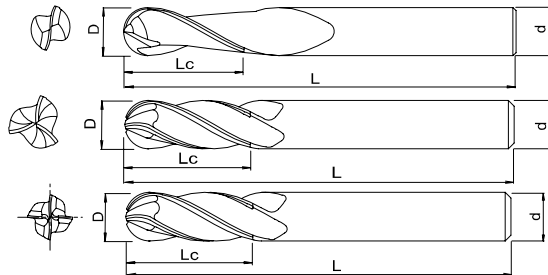


402BN, 403BN, 404BN



Inch Sizes, 2, 3, or 4 Flute, Ball End



EDP Number			Mill Diameter	OAL	Length of Cut	Shank Diameter
402BN	403BN	404BN				
2 Flute	3 Flute	4 Flute	D	L	Lc	d
402-0312-BN	—	404-0312-BN	1/32	1-1/2	1/8	1/8
402-0469-BN	—	404-0469-BN	3/64	1-1/2	9/64	1/8
402-0625-BN	403-0625-BN	404-0625-BN	1/16	1-1/2	3/16	1/8
402-0781-BN	403-0781-BN	404-0781-BN	5/64	1-1/2	1/4	1/8
402-0938-BN	403-0938-BN	404-0938-BN	3/32	1-1/2	5/16	1/8
402-1094-BN	403-1094-BN	404-1094-BN	7/64	1-1/2	3/8	1/8
402-1250-BN	403-1250-BN	404-1250-BN	1/8	1-1/2	1/2	1/8
402-1406-BN	403-1406-BN	404-1406-BN	9/64	2	1/2	3/16
402-1562-BN	403-1562-BN	404-1562-BN	5/32	2	9/16	3/16
402-1719-BN	403-1719-BN	404-1719-BN	11/64	2	9/16	3/16
402-1875-BN	403-1875-BN	404-1875-BN	3/16	2	5/8	3/16
402-2031-BN	403-2031-BN	404-2031-BN	13/64	2-1/2	5/8	1/4
402-2188-BN	403-2188-BN	404-2188-BN	7/32	2-1/2	5/8	1/4
402-2344-BN	403-2344-BN	404-2344-BN	15/64	2-1/2	3/4	1/4
402-2500-BN	403-2500-BN	404-2500-BN	1/4	2-1/2	3/4	1/4
402-2656-BN	403-2656-BN	404-2656-BN	17/64	2-1/2	3/4	5/16
402-2812-BN	403-2812-BN	404-2812-BN	9/32	2-1/2	3/4	5/16
402-2969-BN	403-2969-BN	404-2969-BN	19/64	2-1/2	13/16	5/16
402-3125-BN	403-3125-BN	404-3125-BN	5/16	2-1/2	13/16	5/16
402-3281-BN	—	404-3281-BN	21/64	2-1/2	7/8	3/8
402-3438-BN	—	404-3438-BN	11/32	2-1/2	7/8	3/8
402-3594-BN	—	404-3594-BN	23/64	2-1/2	7/8	3/8
402-3750-BN	403-3750-BN	404-3750-BN	3/8	2-1/2	1	3/8
402-3906-BN	—	404-3906-BN	25/64	2-3/4	1	7/16
402-4062-BN	—	404-4062-BN	13/32	2-3/4	1	7/16
402-4219-BN	—	404-4219-BN	27/64	2-3/4	1	7/16
402-4375-BN	403-4375-BN	404-4375-BN	7/16	2-3/4	1	7/16
402-4531-BN	—	404-4531-BN	29/64	3	1	1/2
402-4688-BN	—	404-4688-BN	15/32	3	1	1/2
402-4844-BN	—	404-4844-BN	31/64	3	1	1/2
402-5000-BN	403-5000-BN	404-5000-BN	1/2	3	1	1/2

Packed: 1 pc. Specify treatment at time of order: 11 = TiAIN. TiCN coating available on request.

continued on next page

Work Material																
List No.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
402BN	○	○	○	○	○	○	○	○			○	○		○	○	
403BN	○	○	○	○	○	○	○	○			○	○		○	○	○
404BN	○	○	○	○	○	○	○	○			○	○		○	○	○

○ good ⊗ best



Carbide

Micrograin Carbide

402BN, 403BN, 404BN (cont.)

