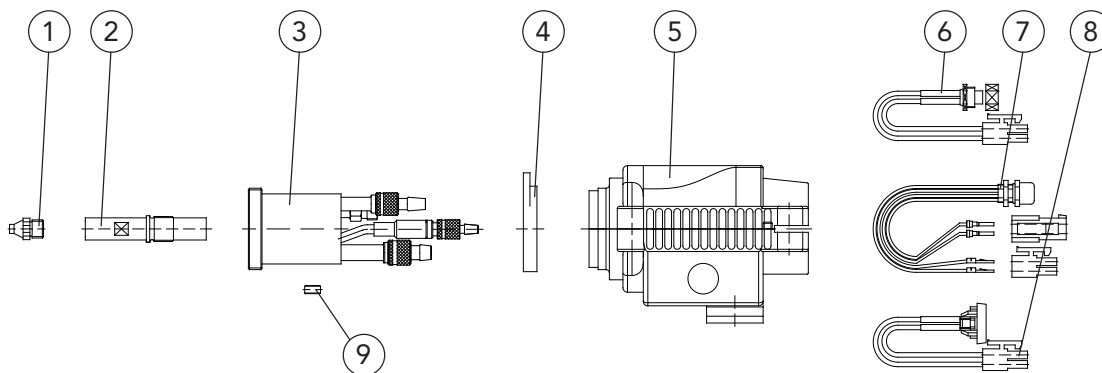
	Description	Dimension Inch / Metric	Part name	Part number
A	Torch set, for PUSH-PULL	3' 11" (1.2 m)	DIX MEPTTZ 600-1.2 N	630664228
	Torch set, for PUSH-PULL	4' 7" (1.4 m)	DIX MEPTTZ 600-1.4 N	630664231
	Torch set, for PUSH-PULL	6' 7" (2.0 m)	DIX MEPTTZ 600-2.0 N	630664232
	Torch set, for PUSH-PUSH	16' 5" (5.0 m)	DIX MEPTTZ 600-5.0 N	630664233
	Torch set, for PUSH-PUSH	23' (7.0 m)	DIX MEPTTZ 600-7.0 N	630664234
1	Liner For torch heads	ø .071" / 1' (ø 1.8 mm / 0.3 m)	DIX DS 4/1.8-0.3	639300001
2	Drive roll for steel	ø .039" (1.0 mm) S	DIX MEP 322-1.0 S	6393221000
3	Liner Standard length:	ø .114" (2.9) / _ _ m 5' 7", 6' 3", 8' 2", 18' and 27' 11" (1.7 m, 1.9 m, 2.5 m, 5.5 m and 7.5 m)	DIX DS 4/2.9- _ _	6230005_ _
4	Cable plug set For DINSE wire feeders, only assembled		DIX MEX 100	639077001

Hint: Other liners, capillary liners and service tools you will find in chapter tools and accessories. The order designation of the system components you will find in the corresponding chapter.

All order dimensions abiding in „mm“ respectively in „m“.

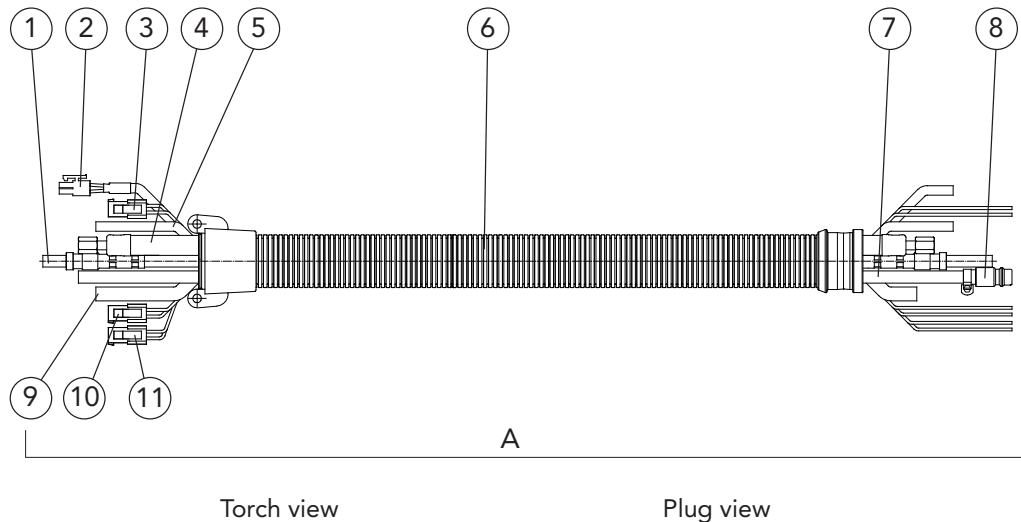
Torch sets MEPTTZ 600

Connecting set for torch sets



Description	Part name	Part number
1 Intake nozzle	DIX MEP 152	6391536005
2 Connecting piece, MEP	DIX MEP 151	6391536003
3 Drive connection, MEPZ	DIX MEPZ 150	6391536001
4 Housing supporting ring, METT	DIX METT 071	639073100012
5 Housing, METT 2	DIX METT 073	639073021
6 Socket set, ME 1 For shock sensor	DIX ME 090	639076001
7 Socket set, ME 2 For gear motor and tacho	DIX ME 091	639076002
8 Push button set, ME 2 For set up mode	DIX ME 081	639085002
9 Fitting part, METT	DIX METT 072	6391530001

Torch sets MEPTTZ 600 Supply hose



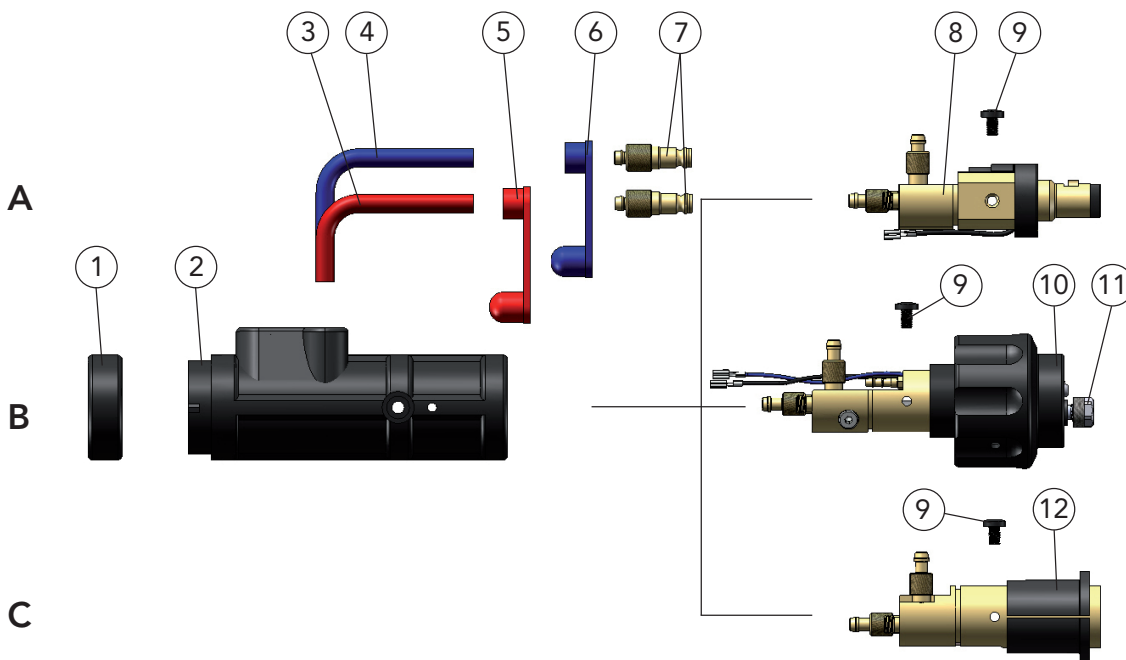
Description	Part name	Part number
A Supply hose	DIX VLEPZ 600-__	632663001__
1 Conduit hose	DIX VL 201-__	639206003__
2 Control wire set, white / brown For tacho	DIX VL 213-__	639216004__
3 Control wire set, blue For shock sensor	DIX VL 210-__	639216001__
4 Combi cable	DIX VL 220-__	639226001__
5 Gas hose	DIX VL 180-__	639186001__
6 Cover hose set	DIX VL 230-__	639236001__
7 Air blast hose	DIX VL 240-__	639246001__
8 Air blast plug	DIX 16-3-506	6391650600
9 Water hose	DIX VL 190-__	639196001__
10 Control wire set, black For set up mode	DIX VL 211-__	639216002__
11 Control wire set, brown / red For gear motor	DIX VL 212-__	639216003__

-- Enter the desired length of the welding torch sets, only in meter, e.g.: 12 stands for 1.2 m, 14 stands for 1.4 m, 20 stands for 2.2, 50 stands for 5.0 or 70 stands for 7.0 m.
Standard length: 3' 11", 4' 7", 6' 7", 16' 5" and 23' (1.2 m, 1.4 m, 2.0 m, 5.0 m and 7.0 m)

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets MEPTTZ 600

Plug



You need a Power Pin / Power Pin Set for the compact plug DIX KCZMEP 600 N (Pos. C). You will find the Power Pin / Power Pin Set that fits to your wire feeder in the chapter tools and accessories or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCZMEP 600	638900028
B Plug	DIX KCZMEP 600 SAZ	638900029
C Plug	DIX KCZMEP 600 N	638900047
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG-EC	6391250015
3 Connection hose, red	DIX VL 171 ROT	629171004
4 Connection hose, blue	DIX VL 170 BLAU	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Plug insert	DIX ME 300 SEZ	639116064
9 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10 Plug insert	DIX ME 600 SAZ	639116068
11 Clamp nut	DIX MEZ 113	639116007
12 Plug insert	DIX ME 600 N	639116076

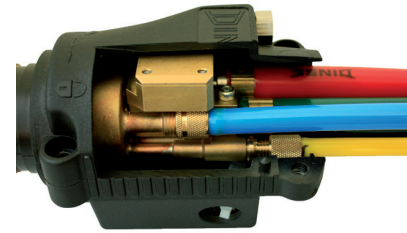
Wire brake system METZ 600 WB 1

For torch sets separable application

Properties

- ▶ Precise control of welding wire feed
- ▶ With free programmable braking cycles, the wire brake fixes the position of the wire
- ▶ Exactly calculation of the welding seam position
- ▶ Constant stickout
- ▶ For commonly used wires
- ▶ Precise measuring results
- ▶ Optimum TCP reliability
- ▶ Versatile applications
- ▶ The wire brake is perfect for all applications with tactile sensor
- ▶ Torch heads depending on the welding application

● Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.



Wire brake system application sample

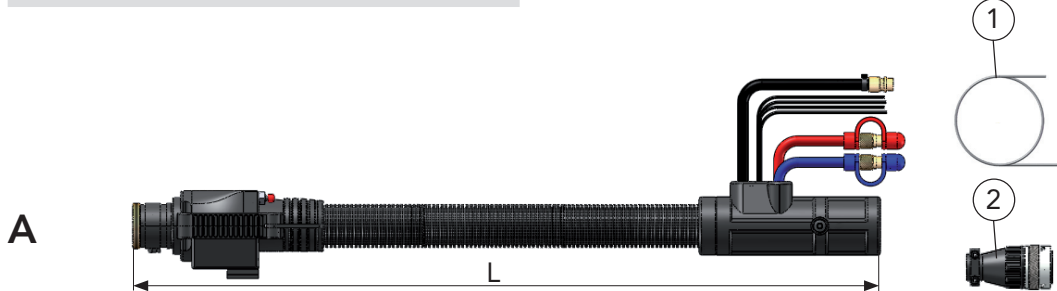


MIG/MAG - Torch system with wire brake system application sample

Technical data:

Dual - circuit liquid cooled

Wire-ø for WB 1: .030" - .063"
(0.8 - 1.6 mm)



Description	Dimension Inch / Metric	Part name	Part number
A Torch set, with wire brake WB1	3' 11" (1.2 m)	DIX METZ 600-1.2 N /WB1	630163409
Torch set, with wire brake WB1	4' 7" (1.4 m)	DIX METZ 600-1.4 N /WB1	630163410
Torch set, with wire brake WB1	6' 7" (2.0 m)	DIX METZ 600-2.0 N /WB1	630163370

1 Hint:

Liners you will find in chapter tools and accessories.

2 Cable plug set

For DINSE wire feeders, only assembled

DIX MEX 100

639077001

Hint: Capillary liners and service tools you will find in chapter tools and accessories.

All order dimensions abiding in „mm“ respectively in „m“.

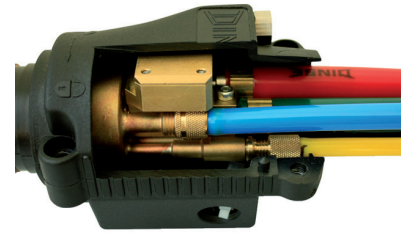
Wire brake system METTZ 600 WB 1

For torch sets double separable application



Properties

- Precise control of welding wire feed
- With free programmable braking cycles, the wire brake fixes the position of the wire
- Exactly calculation of the welding seam position
- Constant stickout
- For commonly used wires
- Precise measuring results
- Optimum TCP reliability
- Versatile applications
- The wire brake is perfect for all applications with tactile sensor
- Torch heads depending on the welding application



Wire brake system application sample



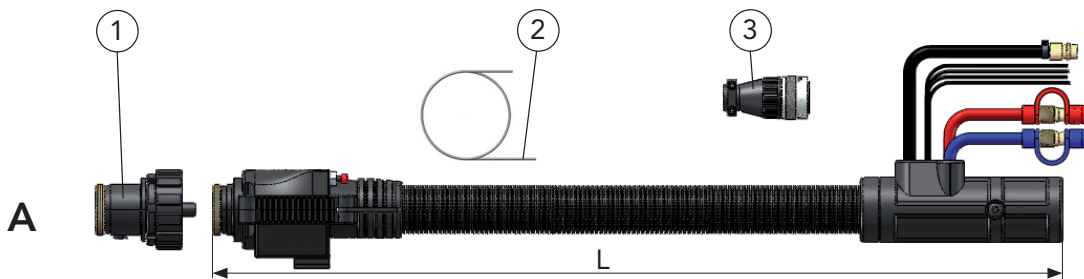
MIG/MAG - Torch system with wire brake system application sample

DINSE Also available with DINSE connection or with SAZ connection. Please ask your DINSE consultant.

Technical data:

Dual - circuit liquid cooled

Wire- \varnothing for WB 1: .030" - .063"
(0.8 - 1.6 mm)

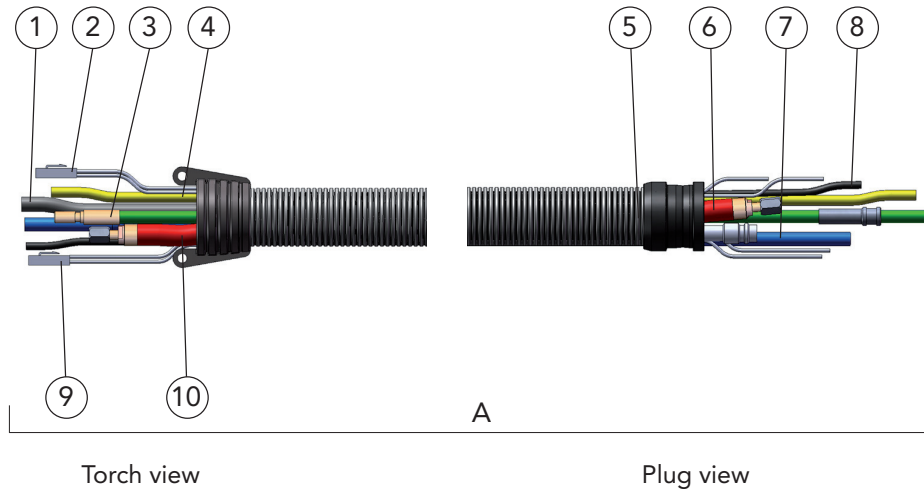


	Description	Dimension Inch / Metric	Part name	Part number
A	Torch set, with wire brake WB1	3' 11" (1.2 m)	DIX METTZ 600-1.2 N /WB1	630166194
	Torch set, with wire brake WB1	4' 7" (1.4 m)	DIX METTZ 600-1.4 N /WB1	630166195
	Torch set, with wire brake WB1	6' 7" (2.0 m)	DIX METTZ 600-2.0 N /WB1	630166196
1	Torch body		DIX MEK 300/600	631015005
2	Hint: Liners you will find in chapter tools and accessories.			
3	Cable plug set For DINSE wire feeders, only assembled		DIX MEX 100	639077001

Hint: Capillary liners and service tools you will find in chapter tools and accessories.

