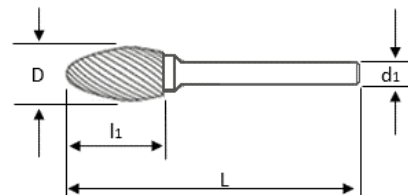
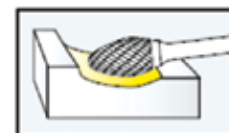


- Indicado para uso em materiais ferrosos e não ferrosos
- Composição: Haste em aço carbono e corte em metal duro  
Exceto as marcas com (\*) ao lado do código que são fabricadas em metal duro inteiriço
- Origem: China
- Prazo de validade: Indeterminado
- Embalagem: Tubo plástico
- Verifique recomendações de uso página 191
- Verifique tabela de similaridade páginas 178 a 184
- Utilize EPI

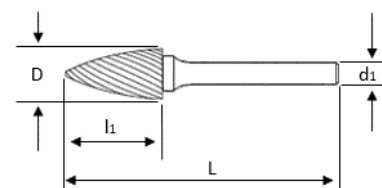
## ÁRVORE ARREDONDADA



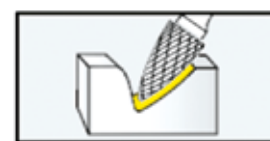
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22794 *	1	200	0,004
6,00	13	3	45	18795	1	200	0,004
6,00	19	6	50	18792	1	200	0,011
8,00	19	6	65	24969	1	200	0,015
10,00	19	6	65	22788	1	200	0,016
12,00	19	6	65	22790	1	100	0,020
12,00	25	6	70	21395	1	100	0,023
16,00	25	6	70	22793	1	100	0,036



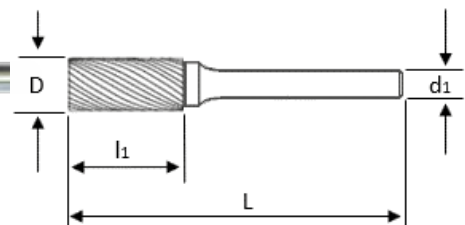
## ÁRVORE PONTIAGUDA



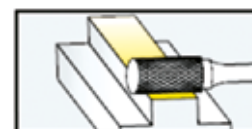
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	10	3	38	22779 *	1	200	0,004
6,00	13	3	45	18796	1	200	0,005
6,00	16	6	50	22783	1	200	0,010
8,00	19	6	65	22785	1	200	0,013
10,00	19	6	65	22776	1	200	0,015
12,00	19	6	65	18799	1	100	0,019



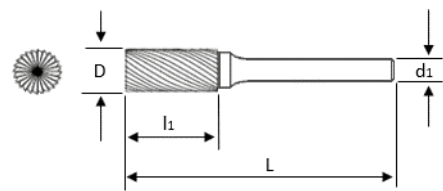
## CILÍNDRICA



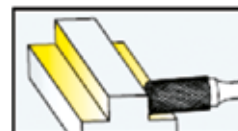
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18745 *	1	200	0,004
4,00	16	6	50	22708	1	200	0,010
6,00	13	3	45	22710	1	200	0,005
6,00	19	6	50	18747 *	1	200	0,015
6,00	25	6	50	18750 *	1	200	0,015
8,00	19	6	65	18751	1	200	0,017
10,00	19	6	65	18754	1	100	0,021
10,00	25	6	70	22691	1	100	0,024
12,00	19	6	65	22702	1	100	0,026
12,00	25	6	70	22703	1	100	0,030
16,00	25	6	70	18757	1	100	0,044



