

UNI MILL 701

SOLID CARBIDE ROUGHING END MILLS

3-4-6 FL - 30°

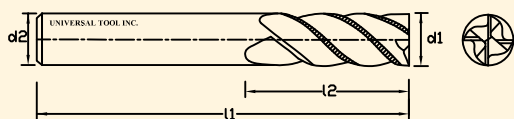
Acc. Din 6527 long . type HR , right – hand cutting , straight shank with clamping flat acc. to DIN 6535 HB

GEOMETRY AND APPLICATION

Helix angle 30°, CNC ground 2 flute -1 flute center cutting (3 flute) 4/6 flute, fine knurling / web thickness- extended / rack angle 6°

Standard end mills for roughing operations of grooves , slots , forms and periphery. For milling of cast iron , malleable cast iron , steel casting , stainless Steel, titanium alloy < 900 N/mm³

Also offered on intermediate sizes and internal thro coolant on request.



UNI MILL 702

SOLID CARBIDE SLOTING END MILLS

(MICRO)

(short) 2 FL - 30°

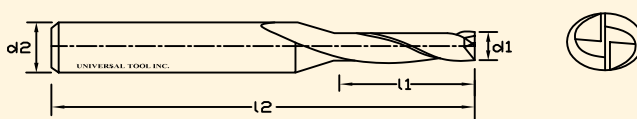
Acc. Standard , right –hand cutting , straight shank

GEOMETRY AND APPLICATION

:2 Fluted / helix angle 30° degrees, CNC ground , center cutting / web thickness-standard / rack angle 6-8°

Standard end mill for slot drilling & slot milling for milling of cast iron malleable cast iron steel, steel casting brass graphite , plastics, glass carbon fiber.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
701- 0060	6.00	6.00	57	13	3	
701- 0070	7.00	7.00	63	16	3	
701- 0080	8.00	8.00	63	19	3	
701- 0090	9.00	10.00	72	19	3	
701- 0100	10.00	10.00	72	22	4	
701- 0120	12.00	12.00	83	26	4	
701- 0140	14.00	14.00	83	26	4	
701- 0160	16.00	16.00	92	32	4	
701- 0180	18.00	18.00	92	32	4	
701- 0200	20.00	20.00	104	38	4	
701- 0260	25.00	26.00	110	38	6	
701- 0300	30.00	30.00	110	38	6	
701- 0320	32.00	32.00	120	38	6	
701- 0340	34.00	32.00	120	38	6	
701- 0360	36.00	32.00	120	40	6	
701- 0380	38.00	32.00	120	40	6	
701- 0400	40.00	32.00	120	40	6	

Order No.	d1 h10	d2 h6	L1 mm	L2 mm	Z	Prices
702- 0010	1.00	3.00	38	5	2	
702- 0012	1.20	3.00	38	5	2	
702- 0015	1.50	3.00	38	5	2	
702- 0016	1.60	3.00	38	6	2	
702- 0018	1.80	3.00	38	6	2	
702- 0020	2.00	3.00	38	9	2	
702- 0024	2.40	3.00	38	10	2	
702- 0025	2.50	3.00	38	10	2	
702- 0028	2.80	3.00	38	10	2	
702- 0030	3.00	3.00	38	12	2	
702- 0032	3.50	3.5	40	12	2	
702- 0034	4.00	4.00	40	12	2	
702- 0036	5.00	5.00	50	14	2	
702- 0038	6.00	6.00	50	16	2	

UNI MILL 703

ALU. CUT SOLID CARBIDE END MILLS

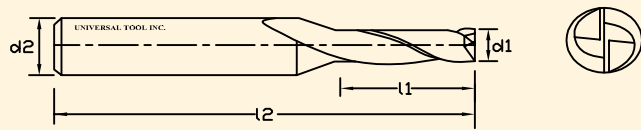
Short for aluminium 2 FL 30°
ALUMINIUM .CUT SOLID CARBIDE END MILLS SHORT
Straight shank acc. DIN 6535 Ha without clamping flat.

GEOMETRY AND APPLICATION

:2 Fluted / right hand spiral 30° / right hand cutting , centre cutting upto 3mm from 0.4 up to 3.0 mm 1 tooth above center.

- a) For slot milling & profile milling.
- b) for machining of aluminium and plastics
- c) high chip production due to high cutting power.

Also offered on intermediate sizes on request.



UNI MILL 704

ALU.CUT SOLID CARBIDE END MILLS

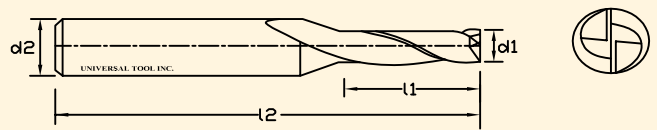
LONG 2 FL 30°
Straight shank acc. DIN 6535 HA without clamping flat.

GEOMETRY AND APPLICATION

:2 fluted / right hand spiral 30° / right hand cutting / cutting form 0.4 upto 3.0 mm 1 tooth above center.

- a) For slot milling & profile milling.
- b) for machining of aluminium and plastics
- c) high chip production due to high cutting power.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
703- 0030	3.0	6.0	50	5	2	
703- 0040	4.0	6.0	54	8	2	
703- 0050	5.0	6.0	54	9	2	
703- 0060	6.0	6.0	54	10	2	
703- 0080	8.0	8.0	50	12	2	
703- 0100	10.0	10.0	66	14	2	
703- 0120	12.0	12.0	73	16	2	
703- 0140	14.0	14.0	75	18	2	
703- 0160	16.0	16.0	82	22	2	
703- 0180	18.0	18.0	84	24	2	
703- 0200	20.0	20.0	92	26	2	
703- 0220	22.0	22.0	101	30	2	
703- 0240	24.0	24.0	101	30	2	
703- 0260	26.0	26.0	101	30	2	
703- 0280	28.0	28.0	101	30	2	
703- 0300	30.0	30.0	101	30	2	
703- 0320	32.0	32.0	110	34	2	
703- 0340	34.0	32.0	110	34	2	
703- 0360	36.0	32.0	110	34	2	
703- 0380	38.0	32.0	120	34	2	
703- 0400	40.0	32.0	120	34	2	
703- 0450	45.0	32.0	120	34	2	
703- 0500	50.0	32.0	120	34	2	

Order No.	d1	d2	L1	L2	Prices
704- 0030	3.0	5.0	57	8	
704- 0040	4.0	6.0	57	11	
704- 0050	5.0	6.0	57	13	
704- 0060	6.0	6.0	57	13	
704- 0080	8.0	6.0	63	16	
704- 0100	10.0	10.0	72	22	
704- 0120	12.0	12.0	83	26	
704- 0140	14.0	14.0	83	26	
704- 0160	16.0	16.0	92	32	
704- 0180	18.0	18.0	92	32	
704- 0200	20.0	20.0	104	38	
704- 0220	22.0	22.0	104	38	
704- 0240	24.0	24.0	104	38	
704- 0260	26.0	26.0	104	38	
704- 0280	28.0	28.0	104	38	
704- 0300	30.0	30.0	104	38	
704- 0320	32.0	32.0	104	38	
704- 0340	34.0	32.0	110	40	
704- 0360	36.0	32.0	110	40	
704- 0380	38.0	32.0	110	40	
704- 0400	40.0	32.0	110	40	
704- 0450	45.0	32.0	110	40	
704- 0500	50.0	32.0	110	40	

