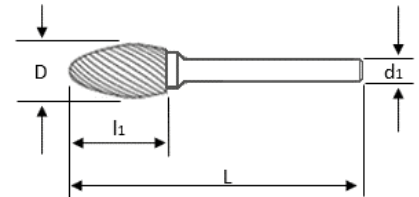
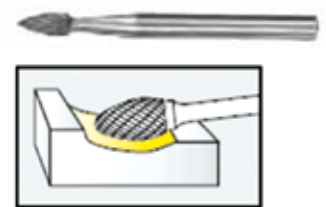


- Indicado para uso em materiais ferrosos e não ferrosos
- Composição: Haste em aço carbono e corte em metal duro
Exceto as marcas com (*) ao lado do código que são fabricadas em metal duro inteiriço
- Origem: China
- Prazo de validade: Indeterminado
- Embalagem: Tubo plástico
- Verifique recomendações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

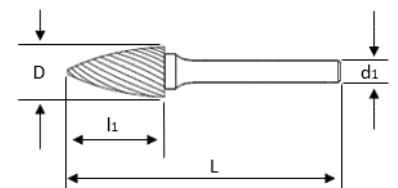
ÁRVORE ARREDONDADA



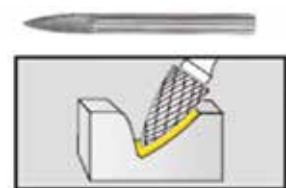
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22795 *	1	200	0,004
6,00	13	3	45	22797	1	200	0,010
6,00	19	6	50	18791	1	200	0,010
8,00	19	6	65	24968	1	200	0,015
10,00	19	6	65	18793	1	200	0,017
12,00	19	6	65	22791	1	100	0,020
12,00	25	6	70	18794	1	100	0,024
16,00	25	6	70	18790	1	100	0,033



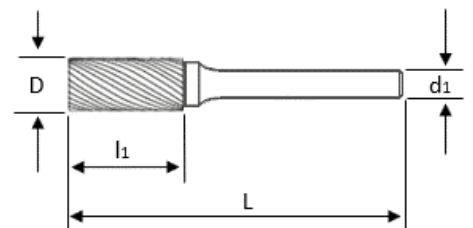
ÁRVORE PONTIAGUDA



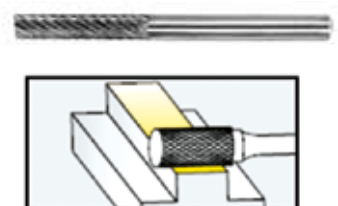
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	10	3	38	22780 *	1	200	0,004
6,00	13	3	45	22781	1	200	0,004
6,00	16	6	50	18797	1	200	0,010
8,00	19	6	65	22786	1	200	0,013
10,00	19	6	65	18798	1	200	0,016
12,00	19	6	65	22778	1	100	0,019



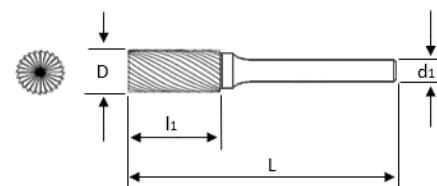
CILÍNDRICA



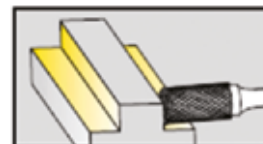
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22707 *	1	200	0,004
4,00	16	6	50	22709	1	200	0,010
6,00	13	3	45	18746	1	200	0,005
6,00	19	6	50	18748 *	1	200	0,014
6,00	25	6	50	22711 *	1	200	0,015
8,00	19	6	65	18752	1	200	0,016
10,00	19	6	65	18755	1	100	0,020
10,00	25	6	70	22701	1	100	0,024
12,00	19	6	65	18756	1	100	0,027
12,00	25	6	70	22704	1	100	0,031
16,00	25	6	70	18758	1	100	0,047