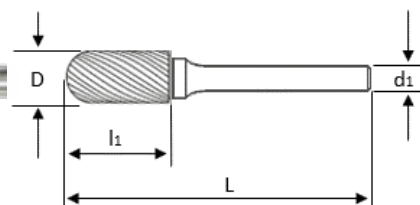
**CILÍNDRICA C/ CORTE NO TOPO**



D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22679 *	1	200	0,004
3,00	13	3	50	22681 *	1	200	0,005
6,00	13	3	45	22684	1	200	0,005
6,00	19	6	50	22687 *	1	200	0,014
6,00	19	6	75	18760 *	1	200	0,019
6,00	25	6	50	18761 *	1	200	0,014
8,00	19	6	65	18762	1	200	0,017
10,00	19	6	65	24085	1	100	0,021
10,00	25	6	70	22651	1	100	0,025
12,00	19	6	65	22673	1	100	0,026
12,00	25	6	70	22674	1	100	0,030
16,00	25	8	70	22677	1	100	0,050



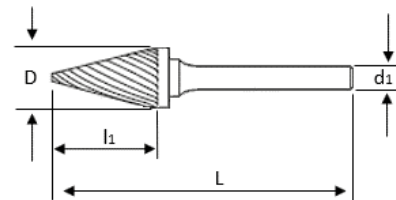
**CILÍNDRICA C/ TOPO ESFÉRICO**



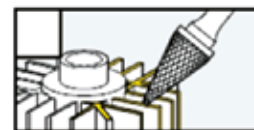
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18766 *	1	200	0,004
3,00	13	3	50	22722 *	1	200	0,004
6,00	13	3	45	22729	1	200	0,005
6,00	19	6	50	18768 *	1	200	0,015
6,00	25	6	50	22731 *	1	200	0,014
8,00	19	6	65	18770	1	200	0,017
10,00	19	6	65	18771	1	100	0,019
10,00	25	6	70	22714	1	100	0,023
12,00	19	6	65	22717	1	100	0,024
12,00	25	6	70	22720	1	100	0,027



**CÔNICA**



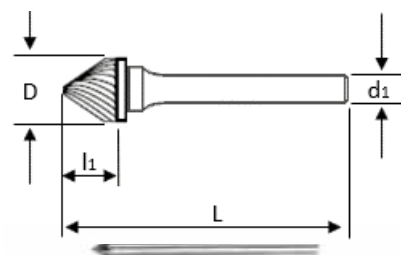
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	11	3	38	22628 *	1	200	0,004
6,00	13	3	45	22630	1	200	0,004
6,00	19	6	50	18808 *	1	200	0,013
6,00	25	6	50	22634 *	1	200	0,012
10,00	16	6	65	22623	1	200	0,013
12,00	19	6	65	22624	1	100	0,015
16,00	22	6	73	22626	1	100	0,023



## CÔNICA 60°



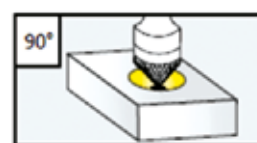
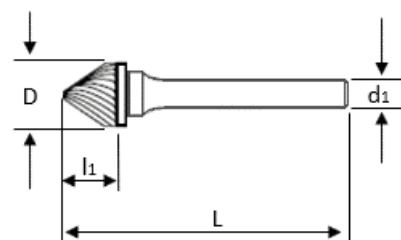
D (mm)	C. Corte l <sub>i</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	4	6	50	22600	1	200	0,010
10,00	8	6	55	22594	1	200	0,014
12,00	11	6	60	22596	1	100	0,017
16,00	14,5	6	70	22598	1	100	0,025



## CÔNICA 90°



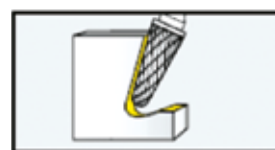
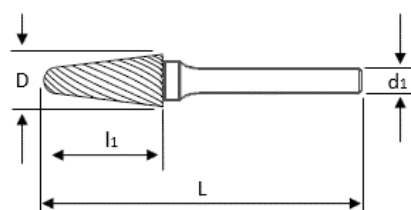
D (mm)	C. Corte l <sub>i</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	1,5	3	38	22605 *	1	200	0,004
6,00	3	6	50	22609	1	200	0,010
10,00	5	6	55	22601	1	200	0,015
12,00	6	6	54	18804	1	100	0,016
16,00	8	6	60	22603	1	100	0,023



