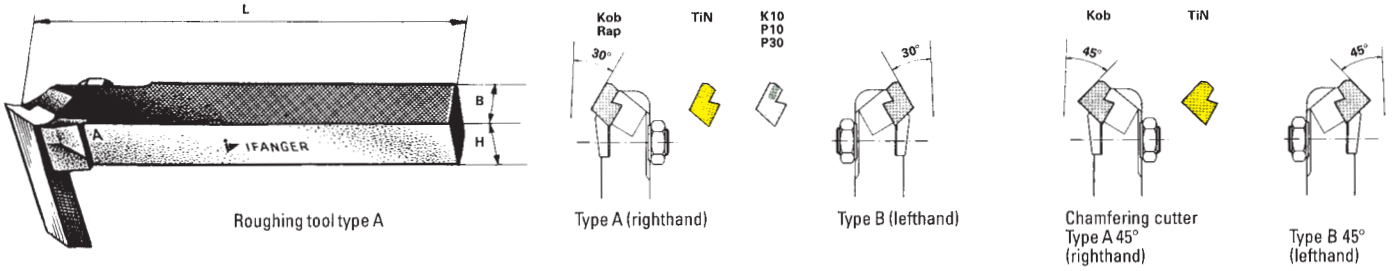


Roughing Tools A and B of HSS-CO (Kob), HSS (Rap), TiN-coated and with Carbide Tips Chamfering Cutters of HSS-CO (Kob) and TiN-coated



How to order (example): 5 pieces 3-A-45-Kob.

Size	For height of centers above tool rest mm		Measurements H×B×L mm	Holder Code number	Availability	Length mm	Code number	Cutter Availability						Chamfering cutter Code number		Availability	
	normal	relieved						Kob	Rap	TiN	K10	P10	P30	Kob	TiN		
Type A																	
1/12	12		10×10×120	1/12-AH	●	40	1-A-...	●	●	●	●	●	●	1-A-45-...	●	●	
1	16	15-12*	14×13×120	1-AH	●	40	1-A-...	●	●	●	●	●	●	1-A-45-...	●	●	
2	20	19-16*	18×16×140	2-AH	●	50	2-A-...	●	●	●	●	●	●	2-A-45-...	●	●	
3	25	24-20*	23×19×160	3-AH	●	60	3-A-...	●	●	●	●	●	●	3-A-45-...	●	●	
4	30	29-25*	28×22×180	4-AH	●	70	4-A-...	●	●	●	●	●	●	4-A-45-...	●	●	
5	36	35-30*	34×28×200	5-AH	●	80	5-A-...	●	○	●	●	●	—	—			
6	45	44-36*	42×32×225	6-AH	●	90	6-A-...	●	○	●	●	●	—	—			
Type B																	
1/12	12		10×10×120	1/12-BH	●	40	1-B-...	●	●	●	●	●	●	1-B-45-...	●	●	
1	16	15-12*	14×13×120	1-BH	●	40	1-B-...	●	●	●	●	●	●	1-B-45-...	●	●	
2	20	19-16*	18×16×140	2-BH	●	50	2-B-...	●	●	●	●	●	●	2-B-45-...	●	●	
3	25	24-20*	23×19×160	3-BH	●	60	3-B-...	●	●	●	●	●	●	3-B-45-...	●	●	
4	30	29-25*	28×22×180	4-BH	●	70	4-B-...	●	●	●	●	●	●	4-B-45-...	●	●	
5	36	35-30*	34×28×200	5-BH	●	80	5-B-...	●	○	●	●	●	—	—			
6	45	44-36*	42×32×225	6-BH	●	90	6-B-...	●	○	●	●	●	—	—			

▲ Please indicate here the alloy or grade of carbide required ▲

* When requiring intermediate measures, please indicate height of center or of shank (quick change tool posts), e.g. 2-AH-h-center 18 or 2-AH-h-shank 16.

Semi-Inclined Roughing Tools X and Y of HSS-CO (Kob), HSS (Rap), TiN-coated and with Carbide Tips



How to order (example): 10 pieces 3-X-P30

Size	For height of centers above tool rest mm		Measurements of holders H×B×L mm	Holder		Type X Cutter						Holder		Type Y Cutter									
	normal	relieved		Code number	Availability	Length mm	Code number	Kob	Rap	TiN	K10	P10	P30	Code number	Availability	Length mm	Code number	Kob	Rap	TiN	K10	P10	P30
1/12	12		10×10×120	1/12-XH	●	40	1-X-...	●	●	○	●	●	●	1/12-YH	●	40	1-Y-...	●	●	○	●	●	●
1	16	15-12*	14×13×120	1-XH	●	40	1-X-...	●	●	○	●	●	●	1-YH	●	40	1-Y-...	●	●	○	●	●	●
2	20	19-16*	18×16×140	2-XH	●	50	2-X-...	●	●	○	●	●	●	2-YH	●	50	2-Y-...	●	●	○	●	●	●
3	25	24-20*	23×19×160	3-XH	●	60	3-X-...	●	●	○	●	●	●	3-YH	●	60	3-Y-...	●	●	○	●	●	●
4	30	29-25*	28×22×180	4-XH	●	70	4-X-...	●	●	○	●	●	●	4-YH	●	70	4-Y-...	●	●	○	●	●	●
5	36	35-30*	34×28×200	5-XH	●	80	5-X-...	●	●	○	●	●	●	5-YH	●	80	5-Y-...	●	●	○	●	●	●

▲ Please indicate here the alloy or grade of carbide required ▲

* When requiring intermediate measures, please indicate height of center or of shank (quick change tool posts), e.g. 1-XH-h-center 13 or 1-XH-h-shank 11.

Availability: ● ex stock / ○ within short notice