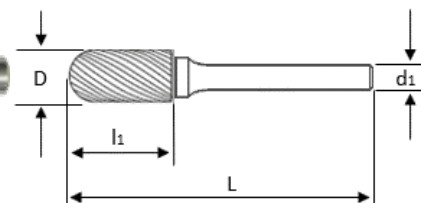
CILÍNDRICA C/ CORTE NO TOPO



D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22680 *	1	200	0,004
3,00	13	3	50	22683 *	1	200	0,004
6,00	13	3	45	22685	1	200	0,005
6,00	19	6	50	18759 *	1	200	0,015
6,00	19	6	75	22688 *	1	200	0,018
6,00	25	6	50	22689 *	1	200	0,014
8,00	19	6	65	18765	1	200	0,016
10,00	19	6	65	18763	1	100	0,020
10,00	25	6	70	22672	1	100	0,023
12,00	19	6	65	18764	1	100	0,025
12,00	25	6	70	22675	1	100	0,031
16,00	25	8	70	22678	1	100	0,050



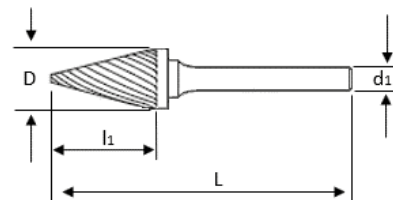
CILÍNDRICA C/ TOPO ESFÉRICO



D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18767 *	1	200	0,004
3,00	13	3	50	22723 *	1	200	0,005
6,00	13	3	45	22730	1	200	0,004
6,00	19	6	50	18769 *	1	200	0,014
6,00	25	6	50	22732 *	1	200	0,013
8,00	19	6	65	22733	1	200	0,014
10,00	19	6	65	18772	1	100	0,019
10,00	25	6	70	22716	1	100	0,022
12,00	19	6	65	18773	1	100	0,023
12,00	25	6	70	22721	1	100	0,028



CÔNICA



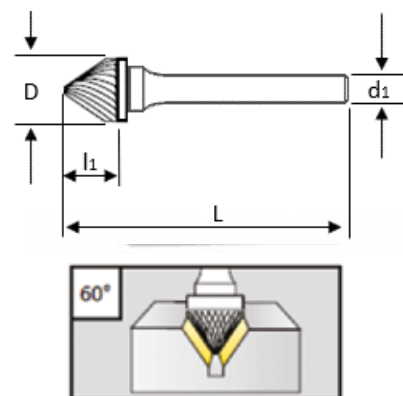
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	11	3	38	22629 *	1	200	0,004
6,00	13	3	45	22631	1	200	0,004
6,00	19	6	50	22633 *	1	200	0,013
6,00	25	6	50	22635 *	1	200	0,012
10,00	16	6	65	18809	1	200	0,014
12,00	19	6	65	18810	1	100	0,016
16,00	22	6	73	22627	1	100	0,023



CÔNICA 60°



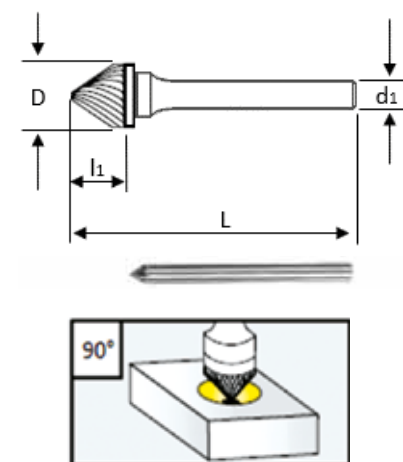
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	4	6	50	18800	1	200	0,012
10,00	8	6	55	18801	1	200	0,014
12,00	11	6	60	22597	1	100	0,018
16,00	14,5	6	70	22599	1	100	0,026



CÔNICA 90°



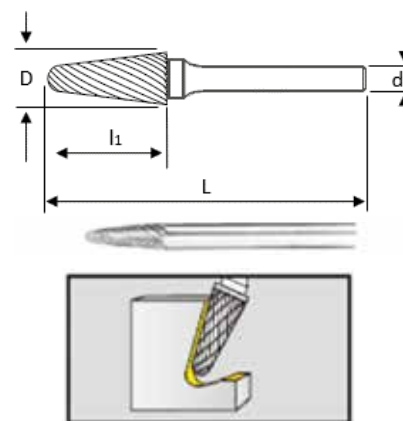
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	1,5	3	38	22606 *	1	200	0,003
6,00	3	6	50	18802	1	200	0,010
10,00	5	6	55	18803	1	200	0,014
12,00	6	6	54	18805	1	100	0,016
16,00	8	6	60	22604	1	100	0,021