## CÔNICA COM RAIO



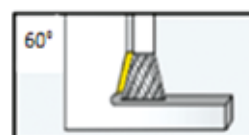
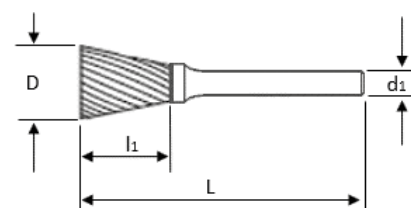
D (mm)	C. Corte l <sub>i</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	9,5	3	38	22645 *	1	200	0,004
6,00	19	6	50	22648 *	1	200	0,013
10,00	19	6	65	22636	1	200	0,017
10,00	27	6	75	22639	1	200	0,017
12,00	28	6	75	22640	1	100	0,022
12,00	28	6	70	24086	1	100	0,022
16,00	33	8	78	22643	1	100	0,036



## CÔNICA INVERTIDA



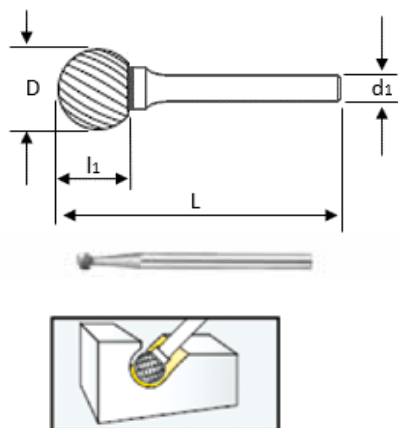
D (mm)	C. Corte l <sub>i</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	7	3	38	22756 *	1	200	0,004
6,00	7	6	50	18811	1	200	0,011
9,50	9,5	6	53	22760	1	200	0,014
12,00	13	6	58	22752	1	100	0,017
16,00	19	6	63	18812	1	100	0,027



### ESFÉRICA



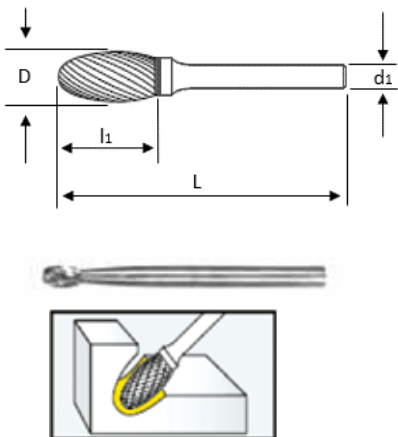
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	2,5	6	50	22587	1	200	0,001
4,00	3,6	3	45	22589	1	200	0,004
6,00	5,4	3	38	18774	1	200	0,003
6,00	5,4	6	50	22592	1	200	0,011
8,00	7,2	6	52	18777	1	200	0,011
10,00	9	6	53	18779	1	200	0,013
12,00	10,8	6	55	22583	1	100	0,015
16,00	14,4	8	60	22585	1	100	0,034



### OVAL



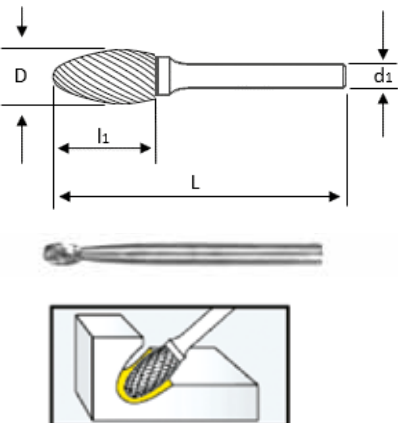
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	18783 *	1	200	0,004
6,00	10	6	50	22771	1	200	0,010
8,00	13	6	58	22773	1	200	0,013
10,00	16	6	60	18785	1	200	0,015
12,00	22	6	67	22764	1	100	0,021
16,00	25	6	70	22767	1	100	0,038



