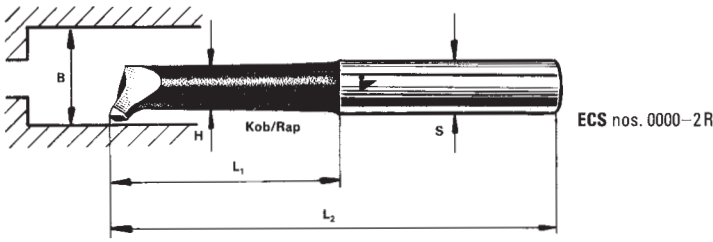


Facing and Bottoming Tools ECS of HSS-CO (Kob), HSS (Rap) and TiN-coated



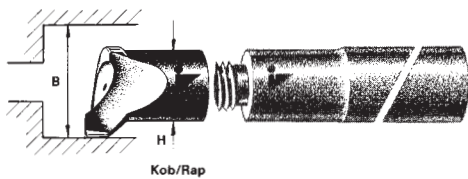
How to order (example): 10 pieces ECS-0-R-N-Rap. (Original box of 5 pieces)

For sets refer to page 21

Size ECS	Code number for righthand-side cutting  (for lefthand-side cutting: replace "R" by "L")	Availability					Recommended minimum bore  B / mm	Ø of neck H  mm	Ø S-h7 of shank  mm	Length of neck L <sub>1</sub>  mm	Total length L <sub>2</sub>  mm
		"R"			"L"						
		Kob	Rap	TiN	Kob	TiN					
0000 normal	ECS-0000-R-N...	●	●	●	●	○	3.5	2	8	20	45
0000 long	ECS-0000-R-T...	●	●	●	●	○	3.5	2	8	25	52
0000 short	ECS-0000-R-C...	●	●	●	●	○	3.5	2	8	9	35
000 normal	ECS-000-R-N...	●	●	●	●	○	4	2.5	8	23	49
000 long	ECS-000-R-T...	●	●	●	●	○	4	2.5	8	28	58
000 short	ECS-000-R-C...	●	●	●	●	○	4	2.5	8	11	38
00 normal	ECS-00-R-N...	●	●	●	●	○	5	3	8	25	52
00 long	ECS-00-R-T...	●	●	●	●	○	5	3	8	32	64
00 short	ECS-00-R-C...	●	●	●	●	○	5	3	8	13	40
0 normal	ECS-0-R-N...	●	●	●	●	○	6.5	4	8	29	56
0 long	ECS-0-R-T...	●	●	●	●	○	6.5	4	8	35	69
0 short	ECS-0-R-C...	●	●	●	●	○	6.5	4	8	16	44
0/1 normal	ECS-0/1-R-N...	●	●	●	●	○	8.5	5	8	31	60
0/1 long	ECS-0/1-R-T...	●	●	●	●	○	8.5	5	8	38	75
0/1 short	ECS-0/1-R-C...	●	●	●	●	○	8.5	5	8	19	48
1 normal	ECS-1-R-N...	●	●	●	●	○	10	6	8	33	65
1 long	ECS-1-R-T...	●	●	●	●	○	10	6	8	41	82
1 short	ECS-1-R-C...	●	●	●	●	○	10	6	8	23	53
2 normal	ECS-2-R-N...	●	●	●	●	○	13	8	8	—	72
2 long	ECS-2-R-T...	●	●	●	●	○	13	8	8	—	100

▲ Please indicate here the alloy required

Tools for smaller bores and of different dimensions of shank on page 12.



Heads: ECS nos. 3-12 R  
Shanks: see page 12



How to order (example): 10 pieces ECS-8-R-Kob. (Original box of 5 pieces)