UNI MILL 705

SOLID CARBIDE SLOT END MILLS

3 FL - 30°

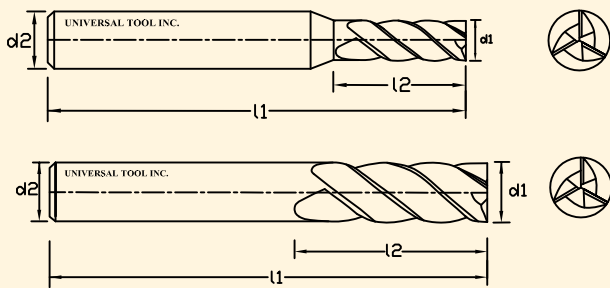
Acc. UT Std Type N , right hand cutting , straight shank

GOMETRY AND APPLICATION

:3 Fluted / helix angle 30° degrees, CNC grinding , center cutting up, web thickness-standard / rack angle 6-8°

Standard end mill for slot milling E.g. for milling of steel and steel and steel casting (<900n/mm2), as well as non-ferrous metals & plastics .

Also offered on intermediate sizes on request.



UNI MILL 706

SOLID CARBIDE SLOT END MILLS

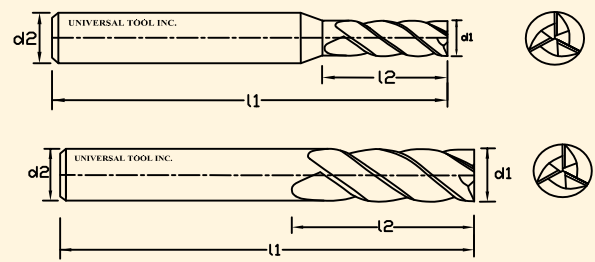
(LONG 3 FL 30°)

Acc. DIN 6527 long. , right hand cutting , straight shank with clamping flat acc. DIN 6535 HB.

GOMETRY AND APPLICATION

:3 fluted , cutting helix angle 30° degrees, CNC grinding , 1 center cutting edge above center from 3 , web thickness-standard / rack angle 6-8°

: Standard end mill for slot drilling & slot when infeed is small. High accuracy is tolerance & surface quality- e.g. for milling of steel and steel casting as well as non-ferrous metals and plastics .



Order No.	d1	d2	L1	L2	Z	Prices
705- 0020	2.00	3.00	38	6	3	
705- 0025	2.50	3.00	38	7	3	
705- 0030	3.00	3.00	38	9	3	
705- 0035	3.50	3.50	40	12	3	
705- 0040	4.00	3.50	40	12	3	
705- 0045	4.50	4.50	50	14	3	
705- 0050	5.00	5.00	50	14	3	
705- 0060	6.00	6.00	50	16	3	
705- 0070	7.00	7.00	60	20	3	
705- 0080	8.00	8.00	60	20	3	
705- 0090	9.00	9.00	70	22	3	
705- 0100	10.00	10.00	70	22	3	
705- 0110	11.00	11.00	70	22	3	
705- 0120	12.00	12.00	70	22	3	
705- 0140	14.00	14.00	75	25	3	
705- 0160	16.00	16.00	75	25	3	
705- 0180	18.00	18.00	100	30	3	
705- 0200	20.00	20.00	100	30	3	
705- 0220	22.00	22.00	100	30	3	
705- 0240	24.00	24.00	100	30	3	
705- 0260	25.00	25.00	100	30	3	
705- 0280	28.00	28.00	100	30	3	
705-0300	30.00	30.00	100	30	3	
705- 0320	32.00	32.00	100	30	3	

Order No.	d1	d2	L1	L2	Z	Prices
706-0030	3.00	6.00	57	7	3	
706-0040	4.00	6.00	57	8	3	
706-0050	5.00	6.00	57	10	3	
706-0060	6.00	6.00	57	10	3	
706-0070	7.00	8.00	63	16	3	
706-0080	8.00	8.00	63	16	3	
706-0090	9.00	10.00	72	16	3	
706-0100	10.00	10.00	72	19	3	
706-0120	12.00	12.00	83	22	3	
706-0140	14.00	14.00	83	22	3	
706-0160	16.00	16.00	92	26	3	
706-0180	18.00	18.00	92	26	3	
706-0200	20.00	20.00	104	32	3	
706-0220	22.00	22.00	104	32	3	
706-0240	24.00	24.00	104	32	3	
706-0260	26.00	26.00	104	32	3	
706-0280	28.00	28.00	104	32	3	
706-0300	30.00	30.00	104	32	3	
706-0320	32.00	32.00	110	38	3	
706-0340	34.00	32.00	110	38	3	
706-0360	36.00	32.00	110	38	3	
706-0380	38.00	32.00	110	38	3	
706-0400	40.00	32.00	110	38	3	
706-0450	45.00	32.00	110	38	3	
706-0500	50.00	32.00	110	38	3	

UNI MILL 707

SOLID CARBIDE SLOT END MILLS

(Thro' Coolant) 3 FL 30° Thro Coolant
Acc. DIN 6527 long , right hand cutting , straight shank with clamping flat acc. DIN 6535 HB

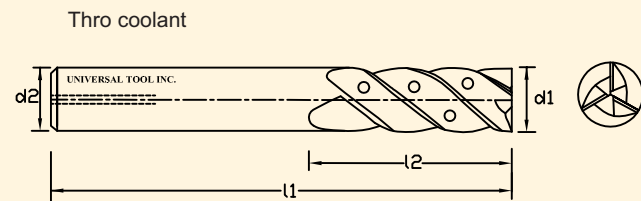
GEOMETRY AND APPLICATION

: 3 flutes, cutting helix angle 30° degrees, CNC grinding / web, thickness enlarged especially rigid design / rack angle 6-8°

: Slot mills for drilling and milling when infeed is small. Good surface – smooth cutting – keeping small tolerance allowance . For milling of cast iron, malleable cast iron, steel, steel casting, brass, aluminium, graphite, plastics, glass and carbon fiber.

Also offered on intermediate sizes on request.