### LABAREDA

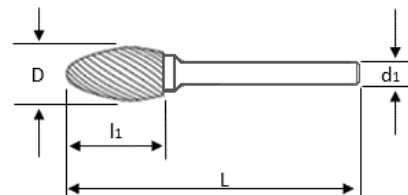


D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	8	3	38	22743 *	1	200	0,004
6,00	14	6	50	22747 *	1	200	0,015
8,00	19	6	65	22748	1	200	0,016
10,00	19	6	65	22735	1	200	0,017
12,00	32	6	77	22738	1	100	0,029
16,00	36	6	80	22741	1	100	0,047

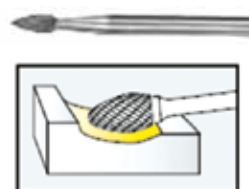


- Indicado para uso em materiais ferrosos e não ferrosos
- Composição: Haste em aço carbono e corte em metal duro  
Exceto as marcas com (\*) ao lado do código que são fabricadas em metal duro inteiriço
- Origem: China
- Prazo de validade: Indeterminado
- Embalagem: Tubo plástico
- Verifique recomendações de uso página 191
- Verifique tabela de similaridade páginas 178 a 184
- Utilize EPI

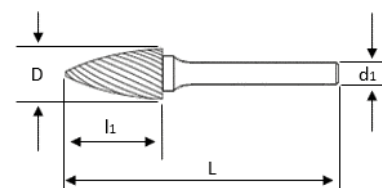
## ÁRVORE ARREDONDADA



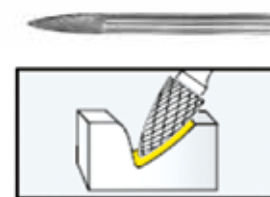
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22794 *	1	200	0,004
6,00	13	3	45	18795	1	200	0,004
6,00	19	6	50	18792	1	200	0,011
8,00	19	6	65	24969	1	200	0,015
10,00	19	6	65	22788	1	200	0,016
12,00	19	6	65	22790	1	100	0,020
12,00	25	6	70	21395	1	100	0,023
16,00	25	6	70	22793	1	100	0,036



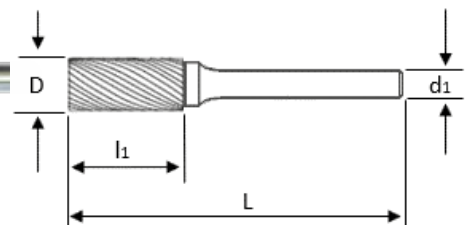
## ÁRVORE PONTIAGUDA



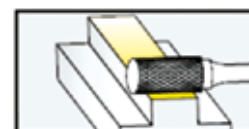
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	10	3	38	22779 *	1	200	0,004
6,00	13	3	45	18796	1	200	0,005
6,00	16	6	50	22783	1	200	0,010
8,00	19	6	65	22785	1	200	0,013
10,00	19	6	65	22776	1	200	0,015
12,00	19	6	65	18799	1	100	0,019



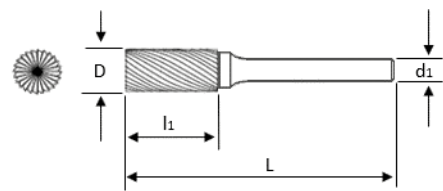
## CILÍNDRICA



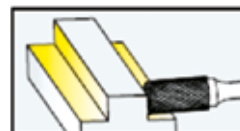
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18745 *	1	200	0,004
4,00	16	6	50	22708	1	200	0,010
6,00	13	3	45	22710	1	200	0,005
6,00	19	6	50	18747 *	1	200	0,015
6,00	25	6	50	18750 *	1	200	0,015
8,00	19	6	65	18751	1	200	0,017
10,00	19	6	65	18754	1	100	0,021
10,00	25	6	70	22691	1	100	0,024
12,00	19	6	65	22702	1	100	0,026
12,00	25	6	70	22703	1	100	0,030
16,00	25	6	70	18757	1	100	0,044