SPEED
FEED
P839-840

CARBIDE

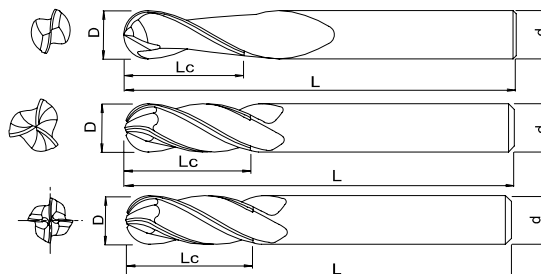
TiAIN

BR



30°

Inch Sizes, 2, 3, or 4 Flute, Ball End



EDP Number			Mill Diameter	OAL	Length of Cut	Shank Diameter
402BN	403BN	404BN				
2 Flute	3 Flute	4 Flute	D	L	Lc	d
402-5625-BN	403-5625-BN	404-5625-BN	9/16	3-1/2	1-1/8	9/16
402-6250-BN	403-6250-BN	404-6250-BN	5/8	3-1/2	1-1/4	5/8
402-6875-BN	403-6875-BN	404-6875-BN	11/16	4	1-3/8	3/4
402-7500-BN	403-7500-BN	404-7500-BN	3/4	4	1-1/2	3/4
402-8750-BN	403-8750-BN	404-8750-BN	7/8	4	1-1/2	7/8
402-1000-BN	403-1000-BN	404-1000-BN	1	4	1-1/2	1

Packed: 1 pc. Specify treatment at time of order: 11 = TiAIN, TiCN coating available on request.



Ball Nose Carbide

Work Material																
List No.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
402BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
403BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
404BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

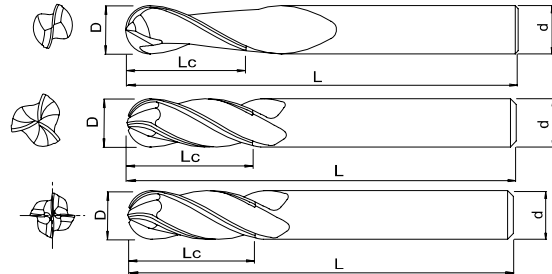
good best



402BN, 403BN, 404BN



Metric Sizes, 2, 3, or 4 Flute, Ball End



EDP Number			Mill Diameter	OAL	Length of Cut	Shank Diameter
402BN	403BN	404BN				
2 Flute	3 Flute	4 Flute	D	L	Lc	d
402-0197-BN	—	—	0.5	39	1.5	3
402-0394-BN	403-0394-BN	404-0394-BN	1.0	39	3	3
402-0591-BN	403-0591-BN	404-0591-BN	1.5	39	5	3
402-0787-BN	403-0787-BN	404-0787-BN	2.0	39	7	3
402-0984-BN	403-0984-BN	404-0984-BN	2.5	39	8	3
402-1181-BN	403-1181-BN	404-1181-BN	3.0	39	10	3
402-1378-BN	403-1378-BN	404-1378-BN	3.5	51	12	4
402-1575-BN	403-1575-BN	404-1575-BN	4.0	51	14	4
402-1772-BN	403-1772-BN	404-1772-BN	4.5	51	14	5
402-1968-BN	403-1968-BN	404-1968-BN	5.0	51	16	5
402-2362-BN	403-2362-BN	404-2362-BN	6.0	64	19	6
402-2756-BN	403-2756-BN	404-2756-BN	7.0	64	19	8
402-3150-BN	403-3150-BN	404-3150-BN	8.0	64	21	8
402-3543-BN	403-3543-BN	404-3543-BN	9.0	70	22	10
402-3937-BN	403-3937-BN	404-3937-BN	10.0	70	25	10
402-4331-BN	403-4331-BN	404-4331-BN	11.0	70	25	11
402-4724-BN	403-4724-BN	404-4724-BN	12.0	76	25	12
402-5512-BN	403-5512-BN	404-5512-BN	14.0	89	30	14
402-6299-BN	403-6299-BN	404-6299-BN	16.0	89	32	16
402-7087-BN	403-7087-BN	404-7087-BN	18.0	102	35	18
402-7874-BN	403-7874-BN	404-7874-BN	20.0	102	38	20
402-8661-BN	403-8661-BN	404-8661-BN	22.0	102	38	22
402-9843-BN	403-9843-BN	404-9843-BN	25.0	102	38	25