CÔNICA COM RAIO



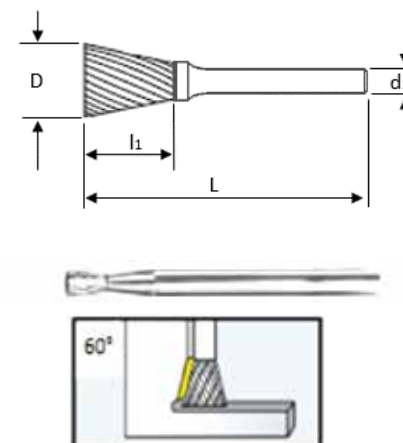
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	9,5	3	38	22646 *	1	200	0,004
6,00	19	6	50	22649 *	1	200	0,012
10,00	19	6	65	22637	1	200	0,016
10,00	27	6	75	18806	1	200	0,018
12,00	30	6	75	18807	1	100	0,022
16,00	33	8	78	22644	1	100	0,037



CÔNICA INVERTIDA



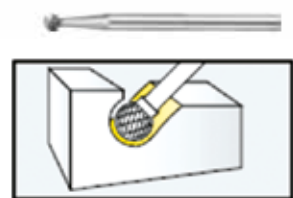
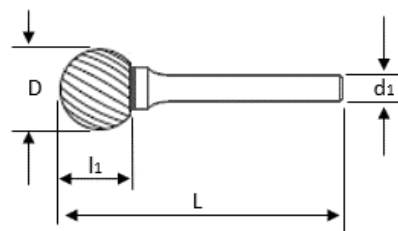
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	7	3	38	22757 *	1	200	0,004
6,00	7	6	50	22758	1	200	0,011
9,50	9,5	6	53	22762	1	200	0,013
12,00	13	6	58	22753	1	100	0,017
16,00	19	6	63	22755	1	100	0,028



ESFÉRICA



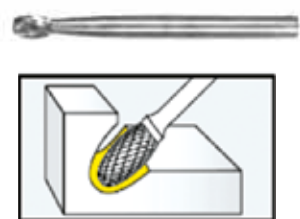
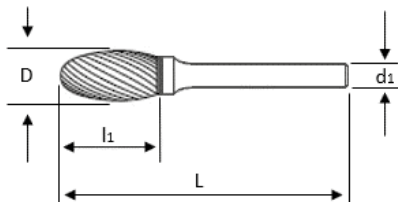
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	2,5	6	50	22588	1	200	0,002
4,00	3,6	3	45	22590	1	200	0,005
6,00	5,4	3	38	18775	1	200	0,004
6,00	5,4	6	50	18776	1	200	0,010
8,00	7,2	6	52	18778	1	200	0,011
10,00	9	6	53	22582	1	200	0,013
12,00	10,8	6	55	22584	1	100	0,014
16,00	14,4	8	60	22586	1	100	0,033



OVAL



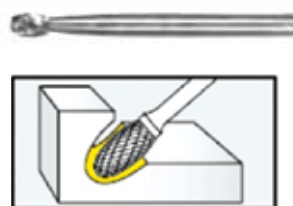
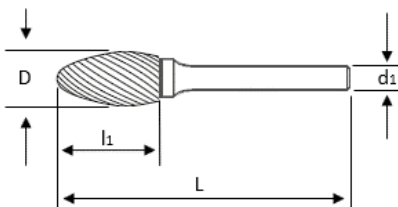
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22769 *	1	200	0,004
6,00	10	6	50	22772	1	200	0,011
8,00	13	6	58	18784	1	200	0,010
10,00	16	6	60	18786	1	200	0,016
12,00	22	6	67	22765	1	100	0,022
16,00	25	6	70	22768	1	100	0,038



