

Operating instructions : multi-purpose adapter

The AxiaBore™ Plus head can be equipped with the multi-purpose adapter (MPA) ①, Part N° BDA16BS25100, to perform large diameter fine boring ①, OD-overturning ③ and grooving ⑤.

The MPA is delivered with 2 screws ⑤ to hold the boring/OD-overturning ②, counterweight ③ or grooving tool holders ④ and ④. The plate and tools are with double serrated interfaces for diameter multi-positioning (pitch 2,5 mm on diameter). Through coolant with an adjustable nozzle [A].

1. Boring or OD-overturning

Both boring ① and OD-overturning ③ assemblies use the same tool holder ② equipped with an insert holder ⑤, and a counterweight ③.

1 Set up a boring tool

Select the appropriate insert holder ⑤ to be assembled onto the boring/OD-overturning toolholder ② using the insert holder selection chart 'Boring' (see opposite). Place the MPA in front of you, with shank upwards so to see the side with boring ① and grooving ⑤ pictograms ②; lock the toolholder with insert holder on the right hand side of the MPA (its diameter position on the scale is shown in the 'Boring' selection chart) and lock the counterweight symmetrically on the left hand side. Assemble the MPA onto the boring head, and proceed to the fine diameter adjustment.

Boring requires clockwise spindle rotation, as indicated by the pictogram

3 Set up an OD-overturning tool

Select the appropriate insert holder ⑤ to be assembled onto the boring/OD-overturning toolholder ②, using the insert holder selection chart 'OD-overturning' (see opposite page). Place the MPA in front of you, with shank upwards so to see the side with the pictogram OD-overturning ④; lock the toolholder with insert holder on the right hand side of the MPA (its diameter position is given in the 'OD-overturning' selection chart) and lock the counterweight symmetrically on the left side. Assemble the MPA onto the boring head, and proceed to the fine diameter adjustment.

OD-overturning requires counter-clockwise spindle rotation, as indicated by the pictogram

2. Grooving

5 Set up a grooving tool

A grooving assembly requires:

- a pair of grooving tool holders (one E='External' ⑦ and one I='Internal' ⑥),
- one grooving tool S='on Spigot' ⑧ or B='on Bore' ⑨,
- 'S' and 'B' type tools can be mounted both onto an 'E' or 'I' holder.

Depending on the groove width and position (along spigot / along bore), select the appropriate grooving tool, using the selection charts 'Grooving' (see opposite page):

- the groove is along a spigot wall: select a S type 'on Spigot' tool ⑧,
- the groove is along a bore wall: select a B type 'on Bore' tool ⑨,
- when there is no wall, both S type ⑧ and B type ⑨ tools are suitable.

Depending on the required diameter and work piece accessibility, assemble the grooving tool into one of the two toolholders 'I' or 'E' ('I' holder is shaped for inner tool position; 'E' for outer tool position). The tool's tapered back end [B] fits against toolholder's orienting pin [C] for cutting edge orientation. Clamp the tool with screw [D].

Place the MPA in front of you, with shank upwards so to see the side with the boring ① and grooving ⑤ pictograms ②; lock the tool holder with tool on the right hand side of the MPA (its diameter position on the scale is given in the 'Grooving' selection charts*) and lock the counterweight symmetrically on the left hand side.

(*For example: 4-E means that the grooving tool must be fitted onto the 'E' external tool holder, the toolholder been locked on position 4. When 2 combinations are indicated, the values in bold are recommended.)