MIG/MAG AUTOMATION

Torch set with wire brake system MET(T)Z 600 WB 1 Supply hose

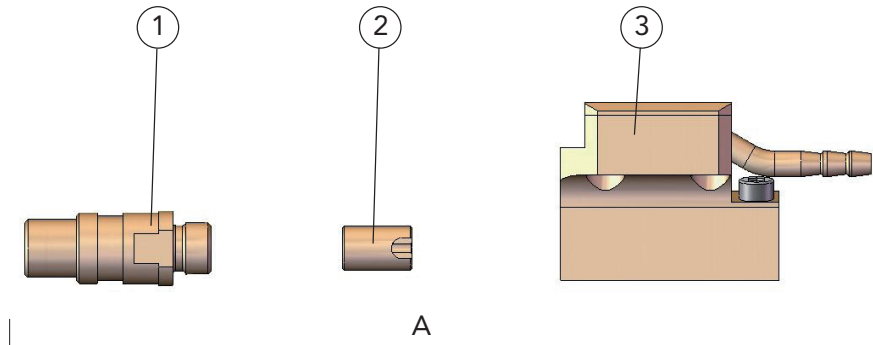


Description	Part name	Part number
A Supply hose	DIX VLEZ 600-__ WB 1	632006003__
1 Air blast hose	DIX VL 240-__	639246001__
2 Control wire set, blue For shock sensor	DIX VL 210-__	639216001__
3 Conduit hose	DIX VL 201-__ WB 1	639206011__
4 Gas hose	DIX VL 180-__	639186001__
5 Cover hose set	DIX VL 230-__	639236001__
6 Air blast plug	DIX 16-3-506	6391650600
7 Water hose	DIX VL 190-__	639196001__
8 Checking gas hose For wire brake	DIX VL 242-__	639247001__
9 Control wire set, black For set up mode	DIX VL 211-__	639216002__
10 Combi cable	DIX VL 220-__	639226001__

-- Enter the desired length of the welding torch set, only in meter, e.g.: 12 stands for 1.2 m, 14 stands for 1.4 m or 20 stands for 2.0 m.
Standard length: 3' 11", 4' 7" and 6' 7" (1.2 m 1.4 m and 2.0 m)

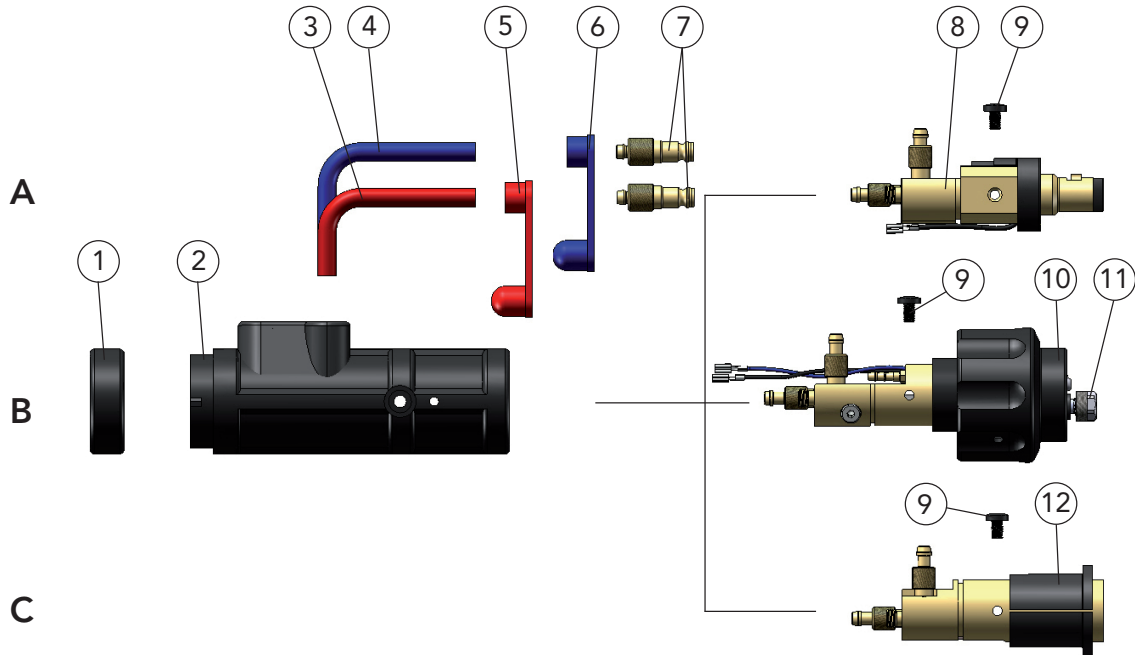
All order dimensions abiding in „mm“ respectively in „m“.

Wire brake WB1



	Description Inch / Metric	Part name	Part number
A	Wire brake system For wire- \varnothing .030" - .063" (0.8-1.6 mm)	DIX WB 1	629470100
1	Adapter	DIX DBA 100	62947010016
2	Guide sleeve	DIX DBF 100	62947010024
3	Wire brake unit	DIX DBE 100	62947010010

Torch sets MET(T)Z 600 WB 1(2) Plug





● You need a Power Pin / Power Pin Set for the compact plug DIX DIX KCZME 600 N (Pos. C). You will find the Power Pin / Power Pin Set that fits to your wire feeder in the chapter tools and accessories or you ask your DINSE consultant.

Description	Part name	Part number
A Plug	DIX KCZME 600	638900024
B Plug	DIX KCZME 600 SAZ	638900025
C Plug	DIX KCZME 600 N	638900045
1 Fixing ring	DIX 12-3-510 HR	6391250013
2 Plug housing	DIX 12-3-510 SG	6391250011
3 Connection hose, red	DIX VL 171 ROT	629171004
4 Connection hose, blue	DIX VL 170 BLAU	629171003
5 Cap, red	DIX VL 173	629172002
6 Cap, blue	DIX VL 172	629172001
7 Water plug	DIX 16-2	629160000
8 Plug insert	DIX ME 300 SEZ	639116064
9 Holding screw (10 pcs.)	DIX ME 300 HS	629070005
10 Plug insert	DIX ME 600 SAZ	639116068
11 Clamp nut	DIX MEZ 113	639116007
12 Plug insert	DIX ME 600 N	639116076

MIG/MAG AUTOMATION



Rotary interface system application MIG/MAG For ECO.torch

Rotary interface		RET 341 F(S)	72
Rotary interface with wire brake		RET 341 F(S) WB 1	73

For REVO.torch

Rotary interface		RET 300 (L)	74
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For ECO.torch

Rotary interface		RETZ 641 F(S)	76
Rotary interface with wire brake		RETZ 641 F(S) WB 1	77

For REVO.torch

Rotary interface		RETZ 600 (L)	78
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For ECO.torch and REVO.torch

Protection modul		REMO 100/101/103	79
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Rorary interface RET 341 F(S) ECO.torch system application

Properties

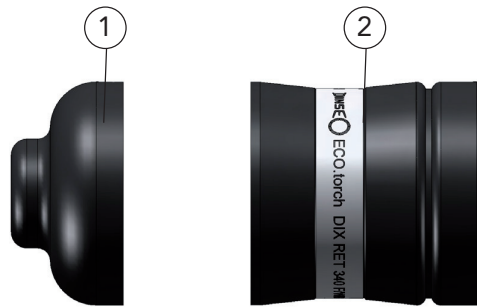
- ▶ For common hollow shaft robots
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth axis



Application

- ▶ For DINSE torch sets
gas cooled
DIX RET 320-__
- ▶ Compatibel with DINSE torch heads
gas cooled
DIX MET 35x, 39x, 32xx, 37xx, 39xx

Hint:
Information to the appropriate adapter flanges ADFRD you will find in chapter TOOLS and ACCESSORIES.



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection	DIX RET 341 F	687242001
	Rotary interface Rigid version, without deflection	DIX RET 341 S	687232001
Spare parts and wear parts			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RET 078 F	687212004
	Housing, complete	DIX RET 078 S	687212005

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Rotary interface RET 341 F(S) WB 1

ECO.torch with wire brake system

System application



Properties

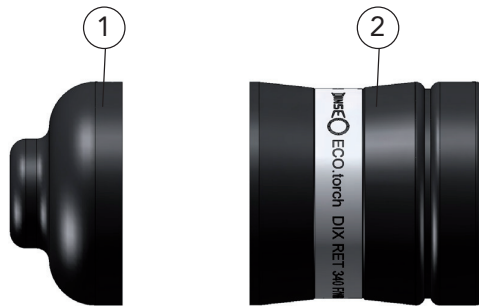
- For common hollow shaft robots
- Rotary interface with integrated wire brake system
- Flexible version (F) with maximum 15° deflection
- Rigid version (S) without deflection
- **Attention!**
Mounting with adapter flange ADFRD only
- With rotation of +/-260° at the sixth axis



Hint:
Information to the appropriate adapter flanges ADFRD you will find in chapter TOOLS and ACCESSORIES.

Application

- For DINSE torch sets
gas cooled
DIX RET 320-_/ WB 1
- Compatibel with DINSE torch heads
gas cooled
DIX MET 35x, 39x, 32xx, 37xx, 39xx



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection For wire diameter .030" - .063" (0.8-1.6 mm)	DIX RET 341 F/WB 1	687241000
	Rotary interface Rigid version, without deflection For wire diameter .030" - .063" (0.8-1.6 mm)	DIX RET 341 S/WB 1	687231100
Spare parts and wear parts			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RET 078 F/WB 1	687221002
	Housing, complete	DIX RET 078 S/WB 1	687221003

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

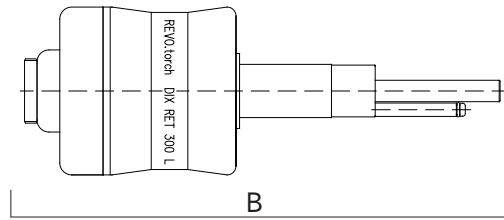
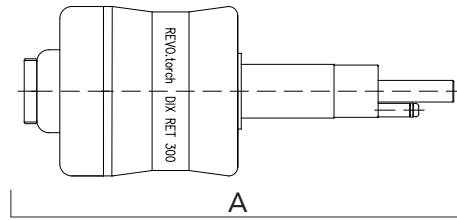
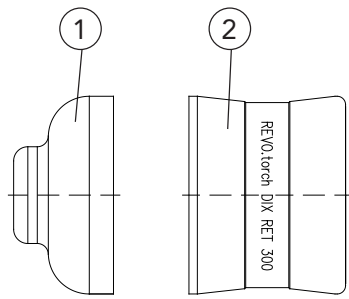
Rotary interface RET 300 (L) REVO.torch system application

Properties

- ▶ For common hollow shaft robots
- ▶ Unlimited rotation at the sixth axis

Application

- ▶ For DINSE torch sets
gas cooled
DIX RET 310-__ (A)
- ▶ Compatibel with DINSE torch heads
gas cooled
DIX MET 35x, 39x, 32xx, 37xx, 39xx



Hint:
Information to the appropriate docking sets you will find in chapter TOOLS and ACCESSORIES.

Description	Part name	Part number
A Rotary interface	DIX RET 300	687001001
Robot type		
ABB:	IRB 1600 ID	Motoman: EA 1400N, MA 1400
Fanuc:	ARC MATE 100iC	SSA 2000
	ARC MATE 100iC/6L	EA 1900N, MA 1900
	ARC MATE 120iC	Kuka: KR 5 arc HW
	ARC MATE 120iC/10L	Reis: RV 20-6 HW
B Rotary interface	DIX RET 300 L	687001030
Robot type		
Motoman:	EA 1800N	MA 1800

Spare parts and wear parts		
1 Dust boot	DIX RET 072	687001002
2 Housing, complete	DIX RET 073	687001003
Housing, complete	DIX RET 073 L	687001049
O-Ring, for connection nipple, without picture		629061018

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Rotary interface RETZ 641 F(S) ECO.torch system application

Properties

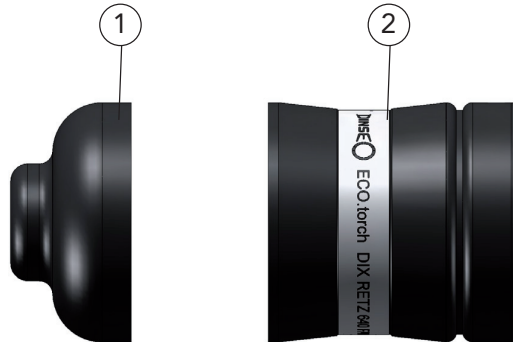
- ▶ For common hollow shaft robots
- ▶ Flexible version (F) with maximum 15° deflection
- ▶ Rigid version (S) without deflection
- ▶ **Attention!**
Mounting with adapter flange ADFRD only
- ▶ With rotation of +/-260° at the sixth axis



Application

- ▶ For DINSE torch sets
liquid cooled
DIX RETZ 620-_-_-
- ▶ Compatibel with DINSE torch heads
liquid cooled
DIX METZ 52x, 54x, 56x, 57x, 59x, 58xx

Hint:
Information to the appropriate adapter flanges ADFRD you will find in chapter TOOLS and ACCESSORIES.



	Description	Part name	Part number
A	Rotary interface Flexible version, maximum 15° deflection	DIX RETZ 641 F	687342001
	Rotary interface Rigid version, without deflection	DIX RETZ 641 S	687332001
Spare parts and wear parts			
1	Dust boot	DIX RET 072	687001002
2	Housing, complete	DIX RETZ 079 F	687312004
	Housing, complete	DIX RETZ 079 S	687312005

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Rotary interface RETZ 641 F(S) WB 1

ECO.torch with wire brake system

System application



Properties

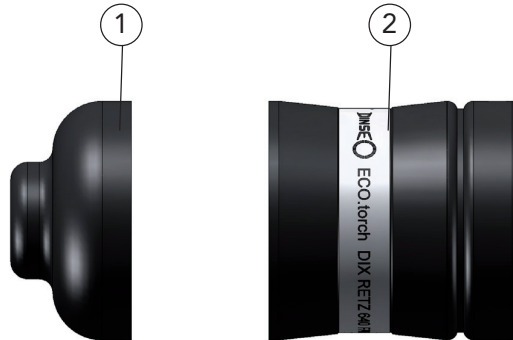
- For common hollow shaft robots
- Rotary interface with integrated wire brake system
- Flexible version (F) with maximum 15° deflection
- Rigid version (S) without deflection
- **Attention!**
Mounting with adapter flange ADFRD only
- With rotation of +/-260° at the sixth axis



Hint:
Information to the appropriate adapter flanges ADFRD you will find in chapter TOOLS and ACCESSORIES.