LABAREDA

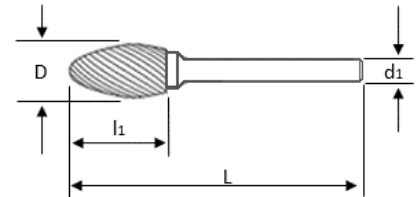


D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	8	3	38	22745 *	1	200	0,004
6,00	14	6	50	18787 *	1	200	0,014
8,00	19	6	65	18788	1	200	0,015
10,00	19	6	65	22736	1	200	0,017
12,00	32	6	77	22739	1	100	0,028
16,00	36	6	80	22742	1	100	0,046

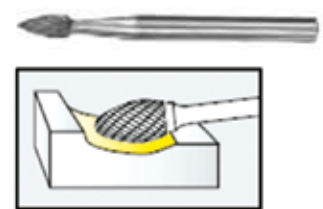


- Indicado para uso em materiais ferrosos e não ferrosos
- Composição: Haste em aço carbono e corte em metal duro
Exceto as marcas com (*) ao lado do código que são fabricadas em metal duro inteiriço
- Origem: China
- Prazo de validade: Indeterminado
- Embalagem: Tubo plástico
- Verifique recomendações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

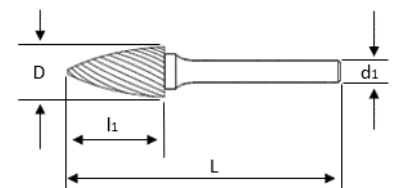
ÁRVORE ARREDONDADA



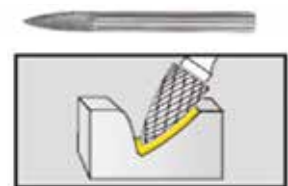
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22795 *	1	200	0,004
6,00	13	3	45	22797	1	200	0,010
6,00	19	6	50	18791	1	200	0,010
8,00	19	6	65	24968	1	200	0,015
10,00	19	6	65	18793	1	200	0,017
12,00	19	6	65	22791	1	100	0,020
12,00	25	6	70	18794	1	100	0,024
16,00	25	6	70	18790	1	100	0,033



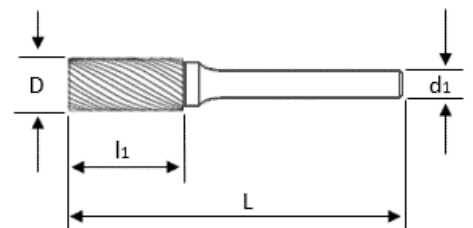
ÁRVORE PONTIAGUDA



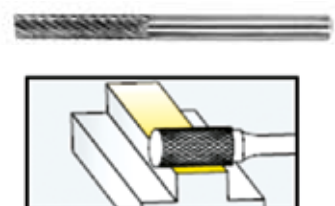
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	10	3	38	22780 *	1	200	0,004
6,00	13	3	45	22781	1	200	0,004
6,00	16	6	50	18797	1	200	0,010
8,00	19	6	65	22786	1	200	0,013
10,00	19	6	65	18798	1	200	0,016
12,00	19	6	65	22778	1	100	0,019



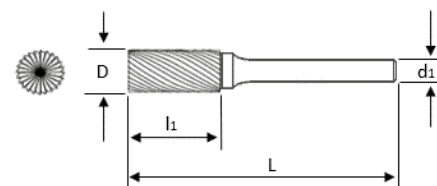
CILÍNDRICA



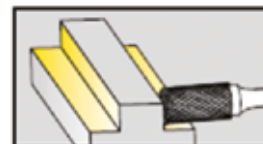
D (mm)	C. Corte li (mm)	Haste d1 (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22707 *	1	200	0,004
4,00	16	6	50	22709	1	200	0,010
6,00	13	3	45	18746	1	200	0,005
6,00	19	6	50	18748 *	1	200	0,014
6,00	25	6	50	22711 *	1	200	0,015
8,00	19	6	65	18752	1	200	0,016
10,00	19	6	65	18755	1	100	0,020
10,00	25	6	70	22701	1	100	0,024
12,00	19	6	65	18756	1	100	0,027
12,00	25	6	70	22704	1	100	0,031
16,00	25	6	70	18758	1	100	0,047