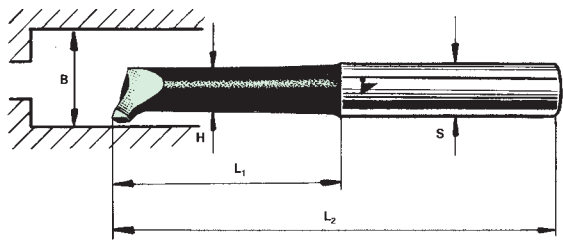
Size ECS	Code number for righthand-side cutting  (for lefthand-side cutting: replace "R" by "L")	Availability					Recommended minimum bore  B/mm	Ø of neck H  mm	Thread
		"R"			"L"				
		Kob	Rap	TiN	Kob	TiN			
3	ECS-3-R...	●	●	●	●	○	17	10	M6
4	ECS-4-R...	●	●	●	●	○	21	12	M8
5	ECS-5-R...	●	●	●	●	○	24	14	M10×20TPI
6	ECS-6-R...	●	●	●	●	○	28	16.3	M12×20TPI
7	ECS-7-R...	●	●	●	●	○	31	18.3	M14×20TPI
8	ECS-8-R...	●	●	●	●	○	34	20	M15×20TPI
9	ECS-9-R...	●	●	●	●	○	37	22	M15×20TPI
10	ECS-10-R...	●	●	●	●	○	42	25	M18×20TPI
11	ECS-11-R...	●	●	○	●	○	50	30	M21×14TPI
12	ECS-12-R...	●	●	○	●	○	60	35	M25×14TPI

▲ Please indicate here the alloy required

Availability: ● ex stock / ○ within short notice



### Facing and Bottoming Tools ECS with Carbide Tips



ECS nos. 0000-000R



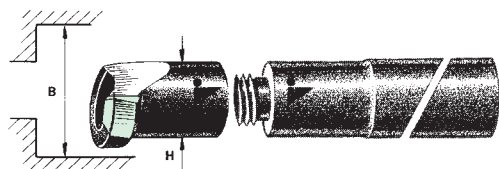
ECS nos. 00-2R

How to order (example): 5 pieces ECS-2-R-N-P30

Size ECS	Code number for righthand-side cutting (for lefthand-side cutting: replace "R" by "L")	Availability						Recommended minimum bore B / mm	Ø of neck H mm	Ø S-h7 of shank mm	Length of neck L <sub>1</sub> mm	Total length L <sub>2</sub> mm
		"R"			"L"							
		K10	P10	P30	K10	P10	P30					
0000	ECS-0000-R-N-HM	●			●			3.2	2	8	20	45
000	ECS-000-R-N-HM	●			●			4	2.5	8	23	49
00	ECS-00-R-N-HM	●			●			5	3	8	25	64
0	ECS-0-R-N-HM	●			●			6.5	4	8	29	69
0/1	ECS-0/1-R-N-HM	●			●			8.5	5	8	30	75
1	ECS-1-R-N-...	●	●	●	●	●	●	10	6	8	33	82
2 normal	ECS-2-R-N-...	●	●	●	●	●	●	13	8	8	—	72
2 long	ECS-2-R-T-...	●	●	●	●	●	●	13	8	10	37	100

▲ Please indicate here the grade of carbide required

Tools for smaller bores and of different dimensions of shank on page 12.



Heads: ECS nos. 3-12 R

Shanks: see page 12

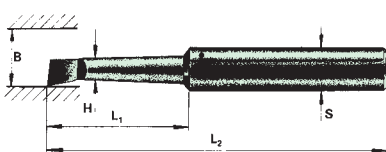
How to order (example): 5 pieces ECS-6-R-K10

Size ECS	Code number for righthand-side cutting (for lefthand-side cutting: replace "R" by "L")	Availability						Recommended minimum bore B / mm	Ø of neck H mm	Thread
		"R"			"L"					
		K10	P10	P30	K10	P10	P30			
3	ECS-3-R-...	●	●	●	●	●	●	17	10	M6
4	ECS-4-R-...	●	●	●	●	●	●	21	12	M8
5	ECS-5-R-...	●	●	●	●	●	●	24	14	M10×20 TPI
6	ECS-6-R-...	●	●	●	●	●	●	28	16.3	M12×20 TPI
7	ECS-7-R-...	●	●	●	●	●	●	31	18.3	M14×20 TPI
8	ECS-8-R-...	●	●	●	●	●	●	34	20	M15×20 TPI
9	ECS-9-R-...	●	●	●	●	●	●	37	22	M15×20 TPI
10	ECS-10-R-...	●	●	●	●	●	●	42	25	M18×20 TPI
11	ECS-11-R-...	●	●	●	●	●	●	50	30	M21×14 TPI
12	ECS-12-R-...	●	●	●	●	●	●	60	35	M25×14 TPI