Packed: 1 pc. Specify treatment at time of order: 11 = TiAIN.
TiCN coating available on request.



Work Material																
List No.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
402BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
403BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
404BN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

good best



Carbide

Micrograin Carbide

List 452BN, 454BN

SPEED
FEED
P839-840

CARBIDE

BR



30°

Plus Tolerance, 2 or 4 Flute, Ball End

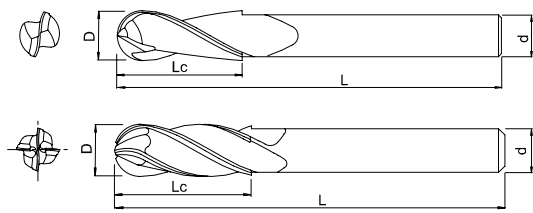


452BN



454BN

UPGRADED!
Available While
Supplies Last



EDP Number		Mill Diameter	OAL	Length of Cut	Shank Diameter
452BN	454BN				
2 Flute	4 Flute	D	L	Lc	d
452-0625-BN	454-0625-BN	1/16	1-1/2	3/16	1/8
452-0938-BN	454-0938-BN	3/32	1-1/2	5/16	1/8
452-1250-BN	454-1250-BN	1/8	1-1/2	1/2	1/8
452-1562-BN	454-1562-BN	5/32	2	9/16	3/16
452-1875-BN	454-1875-BN	3/16	2	5/8	3/16
452-2188-BN	454-2188-BN	7/32	2-1/2	5/8	1/4
452-2500-BN	454-2500-BN	1/4	2-1/2	3/4	1/4
452-2812-BN	454-2812-BN	9/32	2-1/2	3/4	5/16
452-3125-BN	454-3125-BN	5/16	2-1/2	13/16	5/16
452-3750-BN	454-3750-BN	3/8	2-1/2	1	3/8
452-4375-BN	454-4375-BN	7/16	2-3/4	1	7/16
452-5000-BN	454-5000-BN	1/2	3	1	1/2
452-5625-BN	454-5625-BN	9/16	3-1/2	1-1/8	9/16
452-6250-BN	454-6250-BN	5/8	3-1/2	1-1/4	5/8
452-6875-BN	454-6875-BN	11/16	4	1-3/8	3/4
452-7500-BN	454-7500-BN	3/4	4	1-1/2	3/4
452-1000-BN	454-1000-BN	1	4	1-1/2	1

Packed: 1 pc.

TiN, TiCN, TiAlN coatings available on request.



Ball Nose Carbide

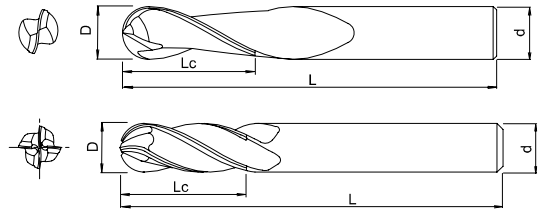
Work Material																
Chart applies to all list numbers on this page.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>