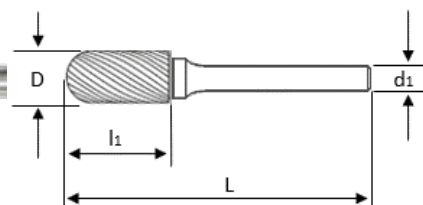
### CILÍNDRICA C/ CORTE NO TOPO



D (mm)	C. Corte l1 (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22679 *	1	200	0,004
3,00	13	3	50	22681 *	1	200	0,005
6,00	13	3	45	22684	1	200	0,005
6,00	19	6	50	22687 *	1	200	0,014
6,00	19	6	75	18760 *	1	200	0,019
6,00	25	6	50	18761 *	1	200	0,014
8,00	19	6	65	18762	1	200	0,017
10,00	19	6	65	24085	1	100	0,021
10,00	25	6	70	22651	1	100	0,025
12,00	19	6	65	22673	1	100	0,026
12,00	25	6	70	22674	1	100	0,030
16,00	25	8	70	22677	1	100	0,050



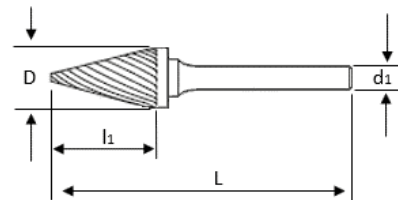
### CILÍNDRICA C/ TOPO ESFÉRICO



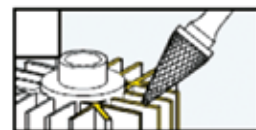
D (mm)	C. Corte l1 (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18766 *	1	200	0,004
3,00	13	3	50	22722 *	1	200	0,004
6,00	13	3	45	22729	1	200	0,005
6,00	19	6	50	18768 *	1	200	0,015
6,00	25	6	50	22731 *	1	200	0,014
8,00	19	6	65	18770	1	200	0,017
10,00	19	6	65	18771	1	100	0,019
10,00	25	6	70	22714	1	100	0,023
12,00	19	6	65	22717	1	100	0,024
12,00	25	6	70	22720	1	100	0,027



### CÔNICA

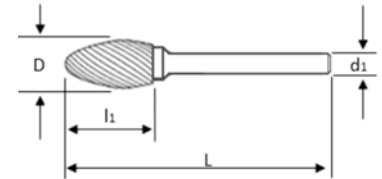


D (mm)	C. Corte l1 (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	11	3	38	22628 *	1	200	0,004
6,00	13	3	45	22630	1	200	0,004
6,00	19	6	50	18808 *	1	200	0,013
6,00	25	6	50	22634 *	1	200	0,012
10,00	16	6	65	22623	1	200	0,013
12,00	19	6	65	22624	1	100	0,015
16,00	22	6	73	22626	1	100	0,023

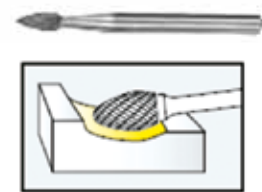


- Indicado para uso em materiais ferrosos e não ferrosos
- Composição: Haste em aço carbono e corte em metal duro
- Origem: China
- Prazo de validade: Indeterminado
- Embalagem: Tubo plástico
- Verifique recomendações de uso página 196
- Verifique tabela de similaridade páginas 178 a 184
- Utilize EPI

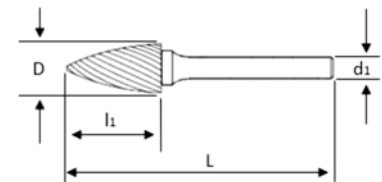
### ÁRVORE ARREDONDADA



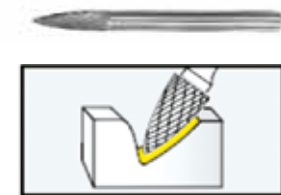
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	18,0	6,0	63,0	39261	1	100	0,018
8,00	20,0	6,0	63,0	39262	1	100	0,021
10,00	20,0	6,0	65,0	39263	1	100	0,025
12,00	25,0	6,0	70,0	39264	1	100	0,043
16,00	25,0	6,0	70,0	39265	1	100	0,063