Coolant Fed



Order No.	d1	d2	L1	L2	Z	Prices
707- 0080	8.00	8.00	63	13	3	
707- 0090	9.00	10.00	72	16	3	
707- 0100	10.00	10.00	72	19	3	
707- 0120	12.00	12.00	83	22	3	
707- 0140	14.00	14.00	83	22	3	
707- 0160	16.00	16.00	92	26	3	
707- 0180	18.00	18.00	92	26	3	
707- 0200	20.00	20.00	104	32	3	
707- 0220	22.00	22.00	104	32	3	
707- 0240	24.00	24.00	104	32	3	
707- 0250	25.00	25.00	104	32	3	
707- 0260	26.00	26.00	104	32	3	
707- 0280	28.00	28.00	104	32	3	
707- 0300	30.00	30.00	104	32	3	
707- 0320	32.00	32.00	104	32	3	
707- 0340	34.00	32.00	110	38	3	
707- 0360	36.00	32.00	110	38	3	
707- 0380	38.00	32.00	110	38	3	
707- 0400	40.00	32.00	110	38	3	
707- 0450	45.00	32.00	110	38	3	
707- 0500	50.00	32.00	110	38	3	

Also offered in 2FL, 4FL, 5FL & 6FL

UNI MILL 708

SOLID CARBIDE END MILLS

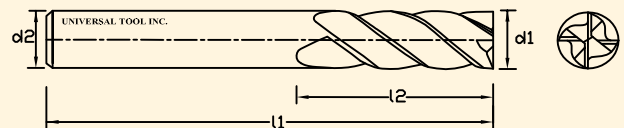
4 FL - 30°
Acc. Type N, right hand cutting, straight shank

GEOMETRY AND APPLICATION

: 4 flutes, 2 flutes center cutting helix angle 30° degrees, CNC grinding, web thickness-standard / rack angle 6-8°

Standard end mills for periphery and form milling. For milling of steel and casting (<900n/mm2), as well as non-ferrous metals and plastics .

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
708- 0020	2.00	3.00	38	6	4	
708- 0025	2.50	3.00	38	6	4	
708- 0030	3.00	3.00	38	10	4	
708- 0035	3.50	3.50	40	12	4	
708- 0040	4.00	4.00	40	12	4	
708- 0045	4.50	4.50	50	14	4	
708- 0050	5.00	5.00	50	14	4	
708- 0060	6.00	6.00	50	16	4	
708- 0070	7.00	7.00	60	20	4	
708- 0080	8.00	8.00	60	20	4	
708- 0090	9.00	9.00	60	20	4	
708- 0100	10.00	10.00	70	22	4	
708- 0110	11.00	11.00	70	22	4	
708- 0120	12.00	12.00	70	22	4	
708- 0140	14.00	14.00	75	25	4	
708- 0160	16.00	16.00	75	25	4	
708- 0180	18.00	18.00	104	38	4	
708- 0200	20.00	20.00	104	38	4	
708-0220	22.00	22.00	104	38	4	
708- 0240	24.00	24.00	104	38	4	
708- 0250	25.00	25.00	104	38	4	
708- 0260	26.00	26.00	104	38	4	
708- 0280	28.00	28.00	104	38	4	
708- 0300	30.00	30.00	104	38	4	
708- 0320	32.00	32.00	104	38	4	
708- 0340	34.00	32.00	110	42	4	
708- 0360	36.00	32.00	110	42	4	
708- 0380	38.00	32.00	110	42	4	
708- 0400	40.00	32.00	110	42	4	

Also offered in 2FL & 3FL

UNI MILL 709

SOLID CARBIDE END MILLS

4 FL - 30°

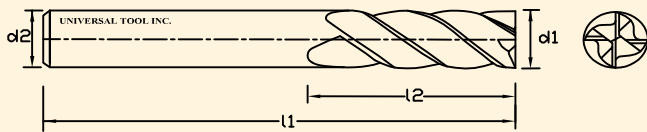
Acc. DIN 6527 long reinforce geometry, right hand cutting, straight shank with clamping flat. acc. DIN 6535 HB.

GEOMETRY AND APPLICATION

: 4 flutes, cutting helix angle 30° degrees, 2 flutes center cutting, CNC grinding / web thickness enlarged especially rigid design / rack angle 6-8°

: For milling of form milling eg. steel & steel casting <900 n/mm2

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
709- 0030	3.00	6.00	57	8	4	
709- 0035	3.50	6.00	57	10	4	
709- 0040	4.00	6.00	57	11	4	
709- 0045	4.50	6.00	57	11	4	
709- 0050	5.00	6.00	57	13	4	
709- 0060	6.00	6.00	57	13	4	
709- 0070	7.00	8.00	63	16	4	
709- 0080	8.00	8.00	63	19	4	
709- 0090	9.00	10.00	72	19	4	
709- 0100	10.00	10.00	72	19	4	
709- 0110	11.00	12.00	72	22	4	
709- 0120	12.00	12.00	83	26	4	
709- 0140	14.00	14.00	83	26	4	
709- 0160	16.00	16.00	92	32	4	
709- 0180	18.00	18.00	92	32	4	
709- 0200	20.00	20.00	104	38	4	
709- 0250	25.00	25.00	104	38	6	
709- 0320	32.00	32.00	104	38	6	
709- 0340	34.00	32.00	104	38	6	
709- 0360	36.00	32.00	104	38	6	
709- 0380	38.00	32.00	104	38	6	
709- 0400	40.00	32.00	104	38	6	
709- 0450	45.00	32.00	104	38	6	
709- 0500	50.00	32.00	104	38	6	

UNI MILL 710

SOLID CARBIDE END MILLS

(EXTRA LONG SERIES)

LONG 4FL 30°

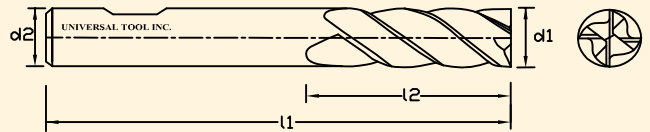
Acc. DIN 6527 long reinforce geometry, right hand cutting, straight shank with clamping flat. acc. DIN 6535 HB.

GEOMETRY AND APPLICATION

: 4 flutes, cutting helix angle 30° degrees, 2 flutes center cutting CNC grinding/web thickness enlarged especially rigid design / rack angle 6-8°

: For milling of form milling eg steel & steel casting <900n/mm2

Also offered on intermediate sizes on request.



Order No.	Mill Dia d1	Overall Length L1	Shank Dia d2	Length of cut L2	No. of fl Z	Prices
710- 0060	6.0	70	6	30	2	
710- 0080	8.0	80	8	35	2	
710- 0100	10.0	108	10	40	4	
710- 0120	12.0	108	12	45	4	
710- 0160	16.0	120	16	55	4	
710- 0200	20.0	120	20	60	4	
710- 0260	25.0	160	25	70	4	
710- 0280	28.0	160	28	70	4	
710- 0300	30.0	170	30	80	6	
710- 0320	32.0	170	32	80	6	
710- 0400	40.0	170	32	80	6	

Also offered in 2FL & 3FL

UNI MILL 711

SOILD CARBIDE SLOTTING END MILLS

2 FL ST

Solid carbide slotting end mill

Acc. Standard, right hand cutting, straight shank.