▲ Please indicate here the grade of carbide required

### Boring Bars MDK of Solid Carbide

MDK



How to order (example): 10 pieces MDK-4/0.8-HM

Size MDK	Code number	Availability	Ø S-h7 of shank mm	Ø of neck H mm	Recomm. minimum bore B / mm	Length of neck L <sub>1</sub> mm	Total length L <sub>2</sub> mm
		Carbide					
4/0.8	MDK-4/0.8-HM	●	4	0.8	1	5	30
4/1	MDK-4/1-HM	●	4	1	1.2	7	30
4/1.2	MDK-4/1.2-HM	●	4	1.2	1.5	8	30
4/1.5	MDK-4/1.5-HM	●	4	1.5	1.8	9	30
4/2	MDK-4/2-HM	●	4	2	2.5	12	30
4/2.5	MDK-4/2.5-HM	●	4	2.5	3.2	12	30

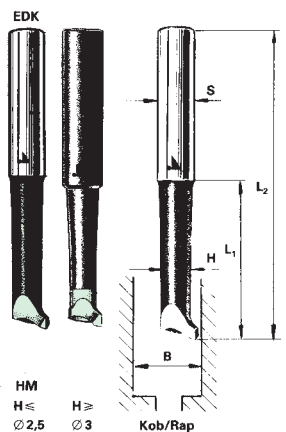
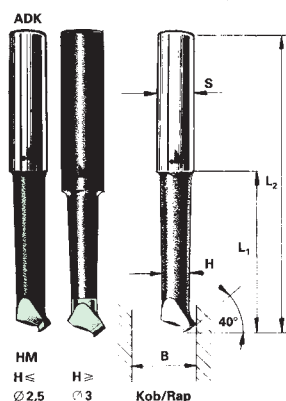
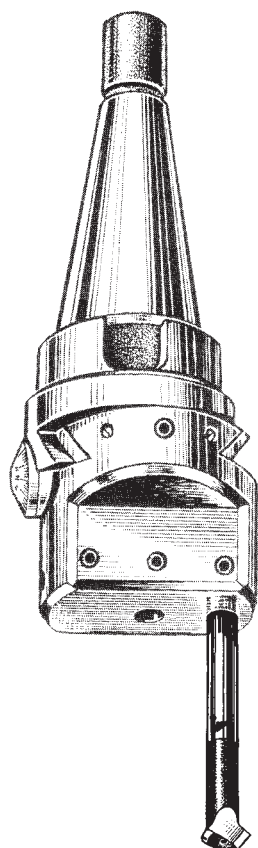
More tools for use on boring heads on page 13.

Availability: ● ex stock

**Boring Bars ADK and Bottoming/Facing Bars EDK of HSS-CO (Kob), HSS (Rap), TiN-coated and with Carbide Tips for Use on Boring Heads**

How to order (example): 10 pieces ADK-6/3-R-Rap.