Application

- For DINSE torch sets
liquid cooled
DIX RETZ 620-__/_/ WB 1
- Compatibel with DINSE torch heads
liquid cooled
DIX METZ 52x, 54x, 56x, 57x, 59x, 58xx



Description	Part name	Part number
A Rotary interface Flexible version, maximum 15° deflection For wire diameter .030" - .063" (0.8-1.6 mm)	DIX RETZ 641 F/WB 1	687341001
Rotary interface Rigid version, without deflection For wire diameter .030" - .063" (0.8-1.6 mm)	DIX RETZ 641 S/WB 1	687331100
Spare parts and wear parts		
1 Dust boot	DIX RET 072	687001002
2 Housing, complete	DIX RETZ 079 F/WB 1	687321103
Housing, complete	DIX RETZ 079 S/WB 1	687321102

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

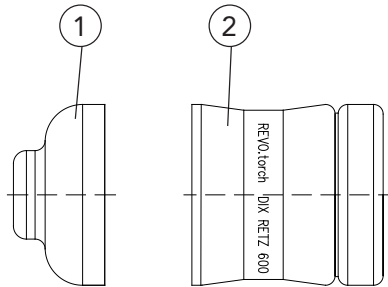
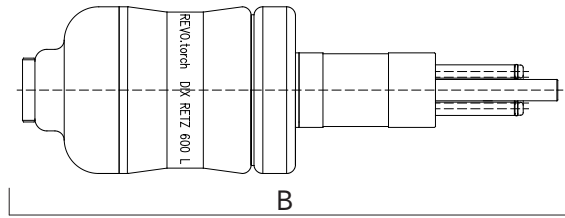
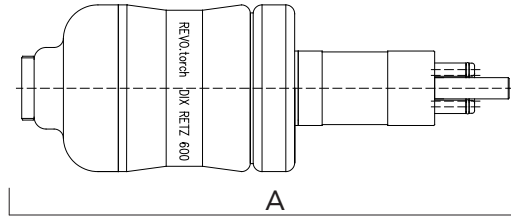
Rotary interface RETZ 600 (L) REVO.torch system application

Properties

- ▶ For common hollow shaft robots
- ▶ Unlimited rotation at the sixth axis

Application

- ▶ For DINSE torch sets
liquid cooled
DIX RETZ 610-__ (A)
- ▶ Compatibel with DINSE torch heads
liquid cooled
DIX METZ 52x, 54x, 56x, 57x, 59x, 58xx



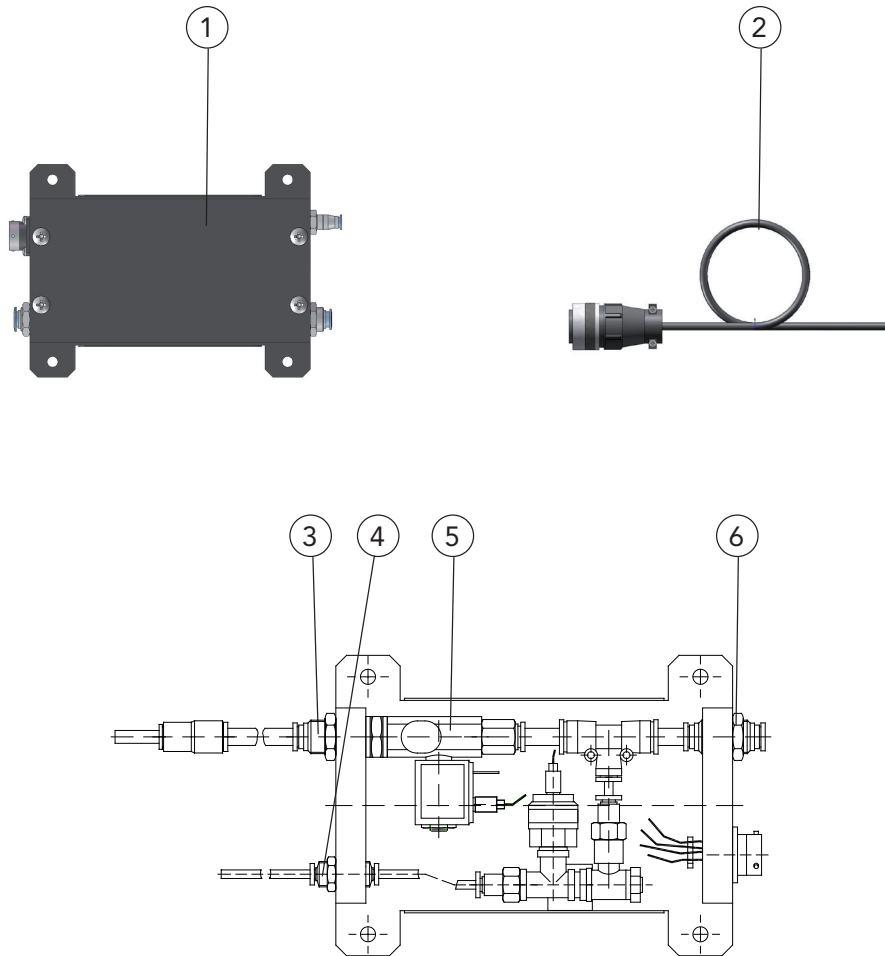
Hint:
Information to the appropriate docking sets you will find in chapter TOOLS and ACCESSORIES.

Description	Part name	Part number
A Rotary interface	DIX RETZ 600	687101001
Robot type		
ABB:	IRB 1600 ID	Motoman: EA 1400N, MA 1400
Fanuc:	ARC MATE 100iC	SSA 2000
	ARC MATE 100iC/6L	EA 1900N, MA 1900
	ARC MATE 120iC	Kuka: KR 5 arc HW
	ARC MATE 120iC/10L	Reis: RV 20-6 HW
B Rotary interface	DIX RETZ 600 L	687101008
Robot type		
Motoman:	EA 1800N	MA 1800

Spare parts and wear parts		
1 Dust boot	DIX RET 072	687001002
2 Housing, complete	DIX RETZ 073	687101006
Housing, complete	DIX RETZ 073 L	687101023
O-Ring, for connection nipple, without picture		629061018

Hint:
Liners, capillary liners and service tools you will find in chapter tools and accessories.

Protection modul REMO 100 (101) (103) ECO.torch and REVO.torch system application















MIG/MAG AUTOMATION

Description	Part name	Part number
1 Protection modul Special equipment for other wire feeders	DIX REMO 101	719283103
2 Connection cable	DIX REAK 100-10	738090110
Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, without picture	DIX REMO 100	719283100
Protection modul Only for rotary interfaces with wire brake WB 1, without picture	DIX REMO 103	719283110
Spare parts and wear parts		
3 Threaded joint, complete (5 pcs.)	DIX SSV-G1/4-8	719283105
4 Threaded joint, complete (5 pcs.)	DIX SSV-4-4	719283106
5 Solenoid valve, complete	DIX GMV-24-1/DC	719283104
6 Threaded joint, complete (5 pcs.)	DIX SSV-8-8	719283107

MIG/MAG AUTOMATION

Torch sets for hollow shaft robots MIG/MAG

Torch sets for ECO.torch		RET 320	82
Torch sets for ECO.torch with wire brake system		RET 320 WB	86
Torch sets – LITE.torch		RET 360	90
Torch sets – LITE.torch with wire brake system		RET 360 WB	92
Torch sets for REVO.torch		RET 310 (A)	94
Torch sets for ECO.torch		RETZ 620	100
Torch sets for ECO.torch with wire brake system		RETZ 620 WB	104
Torch sets – LITE.torch		RETZ 660	108
Torch sets – LITE.torch with wire brake system		RETZ 660 WB	110
Torch sets for REVO.torch		RETZ 610 (A)	112
Connection set (SAZ connection)		REMA 100 SAZ	118
Wire brake system		WB 1	119



ECO.torch RET 320 (330)

Torch sets for hollow shaft robots

System definition

Properties

- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
gas cooled
DIX MET 35x/39x
DIX MET 32xx/37xx/39xx
- ▶ For Rotary interfaces
gas cooled
RET 341 F(S)



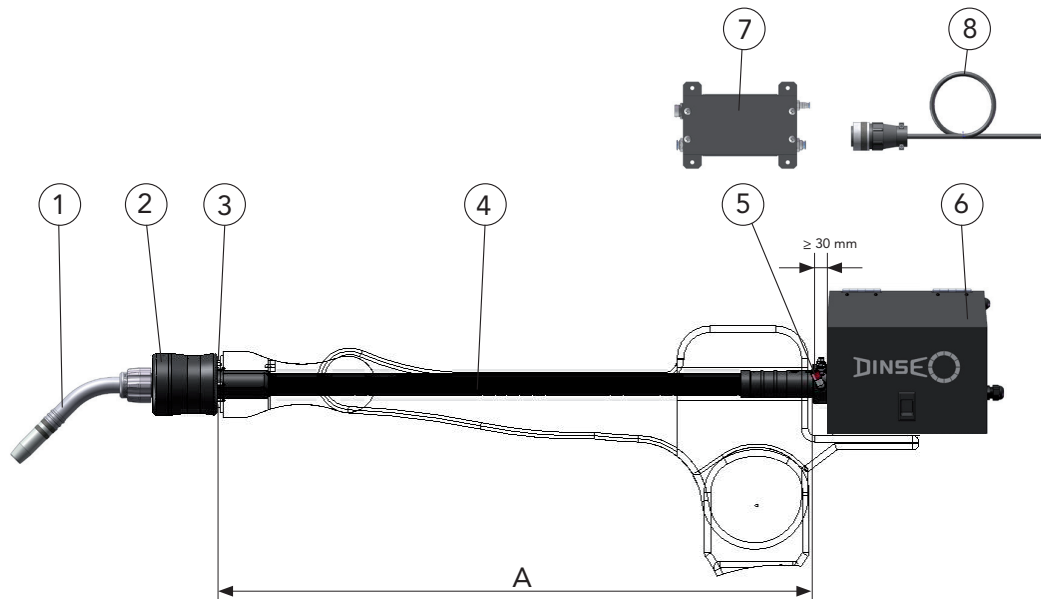
MET 35x and MES 300/500



MET 32xx and MES 300/500

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



Description

A Length depends on the position of the wire feeder

- 1 Torch head
- 2 Rotary interface
F with deflection / S without deflection
- 3 Adapter flange, ADFRD
Depends on the robot type
- 4 Torch set
- 5 Connection set, REMA
Depends on the wire feeder type, minimum distance for REMA 100 SAZ 100 mm
- 6 Wire feeder
- 7 Protection modul, REMO
- 8 Connection cable, REAK

- ▶ Variants deviating of the standard fittings on request.

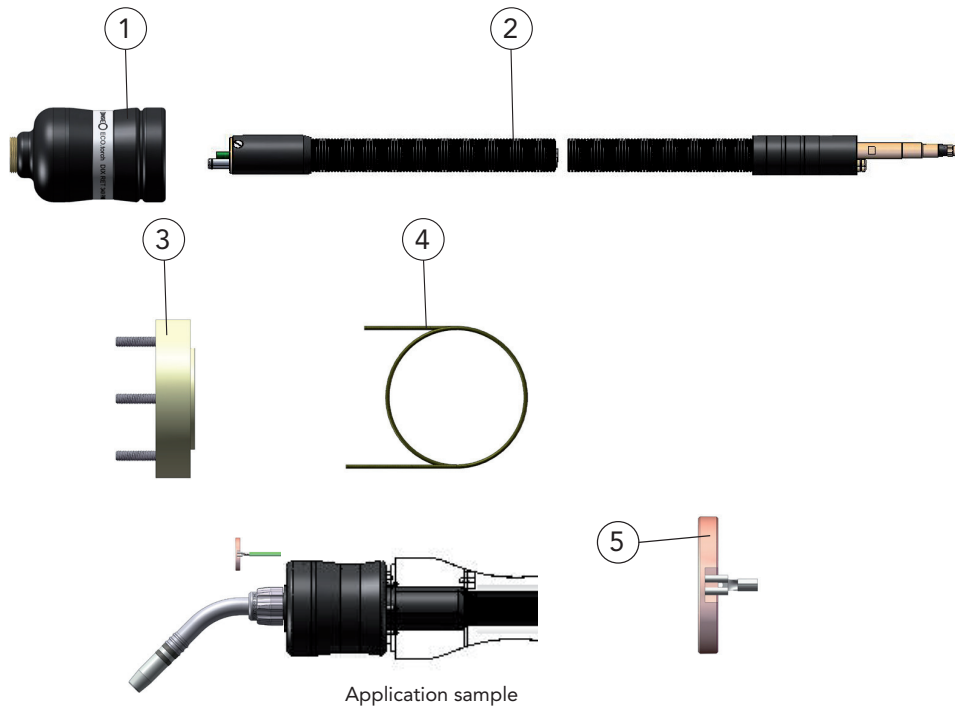
Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

ECO.torch RET 320 (330)

Torch sets for hollow shaft robots

System components without wire feeder



Description	Dimension Inch / Metric	Part name	Part number
1 Rotary interface Flexible version, maximum 15° deflection		DIX RET 341 F	687242001
Rotary interface Rigid version, without deflection		DIX RET 341 S	687232001
2 Torch set The torch set length [_] depends on the robot type		DIX RET 320-__	630135001__
Torch set (N-connector) The torch set length [_] depends on the robot type		DIX RET 330-__ NE	630140000__
3 Adapter flange The adapter flange type [_] depends on the robot type		DIX ADFRD 63_	6870034_
4 Liner	∅ .087" / 6' 7" (∅ 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320
Options:		DIX	
Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, without picture		DIX REMO 100	719283100
Protection modul For shock sensor in external housing, without picture		DIX REMO 101	719283103
Connection cable, without picture		DIX REAK 100-10	738090110
Accessories:			
5 Contact clamp Fitting for robotic and automatic torch sets with sensor function through gas nozzle.		DIX K 180 ME	687311011

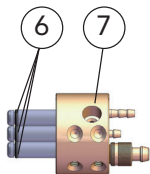
- Variants deviating of the standard fitting on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

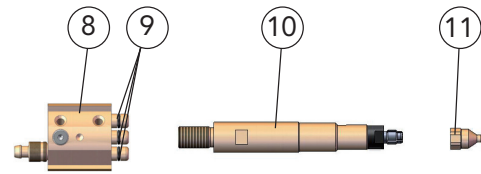


Torch sets RET 320 (330) ECO.torch for hollow shaft robots Spare parts and wear parts

Supply hose



Connection rotary interface



Connection wire feeder

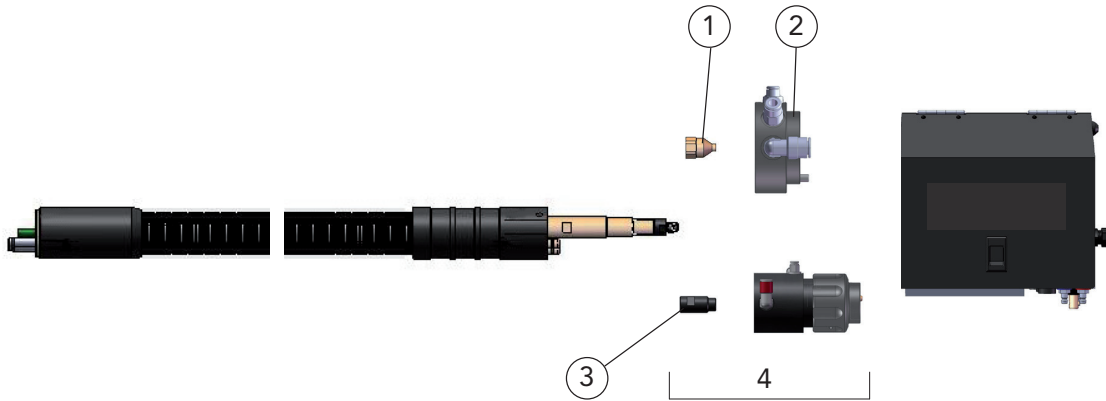
! For spare parts of the torch set with N-connector, please ask your DINSE consultant.

Description	Part name	Part number
A Supply hose	DIX VLECO 320-__	632131011__
Supply hose	DIX VLECO 330-__	632133001__
1 Binary cable	DIX VLECO 200-__	639206038__
2 Air blast hose	DIX VLRET 240-__	639246101__
3 Gas hose	DIX VL 180-__	639186001__
4 Cover hose set	DIX VLECO 230-__	639231006__
5 Checking gas hose	DIX VLRET 242-__	639247101__
6 O ring (10 pcs.)		629061014
7 ECO - connection	DIX RETECO 150	639151013
8 Plug insert	DIX RET 110	639112001
Plug insert (without picture)	DIX RET 110 N	639112006
9 O ring (10 pcs.)		629061014
10 Connecting mandrel For Dinse torch set connection	DIX READ 100	639151007
11 Inlet nozzle	DIX RET 301	639151003

► Other connecting mandrel depends on the wire feed type on request.

-- Length depends on the torch set description.

Torch sets RET 320 (330)
ECO.torch for hollow shaft robots
Special equipment for various wire feeder



Description	Part name	Part number
1 Intake nozzle	DIX RET 301	639151003
2 Connection set Depends on the wire feeder type	DIX REMA 300/0_ _	7182330_ _
3 Guide sleeve Substitute for Intake nozzle DIX RET 301	DIX RET 303	718200309
4 Connection set (SAZ connection)	DIX REMA 100 SAZ	718231001

➤ More special variants on request.