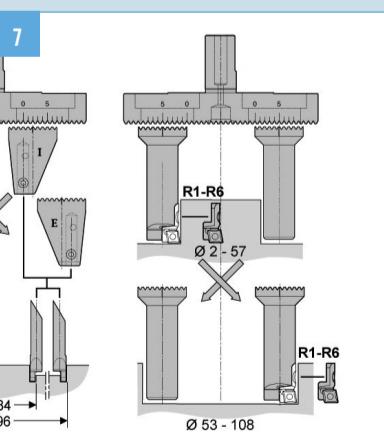
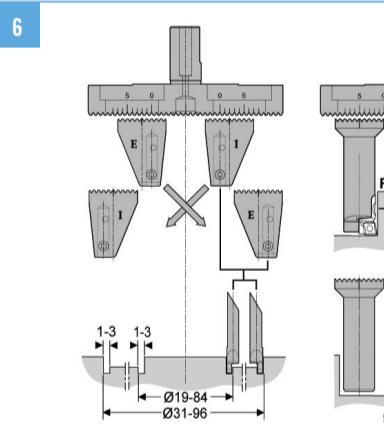
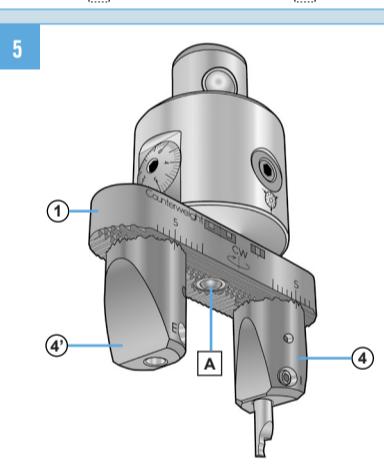
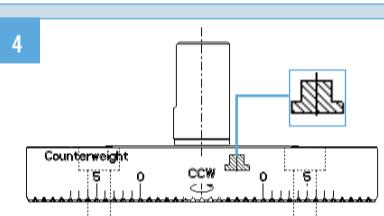
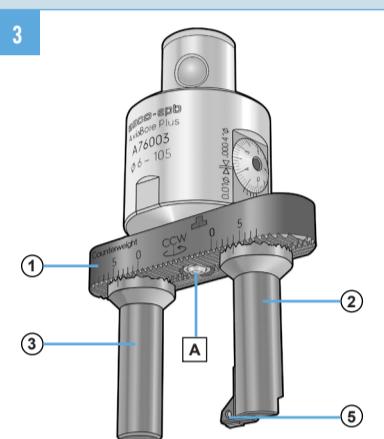
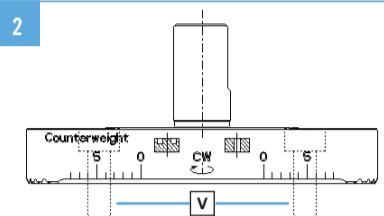
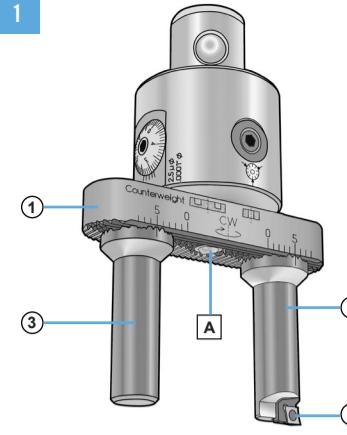
Assemble the MPA onto the boring head, and proceed to the fine diameter adjustment.

Grooving requires clockwise spindle rotation, as indicated by the pictogram

Mode d'emploi : support multitâche

La tête AxiaBore™ Plus peut être équipée du support multitâche (MPA=multi-purpose adapter) ①, Réf. BDA16BS25100, pour réaliser l'alésage de grands diamètres ①, le tourillonnage ③ et l'usinage de gorges ⑤ frontales.

Le MPA est fourni avec deux vis ⑤ pour fixer le porte-outil d'alésage/tourillonnage ② et le contre-poids ③ ou les porte-outils à gorges ④ et ④. Le MPA et les porte-outils sont dotés d'interfaces avec stries bidirectionnelles pour permettre le positionnement à plusieurs diamètres (pas de 2,5 mm au diamètre). Lubrification centrale à travers une buse orientable [A].