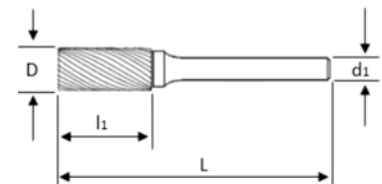
### ÁRVORE PONTIAGUDA



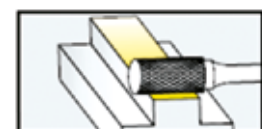
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	18,0	6,0	63,0	39266	1	100	0,017
8,00	20,0	6,0	63,0	39267	1	100	0,022
10,00	20,0	6,0	65,0	39268	1	100	0,025
12,00	25,0	6,0	70,0	39269	1	100	0,039
16,00	25,0	6,0	65,0	39270	1	100	0,058



### CILÍNDRICA



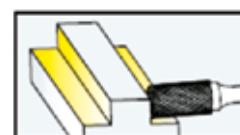
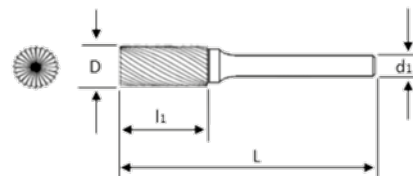
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	65,0	39235	1	100	0,020
8,00	20,0	6,0	65,0	39236	1	100	0,026
10,00	20,0	6,0	65,0	39237	1	100	0,034
12,00	25,0	6,0	70,0	39238	1	100	0,053
16,00	25,0	6,0	70,0	39239	1	100	0,087



## CILÍNDRICA C/ CORTE NO TOPO



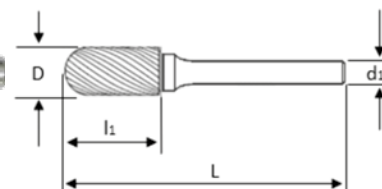
D (mm)	C. Corte $l_1$ (mm)	Haste $d_1$ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	65,0	39240	1	100	0,019
8,00	20,0	6,0	65,0	39241	1	100	0,025
10,00	20,0	6,0	65,0	39242	1	100	0,033
12,00	25,0	6,0	70,0	39243	1	100	0,053
16,00	25,0	6,0	70,0	39244	1	100	0,084



## CILÍNDRICA C/ TOPO ESFÉRICO



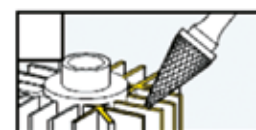
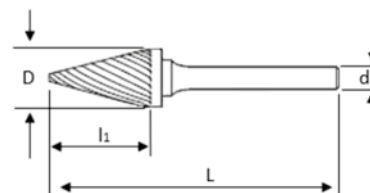
D (mm)	C. Corte $l_1$ (mm)	Haste $d_1$ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	63,0	39245	1	100	0,019
8,00	20,0	6,0	65,0	39246	1	100	0,025
10,00	20,0	6,0	65,0	39247	1	100	0,032
12,00	25,0	6,0	70,0	39248	1	100	0,052
16,00	25,0	6,0	70,0	39249	1	100	0,078