Torch sets RET 320 (330) WB with wire brake system

ECO.torch for hollow shaft robots

System definition

Properties

- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
gas cooled
 DIX MET 35x/39x
 DIX MET 32xx/37xx/39xx
- ▶ Rotary interface with integrated wire brake system
- ▶ For rotary interfaces
gas cooled
 RET 341 F(S)WB1



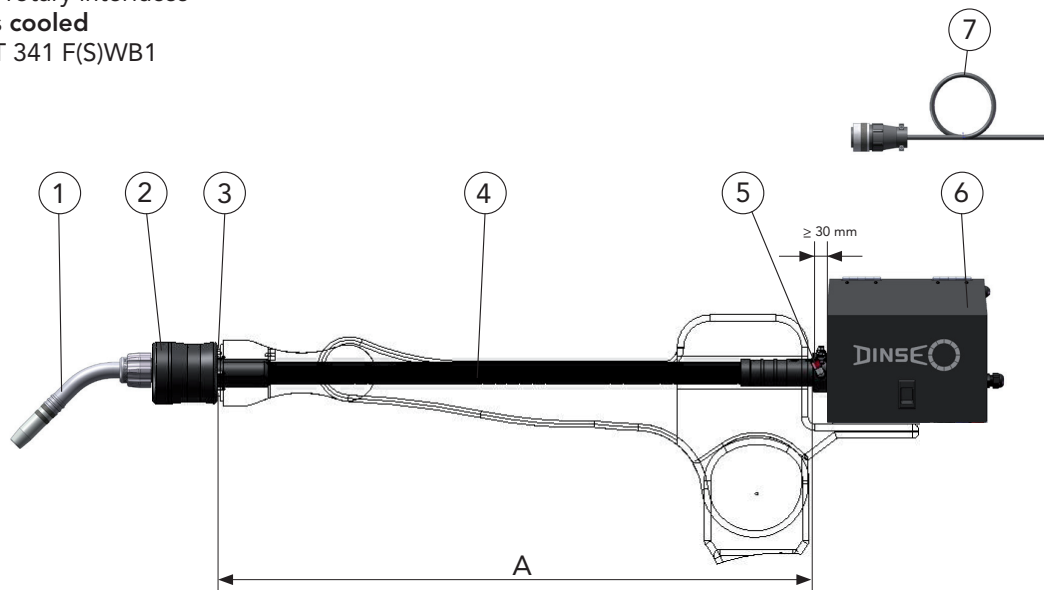
MET 35x and MES 300/500



MET 32xx and MES 300/500

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



Description

A Length depends on the position of the wire feeder

1 Torch head

2 Rotary interface with wire brake system
F with deflection / S without deflection

3 Adapter flange, ADFRD
Depends on the robot type

4 Torch set with wire brake system

5 Connection set, REMA / Power Pin
Depends on the wire feeder type, minimum distance for REMA 100 SAZ 100 mm

6 Wire feeder

7 Connection cable, REAK

Protection modul, REMO 100
Integrated into the DINSE wire feeder

- ▶ Variants deviating of the standard fittings on request.

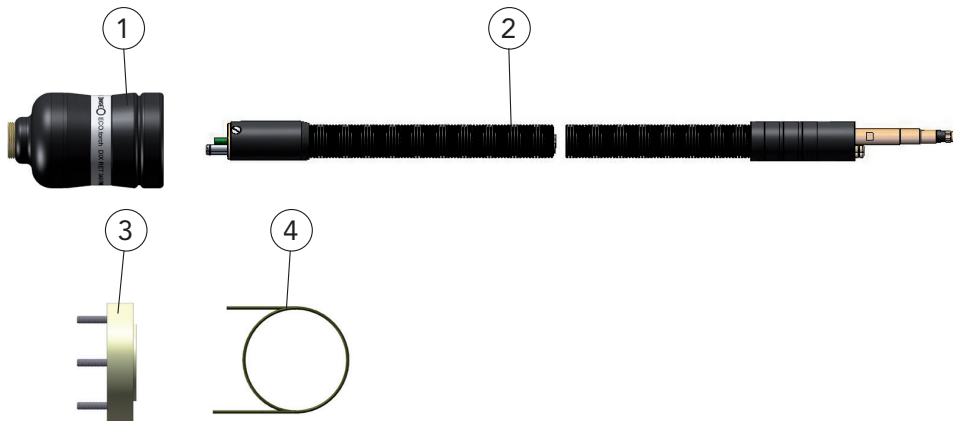
Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

Torch sets RET 320 (330) WB with wire brake system

ECO.torch for hollow shaft robots

System components without wire feeder



Description	Dimension Inch / Metric	Part name	Part number
1 Rotary interface, for wire- \varnothing .030" - .063" (0.8-1.6 mm) Flexible version, maximum 15° deflection		DIX RET 341 F/WB 1	687241000
Rotary interface, for wire- \varnothing .030" - .063" (0.8-1.6 mm) Rigid version, without deflection		DIX RET 341 S/WB 1	687241100
2 Torch set The torch set length [_] depends on the robot type		DIX RET 320-__ WB	630138_____
Torch set (N-connector) The torch set length [_] depends on the robot type		DIX RET 330-__ NE/WB	630142000____
3 Adapter flange The adapter flange [_] depends on the robot type		DIX ADFRD 63__	6870034__
4 Liner	\varnothing .087" / 6' 7" (\varnothing 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320
Options:			
Protection modul For shock sensor in external housing, without picture		DIX REMO 101	719283103
Connection cable, without picture		DIX REAK 100-10	738090110

- Variants deviating of the standard fitting on request.
For all common wire feeder systems.

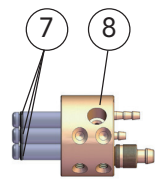
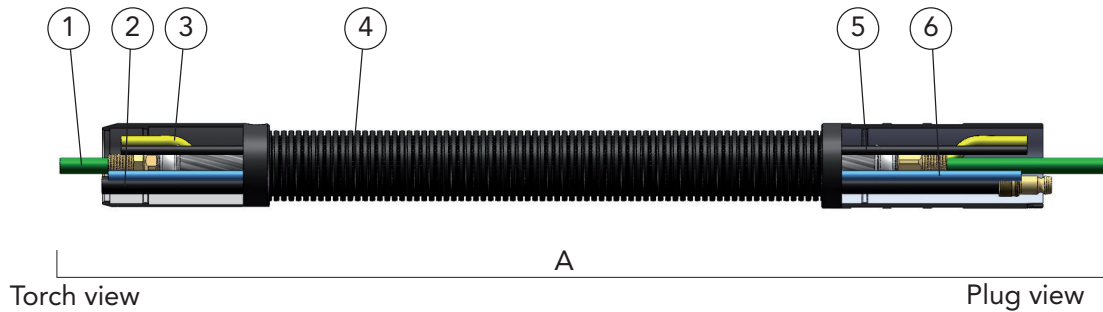
All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RET 320 (330) WB with wire brake system

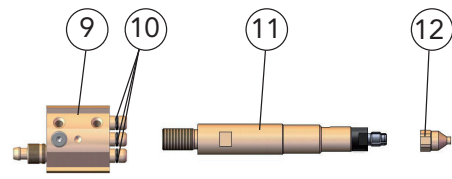
ECO.torch for hollow shaft robots

Spare parts and wear parts

Supply hose



Connection rotary interface



Connection wire feeder

! For spare parts of the torch set with N-connector, please ask your DINSE consultant.

Description	Part name	Part number
A Supply hose	DIX VLECO 320-__ WB	632131021__
Supply hose	DIX VLECO 330-__ NE/WB	632134001__
1 Binary cable	DIX VLECO 203-__ /WB	639206138__
2 Air blast hose	DIX VLRET 240-__	639246101__
3 Gas hose	DIX VL 180-__	639186001__
4 Cover hose set	DIX VLECO 230-__	639231006__
5 Checking gas hose	DIX VLRET 242-__	639247101__
6 Pressure hose, blue For wire brake	DIX VLRET 244-__	639247202__
7 O ring (10 pcs.)		629061014
8 ECO - connection	DIX RETECO 150	639151013
9 Plug insert	DIX RET 110	639112001
Plug insert (without picture)	DIX RET 110 N	639112006
10 O ring (10 pcs.)		629061014
11 Connecting mandrel For Dinse torch set connection	DIX READ 100	639151007
12 Inlet nozzle	DIX RET 301	639151003

► Other connecting mandrel depends on the wire feed type on request.

-- Length depends on the torch set description.



LITE.torch RET 360

Rotary interface for hollow shaft robots with integrated torch set System definition

Properties

- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
gas cooled
DIX MET 35x/39x
DIX MET 32xx/37xx/39xx



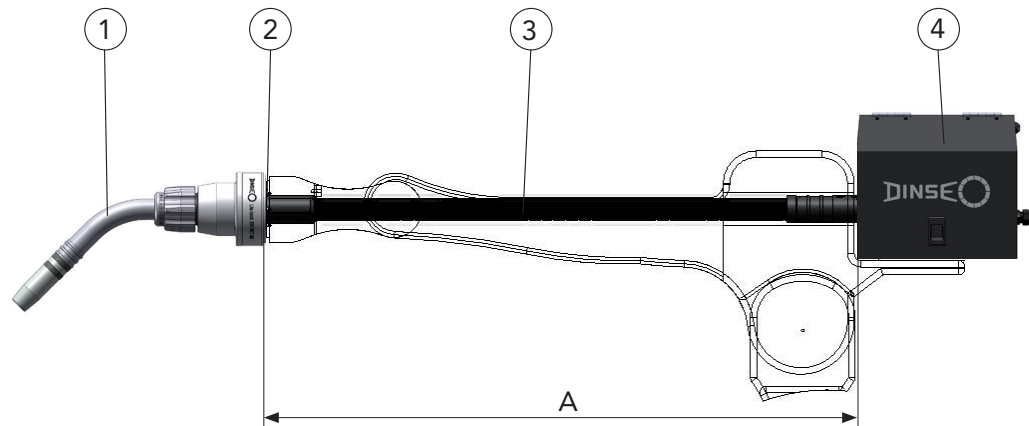
MET 35x and MES 300/500



MET 32xx and MES 300/500

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



OPTIONAL Only with power pin connection available. Please ask your DINSE consultant.

Description

A Length depends on the robot type and position of the wire feeder

- 1 Torch head
- 2 Adapter flange, ADFR
Depends on the robot type
- 3 Rotary interface with integrated torch set
Without deflection
- 4 Wire feeder

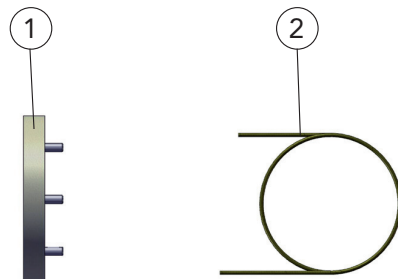
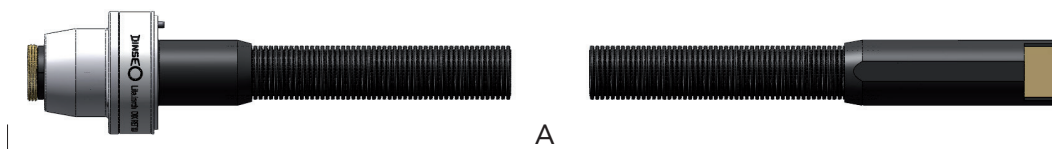
▶ Variants deviating of the standard fittings on request.

Hint:

Other liners, capillary liners and service tools you will find in chapter tools and accessories. The order designation of the system components you will find in the corresponding chapter.

LITE.torch RET 360

Rotary interface for hollow shaft robots with integrated torch set
System components without wire feeder



● The suitable power pin for your wire feeder you will find in chapter tools and accessories. Please ask your DINSE consultant.

Description	Dimension Inch / Metric	Part name	Part number
A Rotary interface with torch set Rigid version, without deflection The torch set length [_ _] depends on the robot type and the wire feeder type		DIX RET 360-__ NE	687402__ __
1 Adapter flange The adapter flange [_ _] depends on the robot type		DIX ADFR 63__	6870033__ __
2 Liner	ø .087" / 6' 7" (ø 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320

Options:

Measuring sensor set Fitting for robotic and automatic torch sets with sensor function for welding voltage measurement., without picture	DIX M 150 ME	639153041
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► Variants deviating of the standard fittings on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.



LITE.torch RET 360 WB with wire brake system

Rotary interface for hollow shaft robots with integrated torch set

System definition

Properties

- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
gas cooled
DIX MET 35x/39x
DIX MET 32xx/37xx/39xx
- ▶ Rotary interface with integrated torch set and wire brake system



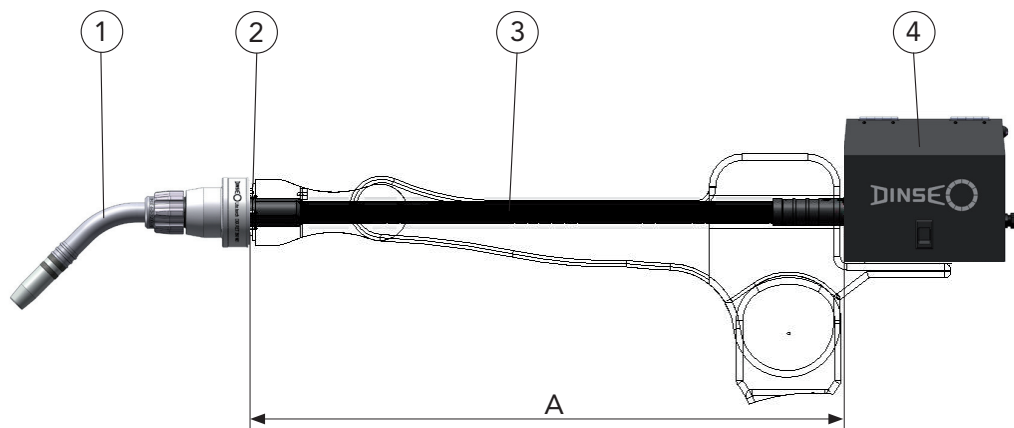
MET 35x and MES 300/500



MET 32xx and MES 300/500

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



● Only with power pin connection available.
Please ask your DINSE consultant.

Description

A Length depends on the robot type and position of the wire feeder

- 1 Torch head
- 2 Adapter flange, ADFR
Depends on the robot type
- 3 Rotary interface with integrated torch set and wire brake system
Without deflection
- 4 Wire feeder

- ▶ Variants deviating of the standard fittings on request.

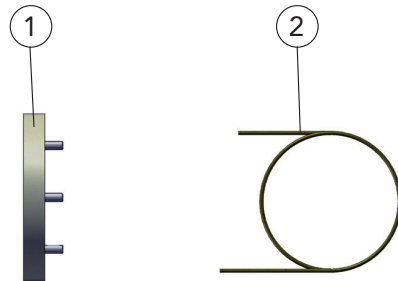
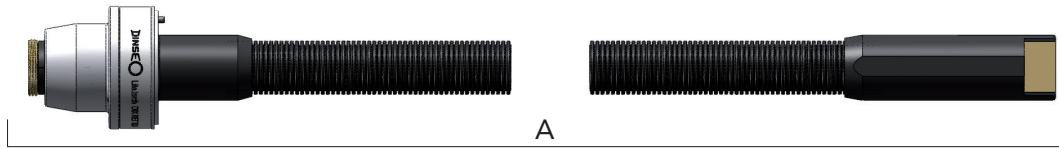
Hint:

Other liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

LITE.torch RET 360 WB with wire brake system

Rotary interface for hollow shaft robots with integrated torch set

System components without wire feeder



● The suitable power pin for your wire feeder you will find in chapter tools and accessories. Please ask your DINSE consultant.

