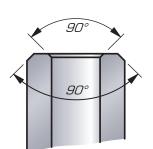
Inner / Outer Devices

Simultaneously chamfers

KOPAL TUBE



the Inside and Outside of tube ends



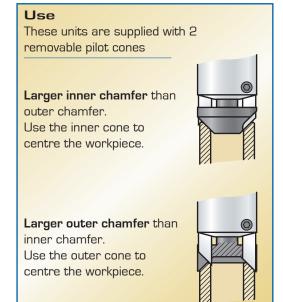


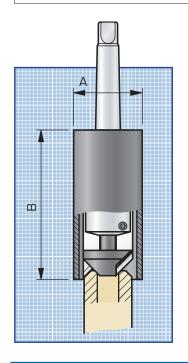
KOPAL TUBE Devices

Without cutting blade 👍

Standard pilot

Tube di Inner	ameter Outer	Model	Attach.	А	В	90° Ref.
12 to 24	14 to 24	К 1	Ø 12.7	Ø 46	90	04-060
12 00 24	14 10 24	KI	CM 2	<i>b</i> 40	30	04-050
15 to 97	18 to 30	К 2	Ø 12.7	Ø 58	105	04-080
13 66 27	10 10 50	ΝE	CM 2		100	04-070
20 +2 20	24 to 36	К3	Ø 12.7	Ø61	110	04-100
20 10 30	24 W 30	K 3	CM 2		110	04-090
29 to 40	34 to 45	К4	Ø 12.7	Ø 67	112	04-120
		Ν4	CM 2		112	04-110
40 to 48	46 to 56	K 5	Ø 12.7	Ø 82	120	04-140
		40 10 30	KO	CM 2	ט סב	120



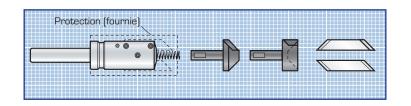


HSS Blades 14° and 20° cutting angles



The blades can be adjusted independently so the chamfers can therefore have different values.

The HSS blades are sharpened with cutting angles of: 14° and 20°, to be specified on ordering.



Inner / Outer Devices

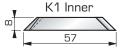
Cutting blades

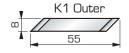
O HSS blade - O° to 25° for most usual materials

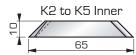


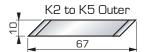
Blade for KOPAL Tube

14° cutting angle for devices :	Inner HS	Outer SS
K 1	04-300	04-310
K 2 to K 5s	04-320	04-330
20° cutting angle for device :	Inner HS	Outer SS









Recommended cutting speed between 10 and 20 m/min. exemple: ∅ 10 mm 320 to 640 rpm ∅ 15 mm 210 to 420 rpm ∅ 20 mm 160 to 320 rpm ∅ 30 mm 110 to 220 rpm ∅ 40 mm 80 to 160 rpm ∅ 60 mm 55 to 110 rpm Rpm = cutting speed x 1000 Diameter x 3.14

Lubricate with cutting fluid or soluble oil to ensure long life for the blade's cutting edge and slow down erosion of the pilot cone.

Material	Brass Bronze Cast iron Heat-resistant stainless steel		Soft steel Copper AU 4 G Plastic Stainless stee	Aluminium Soft iron Sheet metal
Cutting angle	0° HSS Carbure	14° HSS	20° HSS	25° HSS