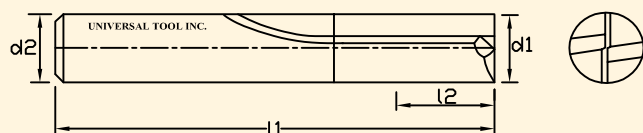
GEOMETRY AND APPLICATION

: 2 fluted, center cutting / outer corner with chamfer from 8 mm. straight flutes / rack angle 0°

: Slot mills for slot milling on hard materials, Exact profile copy.

For milling of cast iron, malleable cast iron steel, steel casting , brass , aluminium, graphite, plastics, glass - and carbon fiber.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
711- 0030	3.00	3.00	40	12	2	
711- 0035	3.50	3.50	40	12	2	
711- 0040	4.00	4.00	40	12	2	
711- 0045	4.50	4.50	50	14	2	
711- 0050	5.00	5.00	50	14	2	
711- 0060	6.00	6.00	50	16	2	
711- 0070	7.00	7.00	60	20	2	
711- 0080	8.00	8.00	60	20	2	
711- 0090	9.00	9.00	60	20	2	
711- 0100	10.00	10.00	70	22	2	
711- 0110	11.00	11.00	70	22	2	
711- 0120	12.00	12.00	70	22	2	
711- 0140	14.00	14.00	75	25	2	
711- 0160	16.00	16.00	75	25	2	
711- 0180	18.00	18.00	104	38	2	
711- 0200	20.00	20.00	104	38	2	
711- 0220	22.00	22.00	104	38	2	
711- 0240	24.00	24.00	104	38	2	
711- 0260	26.00	26.00	104	38	2	
711- 0280	28.00	28.00	104	38	2	
711- 0300	30.00	30.00	104	38	2	
711- 0320	32.00	32.00	104	38	2	

UNI MILL 712

SOLID CARBIDE SLOTTING END MILLS

(EXTRA LONG)

Extra long 4 - 6 FL 40°

Type, right hand cutting, straight shank acc . DIN 6535 HB, Extra long.

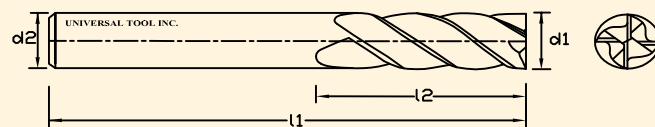
GEOMETRY AND APPLICATION

: Helix angle 40°, CNC grinding / 2 flute center cutting. web thickness standard / rack angle 6-8°

: Standard end mills for periphery and from milling.

For milling of steel, steel casting titanium and titanium alloy, non ferrous metals and plastics.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
712 - 0060	6.00	6.00	100	40	4	
712 - 0080	8.00	8.00	100	40	4	
712 - 0100	10.00	10.00	100	40	4	
712 - 0120	12.00	12.00	100	45	4	
712 - 0140A	14.00	14.00	100	45	4	
712 - 0140B	14.00	14.00	150	65	4	
712 - 0160A	16.00	16.00	100	45	4	
712 - 0160B	16.00	16.00	150	65	4	
712 - 0180A	18.00	18.00	125	50	4	
712 - 0180B	18.00	18.00	150	65	4	
712 - 0200A	20.00	20.00	125	65	4	
712 - 0200B	20.00	20.00	150	65	4	
712 - 0250A	25.00	25.00	125	55	6	
712 - 0250B	25.00	25.00	160	70	6	
712 - 0280A	28.00	28.00	128	60	6	
712 - 0280B	28.00	28.00	170	75	6	
712 - 0300A	30.00	30.00	130	60	6	
712 - 0300B	30.00	30.00	180	90	6	
712 - 0320A	32.00	32.00	130	60	6	
712 - 0320B	32.00	32.00	190	85	6	
712 - 0340	34.00	32.00	190	85	6	
712 - 0380	38.00	32.00	190	85	6	
712 - 0400	40.00	32.00	190	85	6	
712 - 0450	45.00	32.00	190	85	6	
712 - 0500	50.00	32.00	190	85	6	

UNI MILL 713

SOLID CARBIDE END MILLS

Long 3 FL 45°

Acc. DIN 6527 long, right hand cutting, straight shank 0.4-3.0 mm acc. 3.0 = 2.0 mm acc. DIN 6527 long.

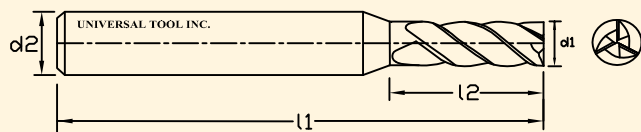
GOMETRY AND APPLICATION

: 3 fluted, helix angle 45 degrees, CNC grinding, 3 Fl. center cutting upto 3.0,

1 cutting edge above center from 3.5 /web thickness-standard / rack angle 6-8°

: Standard end mill for slot drilling and slot milling high accuracy in tolerance. Top surface quality e.g. for milling of steel, steel casting chrome nickel and titanium as well as non ferrous metals and plastics.

Also offered on intermediate sizes on request



Order No.	d1	d2	L1	L2	Z	Prices
713 - 0015	1.50	3.00	38	5	3	
713 - 0016	1.60	3.00	38	5	3	
713 - 0018	1.80	3.00	38	6	3	
713 - 0020	2.00	3.00	38	6	3	
713 - 0024	2.40	3.00	38	7	3	
713 - 0025	2.50	3.00	38	7	3	
713 - 0028	2.80	3.00	38	7	3	
713 - 0030A	3.00	3.00	38	7	3	
713 - 0030B	3.00	6.00	57	7	3	
713 - 0035	3.50	6.00	57	7	3	
713 - 0040A	4.00	6.00	57	8	3	
713 - 0040B	4.00	4.00	40	12	3	
713 - 0045	4.50	6.00	57	8	3	
713 - 0050A	5.00	5.00	50	14	3	
713 - 0050B	5.00	6.00	57	10	3	
713 - 0057	5.75	6.00	57	10	3	
713 - 0060	6.00	6.00	57	10	3	
713 - 0070	7.00	8.00	63	13	3	
713 - 0080	8.00	8.00	63	15	3	
713 - 0090	9.00	10.00	72	15	3	
713 - 0100	10.00	10.00	72	19	3	
713 - 0110	11.00	12.00	83	22	3	
713 - 0140	14.00	14.00	83	22	3	
713 - 0160	16.00	16.00	92	26	3	
713 - 0180	18.00	18.00	92	26	3	
713 - 0200	20.00	20.00	104	32	3	
713 - 0220	22.00	22.00	110	40	3	
713 - 0240	24.00	24.00	110	40	3	

Contd

(UNI MILL 713) SOLID CARBIDE END MILLS

Long 3 FL 45°

Order No.	d1	d2	L1	L2	Z	Prices
713 - 0260	26.00	26.00	110	40	3	
713 - 0280	28.00	28.00	110	40	3	
713 - 0300	30.00	30.00	110	40	3	
713 - 0320	32.00	32.00	110	40	3	
713 - 0340	34.00	32.00	110	40	3	
713 - 0360	36.00	32.00	110	40	3	
713 - 0380	38.00	32.00	110	40	3	
713 - 0400	40.00	32.00	110	40	3	
713 - 0450	45.00	32.00	110	40	3	
713 - 0500	50.00	32.00	110	40	3	

UNI MILL 714

SOLID CARBIDE END MILLS

4 FL 45°

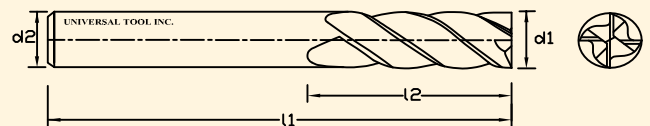
Acc. DIN 6527 long, right hand cutting, straight shank with chamfering flat acc to DIN 6527 HB.