Description	Dimension Inch / Metric	Part name	Part number
A Rotary interface with torch set and wire brake system Rigid version, without deflection The torch set length [_] depends on the robot type and the wire feeder type		DIX RET 360- _ NE/WB 1	687401_ _ _
1 Adapter flange The adapter flange [_] depends on the robot type		DIX ADFR 63_ _	6870033_ _
2 Liner	ø .087" / 6' 7" (ø 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320

► Variants deviating of the standard fittings on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RET 310 (A)

REVO.torch for hollow shaft robots

System definition

Properties

- ▶ For DINSE torch heads
gas cooled
 DIX MET 35x/39x
 DIX MET 32xx/37xx/39xx
- ▶ For rotary interfaces
gas cooled
 RET 300, RET 300 L



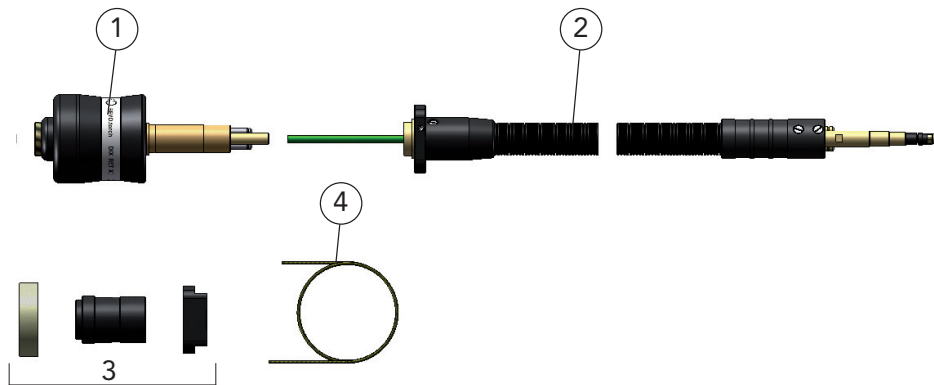
MET 35x and MES 300/500



MET 32xx and MES 300/500

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



	Description	Dimension	Part name	Part number
1	Rotary interface The rotary interface [_] depends on the robot type. Information to the rotary interface you will find in chapter MIG/MAG AUTOMATION Rotary interface.		DIX RET 300 (L)	6870010_ _
2	Torch set		DIX RET 310- _	630131004_
	Torch set, A The torch set length [_] depends on the robot type.		DIX RET 310- _ A	630131014_
3	Docking set The docking set [_] depends on the robot type. Information to the docking sets you will find in chapter Tools and Accessories..		DIX REX 3_ _	6870023_ _
4	Liner		DIX DS 4/2,2-2	623000320
	Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, without picture		DIX REMO 100	719283100
Accessories:				
	Measuring sensor set Fitting for robotic and automatic torch sets with sensor function for welding voltage measurement Set only assembled available, without picture		DIX M 150 ME	639153041

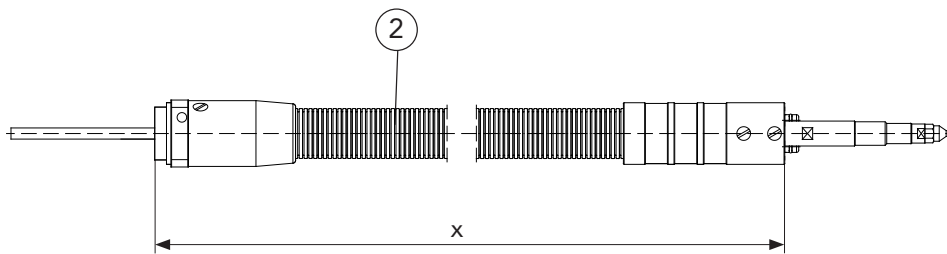
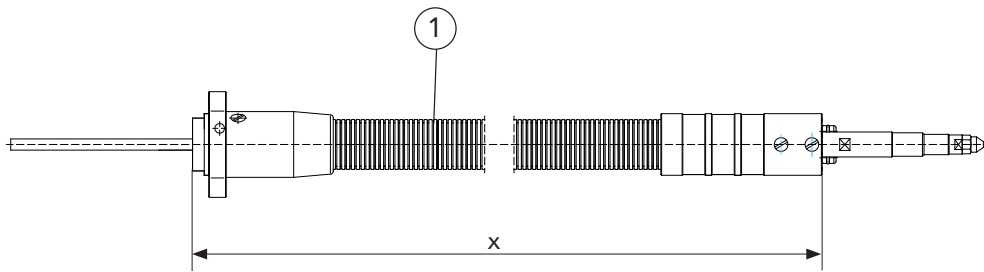
Hint:

Other liners, capillary liners and service tools you will find in chapter tools and accessories.
 The order designation of the system components you will find in the corresponding chapter.

Torch sets RET 310 (A)

REVO.torch for hollow shaft robots

Standard fittings



Description	Dimension	(Length of the torch set)	Part name	Part number
		Inch / Metric		
1 Torch set		_ m	DIX RET 310-__	630131004_
_ - Robot type				
ABB:	IRB 1600 ID	2.9` (0.89 m)		
Fanuc:	ARC MATE 100iC	4` (1.20 m)		
	ARC MATE 100iC/6L	4.5` (1.40 m)		
	ARC MATE 120iC	4.5` (1.40 m)		
	ARC MATE 120iC/10L	5.2` (1.60 m)		
Motoman:	EA 1400N, MA 1400	2.5` (0.78 m)		
	SSA 2000	2.5` (0.78 m)		
	EA 1800N, MA 1800	3.5` (1.08 m)		
	EA 1900N, MA 1900	3.5` (1.08 m)		
2 Torch set, A		_ m	DIX RET 310-__ A	630131014_
	Connection housing 90° rotated			
_ - Robot type				
Kuka:	KR 5 arc HW	2.5` (0.78 m)		
Reis:	RV 20-6 HW	4` (1.20 m)		

- Standard equipment for wire feeder DIX WD 650 X. Use the hook spanner DIX SLAT 4 to fix the torch heads.
Variants deviating of the standard fittings on request.

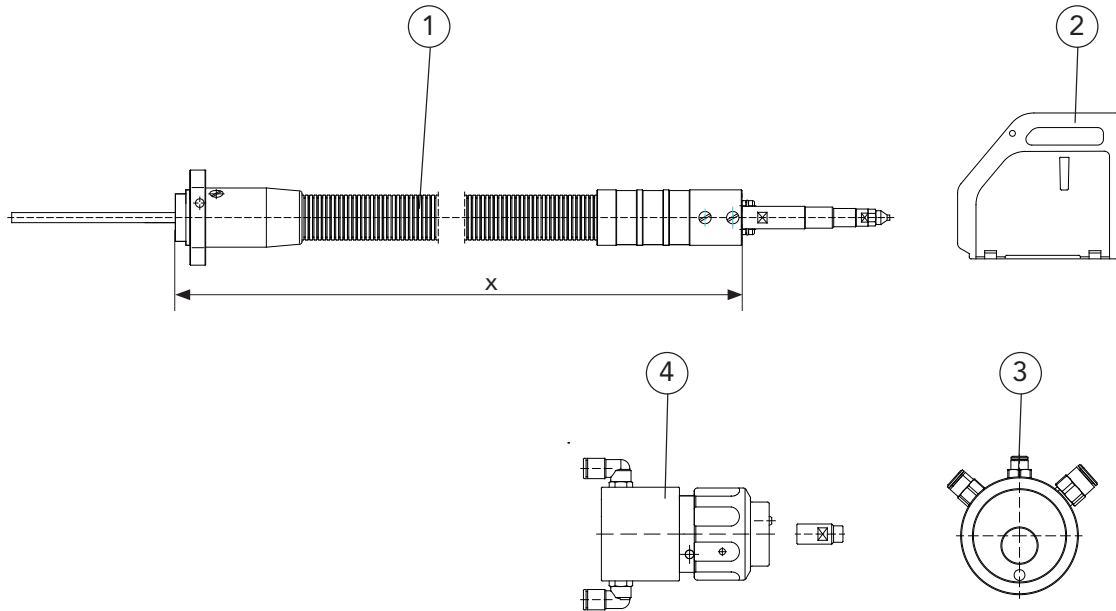
All order dimensions abiding in „mm“ respectively in „m“.



Torch sets RET 310

REVO.torch for hollow shaft robots

Special equipment for various wire feeder



MIG/MAG AUTOMATION

Description	Dimension	(Length of the torch set)	Part name	Part number
		Inch / Metric		
1 Torch set		_ m	DIX RET 310-_/00x	63013100x_
- Robot type				
ABB:	IRB 1600 ID	2.9' (0.89 m)	Motoman: EA 1400N	2.5' (0.78 m)
Fanuc:	ARC MATE 100iC	4' (1.20 m)	MA 1400	2.5' (0.78 m)
	ARC MATE 100iC/6L	4.5' (1.40 m)	SSA 2000	2.5' (0.78 m)
	ARC MATE 120iC	4.5' (1.40 m)	EA 1800N	3.5' (1.08 m)
	ARC MATE 120iC/10L	5.2' (1.60 m)	MA 1800	3.5' (1.08 m)
			EA 1900N	3.5' (1.08 m)
			MA 1900	3.5' (1.08 m)
2 Wire feeder type (x):	Fronius: 1, Lincoln, Miller, Motoman: 6, SKS: 2			
3 Connection set			DIX REMA 300/00y	71823300y
	Wire feeder type (y): Fronius: 1, Lincoln: 6, Miller: 5, Motoman: 7, SKS: 2			
4 Connection set			DIX REMA 100 SAZ	718231001

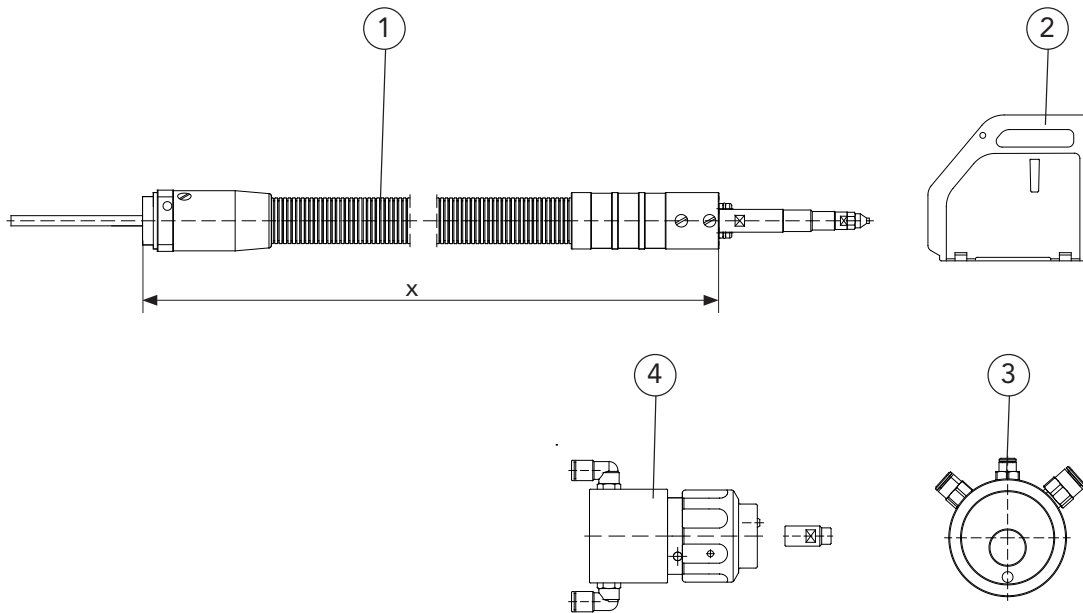
► More special variants on request.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RET 310 A

REVO.torch for hollow shaft robots

Special equipment for various wire feeder



Description	Dimension	(Length of the torch set)	Part name	Part number
		Inch / Metric		
1 Torch set, A		_ m	DIX RET 310-_/00x A	63013101x_
	Connection handle 90° twisted			
_ - Robot type				
Kuka:	KR 5 arc HW	2.5`	(0.78 m A)	
Reis:	RV 20-6 HW	4`	(1.20 m A)	
2 Wire feeder type (x):	Fronius: 1, Lincoln, Miller, Motoman: 6, SKS: 2			
3 Connection set			DIX REMA 300/00y	71823300y
2 Wire feeder type (y):	Fronius: 1, Lincoln: 6, Miller: 5, Motoman: 7, SKS: 2			
4 Connection set			DIX REMA 100 SAZ	718231001

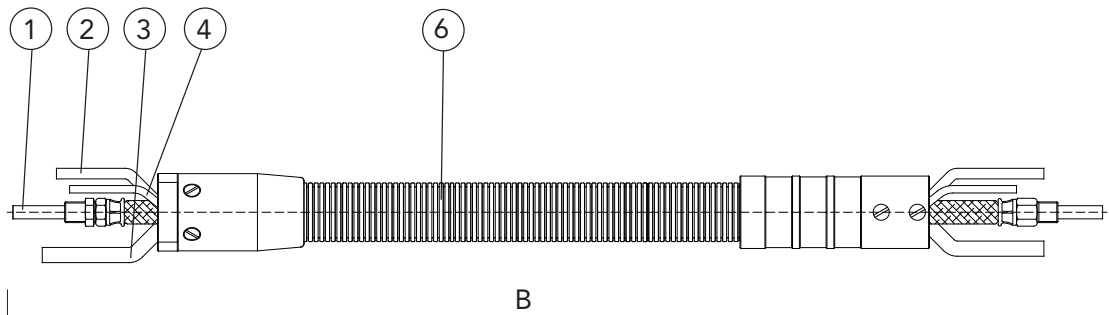
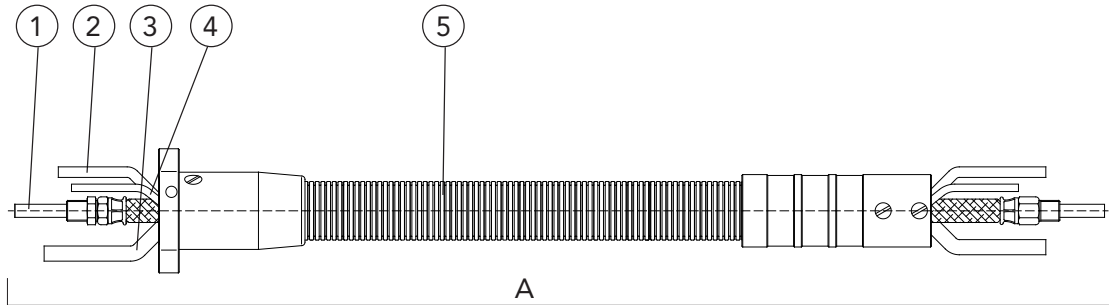
► More special variants on request.

Torch sets RET 310 (A)

REVO.torch for hollow shaft robots

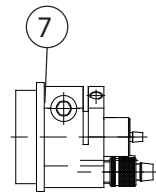
Spare parts and wear parts

Supply hose



Torch view

Plug view



Torch connecting set

Description	Part name	Part number
A Supply hose	DIX VLRET 310-__	632131003__
B Supply hose	DIX VLRET 310-__ A	632131013__
1 Binary cable	DIX VLRET 200-__	639206008__
2 Gas hose	DIX VL 180-__	639186001__
3 Air blast hose	DIX VLRET 240-__	639246101__
4 Checking gas hose	DIX VLRET 242-__	639247101__
5 Cover hose set	DIX VLRET 230-__	639231003__
6 Cover hose set	DIX VLRET 230-__ A	639231013__
7 REVO connection	DIX RET 150	639151004

-- Enter the required length of the welding torch set only in meter, e.g.:
Standard length: 2.5', 2.9', 3.5', 4', 4.5' and 5.2' (0.78 m, 0.89 m, 1.08 m, 1.20 m, 1.40 m and 1.60 m)

All order dimensions abiding in „mm“ respectively in „m“.

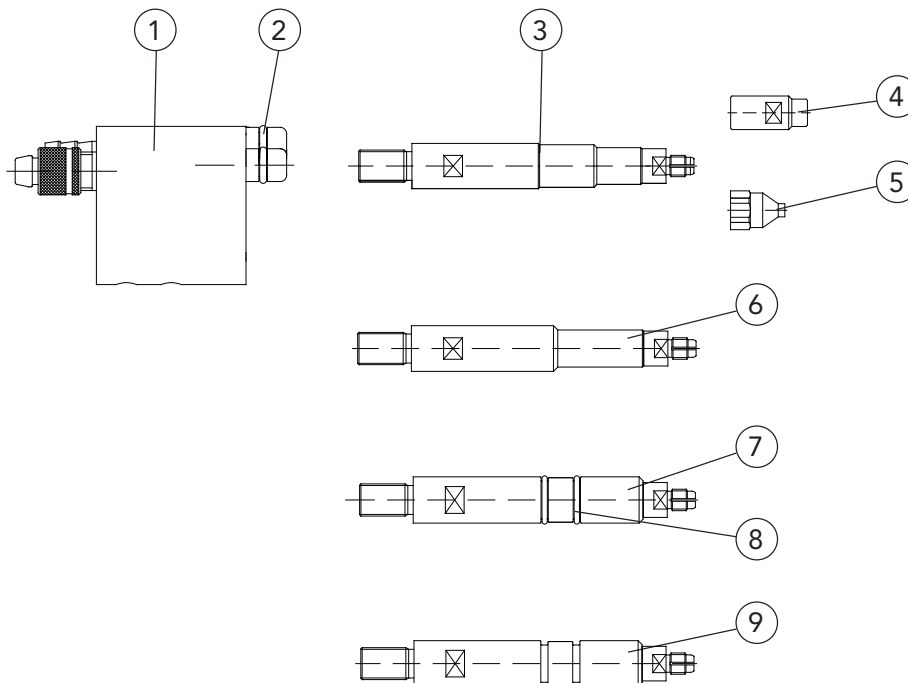
Torch sets RET 310 (A)

REVO.torch for hollow shaft robots

Spare parts and wear parts



Plug



	Description	Part name	Part number
1	Plug insert	DIX RET 110	639112001
2	O ring (10 pcs.)		629061014
3	Connecting mandrel For Dinse torch connection	DIX READ 100	639151007
4	Guide sleeve For connection set DIX REMA 100 SAZ, substitute for Intake nozzle DIX RET 301	DIX RET 303	718200309
5	Intake nozzle	DIX RET 301	639151003
6	Connecting mandrel For Fronius torch connection	DIX READ 100/001	639151008
7	Connecting mandrel For SKS torch connection	DIX READ 100/002	639151009
8	O ring (10 pcs.)		634013005
9	Connecting mandrel For Lincoln, Miller, Motoman torch connection	DIX READ 100/006	639151010

► Other fittings on request.