good best



List 412BN, 414BN

Stub Length, Inch Sizes, 2 or 4 Flute, Ball End



EDP Number		Mill Diameter	OAL	Length of Cut	Shank Diameter
412BN	414BN				
2 Flute	4 Flute	D	L	Lc	d
412-0312-BN	414-0312-BN	1/32	1-1/2	5/64	1/8
412-0469-BN	414-0469-BN	3/64	1-1/2	3/32	1/8
412-0625-BN	414-0625-BN	1/16	1-1/2	1/8	1/8
412-0781-BN	414-0781-BN	5/64	1-1/2	5/32	1/8
412-0938-BN	414-0938-BN	3/32	1-1/2	3/16	1/8
412-1094-BN	414-1094-BN	7/64	1-1/2	7/32	1/8
412-1250-BN	414-1250-BN	1/8	1-1/2	1/4	1/8
412-1406-BN	414-1406-BN	9/64	2	9/32	3/16
412-1562-BN	414-1562-BN	5/32	2	5/16	3/16
412-1875-BN	414-1875-BN	3/16	2	3/8	3/16
412-2188-BN	414-2188-BN	7/32	2	7/16	1/4
412-2500-BN	414-2500-BN	1/4	2	1/2	1/4
412-3125-BN	414-3125-BN	5/16	2	1/2	5/16
412-3750-BN	414-3750-BN	3/8	2	5/8	3/8
412-4375-BN	414-4375-BN	7/16	2-1/2	5/8	7/16
412-5000-BN	414-5000-BN	1/2	2-1/2	5/8	1/2
412-6250-BN	414-6250-BN	5/8	3	3/4	5/8
412-7500-BN	414-7500-BN	3/4	3	1	3/4

Packed: 1 pc.

TiN, TiCN, TiAlN coatings available on request.



Work Material

Chart applies to all list numbers on this page.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

good best



Carbide

Micrograin Carbide

List 412BN, 414BN

SPEED FEED
P839-840

CARBIDE

BR

STUB



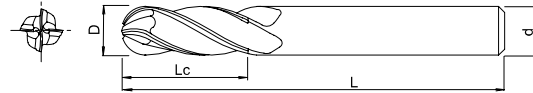
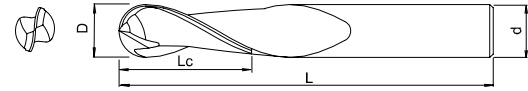
Stub Length, Metric Sizes, 2 or 4 Flute, Ball End



412BN



414BN



EDP Number		Mill Diameter	OAL	Length of Cut	Shank Diameter
412BN	414BN				
2 Flute	4 Flute	D	L	Lc	d
412-0394-BN	414-0394-BN	1.0	39	2	3
412-0591-BN	414-0591-BN	1.5	39	3	3
412-0787-BN	414-0787-BN	2.0	39	4	3
412-0984-BN	414-0984-BN	2.5	39	5	3
412-1181-BN	414-1181-BN	3.0	39	6	3
412-1378-BN	414-1378-BN	3.5	51	7	4
412-1575-BN	414-1575-BN	4.0	51	8	4
412-1772-BN	414-1772-BN	4.5	51	9	5
412-1968-BN	414-1968-BN	5.0	51	10	5
412-2362-BN	414-2362-BN	6.0	51	12	6
412-2756-BN	414-2756-BN	7.0	51	12	8
412-3150-BN	414-3150-BN	8.0	51	12	8
412-3543-BN	414-3543-BN	9.0	51	14	10
412-3937-BN	414-3937-BN	10.0	51	14	10
412-4331-BN	414-4331-BN	11.0	64	16	11
412-4724-BN	414-4724-BN	12.0	64	16	12

Packed: 1 pc.

TiN, TiCN, TiAlN coatings available on request.



Ball Nose Carbide

Work Material																
Chart applies to all list numbers on this page.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061 7075	Castings		1010 1018	1035 1045	1065	4140 4340	20 HRC	6AL4V (30HRC)	Inconel	300	400	17-4PH	~35 HRC	35-45 HRC	45-50 HRC
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

good best

