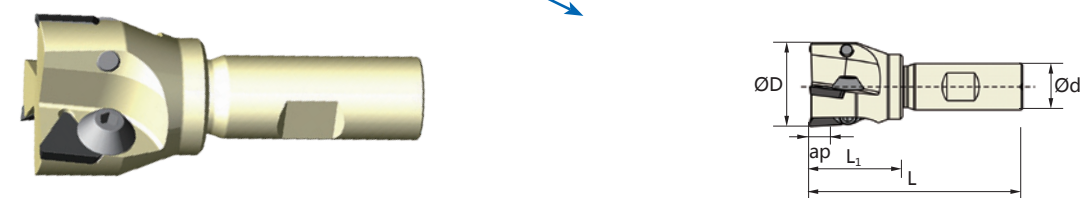


▲ USAM- □ - □ -TPU- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-0.75"-TPU322-02	1.25"	0.75"	1.531"	3.5"	0.528"	2	○
USAM-1.50"-0.75"-TPU322-03	1.50"	0.75"	1.531"	3.5"	0.528"	3	○
USAM-2.00"-0.75"-TPU322-03	2.00"	0.75"	1.531"	3.5"	0.528"	3	○

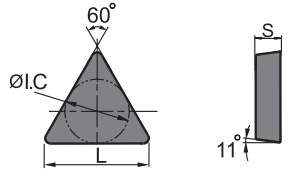
● Available in Stock ○ Make-to-Order

▲ USAM- □ -R8-TPU- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-R8-TPU322-02	1.25"	8"	1.700"	6"	0.528"	2	○
USAM-1.50"-R8-TPU322-03	1.50"	8"	1.700"	6"	0.528"	3	○
USAM-2.00"-R8-TPU322-03	2.00"	8"	1.700"	6"	0.528"	3	○
USAM-2.00"-R8-TPU432-03	2.00"	8"	1.385"	6"	0.782"	3	○

● Available in Stock ○ Make-to-Order



▲ Selection of inserts

Insert shape	Type	Dimensions(inch)				Coated grade										Cermet	Cemented carbide					
		L	ØIC	S	r	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD101	YD201
	TPUN322	0.581	0.375	0.125	0.031		○	○	○					○								
	TPUN432	0.820	0.500	0.187	0.031		○		○						○							

● Available in Stock ○ Make-to-Order



Milling Tools

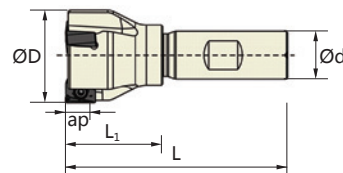
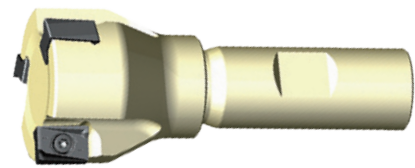


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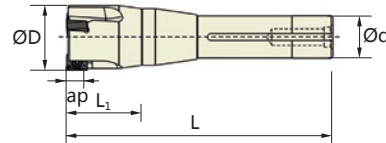
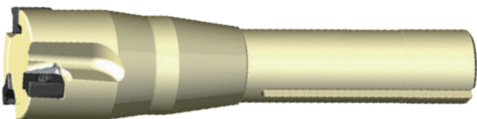
▲ USAM- □ - □ -AN11- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-0.75"-0.75"-AN11-01	0.75"	0.75"	1.181"	3.5"	0.441"	1	○
USAM-1.00"-0.75"-AN11-02	1.00"	0.75"	1.531"	3.5"	0.441"	2	○
USAM-1.25"-0.75"-AN11-02	1.25"	0.75"	1.531"	3.5"	0.441"	2	○
USAM-1.50"-0.75"-AN11-03	1.50"	0.75"	1.531"	3.5"	0.441"	3	○
USAM-2.00"-0.75"-AN11-04	2.00"	0.75"	1.531"	3.5"	0.441"	4	○

● Available in Stock ○ Make-to-Order

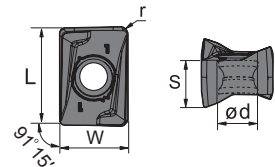
▲ USAM- □ -R8-AN11- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-0.75"-R8-AN11-01	0.75"	8"	1.181"	6"	0.441"	1	○
USAM-1.00"-R8-AN11-02	1.00"	8"	1.378"	6"	0.441"	2	○
USAM-1.25"-R8-AN11-02	1.25"	8"	1.531"	6"	0.441"	2	○
USAM-1.50"-R8-AN11-03	1.50"	8"	1.531"	6"	0.441"	3	○
USAM-2.00"-R8-AN11-04	2.00"	8"	1.531"	6"	0.441"	4	○

● Available in Stock ○ Make-to-Order

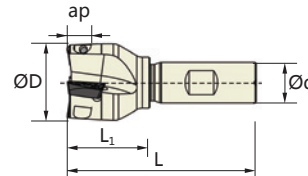
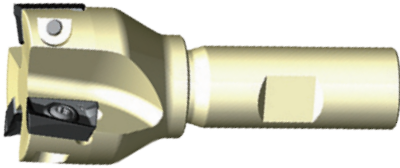
▲ Selection of inserts