GOMETRY AND APPLICATION

: 4 fluted / 2 fluted / center cutting helix angle 45 degree, CNC grinding web thickness enlarged especially rigid design / rack angle 6 - 8°

: Milling of cast iron, malleable cast, iron, steel casting, stainless steel, heat resisting steel, titanium alloy, non ferrous metals, graphite & plastics.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
714 - 0030	3.00	6.00	57	8	4	
714 - 0035	3.50	6.00	57	10	4	
714 - 0040	4.00	6.00	57	11	4	
714 - 0045	4.50	6.00	57	11	4	
714 - 0050	5.00	6.00	57	13	4	
714 - 0060	6.00	6.00	57	13	4	
714 - 0070	7.00	8.00	63	16	4	
714 - 0080	8.00	8.00	63	19	4	
714 - 0090	9.00	10.00	72	19	4	
714 - 0100	10.00	10.00	72	22	4	
714 - 0110	11.00	12.00	83	26	4	
714 - 0120	12.00	12.00	83	26	4	
714 - 0130	13.00	14.00	83	26	4	

Contd

Contd

Contd

(UNI MILL 714) SOLID CARBIDE END MILLS
Long 3 FL 45°

Order No.	d1	d2	L1	L2	Z	Prices
714 - 0140	14.00	14.00	83	26	4	
714 - 0160	16.00	16.00	92	32	4	
714 - 0180	18.00	18.00	100	40	4	
714 - 0200	20.00	20.00	105	45	4	
714 - 0220	22.00	22.00	105	45	4	
714 - 0250	25.00	25.00	110	45	4	
714 - 0280	28.00	28.00	110	45	4	
714 - 0300	30.00	30.00	110	45	4	
714 - 0320	32.00	32.00	110	45	4	
714 - 0360	36.00	32.00	110	45	4	
714 - 0400	40.00	32.00	110	45	4	
714 - 0450	45.00	32.00	110	45	4	
714 - 0500	50.00	32.00	110	45	4	

UNI MILL 715

SOLID CARBIDE END MILLS

Long 6-8 FL 45°

Acc. DIN 6527 long

GOMETRY AND APPLICATION

: Cylindrical sank with clamping fixture DIN 6535 HB/ 2 fluted center cutting. Helix angle 45 degree.

: Type A

End mill for surface and counter milling, especially finishing high accuracy in counter and profile top surface quality for heat-resisting and stainless steel as well as casting and non ferrous metals

: Type B

End mill for hard milling of 45-65 HRC and also high speed milling and finish milling with high feed rates.



Order No.	d1	d2	L1	L2	Z	Prices
715 - 0060	6.00	6.00	57	13	6	
715 - 0080	8.00	8.00	63	19	6	
715 - 0100	10.00	10.00	72	22	6	
715 - 0120	12.00	12.00	83	26	6	
715 - 0140	14.00	14.00	83	26	6	
715 - 0160	16.00	16.00	92	32	6	
715 - 0180	18.00	18.00	92	32	6	

Contd

Contd

(UNI MILL 715) SOLID CARBIDE END MILLS
Long 3 FL 45°

Order No.	d1	d2	L1	L2	Z	Prices
715 - 0200	20.00	20.00	104	38	8	
715 - 0250	25.00	25.00	110	40	8	
715 - 0320	32.00	32.00	110	40	8	
715 - 0360	36.00	32.00	110	40	8	
715 - 0400	40.00	32.00	110	40	8	
715 - 0450	45.00	32.00	110	40	8	
715 - 0500	50.00	32.00	110	40	8	

UNI MILL 716

SOLID CARBIDE END MILLS

Extra long 6-8 FL 45°

Acc. DIN 6527 long

GOMETRY AND APPLICATION

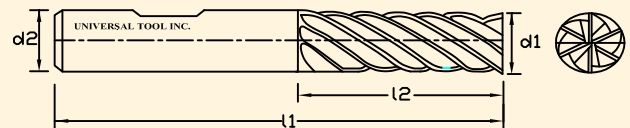
: Cylindrical sank with clamping fixture DIN 6535 HB/ 2 fluted center cutting. Helix angle 45 degree. rack angle 10-12°.

: Type A

End mill for surface and counter milling, especially finishing high accuracy in counter and profile top surface quality for heat-resisting and stainless steel as well as casting & non ferrous metals.

: Type B

End mill for hard milling of 45-65 HRC and also high speed milling and finish milling with high feed rates.

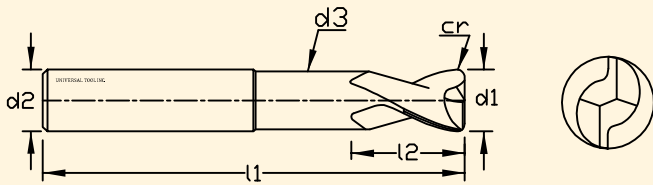


Order No.	d1	d2	L1	L2	Z	Prices
716 - 0060	6.00	6.00	62	18	6	
716 - 0080	8.00	8.00	68	24	6	
716 - 0100	10.00	10.00	80	30	6	
716 - 0120	12.00	12.00	93	36	6	
716 - 0140	14.00	14.00	99	42	6	
716 - 0160	16.00	16.00	108	48	6	
716 - 0180	18.00	18.00	114	54	8	
716 - 0200	20.00	20.00	125	60	8	
716 - 0250	25.00	25.00	150	75	8	
716 - 0320	32.00	32.00	160	85	8	
716 - 0350	35.00	32.00	160	85	8	
716 - 0400	40.00	32.00	160	85	8	
716 - 0450	45.00	32.00	160	85	8	
716 - 0500	50.00	32.00	160	85	8	

UNI MILL 743

SOLID CARBIDE CORNER RADIUS END MILL

NOTE: While ordering let us know Corner Radius TiAlN Coated.



UNI MILL 718

ALU CUT SOLID CARBIDE BALL NOSE END MILLS

(LONG)

For aluminium straight shank acc DIN 6535HA without clamping flat
Acc. DIN 6527 long

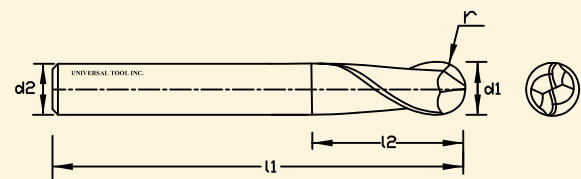
GOMETRY AND APPLICATION

: 2 fluted / right hand spiral 30° / right hand cutting center cutting.