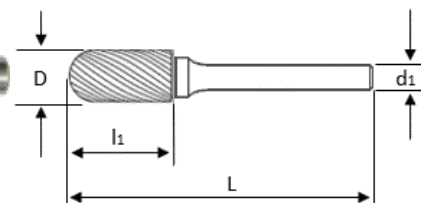
CILÍNDRICA C/ CORTE NO TOPO



D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	22680 *	1	200	0,004
3,00	13	3	50	22683 *	1	200	0,004
6,00	13	3	45	22685	1	200	0,005
6,00	19	6	50	18759 *	1	200	0,015
6,00	19	6	75	22688 *	1	200	0,018
6,00	25	6	50	22689 *	1	200	0,014
8,00	19	6	65	18765	1	200	0,016
10,00	19	6	65	18763	1	100	0,020
10,00	25	6	70	22672	1	100	0,023
12,00	19	6	65	18764	1	100	0,025
12,00	25	6	70	22675	1	100	0,031
16,00	25	8	70	22678	1	100	0,050



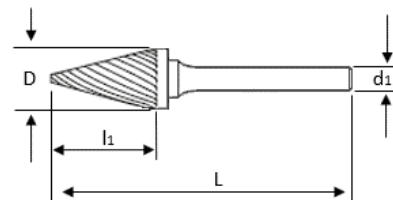
CILÍNDRICA C/ TOPO ESFÉRICO



D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	13	3	38	18767 *	1	200	0,004
3,00	13	3	50	22723 *	1	200	0,005
6,00	13	3	45	22730	1	200	0,004
6,00	19	6	50	18769 *	1	200	0,014
6,00	25	6	50	22732 *	1	200	0,013
8,00	19	6	65	22733	1	200	0,014
10,00	19	6	65	18772	1	100	0,019
10,00	25	6	70	22716	1	100	0,022
12,00	19	6	65	18773	1	100	0,023
12,00	25	6	70	22721	1	100	0,028



CÔNICA



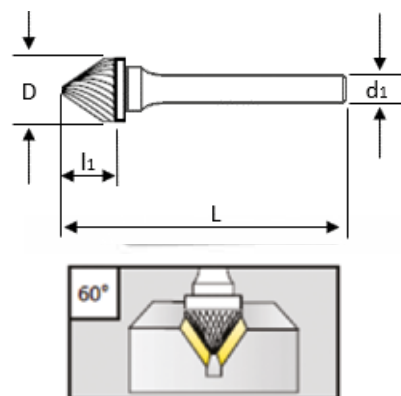
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	11	3	38	22629 *	1	200	0,004
6,00	13	3	45	22631	1	200	0,004
6,00	19	6	50	22633 *	1	200	0,013
6,00	25	6	50	22635 *	1	200	0,012
10,00	16	6	65	18809	1	200	0,014
12,00	19	6	65	18810	1	100	0,016
16,00	22	6	73	22627	1	100	0,023



CÔNICA 60°



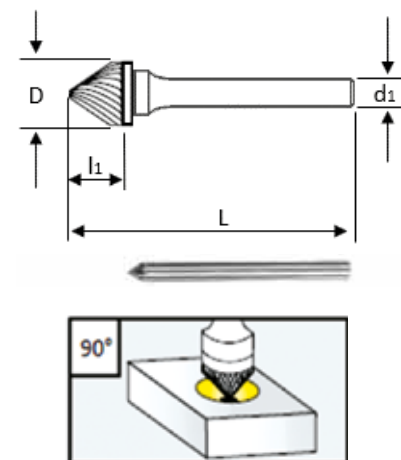
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	4	6	50	18800	1	200	0,012
10,00	8	6	55	18801	1	200	0,014
12,00	11	6	60	22597	1	100	0,018
16,00	14,5	6	70	22599	1	100	0,026