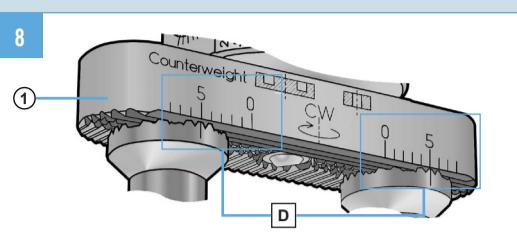


Operating instructions for the
Multi-purpose adapter (MPA)
Used on AxiaBore™ Plus fine boring head

Mode d'emploi
Support multitâche (MPA)
pour la tête à aléser finition AxiaBore™ Plus

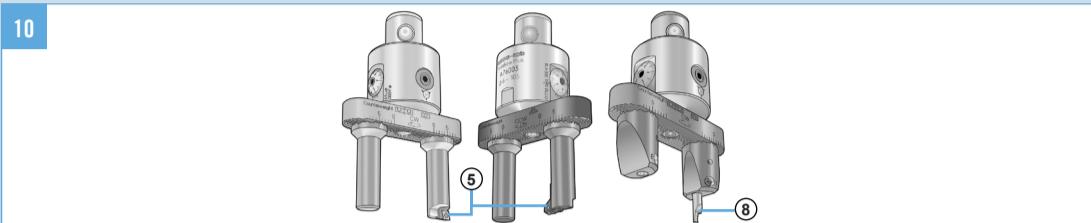
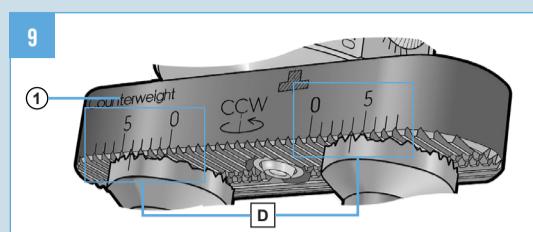
Selection chart, for the multi-purpose adapter (MPA)

Select the appropriate insert holder (5) (for boring and OD-turning) or grooving tool (8) and note the suitable shank and toolholders positions [D] on the MPA (1) to realise the required operation and diameter.



Sélection de porte-plaquettes, pour le support multitâche (MPA)

Sélectionnez le porte-plaquettes approprié (5) (pour l'alésage ou le tourillonnage) ou l'outil à gorges (8) et noter la position du porte-outil et du contre-poids [D] sur le MPA (1) pour réaliser l'opération et le diamètre souhaités.



BORING

Capacity C Ø mm*	Insert holder	Shank position
53-55,5	A765R1	0
55,5-58	A765R2	0
58-60,5	A765R1	1
	A765R3	0
60,5-63	A765R2	1
	A765R4	0
63-65,5	A765R1	2
	A765R3	1
	A765R5	0
65,5-68	A765R2	2
	A765R4	1
	A765R6	0
68-70,5	A765R1	3
	A765R3	2
	A765R5	1
70,5-73	A765R2	3
	A765R4	2
	A765R6	1
73-75,5	A765R1	4
	A765R3	3
	A765R5	2
75,5-78	A765R2	4
	A765R4	3
	A765R6	2
78-80,5	A765R1	5
	A765R3	4
	A765R5	3
80,5-83	A765R2	5
	A765R4	4
	A765R6	3
83-85,5	A765R1	6
	A765R3	5
	A765R5	4
85,5-88	A765R2	6
	A765R4	5
	A765R6	4
88-90,5	A765R1	7
	A765R3	6
	A765R5	5
90,5-93	A765R2	7
	A765R4	6
	A765R6	5
93-95,5	A765R1	8
	A765R3	7
	A765R5	6
95,5-98	A765R2	8
	A765R4	7
	A765R6	6
98-100,5	A765R3	8
	A765R5	7
100,5-103	A765R4	8
	A765R6	7
103-105,5	A765R5	8
105,5-108	A765R6	8