- (a) For slot milling & from copy milling
- (b) For machining of aluminium & plastics.
- (c) High chip production due to high cutting power.

Also offered on intermediate sizes on request

L3 = Hole depth Thru coolant



Order No.	d1	d2	d3	L1	L2	L3	Corner Radius CR	Prices
743-0657	6	6	5.7	57	13	21		
743-0670	6	6	5.7	70	13	21		
743-0610	6	6	5.7	100	13	21		
743-0612	6	6	5.7	125	13	21		
743-0615	6	6	5.7	150	13	21		
743-0863	8	8	7.7	63	19	27		
743-0880	8	8	7.7	80	19	27		
743-0810	8	8	7.7	100	19	27		
743-0812	8	8	7.7	125	19	27		
743-0815	8	8	7.7	150	19	27		
743-1072	10	10	9.5	72	22	32		
743-1010	10	10	9.5	100	22	32		
743-1012	10	10	9.5	125	22	32		
743-1015	10	10	9.5	150	22	32		
743-1020	10	10	9.5	200	22	32		
743-1283	12	12	11.5	83	26	38		
743-1210	12	12	11.5	100	26	38		
743-1212	12	12	11.5	125	26	38		
743-1215	12	12	11.5	150	26	38		
743-1216	12	12	11.5	165	26	38		
743-1692	16	16	15.5	92	32	44		
743-1610	16	16	15.5	100	32	44		
743-1612	16	16	15.5	125	32	44		
743-1615	16	16	15.5	150	32	44		
743-1616	16	16	15.5	165	32	44		
743-1620	16	16	15.5	200	32	44		
743-2010	20	20	19.5	104	38	54		
743-2012	20	20	19.5	125	38	54		
743-2015	20	20	19.5	150	38	54		
743-2016	20	20	19.5	165	38	54		
743-2020	20	20	19.5	200	38	54		

Offered with CR
0.5, 1, 1.5, 2, 2.5, 3
Or Higher CR
Depending Upon Dia

Order No.	d1	d2	r	L1	L2	Prices
718 - 0010	1.00	6.00	0.5	57	10	
718 - 0020	2.00	6.00	1.0	57	10	
718 - 0030	3.00	6.00	1.5	60	20	
718 - 0040	4.00	6.0	2.0	60	20	
718 - 0050	5.00	6.0	2.5	60	20	
718 - 0060	6.00	6.0	3.0	100	40	
718 - 0080	8.00	8.0	4.0	100	40	
718 - 0100	10.00	10.0	5.0	120	50	
718 - 0120	12.00	12.0	6.0	120	60	
718 - 0160	16.00	16.0	8.0	150	90	
718 - 0200	20.00	20.0	10.0	150	90	
718 - 0220	22.00	22.00	11.0	150	90	
718 - 0240	24.00	24.00	12.0	150	90	
718 - 0260	26.00	26.00	13.0	150	90	
718 - 0280	28.00	28.00	14.0	150	90	
718 - 0300	30.00	30.00	15.0	160	100	
718 - 0350	36.00	32.00	16.0	160	100	
718 - 0400	40.00	32.00	20.0	170	110	
718 - 0450	45.00	32.00	22.5	170	110	
718 - 0500	50.00	32.00	25.0	170	110	

ALSO OFFERED IN 3 FL & 4F & EXTRA LONG DESIGN

UNI MILL 719

SOLID CARBIDE BALL NOSE END MILLS

(EXTRA LONG)

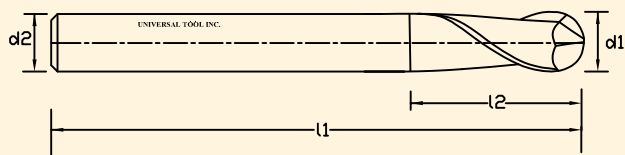
UT standard, tolerance of the end mill radius $R = R + / 0.02$

GEOMETRY AND APPLICATION

:2 fluted center cutting, radius on face cutting lips $R = 1/2d + 0.02$ helix angle 30° degrees, CNC grinding web thickness enlarged / rack angle $3-6^\circ$.

: Standard end mill for slot milling and from copying. For milling of cast iron, malleable cast iron, heat-resisting steel and plastics in design and profile manufacturing.

Also offered on intermediate sizes on request.



UNI MILL 720

SOLID CARBIDE BALL NOSE END MILLS

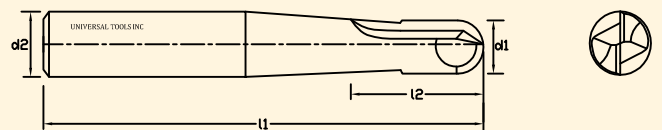
(LONG - EXTRA LONG)

Acc. UT standard, right hand cutting, straight shank.

GEOMETRY AND APPLICATION

:2 fluted CNC Grinding / 1 cutting edge above center exact face radius enlarged / short, straight flutes, web thickness enlarged / right tool design especially for high performance & long tool life / rack angle 0°

: Ball nose and mills for slot milling and from copying for milling of cast iron, malleable cast iron, heat resistant and high tensile in tool and profile manufacturing.



Order No.	d1	d2	L1	L2	Z	Prices
719 - 0030	3.00	6.00	70	12	2	
719 - 0040	4.00	6.00	70	12	2	
719 - 0050	5.00	6.00	80	15	2	
719 - 0060	6.00	6.00	80	15	2	
719 - 0070	7.00	8.00	90	20	2	
719 - 0080	8.00	8.00	90	20	2	
719 - 0090	9.00	10.00	100	25	2	
719 - 0100	10.00	10.00	100	25	2	
719 - 0110	11.00	12.00	110	30	2	
719 - 0120	12.00	12.00	110	30	2	
719 - 0130	13.00	16.00	120	35	2	
719 - 0160	16.00	16.00	120	40	2	
719 - 0170	17.00	20.00	130	40	2	
719 - 0180	18.00	20.00	130	40	2	
719 - 0190	19.00	20.00	130	40	2	
719 - 0200	20.00	20.00	130	45	2	
719 - 0210	21.00	25.00	140	45	2	
719 - 0220	22.00	25.00	140	45	2	
719 - 0230	23.00	25.00	140	50	2	
719 - 0240	24.00	25.00	140	50	2	
719 - 0250	25.00	25.00	140	55	2	
719 - 0260	26.00	26.00	140	55	2	
719 - 0280	28.00	28.00	150	60	2	
719 - 0300	30.00	30.00	150	60	2	
719 - 0320	32.00	32.00	150	65	2	
719 - 0340	34.00	32.00	150	65	2	
719 - 0360	36.00	32.00	160	70	2	
719 - 0380	38.00	32.00	160	70	2	
719 - 0400	40.00	32.00	160	70	2	
719 - 0450	45.00	32.00	160	70	2	
719 - 0500	50.00	32.00	160	70	2	