Torch sets RETZ 620 (630) ECO.torch for hollow shaft robots System definition

Properties

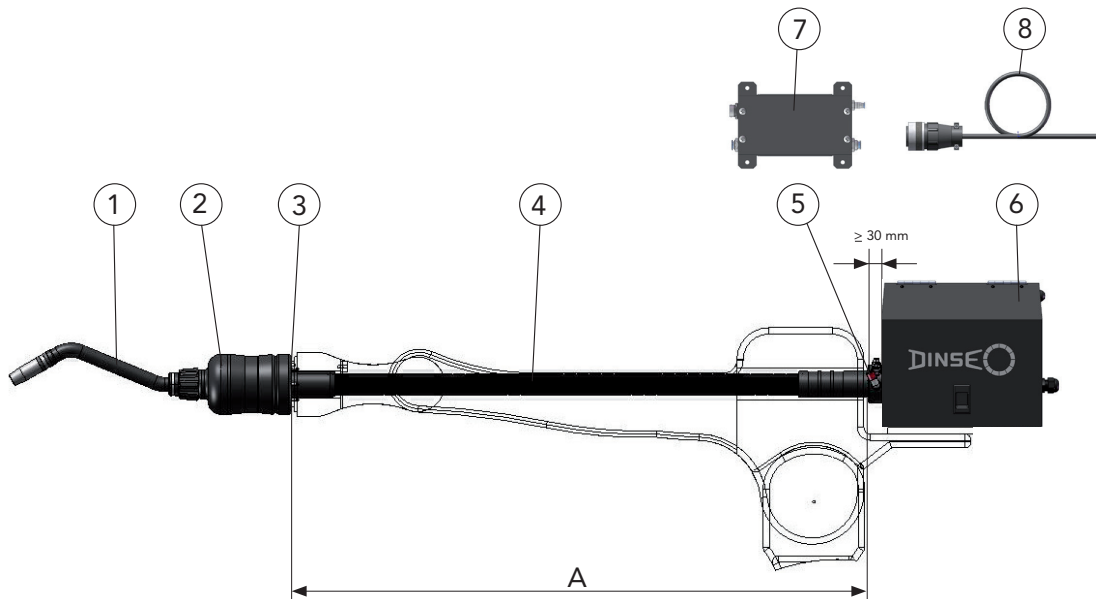
- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x
- ▶ For Rotary interfaces
liquid cooled
RETZ 641 F(S)



Torch head METZ and MES 300/500
Application sample

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



Description

A Length depends on the position of the wire feeder

- 1 Torch head
- 2 Rotary interface
F with deflection / S without deflection
- 3 Adapter flange, ADFRD
Depends on the robot type
- 4 Torch set
- 5 Connection set, REMA
Depends on the wire feeder type, minimum distance for REMA 100 SAZ 100 mm
- 6 Wire feeder
- 7 Protection modul, REMO
- 8 Connection cable, REAK

▶ Variants deviating of the standard fittings on request.

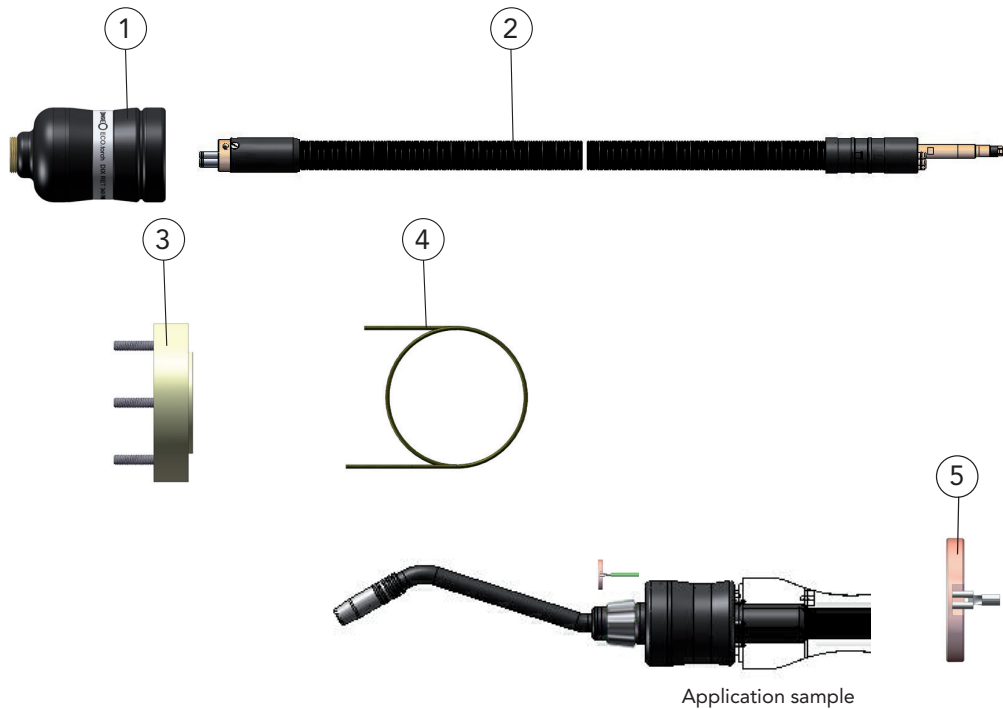
Hint:

Other liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

Torch sets RETZ 620 (630)

ECO.torch for hollow shaft robot

System components without wire feeder



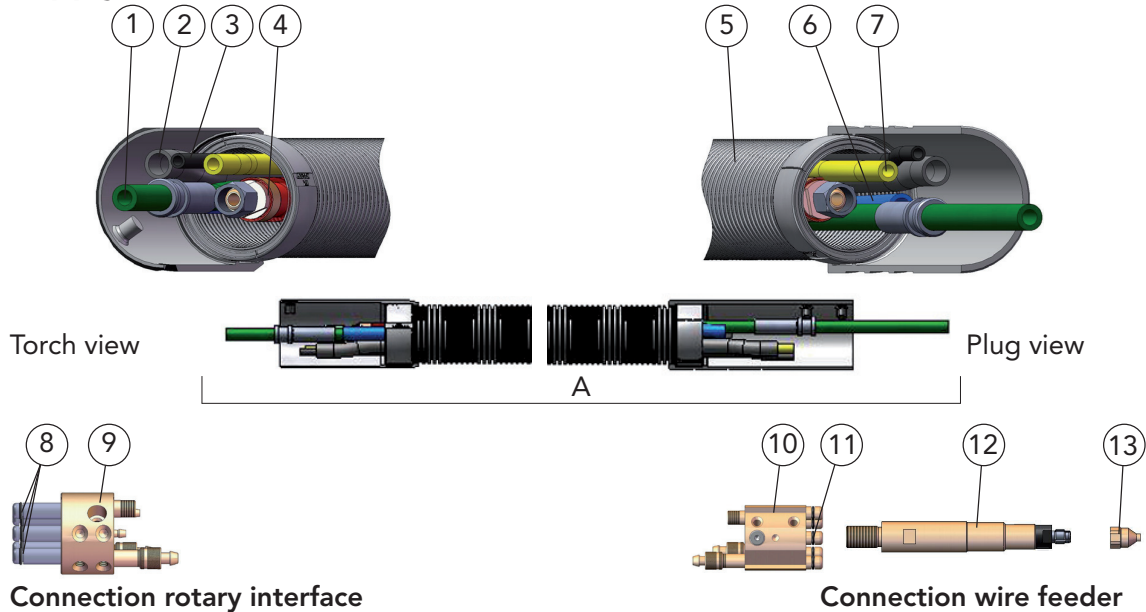
Description	Dimension Inch / Metric	Part name	Part number
1 Rotary interface Flexible version, maximum 15° deflection		DIX RETZ 641 F	687342001
Rotary interface Rigid version, without deflection		DIX RETZ 641 S	687332001
2 Torch set The torch set length [_] depends on the robot type		DIX RETZ 620-__	630136001__
Torch set (N-connector) The torch set length [_] depends on the robot type		DIX RETZ 630-__ NE	630139000__
3 Adapter flange The adapter flange [_] depends on the robot type		DIX ADFR 63__	6870033__
4 Liner	ø .087" / 6' 7" (ø 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320
Options:			
Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, without picture		DIX REMO 100	719283100
Protection modul For shock sensor in external housing, without picture		DIX REMO 101	719283103
Connection cable, without picture		DIX REAK 100-10	738090110
Accessories:			
5 Contact clamp Fitting for robotic and automatic torch sets with sensor function through gas nozzle.		DIX K 180 ME	687311011

- Variants deviating of the standard fitting on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RETZ 620 (630) ECO.torch for hollow shaft robot Spare parts and wear parts

Supply hose



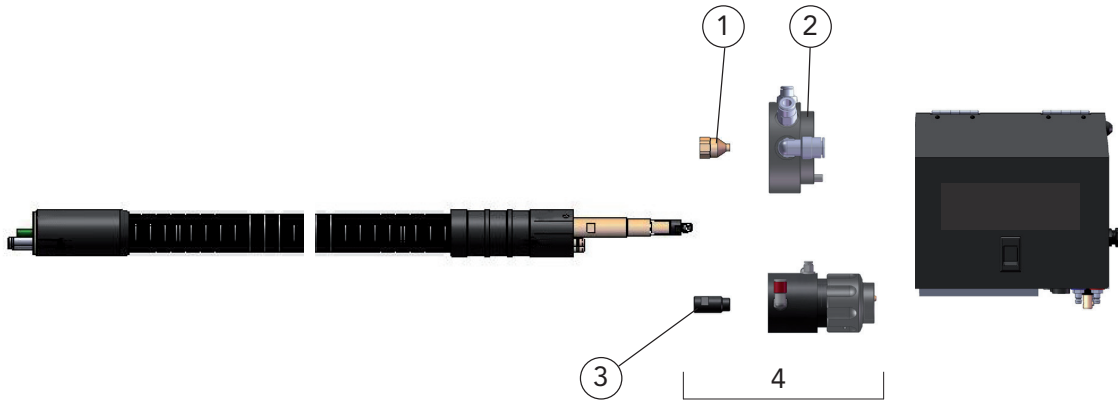
RETZ For spare parts of the torch set with N-connector, please ask your DINSE consultant.

Description	Part name	Part number
A Supply hose	DIX VLECO 620-__	632162011__
Supply hose	DIX VLECO 630-__	632164000__
1 Conduit hose	DIX VLECO 201-__	639206039__
2 Air blast hose	DIX VLRET 240-__	639246101__
3 Checking gas hose	DIX VLRET 242-__	639247101__
4 Combi cable	DIX VLECO 220-__	639226008__
5 Cover hose set	DIX VLECO 230-__	639231006__
6 Water hose	DIX VL 190-__	639196001__
7 Gas hose	DIX VL 180-__	639186001__
8 O ring (10 pcs.)		629061018
9 ECO - connection	DIX RETZECO 150	639151012
10 Plug insert	DIX RETZ 110 ECO	639112005
Plug insert (without picture)	DIX RETZ 110 N	639112007
11 O ring (10 pcs.)		629061014
12 Connecting mandrel For Dinse torch set connection	DIX READ 100	639151007
13 Inlet nozzle	DIX RET 301	639151003

- Other connecting mandrel depends on the wire feed type on request.
- Length depends on the torch set description.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RETZ 620 (630)
ECO.torch for hollow shaft robot
Special equipment for various wire feeder



Description	Part name	Part number
1 Intake nozzle	DIX RET 301	639151003
2 Connection set Depends on the wire feeder type	DIX REMA 600/00_	7182360_ _ _
3 Guide sleeve Substitute for Intake nozzle DIX RET 301	DIX RET 303	718200309
4 Connection set (SAZ connection)	DIX REMA 100 SAZ	718231001

► More special variants on request.

MIG/MAG AUTOMATION

Torch sets RETZ 620 (630) WB with wire brake system ECO.torch for hollow shaft robot System definition

Properties

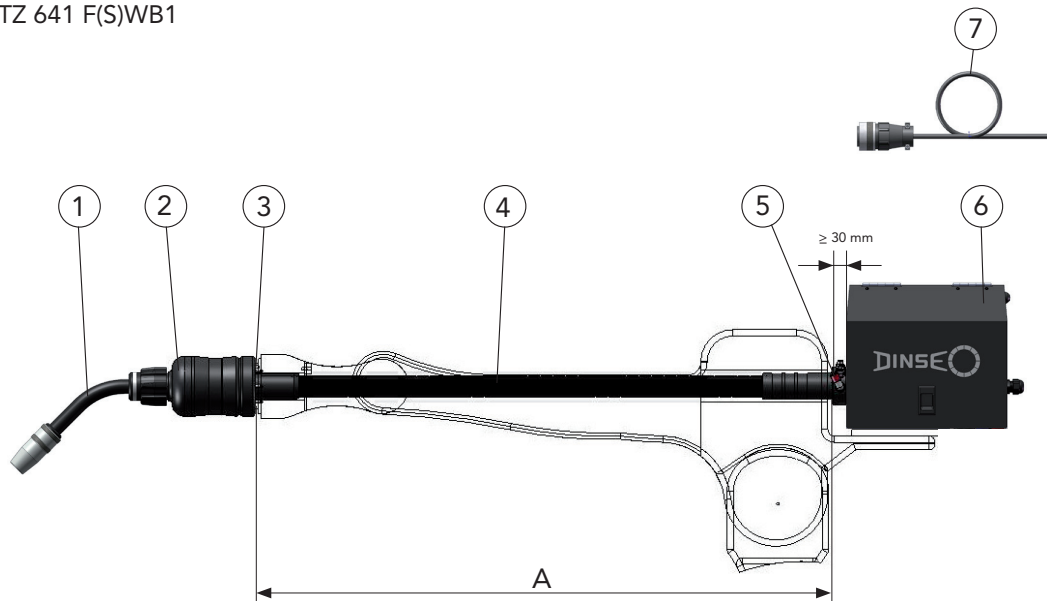
- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x
- ▶ Rotary interface with integrated wire brake system
- ▶ For rotary interfaces
liquid cooled
RETZ 641 F(S)WB1



Torch head METZ and MES 300/500 Application sample

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



Description

A Length depends on the position of the wire feeder

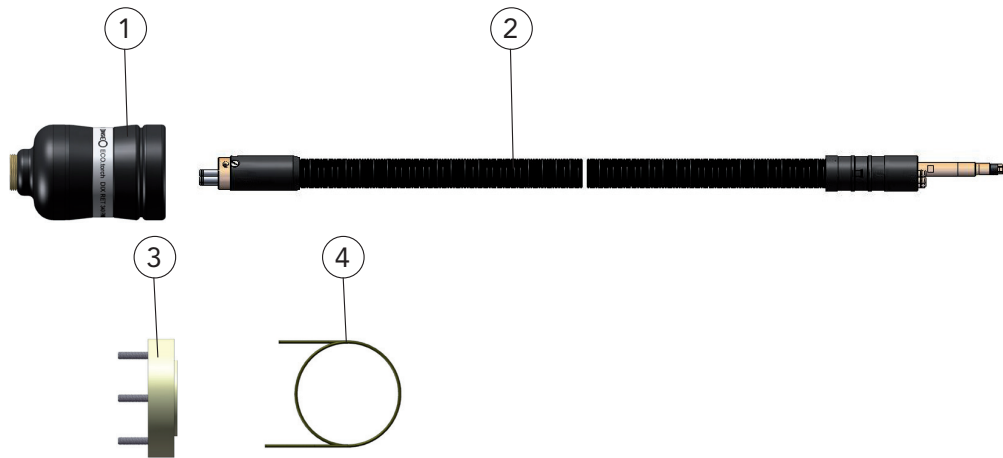
- 1 Torch head
- 2 Rotary interface with wire brake system
F with deflection / S without deflection
- 3 Adapter flange, ADFRD
Depends on the robot type
- 4 Torch set with wire brake system
- 5 Connection set, REMA / Power Pin
Depends on the wire feeder type, minimum distance for REMA 100 SAZ 100 mm
- 6 Wire feeder
- 7 Connection cable, REAK
Protection modul, REMO 100
Integrated into the DINSE wire feeder

- ▶ Variants deviating of the standard fittings on request.