Insert shape	Type	Dimensions(inch)					Coated grade										Cermet		Cemented carbide				
		L	W	S	ød	r	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD101	YD201
	ANGX110504PNR-GM	0.467	0.331	0.224	0.138	0.016			●		●				●								
	ANGX110508PNR-GM	0.467	0.331	0.224	0.138	0.031			●		●				●								

● Available in Stock ○ Make-to-Order

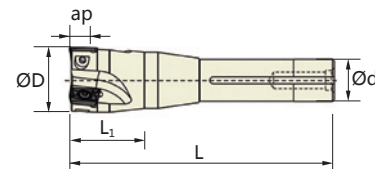
▲ USAM- □ - □ -AP16- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-0.75"-AP16-02	1.25"	0.75"	1.531"	3.5"	0.630"	2	○
USAM-1.50"-0.75"-AP16-03	1.50"	0.75"	1.531"	3.5"	0.630"	3	○
USAM-2.00"-0.75"-AP16-04	2.00"	0.75"	1.531"	3.5"	0.630"	4	○

● Available in Stock ○ Make-to-Order

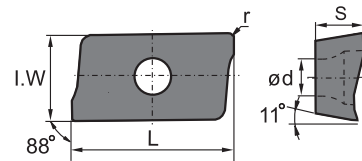
▲ USAM- □ -R8-AP16- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-R8-AP16-02	1.25"	8"	1.7"	6"	0.630"	2	○
USAM-1.50"-R8-AP16-03	1.50"	8"	1.7"	6"	0.630"	3	○
USAM-2.00"-R8-AP16-04	2.00"	8"	1.7"	6"	0.630"	4	○

● Available in Stock ○ Make-to-Order

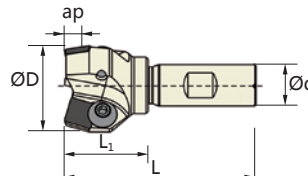
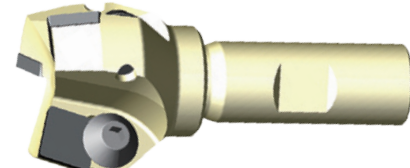
▲ Selection of inserts



Insert shape	Type	Dimensions(inch)					Coated grade								Uncoated grade		
		L	I.W	S	ød	r	YBC302	YBM251	YBM253	YBM351	YBD252	YBG102	YBG202	YBG205	YB9320	YD101	YD201
	APKT160408-ALH	0.704	0.367	0.227	0.173	0.031										●	●
	APKT160408-APM	0.704	0.367	0.227	0.173	0.031									●		
	APKT160408-APF	0.704	0.367	0.227	0.173	0.031									●		

● Available in Stock ○ Make-to-Order

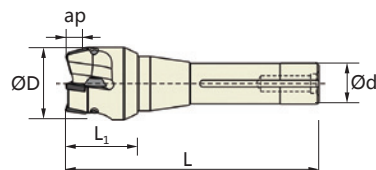
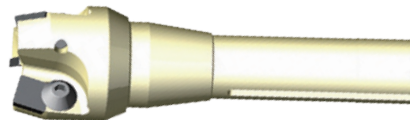
▲ USAM- □ - □ -SPU- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-0.75"-SPU422-02	1.25"	0.75"	1.531"	3.5"	0.442"	2	○
USAM-1.50"-0.75"-SPU422-03	1.50"	0.75"	1.531"	3.5"	0.442"	3	○
USAM-2.00"-0.75"-SPU422-04	2.00"	0.75"	1.531"	3.5"	0.442"	4	○

● Available in Stock ○ Make-to-Order

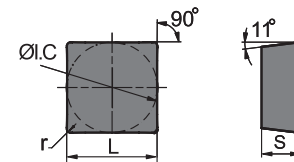
▲ USAM- □ -R8-SPU- □



Item Description	Basic Dimentions (in)					No. of Teeth Z	Stock
	ØD	Ød	L ₁	L	a _p max		
USAM-1.25"-R8-SPU422-02	1.25"	8"	1.7"	6"	0.442"	2	○
USAM-1.50"-R8-SPU422-03	1.50"	8"	1.7"	6"	0.442"	3	○
USAM-2.00"-R8-SPU422-04	2.00"	8"	1.7"	6"	0.442"	4	○

● Available in Stock ○ Make-to-Order

▲ Selection of inserts



Insert shape	Type	Dimensions(inch)				Coated grade										Cermet		Cemented carbide				
		L	S	ØIC	r	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBC302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD101	YD201
	SPUN422	0.5	0.125	0.5	0.031		○		○					○								
	SPUN423	0.5	0.125	0.5	0.047		○							○								

● Available in Stock ○ Make-to-Order