CÔNICA 90°



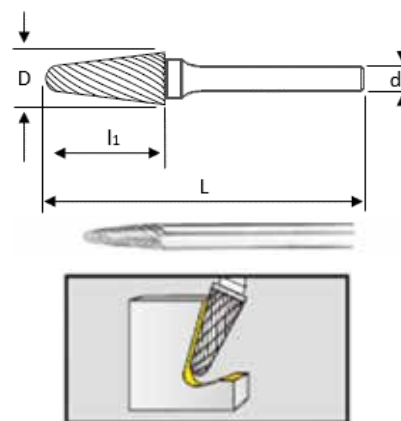
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	1,5	3	38	22606 *	1	200	0,003
6,00	3	6	50	18802	1	200	0,010
10,00	5	6	55	18803	1	200	0,014
12,00	6	6	54	18805	1	100	0,016
16,00	8	6	60	22604	1	100	0,021



CÔNICA COM RAIO



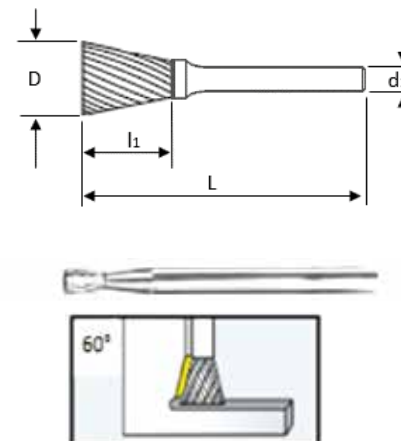
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	9,5	3	38	22646 *	1	200	0,004
6,00	19	6	50	22649 *	1	200	0,012
10,00	19	6	65	22637	1	200	0,016
10,00	27	6	75	18806	1	200	0,018
12,00	30	6	75	18807	1	100	0,022
16,00	33	8	78	22644	1	100	0,037



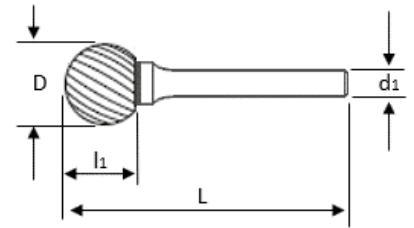
CÔNICA INVERTIDA



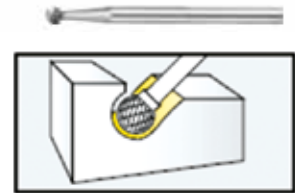
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	7	3	38	22757 *	1	200	0,004
6,00	7	6	50	22758	1	200	0,011
9,50	9,5	6	53	22762	1	200	0,013
12,00	13	6	58	22753	1	100	0,017
16,00	19	6	63	22755	1	100	0,028



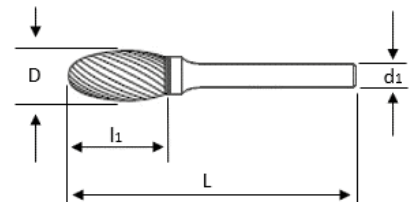
ESFÉRICA



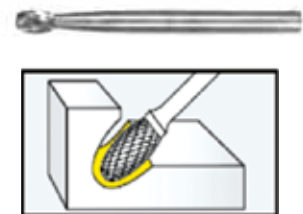
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	2,5	6	50	22588	1	200	0,002
4,00	3,6	3	45	22590	1	200	0,005
6,00	5,4	3	38	18775	1	200	0,004
6,00	5,4	6	50	18776	1	200	0,010
8,00	7,2	6	52	18778	1	200	0,011
10,00	9	6	53	22582	1	200	0,013
12,00	10,8	6	55	22584	1	100	0,014
16,00	14,4	8	60	22586	1	100	0,033