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

Torch sets RETZ 620 (630) WB with wire brake system ECO.torch for hollow shaft robot System components without wire feeder



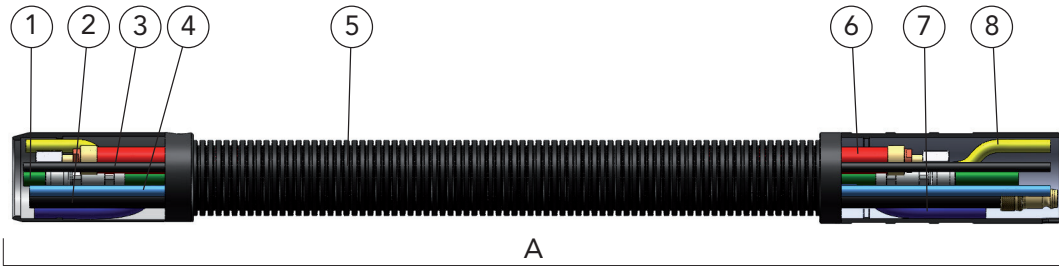
Description	Dimension Inch / Metric	Part name	Part number
1 Rotary interface, for wire- \varnothing .030" - .063" (0.8-1.6 mm) Flexible version, maximum 15° deflection		DIX RETZ 641 F/WB 1	687341001
Rotary interface, for wire- \varnothing .030" - .063" (0.8-1.6 mm) Rigid version, without deflection		DIX RETZ 641 S/WB 1	687331100
2 Torch set The torch set length [] depends on the wire feeder and robot type		DIX RETZ 620-__ /WB	630137_____
Torch set (N-connector) The torch set length [] depends on the wire feeder and robot type		DIX RETZ 630-__ NE/WB	630141000 ___
3 Adapter flange The adapter flange [] depends on the robot type		DIX ADFR 63__	6870033__
Adapter flange The adapter flange [] depends on the robot type, without picture		DIX ADFRD 63__	6870034__
4 Liner	\varnothing .087" / 6' 7" (\varnothing 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320
Options:			
Protection modul For shock sensor in external housing, without picture		DIX REMO 101	719283103
Connection cable, without picture		DIX REAK 100-10	738090110

- Variants deviating of the standard fitting on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

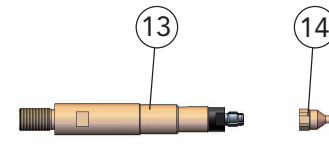
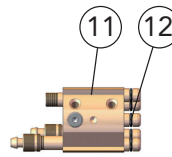
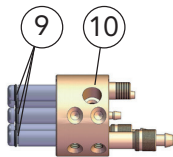
Torch sets RETZ 620 (630) WB with wire brake system ECO.torch for hollow shaft robots Spare parts and wear parts

Supply hose



Torch view

Plug view



Connection rotary interface

Connection wire feeder

● For spare parts of the torch set with N-connector, please ask your DINSE consultant.

	Description	Part name	Part number
A	Supply hose	DIX VLECO 620-__ WB	632162-_____-
	Supply hose	DIX VLECO 630-__ N/WB	632163-_____-
1	Conduit hose	DIX VLECO 202-_/WB	639206139-__-
2	Air blast hose	DIX VL 240-__	639246001-__-
3	Checking gas hose	DIX VLRET 242-__	639247101-__-
4	Pressure hose, blue For wire brake	DIX VLRET 244-__	639247202-__-
5	Cover hose set	DIX VLECO 230-__	639231006-__-
6	Combi cable	DIX VLECO 220-__	639226008-__-
7	Water hose	DIX VL 190-__	639196001-__-
8	Gas hose	DIX VL 180-__	639186001-__-
9	O ring (10 pcs.)		629061018
10	ECO - connection	DIX RETZECO 150	639151012
11	Plug inset	DIX RETZ 110 ECO	639112005
	Plug inset (without picture)	DIX RETZ 110 N	639112007
12	O ring (10 pcs.)		629061014
13	Connecting mandrel For Dinse torch set connection	DIX READ 100	639151007
14	Inlet nozzle	DIX RET 301	639151003

► Other connecting mandrel depends on the wire feed type on request.

-- Length depends on the torch set description.

All order dimensions abiding in „mm“ respectively in „m“.

LITE.torch RETZ 660

Rotary interface for hollow shaft robots with integrated torch set System definition

Properties

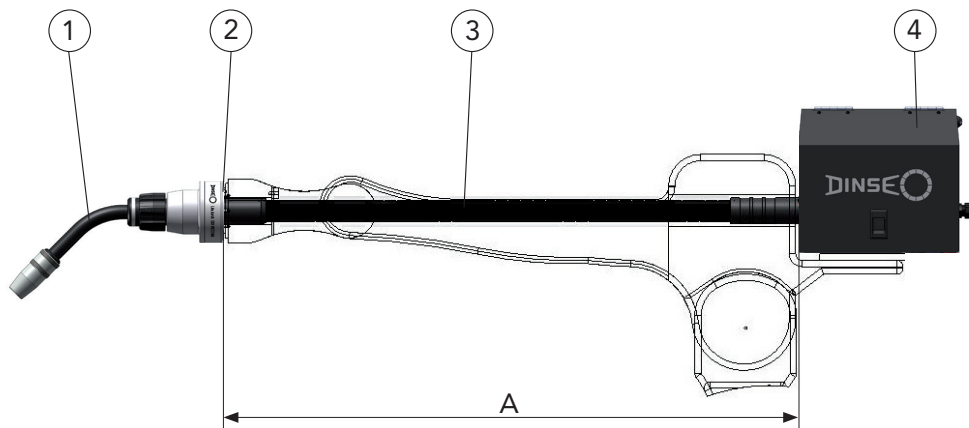
- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x



Torch head METZ and MES 300/500 Application sample

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



● Only with power pin connection available.
Please ask your DINSE consultant.

Description

A Length depends on the robot type and position of the wire feeder

- 1 Torch head
- 2 Adapter flange, ADFR
Depends on the robot type
- 3 Rotary interface with integrated torch set
Without deflection
- 4 Wire feeder

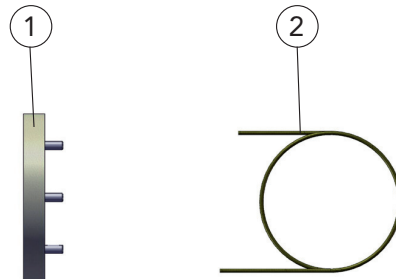
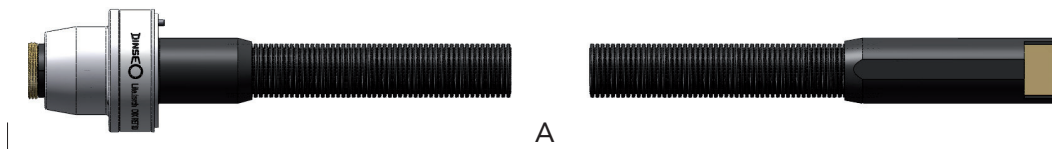
- ▶ Variants deviating of the standard fittings on request.

Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

LITE.torch RETZ 660

Rotary interface for hollow shaft robots with integrated torch set
System components without wire feeder



DINSE The suitable power pin for your wire feeder you will find in chapter tools and accessories. Please ask your DINSE consultant.

Description	Dimension Inch / Metric	Part name	Part number
A Rotary interface with torch set Rigid version, without deflection The torch set length [_ _] depends on the robot type and the wire feeder type		DIX RETZ 660-__ NE	687403__
1 Adapter flange The adapter flange [_ _] depends on the robot type		DIX ADFR 63__	6870033__
2 Liner	ø .087" / 6' 7" (ø 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320

► Variants deviating of the standard fittings on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

LITE.torch RETZ 660 WB with wire brake system

Rotary interface for hollow shaft robots with integrated torch set

System definition

Properties

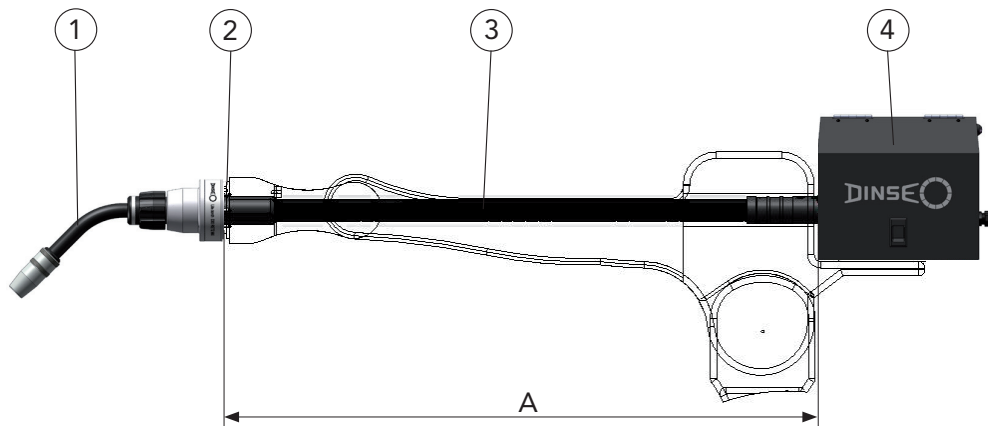
- ▶ For common hollow shaft robots.
- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x
- ▶ Rotary interface with integrated torch set and wire brake system



Torch head METZ and MES 300/500 Application sample

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



● Only with power pin connection available.
Please ask your DINSE consultant.

Description

A Length depends on the robot type and position of the wire feeder

- 1 Torch head
- 2 Adapter flange, ADFR
Depends on the robot type
- 3 Rotary interface with integrated torch set and wire brake system
Without deflection
- 4 Wire feeder

- ▶ Variants deviating of the standard fittings on request.

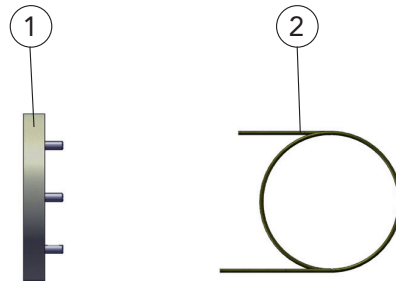
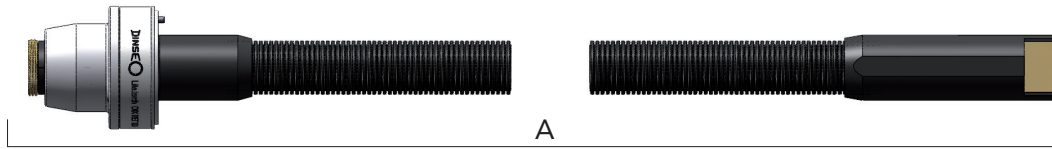
Hint:

Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

LITE.torch RETZ 660 WB with wire brake system

Rotary interface for hollow shaft robots with integrated torch set

System components without wire feeder



● The suitable power pin for your wire feeder you will find in chapter tools and accessories. Please ask your DINSE consultant.

Description	Dimension Inch / Metric	Part name	Part number
A Rotary interface with torch set and wire brake system Rigid version, without deflection The torch set length [_] depends on the robot type and the wire feeder type		DIX RETZ 660- _ NE/WB 1	687404_ _ _
1 Adapter flange The adapter flange [_] depends on the robot type		DIX ADFR 63_ _	6870033_ _
2 Liner	ø .087" / 6' 7" (ø 2.2 mm / 2.0 m)	DIX DS 4/2.2-2.0	623000320

► Variants deviating of the standard fittings on request.
For all common wire feeder systems.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RETZ 610

REVO.torch for hollow shaft robots

System definition

Properties

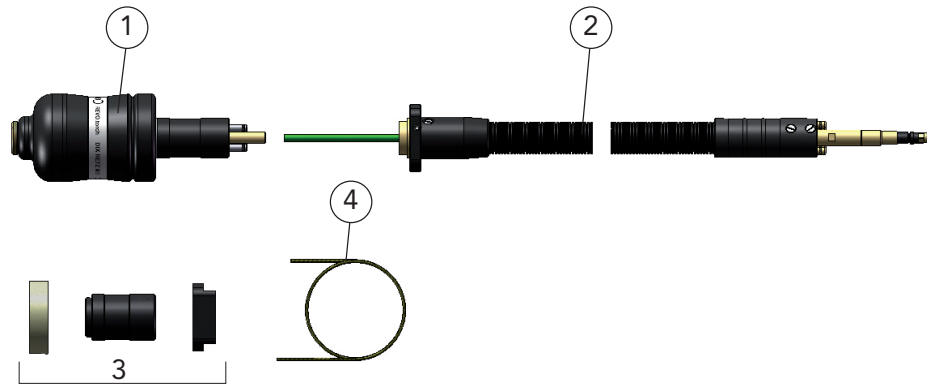
- ▶ For DINSE torch heads
liquid cooled
DIX METZ 52x/59x/54x/56x/57x



Torch head METZ and MES 300/500 Application sample

Hint:

Information to the appropriate torch heads you will find in chapter MIG/MAG AUTOMATION Torch heads.



Description	Dimension	Part name	Part number
1 Rotary interface The rotary interface [_] depends on the robot type. Information to the rotary interface you will find in chapter MIG/MAG AUTOMATION Rotary interface.		DIX RETZ 600 (L)	68710100_ _
2 Torch set		DIX RETZ 610- _ _ _	630132004_ _ _
3 Torch set, A The torch set length [_] depends on the robot type		DIX RETZ 610- _ A	630131014_ _ _
4 Docking set The docking set [_] depends on the robot type. Information to the docking sets you will find in chapter Tools and Accessories.		DIX REX 3_ _	6870023_ _
5 Liner		DIX DS 4/2.2-2.2	623000320
Protection modul For wire feeder DIX WD 650 X with integrated shock sensor, only assembled, without picture		DIX REMO 100	719283100
Accessories:			
Measuring sensor set Fitting for robotic and automatic torch sets with sensor function for welding voltage measurement Set only assembled available, without picture		DIX M 150 ME	639153041

Hint:

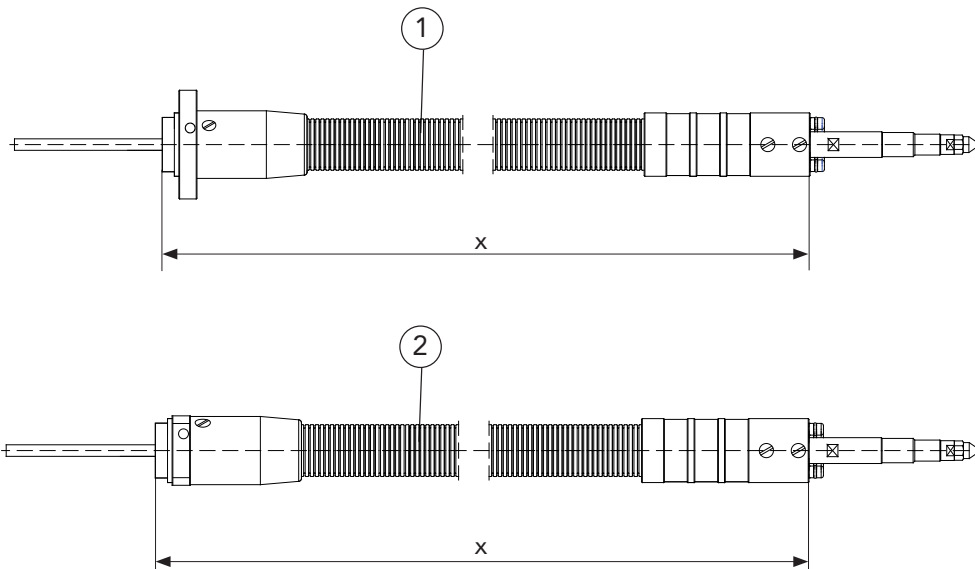
Liners, capillary liners and service tools you will find in chapter tools and accessories.
The order designation of the system components you will find in the corresponding chapter.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RET 610 (A)