For sets refer to page 21



Size ADK or EDK	Code number for righthand-side cutting ADK	Availability ADK-...-R-...					Code number for righthand-side cutting EDK	Availability EDK-...-R-...					Ø S-h7 of shank mm	Ø of neck H mm	Recomm. minimum bore B / mm	Length of neck L <sub>1</sub> mm	Total length L <sub>2</sub> mm
		Kob	Rap	TiN	K10	P30		Kob	Rap	TiN	K10	P30					
4/1	ADK-4/1-R...	●	●	○	●		EDK-4/1-R...	●	●	○	●		4	1	1.5	8	32
4/1.2	ADK-4/1.2-R...	●	●	○	●		EDK-4/1.2-R...	●	●	○	●		4	1.2	2	12	35
4/1.5	ADK-4/1.5-R...	●	●	○	●		EDK-4/1.5-R...	●	●	○	●		4	1.5	2.5	12	36
4/2	ADK-4/2-R...	●	●	○	●		EDK-4/2-R...	●	●	○	●		4	2	3.5	15	38
4/2.5	ADK-4/2.5-R...	●	●	○	●		EDK-4/2.5-R...	●	●	○	●		4	2.5	4	16	39
4/3	ADK-4/3-R...	●	●	○	●		EDK-4/3-R...	●	●	○	●		4	3	5	17	40
4/4	ADK-4/4-R...	●	●	○	●		EDK-4/4-R...	●	●	○	●		4	4	6.5	—	40
6/2	ADK-6/2-R...	●	●	○	●		EDK-6/2-R...	●	●	○	●		6	2	3.5	20	45
6/2.5	ADK-6/2.5-R...	●	●	○	●		EDK-6/2.5-R...	●	●	○	●		6	2.5	4	23	49
6/3	ADK-6/3-R...	●	●	○	●		EDK-6/3-R...	●	●	○	●		6	3	5	24	50
6/4	ADK-6/4-R...	●	●	○	●		EDK-6/4-R...	●	●	○	●		6	4	6.5	26	52
6/5	ADK-6/5-R...	●	●	○	●		EDK-6/5-R...	●	●	○	●		6	5	8.5	28	54
6/6	ADK-6/6-R...	●	●	○	●	●	EDK-6/6-R...	●	●	○	●	●	6	6	10	—	56
8/2	ADK-8/2-R...	●	●	○	●		EDK-8/2-R...	●	●	○	●		8	2	3.5	20	45
	ADK-8/2-R-T...	●	●	○	●		EDK-8/2-R-T...	●	●	○	●		8	2	3.5	25	52
8/2.5	ADK-8/2.5-R...	●	●	○	●		EDK-8/2.5-R...	●	●	○	●		8	2.5	4	23	49
	ADK-8/2.5-R-T...	●	●	○	●		EDK-8/2.5-R-T...	●	●	○	●		8	2.5	4	28	58
8/3	ADK-8/3-R...	●	●	○	●		EDK-8/3-R...	●	●	○	●		8	3	5	25	52
	ADK-8/3-R-T...	●	●	○	●		EDK-8/3-R-T...	●	●	○	●		8	3	5	32	64
8/4	ADK-8/4-R...	●	●	○	●		EDK-8/4-R...	●	●	○	●		8	4	6.5	29	56
	ADK-8/4-R-T...	●	●	○	●		EDK-8/4-R-T...	●	●	○	●		8	4	6.5	35	69
8/5	ADK-8/5-R...	●	●	○	●		EDK-8/5-R...	●	●	○	●		8	5	8.5	31	60
	ADK-8/5-R-T...	●	●	○	●		EDK-8/5-R-T...	●	●	○	●		8	5	8.5	38	75
8/6	ADK-8/6-R...	●	●	○	●	●	EDK-8/6-R...	●	●	○	●	●	8	6	10	33	65
	ADK-8/6-R-T...	●	●	○	●	●	EDK-8/6-R-T...	●	●	○	●	●	8	6	10	41	82
8/7	ADK-8/7-R...	●	●	○	●	●	EDK-8/7-R...	●	●	○	●	●	8	7	11.5	34	68
	ADK-8/7-R-T...	●	●	○	●	●	EDK-8/7-R-T...	●	●	○	●	●	8	7	11.5	45	90
8/8	ADK-8/8-R...	●	●	○	●	●	EDK-8/8-R...	●	●	○	●	●	8	8	13	—	72
	ADK-8/8-R-T...	●	●	○	●	●	EDK-8/8-R-T...	●	●	○	●	●	8	8	13	—	100
10/2	ADK-10/2-R...	●	●	○	●		EDK-10/2-R...	●	●	○	●	●	10	2	3.5	20	46
	ADK-10/2-R-T...	●	●	○	●		EDK-10/2-R-T...	●	●	○	●	●	10	2	3.5	25	53