OD-OVERTURNING

Capacity C Ø mm*	Insert holder	Shank position
2-4,5	A765R6	0
4,5-7	A765R5	0
	A765R6	1
7-9,5	A765R4	0
	A765R5	1
9,5-12	A765R3	0
	A765R6	2
12-14,5	A765R4	1
	A765R2	0
	A765R5	2
14,5-17	A765R3	1
	A765R1	0
	A765R6	3
17-19,5	A765R4	2
	A765R2	1
	A765R5	3
19,5-22	A765R3	2
	A765R1	1
	A765R6	4
22-24,5	A765R4	3
	A765R2	2
	A765R5	4
24,5-27	A765R3	3
	A765R1	2
	A765R6	5
27-29,5	A765R4	4
	A765R2	3
	A765R5	5
29,5-32	A765R3	4
	A765R1	3
	A765R6	6
32-34,5	A765R4	5
	A765R2	4
	A765R5	6
34,5-37	A765R3	5
	A765R1	4
	A765R6	7
37-39,5	A765R4	6
	A765R2	5
	A765R5	7
39,5-42	A765R3	6
	A765R1	5
	A765R6	8
42-44,5	A765R4	7
	A765R2	6
	A765R5	8
44,5-47	A765R3	7
	A765R1	6
	A765R4	8
47-49,5	A765R2	7
	A765R3	8
	A765R1	7
49,5-52	A765R6	8
	A765R4	8
52-54,5	A765R2	8
	A765R1	8
54,5-57	A765R6	8
	A765R1	8

'ON BORE' GROOVING

Capacity C (Ø mm*)	Grove width a	Groove max depth t	'On bore' Grooving tool	Shank position
31-36	1	2		0-I
36-41	1	2		1-I
41-46	1	2		2-I
46-51	1	2		3-I
51-56	1	2		0-E / 4-I
56-61	1	2		1-E / 5-I
61-66	1	2		2-E / 6-I
66-71	1	2		3-E / 7-I
71-76	1	2		4-E / 8-I
76-81	1	2		5-E
81-86	1	2		6-E
86-91	1	2		7-E
91-96	1	2		8-E
31-36	1,5	3		0-I
36-41	1,5	3		1-I
41-46	1,5	3		2-I
46-51	1,5	3		3-I
51-56	1,5	3		0-E / 4-I
56-61	1,5	3		1-E / 5-I
61-66	1,5	3		2-E / 6-I
66-71	1,5	3		3-E / 7-I
71-76	1,5	3		4-E / 8-I
76-81	1,5	3		5-E
81-86	1,5	3		6-E
86-91	1,5	3		7-E
91-96	1,5	3		8-E
31-36	2	4		0-I
36-41	2	4		1-I
41-46	2	4		2-I
46-51	2	4		3-I
51-56	2	4		0-E / 4-I
56-61	2	4		1-E / 5-I
61-66	2	4		2-E / 6-I
66-71	2	4		3-E / 7-I
71-76	2	4		4-E / 8-I
76-81	2	4		5-E
81-86	2	4		6-E
86-91	2	4		7-E
91-96	2	4		8-E
31-36	2,5	5		0-I
36-41	2,5	5		1-I
41-46	2,5	5		2-I
46-51	2,5	5		3-I
51-56	2,5	5		0-E / 4-I
56-61	2,5	5		1-E / 5-I
61-66	2,5	5		2-E / 6-I
66-71	2,5	5		3-E / 7-I
71-76	2,5	5		4-E / 8-I
76-81	2,5	5		5-E
81-86	2,5	5		6-E
86-91	2,5	5		7-E
91-96	2,5	5		8-E
31-36	3	6		0-I
36-41	3	6		1-I
41-46	3	6		2-I
46-51	3	6		3-I
51-56	3	6		0-E / 4-I
56-61	3	6		1-E / 5-I
61-66	3	6		2-E / 6-I
66-71	3	6		3-E / 7-I
71-76	3	6		4-E / 8-I