REVO.torch for hollow shaft robots

Standard fittings



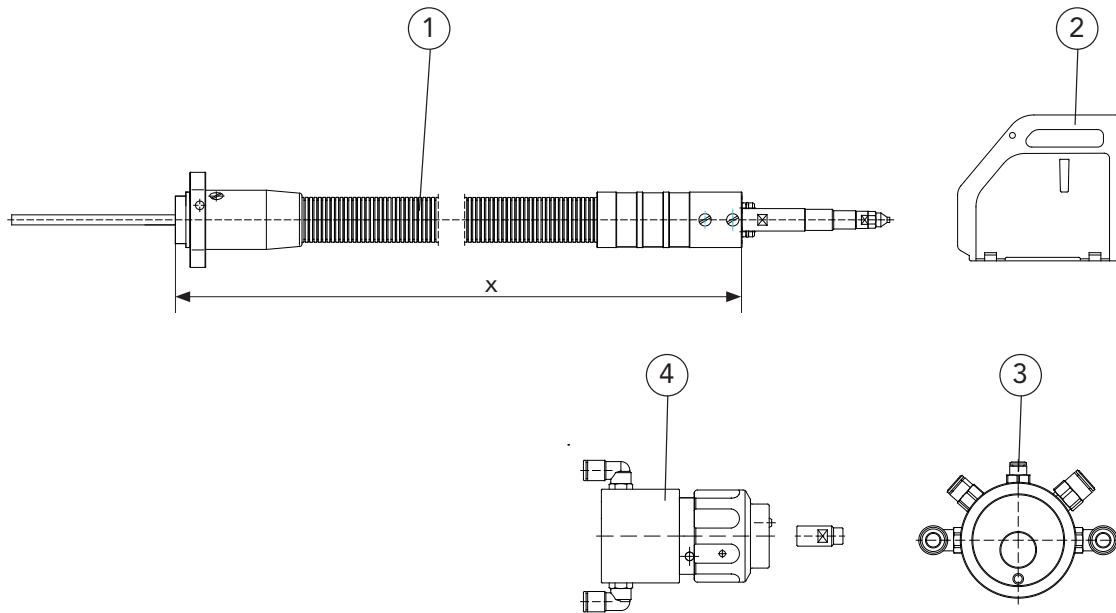
Description	Dimension	(Length of the torch set) Inch / Metric	Part name	Part number
1 Torch set		_ m	DIX RETZ 610-___	630132004-___
_ - Robot type				
ABB:	IRB 1600 ID	2.9' (0.89 m)		
Fanuc:	ARC MATE 100iC	4' (1.20 m)		
	ARC MATE 100iC/6L	4.5' (1.40 m)		
	ARC MATE 120iC	4.5' (1.40 m)		
	ARC MATE 120iC/10L	5.2' (1.60 m)		
Motoman:	EA 1400N, MA 1400	2.5' (0.78 m)		
	SSA 2000	2.5' (0.78 m)		
	EA 1800N, MA 1800	3.5' (1.08 m)		
	EA 1900N, MA 1900	3.5' (1.08 m)		
2 Torch set, A		_ m	DIX RETZ 610-__A	630132014_
	Connection handle 90° twisted			
_ - Robot type				
Kuka:	KR 5 arc HW	2.5' (0.78 m)		
Reis:	RV 20-6 HW	4' (1.20 m)		

► Variants deviating of the standard fittings on request.

Torch sets RETZ 610

REVO.torch for hollow shaft robots

Special equipment for various wire feeder



Description	Dimension	(Length of the torch set)	Part name	Part number
		Inch / Metric		
1 Torch set		_ m	DIX RETZ 610-_/00x	63013200x_
- Robot type				
ABB:	IRB 1600 ID	2.9' (0.89 m)	Motoman: EA 1400N	2.5' (0.78 m)
Fanuc:	ARC MATE 100iC	4' (1.20 m)	MA 1400	2.5' (0.78 m)
	ARC MATE 100iC/6L	4.5' (1.40 m)	SSA 2000	2.5' (0.78 m)
	ARC MATE 120iC	4.5' (1.40 m)	EA 1800N	3.5' (1.08 m)
	ARC MATE 120iC/10L	5.2' (1.60 m)	MA 1800	3.5' (1.08 m)
			EA 1900N	3.5' (1.08 m)
			MA 1900	3.5' (1.08 m)
2 Wire feeder type (x):	Fronius: 1, Lincoln, Miller, Motoman: 6, SKS: 2			
3 Connection set			DIX REMA 600/00y	71823600y
2 Wire feeder type (y):	Fronius: 1, Lincoln: 6, Miller: 5, Motoman: 7, SKS: 2			
4 Connection set			DIX REMA 100 SAZ	718231001

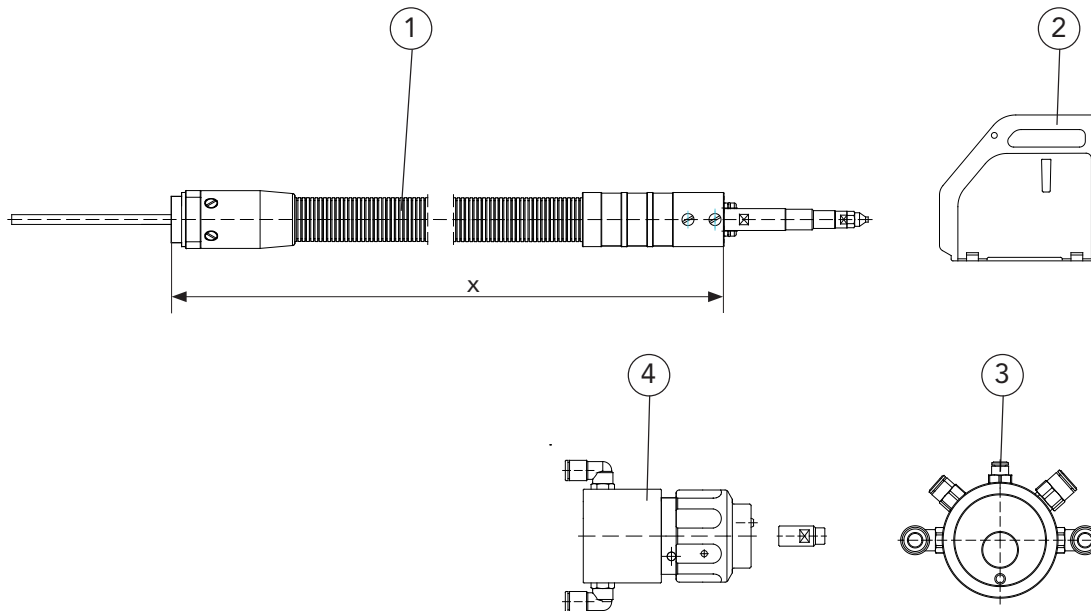
► More special variants on request.

All order dimensions abiding in „mm“ respectively in „m“.

Torch sets RETZ 610 A

REVO.torch for hollow shaft robots

Special equipment for various wire feeder

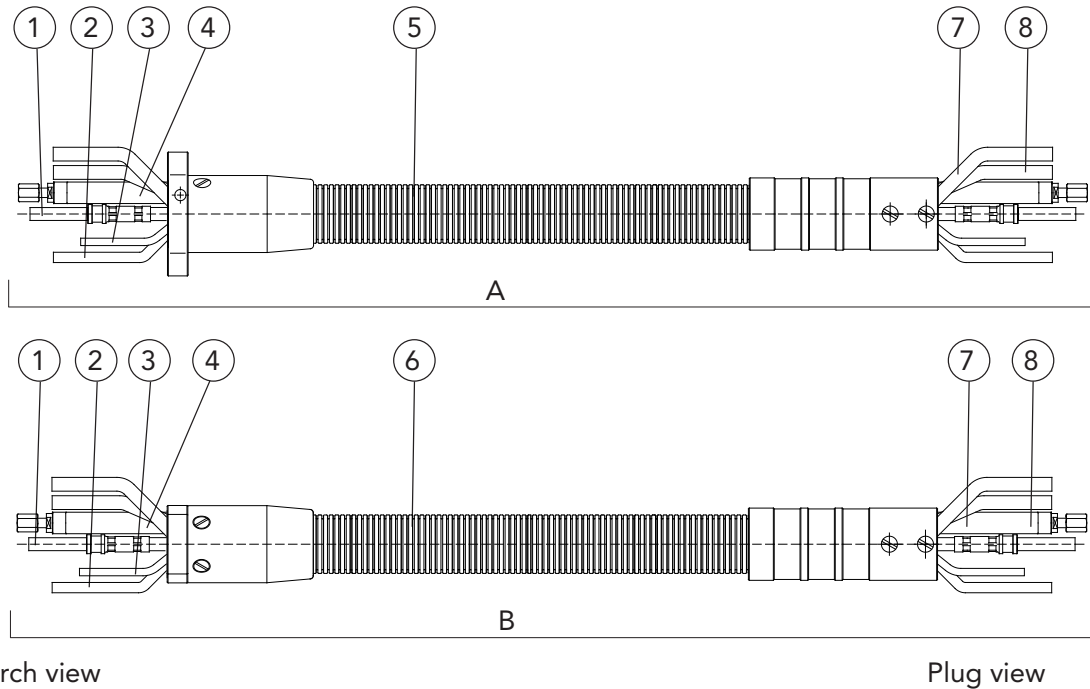


Description	Dimension (Length of the torch set)	Part name	Part number
	Inch / Metric		
1 Torch set, A	_ m	DIX RETZ 610-_/00x A	63013201x_
Connection handle 90° rotated			
_ - Robot type			
Kuka:	KR 5 arc HW 2.5' (0.78 m A)		
Reis:	RV 20-6 HW 4' (1.20 m A)		
2 Wire feeder type (x):	Fronius: 1, Lincoln, Miller, Motoman: 6, SKS: 2		
3 Connection set		DIX REMA 600/00y	71823600y
2 Wire feeder type (y):	Fronius: 1, Lincoln: 6, Miller: 5, Motoman: 7, SKS: 2		
4 Connection set		DIX REMA 100 SAZ	718231001

➤ More special variants on request.

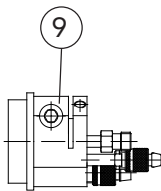
Torch sets RETZ 610 (A) REVO.torch for hollow shaft robots Spare parts and wear parts

Supply hose



Torch view

Plug view



Torch connecting set

Description	Part name	Part number
A Supply hose	DIX VLRETZ 610-__	632132004__ __
B Supply hose	DIX VLRETZ 610-_ A	632132014__ __
1 Conduit hose	DIX VLRETZ 201-__	639206009__ __
2 Gas hose	DIX VL 180-__	639186001__ __
3 Checking gas hose	DIX VLRET 242-__	639247101__ __
4 Combi cable	DIX VLRETZ 220-__	639226006__ __
5 Cover hose set	DIX VLRET 230-__	639231003__ __
6 Cover hose set	DIX VLRET 230-_ A	639231013__ __
7 Air blast hose	DIX VLRET 240-__	639246101__ __
8 Water hose	DIX VL 190-__	639196001__ __
9 REVO connection	DIX RETZ 150	639151006

_ - Enter the required length of the welding torch set only in meter, e.g.:
Standard length: 2.5', 2.9', 3.5', 4', 4.5' and 5.2' (0.78 m, 0.89 m, 1.08 m, 1.20 m, 1.40 m and 1.60 m)

All order dimensions abiding in „mm“ respectively in „m“.

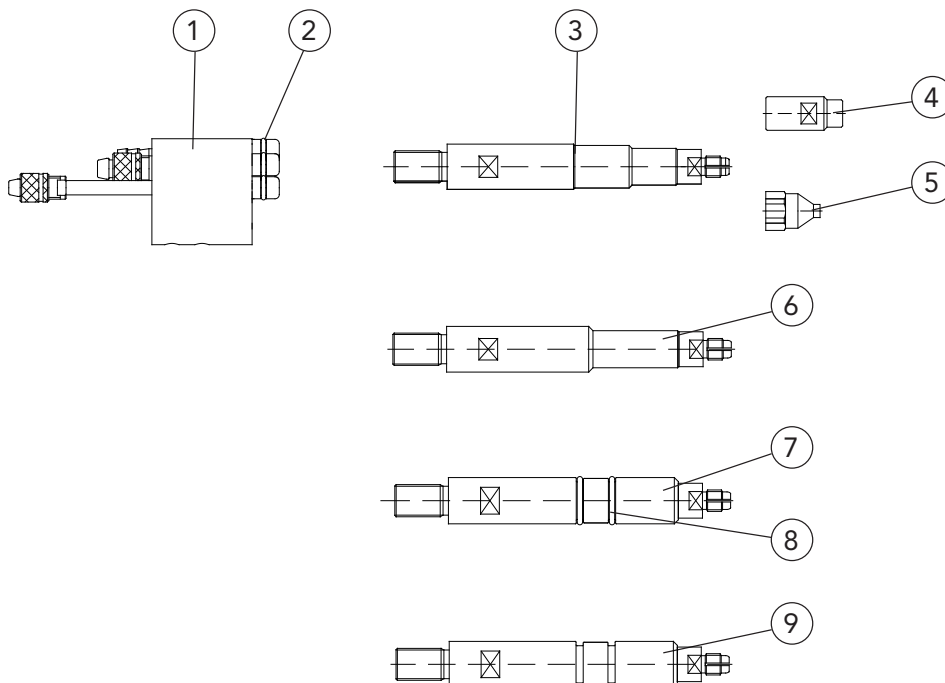
Torch sets RETZ 610 (A)

REVO.torch for hollow shaft robots

Spare parts and wear parts



Plug



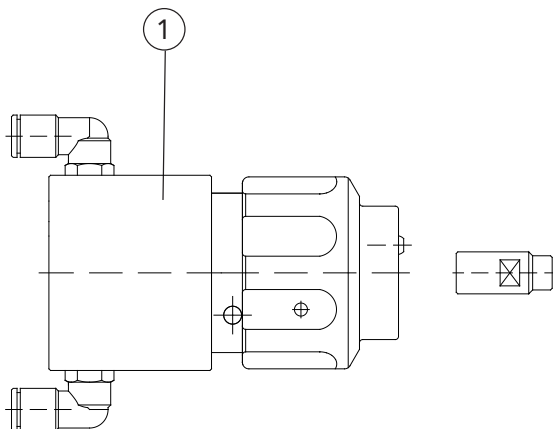
Description	Dimension	Part name	Part number
1 Plug insert		DIX RETZ 110	639112002
2 O ring (10 pcs.)			629061014
3 Connecting mandrel For Dinse torch connection		DIX READ 100	639151007
4 Guide sleeve For connection set DIX REMA 100 SAZ, substitute for Intake nozzle DIX RET 301		DIX RET 303	718200309
5 Intake nozzle		DIX RET 301	639151003
6 Connecting mandrel For Fronius torch connection		DIX READ 100/001	639151008
7 Connecting mandrel For SKS torch connection		DIX READ 100/002	639151009
8 O ring (10 pcs.)			634013005
9 Connecting mandrel For Lincoln, Miller, Motoman torch connection		DIX READ 100/006	639151010

► Other fittings on request.



Torch sets RET 310 (A), 320 / Torch sets RETZ 610 (A), 620 ECO.torch / REVO.torch for hollow shaft robots Special equipment for various wire feeder with SAZ connection

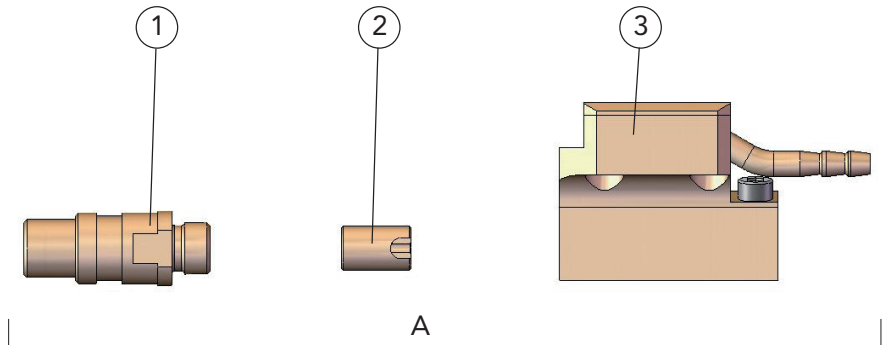
Connection set



	Description	Part name	Part number
1	Connection set (SAZ connection)	DIX REMA 100 SAZ	718231001

- ▶ More special variants on request.

Wire brake WB1



Description	Part name	Part number
A Wire brake system For wire- \varnothing .030"-.63" (0.8-1.6 mm)	DIX WB 1	629470100
1 Adapter	DIX DBA 100	62947010016
2 Guide sleeve	DIX DBF 100	62947010024
3 Wire brake unit	DIX DBE 100	62947010010