10/2.5	ADK-10/2.5-R...	●	●	○	●		EDK-10/2.5-R...	●	●	○	●		10	2.5	4	23	51
	ADK-10/2.5-R-T...	●	●	○	●		EDK-10/2.5-R-T...	●	●	○	●		10	2.5	4	28	59
10/3	ADK-10/3-R...	●	●	○	●		EDK-10/3-R...	●	●	○	●		10	3	5	25	52
	ADK-10/3-R-T...	●	●	○	●		EDK-10/3-R-T...	●	●	○	●		10	3	5	32	64
10/4	ADK-10/4-R...	●	●	○	●		EDK-10/4-R...	●	●	○	●		10	4	6.5	28	56
	ADK-10/4-R-T...	●	●	○	●		EDK-10/4-R-T...	●	●	○	●		10	4	6.5	35	69
10/5	ADK-10/5-R...	●	●	○	●		EDK-10/5-R...	●	●	○	●		10	5	8.5	31	60
	ADK-10/5-R-T...	●	●	○	●		EDK-10/5-R-T...	●	●	○	●		10	5	8.5	38	75
10/6	ADK-10/6-R...	●	●	○	●	●	EDK-10/6-R...	●	●	○	●	●	10	6	10	34	64
	ADK-10/6-R-T...	●	●	○	●	●	EDK-10/6-R-T...	●	●	○	●	●	10	6	10	41	82
10/7	ADK-10/7-R...	●	●	○	●	●	EDK-10/7-R...	●	●	○	●	●	10	7	11.5	37	68
	ADK-10/7-R-T...	●	●	○	●	●	EDK-10/7-R-T...	●	●	○	●	●	10	7	11.5	45	90
10/8	ADK-10/8-R...	●	●	○	●	●	EDK-10/8-R...	●	●	○	●	●	10	8	13	40	72
	ADK-10/8-R-T...	●	●	○	●	●	EDK-10/8-R-T...	●	●	○	●	●	10	8	13	51	100
10/9	ADK-10/9-R...	●	●	○	●	●	EDK-10/9-R...	●	●	○	●	●	10	9	15	43	76
	ADK-10/9-R-T...	●	●	○	●	●	EDK-10/9-R-T...	●	●	○	●	●	10	9	15	—	140
12/2.5	ADK-12/2.5-R...	●	●	○	●		EDK-12/2.5-R...	●	●	○	●		12	2.5	4	23	52
	ADK-12/2.5-R-T...	●	●	○	●		EDK-12/2.5-R-T...	●	●	○	●		12	2.5	4	28	60
12/3	ADK-12/3-R...	●	●	○	●		EDK-12/3-R...	●	●	○	●		12	3	5	25	55
	ADK-12/3-R-T...	●	●	○	●		EDK-12/3-R-T...	●	●	○	●		12	3	5	34	70
12/4	ADK-12/4-R...	●	●	○	●		EDK-12/4-R...	●	●	○	●		12	4	6.5	28	60
	ADK-12/4-R-T...	●	●	○	●		EDK-12/4-R-T...	●	●	○	●		12	4	6.5	37	76
12/5	ADK-12/5-R...	●	●	○	●		EDK-12/5-R...	●	●	○	●		12	5	8.5	31	65
	ADK-12/5-R-T...	●	●	○	●		EDK-12/5-R-T...	●	●	○	●		12	5	8.5	41	83
12/6	ADK-12/6-R...	●	●	○	●	●	EDK-12/6-R...	●	●	○	●	●	12	6	10	34	70
	ADK-12/6-R-T...	●	●	○	●	●	EDK-12/6-R-T...	●	●	○	●	●	12	6	10	45	90
12/7	ADK-12/7-R...	●	●	○	●	●	EDK-12/7-R...	●	●	○	●	●	12	7	11.5	37	75
	ADK-12/7-R-T...	●	●	○	●	●	EDK-12/7-R-T...	●	●	○	●	●	12	7	11.5	50	98
12/8	ADK-12/8-R...	●	●	○	●	●	EDK-12/8-R...	●	●	○	●	●	12	8	13	40	80
	ADK-12/8-R-T...	●	●	○	●	●	EDK-12/8-R-T...	●	●	○	●	●	12	8	13	56	108
12/9	ADK-12/9-R...	●	●	○	●	●	EDK-12/9-R...	●	●	○	●	●	12	9	15	43	85
	ADK-12/9-R-T...	●	●	○	●	●	EDK-12/9-R-T...	●	●	○	●	●	12	9	15	64	120

▲ Please indicate here alloy or grade required ▲

Larger boring tools: Heads ADK/ECS pages 8-11  
Shanks SDK page 12  
Different boring tools: MDK page 11

Availability: ● ex stock / ○ within short notice