## CÔNICA



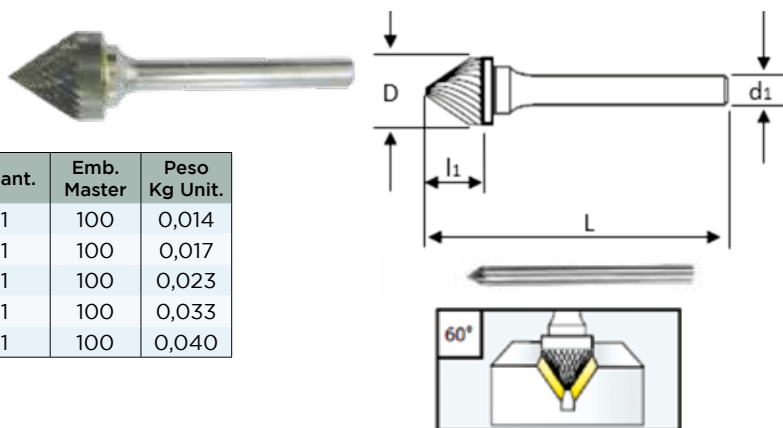
D (mm)	C. Corte $l_1$ (mm)	Haste $d_1$ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	18,0	6,0	63,0	39291	1	100	0,017
8,00	20,0	6,0	65,0	39292	1	100	0,019
10,00	20,0	6,0	65,0	39293	1	100	0,023
12,00	25,0	6,0	70,0	39294	1	100	0,034
16,00	25,0	6,0	70,0	39295	1	100	0,045





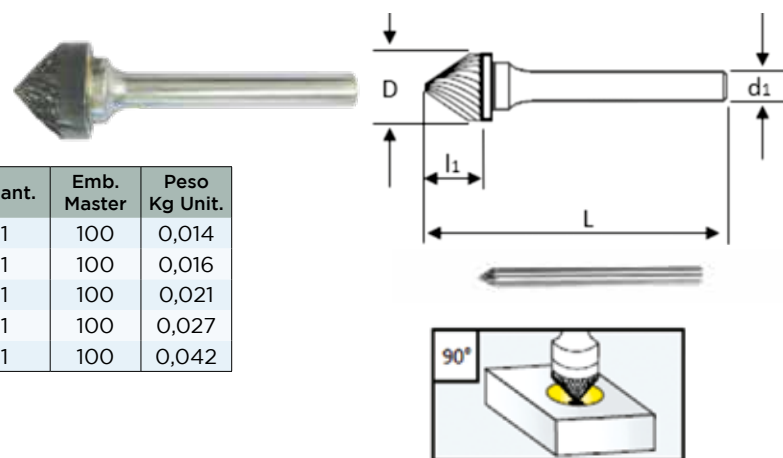
### CÔNICA 60°

D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	5,2	6,0	55,0	39276	1	100	0,014
8,00	7,0	6,0	55,0	39277	1	100	0,017
10,00	8,7	6,0	58,0	39278	1	100	0,023
12,00	10,4	6,0	60,0	39279	1	100	0,033
16,00	13,8	6,0	60,0	39280	1	100	0,040



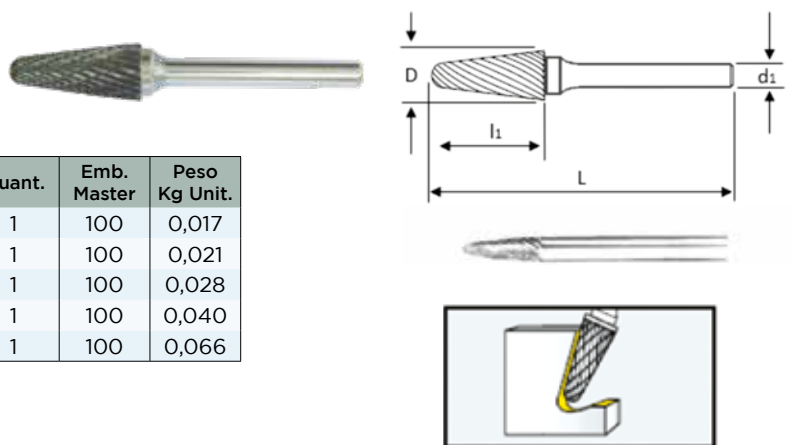
### CÔNICA 90°

D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	3,0	6,0	51,0	39281	1	100	0,014
8,00	4,0	6,0	55,0	39282	1	100	0,016
10,00	5,0	6,0	55,0	39283	1	100	0,021
12,00	6,0	6,0	57,0	39284	1	100	0,027
16,00	8,0	6,0	60,0	39285	1	100	0,042