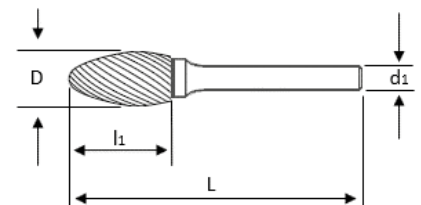
OVAL



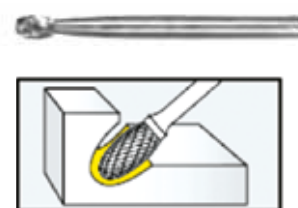
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	6	3	38	22769 *	1	200	0,004
6,00	10	6	50	22772	1	200	0,011
8,00	13	6	58	18784	1	200	0,010
10,00	16	6	60	18786	1	200	0,016
12,00	22	6	67	22765	1	100	0,022
16,00	25	6	70	22768	1	100	0,038



LABAREDA



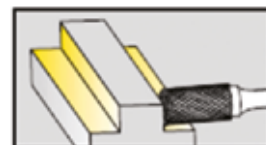
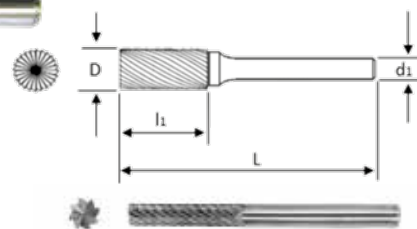
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
3,00	8	3	38	22745 *	1	200	0,004
6,00	14	6	50	18787 *	1	200	0,014
8,00	19	6	65	18788	1	200	0,015
10,00	19	6	65	22736	1	200	0,017
12,00	32	6	77	22739	1	100	0,028
16,00	36	6	80	22742	1	100	0,046



CILÍNDRICA C/ CORTE NO TOPO



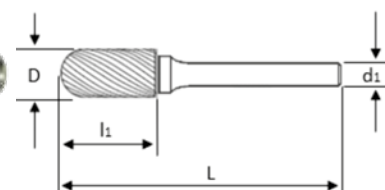
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	65,0	39306	1	100	0,020
8,00	20,0	6,0	65,0	39307	1	100	0,025
10,00	20,0	6,0	65,0	39308	1	100	0,034
12,00	25,0	6,0	70,0	39309	1	100	0,051
16,00	25,0	6,0	70,0	39310	1	100	0,084



CILÍNDRICA C/ TOPO ESFÉRICO



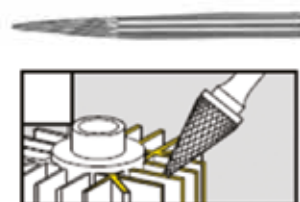
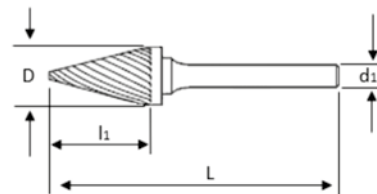
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	16,0	6,0	65,0	39311	1	100	0,019
8,00	20,0	6,0	65,0	39312	1	100	0,026
10,00	20,0	6,0	65,0	39313	1	100	0,030
12,00	25,0	6,0	70,0	39314	1	100	0,052
16,00	25,0	6,0	70,0	39315	1	100	0,079



CÔNICA

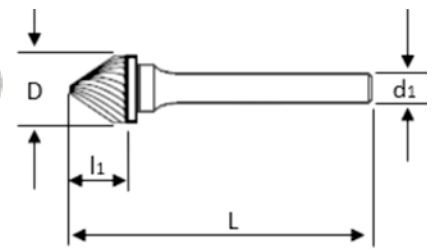


D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	18,0	6,0	63,0	39353	1	100	0,016
10,00	20,0	6,0	65,0	39354	1	100	0,023
12,00	25,0	6,0	70,0	39355	1	100	0,034
16,00	25,0	6,0	70,0	39356	1	100	0,045



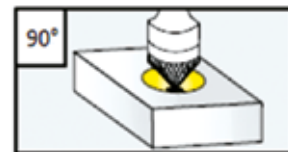
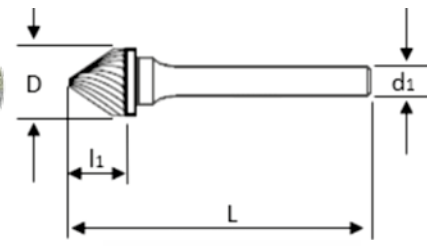
CÔNICA 60°