Order No.	d1	d2	L1	L2	Z	Prices
720 - 0030A	3.00	6.00	75	4.0	2	
720 - 0030B	3.00	6.00	100	4.0	2	
720 - 0040A	4.00	6.00	75	5.0	2	
720 - 0040B	4.00	6.00	100	5.0	2	
720 - 0050A	5.00	6.00	75	6.0	2	
720 - 0050B	5.00	6.00	100	6.0	2	
720 - 0060A	6.00	10.00	75	8.0	2	
720 - 0060B	6.00	10.00	100	8.0	2	
720 - 0080A	8.00	10.00	85	12.0	2	
720 - 0080B	8.00	10.00	110	12.0	2	
720 - 0080C	8.00	10.00	140	12.0	2	
720 - 0100A	10.00	12.00	100	16.0	2	
720 - 0100B	10.00	12.00	150	16.0	2	

World Class Tools From
World Class Universal Tool

UNI MILL 721

SOLID CARBIDE BALL NOSE END MILLS

(LONG)

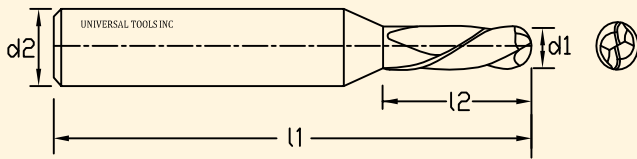
Acc. DIN 6527 long, right hand cutting, straight shank

GOMETRY AND APPLICATION

: 2 fluted, CNC radius face cutting tips $R = \frac{1}{2} d + 0.02$ / center cutting / helix angle 30 degree, CNC Grinding / web thickness enlarged / rack angle 3-6°

: Standard end mills for slot milling and from copying. For milling of cast iron, malleable cast iron, heat-resisting steel, steel casting, steel & casting in design & profile.

Also offered on intermediate sizes on request.



UNI MILL 722

SOLID CARBIDE BALL NOSE END MILLS

(LONG)

For aluminium

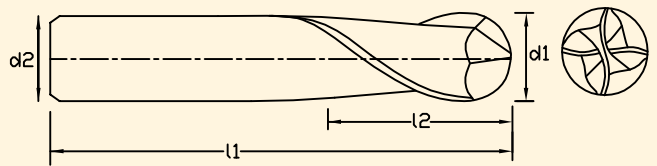
Acc. DIN 6527 long, right hand cutting, straight shank CNC radius face cutting tips $R = \frac{1}{2} d + 0.02$

GOMETRY AND APPLICATION

: 4 fluted / center cutting / helix angle 30° degree, CNC grinding / web thickness enlarged / rack angle 6°-80°

: Standard end mill for slot milling and from copying. For milling of cast iron, malleable cast iron, steel, steel casting, heat resisting steel and plastics in design and profile.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
721 - 0010	1.00	3.00	38	3	2	
721 - 0015	1.50	3.00	38	3	2	
721 - 0020	2.00	6.00	57	3	2	
721 - 0025	2.50	6.00	57	3	2	
721 - 0030	3.00	6.00	57	7	2	
721 - 0040	4.00	6.00	57	8	2	
721 - 0050	5.00	6.00	57	10	2	
721 - 0060	6.00	6.00	57	10	2	
721 - 0080	8.00	8.00	63	16	2	
721 - 0090	9.00	10.00	72	16	2	
721 - 0100	10.00	10.00	72	19	2	
721 - 0120	12.00	12.00	83	22	2	
721 - 0140	14.00	14.00	83	22	2	
721 - 0160	16.00	16.00	92	26	2	
721 - 0180	18.00	18.00	92	26	2	
721 - 0200	20.00	20.00	104	32	2	
721 - 0220	22.00	22.00	104	32	2	
721 - 0240	24.00	24.00	104	32	2	
721 - 0260	26.00	26.00	104	32	2	
721 - 0280	28.00	28.00	104	32	2	
721 - 0300	30.00	30.00	104	32	2	
721 - 0320	32.00	32.00	104	42	2	
721 - 0340	34.00	32.00	110	42	2	
721 - 0360	36.00	32.00	110	42	2	
721 - 0380	38.00	32.00	110	42	2	
721 - 0400	40.00	32.00	110	42	2	
721 - 0450	45.00	32.00	110	42	2	
721 - 0500	50.00	32.00	110	42	2	

Order No.	d1 h10	d2 h6	L1 mm	L2 mm	Z	Prices
722 - 0030	3.00	6.00	57	8	4	
722 - 0040	4.00	6.00	57	11	4	
722 - 0050	5.00	6.00	57	13	4	
722 - 0060	6.00	6.00	57	13	4	
722 - 0080	8.00	8.00	63	19	4	
722 - 0100	10.00	10.00	72	22	4	
722 - 0120	12.00	12.00	83	26	4	
722 - 0140	14.00	14.00	83	26	4	
722 - 0160	16.00	16.00	92	32	4	
722 - 0200	20.00	20.00	104	38	4	
722 - 0220	22.00	22.00	104	38	4	
722 - 0240	24.00	24.00	104	38	4	
722 - 0260	26.00	26.00	104	38	4	
722 - 0280	28.00	28.00	104	38	4	
722 - 0300	30.00	30.00	104	38	4	
722 - 0320	32.00	32.00	104	38	4	
722 - 0340	34.00	32.00	110	45	4	
722 - 0360	36.00	32.00	110	45	4	
722 - 0380	38.00	32.00	110	45	4	
722 - 0400	40.00	32.00	110	45	4	
722 - 0450	45.00	32.00	110	45	4	
722 - 0500	50.00	32.00	110	45	4	

Also offered in 2FL & 3FL

UNI MILL 723

SOLID CARBIDE BALL NOSE END MILLS

(EXTRA LONG)

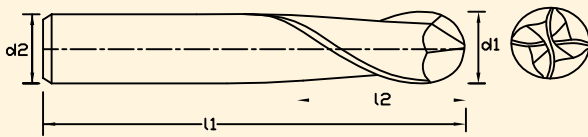
Acc. to UT standard, right hand cutting, straight shank .CNC radius face cutting tips $R = 1/2 d + 0.02$

GEOMETRY AND APPLICATION

: 4 flute/center cutting/helix angle 30° degree, CNC Grinding / web thickness enlarged/ rack angle 3° - 6° Tialn coated

: Standard end mills for slot milling and from copying. For milling of cast iron, malleable cast iron, heat- resisting steel, steel casting , steel & plastic in design profile manufacturing

Also offered on intermediate sizes on request.



UNI MILL 724

SOLID CARBIDE BALL END MILLS

(LONG)

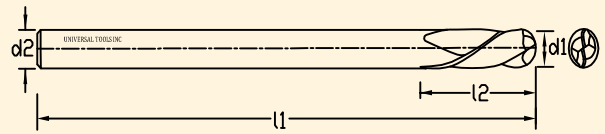
Acc. UT standard, right hand cutting, straight shank . CNC radius face cutting tips $R = 1/2d + 0.02$

GEOMETRY AND APPLICATION

: 2 fluted /center cutting / helix angle 30° degree, CNC grinding / web thickness enlarged/ rack angle special. Tialn Coated.