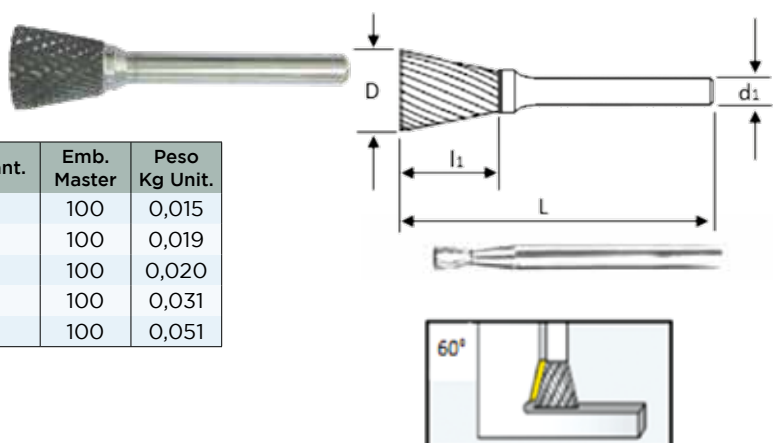
### CÔNICA COM RAIO

D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	61,0	39286	1	100	0,017
8,00	22,0	6,0	65,0	39287	1	100	0,021
10,00	25,0	6,0	70,0	39288	1	100	0,028
12,00	28,0	6,0	73,0	39289	1	100	0,040
16,00	33,0	6,0	75,0	39290	1	100	0,066



### CÔNICA INVERTIDA

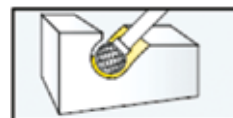
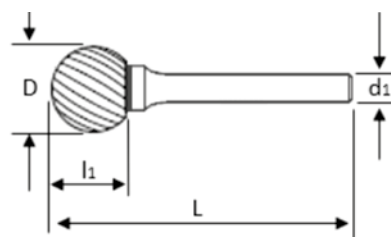
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	7,0	6,0	50,0	39296	1	100	0,015
8,00	10,0	6,0	65,0	39297	1	100	0,019
10,00	10,0	6,0	53,0	39298	1	100	0,020
12,00	13,0	6,0	58,0	39299	1	100	0,031
16,00	16,0	6,0	61,0	39300	1	100	0,051



## ESFÉRICA



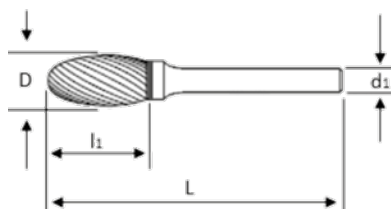
D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
4,00	3,6	6,0	50,0	39250	1	100	0,014
6,00	5,4	6,0	50,0	39251	1	100	0,018
8,00	7,2	6,0	52,0	39252	1	100	0,018
10,00	9,0	6,0	54,0	39253	1	100	0,021
12,00	10,8	6,0	56,0	39254	1	100	0,029
16,00	14,4	6,0	60,0	39255	1	100	0,047



## OVAL



D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	10,0	6,0	55,0	39256	1	100	0,016
8,00	13,0	6,0	58,0	39257	1	100	0,019
10,00	16,0	6,0	61,0	39258	1	100	0,027
12,00	20,0	6,0	65,0	39259	1	100	0,043
16,00	25,0	6,0	70,0	39260	1	100	0,070



## LABAREDA



D (mm)	C. Corte l <sub>1</sub> (mm)	Haste d <sub>1</sub> (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	18,0	6,0	63,0	39271	1	100	0,018
8,00	20,0	6,0	65,0	39272	1	100	0,023
10,00	25,0	6,0	70,0	39273	1	100	0,032
12,00	32,0	6,0	76,0	39274	1	100	0,050
16,00	36,0	6,0	80,0	39275	1	100	0,084