D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	6,60	6,0	55,0	39341	1	100	0,017
10,00	10,35	6,0	58,0	39342	1	100	0,022
12,00	12,70	6,0	60,0	39343	1	100	0,027
16,00	13,90	6,0	62,0	39344	1	100	0,043



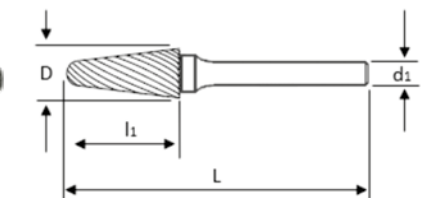
CÔNICA 90°

D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	4,50	6,0	51,0	39345	1	100	0,016
10,00	7,50	6,0	55,0	39346	1	100	0,021
12,00	8,50	6,0	57,0	39347	1	100	0,026
16,00	10,50	6,0	60,0	39348	1	100	0,042



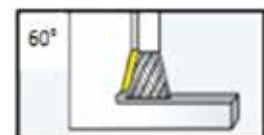
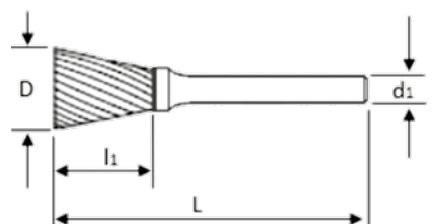
CÔNICA COM RAIO

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	61,0	39349	1	100	0,018
10,00	25,0	6,0	70,0	39350	1	100	0,028
12,00	28,0	6,0	75,0	39351	1	100	0,041
16,00	33,0	6,0	75,0	39352	1	100	0,074



CÔNICA INVERTIDA

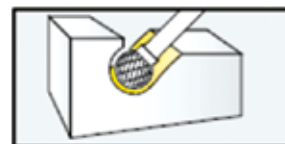
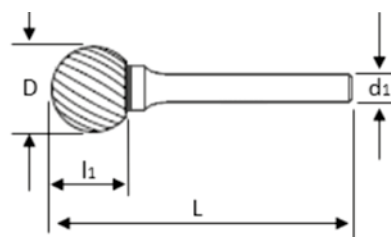
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	7,0	6,0	50,0	39357	1	100	0,015
10,00	10,0	6,0	53,0	39358	1	100	0,021
12,00	13,0	6,0	58,0	39359	1	100	0,030
16,00	16,0	6,0	61,0	39360	1	100	0,051



ESFÉRICA



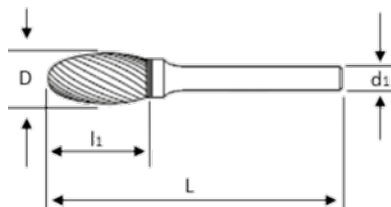
D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	5,4	6,0	50,0	39316	1	100	0,015
8,00	7,2	6,0	52,0	39317	1	100	0,017
10,00	9,0	6,0	54,0	39318	1	100	0,021
12,00	10,8	6,0	56,0	39319	1	100	0,050
16,00	14,4	6,0	60,0	39320	1	100	0,080



OVAL



D (mm)	C. Corte l ₁ (mm)	Haste d ₁ (mm)	C. Total L (mm)	Código	Quant.	Emb. Master	Peso Kg Unit.
6,00	10,0	6,0	55,0	39321	1	100	0,016
8,00	13,0	6,0	58,0	39322	1	100	0,022
10,00	16,0	6,0	61,0	39323	1	100	0,027
12,00	20,0	6,0	65,0	39324	1	100	0,045
16,00	25,0	6,0	70,0	39325	1	100	0,075



LABAREDA



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	39336	1	100	0,019
8,00	20,0	6,0	65,0	39337	1	100	0,023
10,00	25,0	6,0	70,0	39338	1	100	0,033
12,00	32,0	6,0	76,0	39339	1	100	0,052
16,00	36,0	6,0	80,0	39340	1	100	0,092