: Standard end mills for slot milling and from copying. For milling of cast iron, malleable cast iron, steel, steel casting, heat resisting steel and plastics in design and profile.

Also offered on intermediate sizes on request



Order No.	d1	d2	L1 mm	L2 mm	Z	Prices
723 - 0030	3.00	6.00	70	12	4	
723 - 0040A	4.00	6.00	70	12	4	
723 - 0040B	4.00	6.00	100	12	4	
723 - 0060	6.00	6.00	80	15	4	
723 - 0080	8.00	8.00	90	20	4	
723 - 0100	10.00	10.00	100	25	4	
723 - 0120	12.00	12.00	110	30	4	
723 - 0160	16.00	16.00	120	40	4	
723 - 0200	20.00	20.00	130	45	4	
723 - 0220	22.00	22.00	140	50	4	
723 - 0240	24.00	24.00	150	55	4	
723 - 0260	26.00	26.00	160	55	4	
723 - 0280	28.00	28.00	160	60	4	
723 - 0300	30.00	30.00	160	60	4	
723 - 0320	32.00	32.00	170	70	4	
723 - 0340	34.00	32.00	170	70	4	
723 - 0360	36.00	32.00	170	70	4	

Also offered in 3FL ,2FL

Order No.	d1	R	L1	L2	d2	Prices
724 -0030A	3.0	1.5	80	10	3	
724 -0030B	3.0	1.5	100	10	3	
724 -0040A	4.0	2.0	80	15	4	
724 -0040B	4.0	2.0	100	15	4	
724 -0060	6.0	3.0	110	20	6	
724 -0065	6.0	3.0	160	25	6	
724 -0080	8.0	4.0	160	30	8	
724 -0085	8.0	4.0	200	35	8	
724 -0100	10.0	5.0	160	40	10	
724 -0105	10.0	5.0	200	45	10	
724 -0120	12.0	6.0	160	50	12	
724 -0125	12.0	6.0	200	55	12	
724 -0160	16.0	8.0	160	60	16	
724 -0165	16.0	8.0	200	65	16	
724 -0200	20.0	10.0	160	70	20	
724 -0205	20.0	10.0	200	75	20	
724 -0210	20.0	10.0	320	80	20	
724 -0250	25.0	12.5	200	85	25	
724 -0255	25.0	12.5	320	90	25	
724 -0320	32.0	16.0	200	95	32	
724 -0325	32.0	16.0	320	100	32	
724 -0360	36.0	18.0	200	95	32	
724 -0365	36.0	18.0	320	100	32	

Also offered in 2FL &3FL

UNI MILL 725

SOLID CARBIDE LONG BALL END MILLS (G)

(FOR GRAPHITE)

Acc. to UT standard, right hand cutting, straight shank.

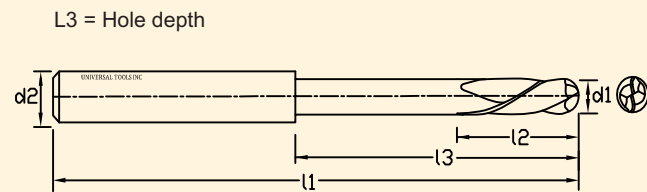
CNC radius face cutting

tips $R = 1/2 d + 0.02$

GOMETRY AND APPLICATION

: 2 fluted / center cutting / helix angle 30° degree, CNC grinding / web thickness enlarged/ rack angle special.

Also offered on intermediate sizes on request.



Order No.	R	L1	L2	d2	d1	L3	Prices
725 - 0010	1.0	160	6	6	2.0	95	
725 - 0015	1.5	160	8	6	3.0	80	
725 - 0020	2.0	160	10	8	4.0	85	
725 - 0030	3.0	160	20	10	6.0	80	
725 - 0040	4.0	160	30	12	8.0	70	
725 - 0050	5.0	160	40	12	10.0	55	
725 - 0060	6.0	160	50	16	12.0	50	
725 - 0030A	3.0	200	20	10	6.0	70	
725 - 0040A	4.0	200	30	12	8.0	70	
725 - 0050A	5.0	200	40	12	10.0	50	
725 - 0060A	6.0	200	50	16	12.0	80	
725 - 0080	8.0	200	60	20	16.0	85	

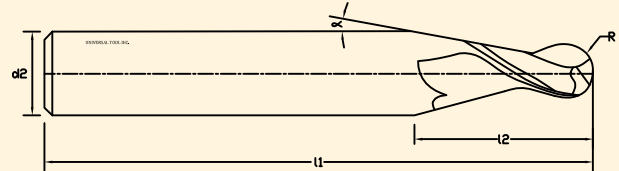
UNI MILL 734

SOLID CARBIDE TAPER BALL END MILLS

(EXTRA LONG)

Note: $\alpha/2 = 0.5^\circ, 10^\circ, 1.5^\circ, 2^\circ, 2.5^\circ, 3^\circ, 3.5^\circ, 4^\circ, 4.5^\circ, 5^\circ, 5.5^\circ, 10^\circ, 15^\circ$ etc.

Also offered on intermediate sizes on request.



Order No.	d1	d2	L1	L2	Z	Prices
734 - 0010	1.00	3.0	40	4	2	
734 - 0015	1.50	3.0	40	6	2	
734 - 0020	2.0	4.0	50	10	2	
734 - 0025A	2.50	5.0	50	10	2	
734 - 0025B	2.50	6.0	65	20	3	
734 - 0030A	3.0	8.0	70	28	3	
734 - 0030B	3.0	10.0	80	30	3	
734 - 0030C	3.0	10.0	90	40	3	
734 - 0035A	3.5	10.0	80	30	3	
734 - 0035B	3.5	12.0	110	48	3	
734 - 0040A	4.0	8.0	65	22	3	
734 - 0040B	4.0	10.0	80	32	3	
734 - 0040C	4.0	12.0	100	45	3	
734 - 0045	4.5	10.0	80	30	3	
734 - 0050A	5.0	12.0	100	40	3	
734 - 0050B	5.0	16.0	115	62	3	
734 - 0060A	6.0	12.0	90	32	3	
734 - 0060B	6.0	16.0	110	55	3	
734 - 0080A	8.0	14.0	90	32	4	
734 - 0080B	8.0	18.0	110	50	4	
734 - 0100A	10.0	16.0	90	32	4	
734 - 0100B	10.0	20.0	115	55	4	
734 - 0120A	12.0	18.0	90	32	4	
734 - 0120B	12.0	20.0	100	45	4	
734 - 0140	14.0	22.0	150	50	4	
734 - 0160	16.0	25.0	180	50	4	
734 - 0200	20.0	32.0	200	60	4	
734 - 0250	25.0	40.0	250	80	4	

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