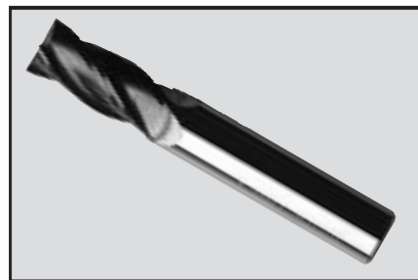


# Carbide Endmills TiAlN Coated

Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTMES01	1.0mm Endmill TiAlN	1.0	3.0	3.0	39
CTMES015	1.5mm Endmill TiAlN	1.5	3.0	5.0	39
CTMES02	2mm Endmill TiAlN	2.0	3.0	7.0	39
CTMES025	2.5mm Endmill TiAlN	2.5	3.0	7.0	39
CTMES03	3mm Endmill TiAlN	3.0	3.0	9.0	39
CTMES035	3.5mm Endmill TiAlN	3.5	4.0	12.0	51
CTMES04	4mm Endmill TiAlN	4.0	4.0	14.0	51
CTMES045	4.5mm Endmill TiAlN	4.5	5.0	14.0	51
CTMES05	5mm Endmill TiAlN	5.0	5.0	16.0	51
CTMES06	6mm Endmill TiAlN	6.0	6.0	19.0	64
CTMES07	7mm Endmill TiAlN	7.0	8.0	19.0	64
CTMES08	8mm Endmill TiAlN	8.0	8.0	21.0	64
CTMES09	9mm Endmill TiAlN	9.0	9.0	22.0	70
CTMES10	10mm Endmill TiAlN	10.0	10.0	22.0	70
CTMES11	11mm Endmill TiAlN	11.0	11.0	25.0	70
CTMES12	12mm Endmill TiAlN	12.0	12.0	25.0	76
CTMES14	14mm Endmill TiAlN	14.0	14.0	30	89
CTMES16	16mm Endmill TiAlN	16.0	16.0	32	89
CTMES18	18mm Endmill TiAlN	18.0	18.0	35	102
CTMES20	20mm Endmill TiAlN	20.0	20.0	38	102
CTMES22	22mm Endmill TiAlN	22.0	20.0	38	102
CTMES25	25mm Endmill TiAlN	25.0	25.0	38	102

## Regular Length



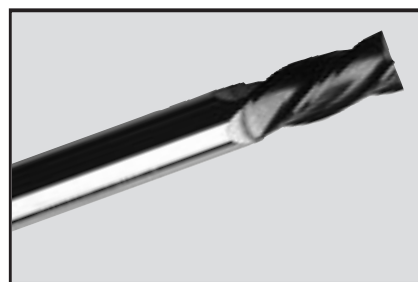
**Titanium Aluminium Nitride Coating**

**Suitable for a wide range of abrasive & difficult materials in machine applications.**

**Reduces the use of coolants.**

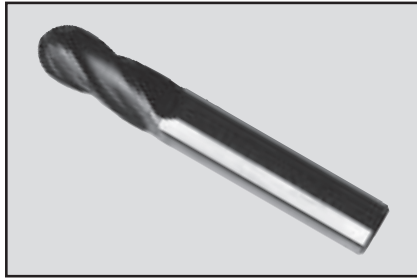
Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTMEX03	3mm Xlong E/Mill TiAlN	3.0	3.0	25.0	75
CTMEX04	4mm Xlong E/Mill TiAlN	4.0	4.0	28.0	75
CTMEX05	5mm Xlong E/Mill TiAlN	5.0	5.0	32.0	75
CTMEX06	6mm Xlong E/Mill TiAlN	6.0	6.0	38.0	100
CTMEX08	8mm Xlong E/Mill TiAlN	8.0	8.0	41.0	100
CTMEX10	10mm Xlong E/Mill TiAlN	10.0	10.0	44.0	100
CTMEX12	12mm Xlong E/Mill TiAlN	12.0	12.0	75.0	150
CTMEX14	14mm Xlong E/Mill TiAlN	14.0	14.0	75.0	150
CTMEX16	16mm Xlong E/Mill TiAlN	16.0	16.0	75.0	150
CTMEX18	18mm Xlong E/Mill TiAlN	18.0	18.0	75.0	150
CTMEX20	20mm Xlong E/Mill TiAlN	20.0	20.0	75.0	150

## Extra Long Length



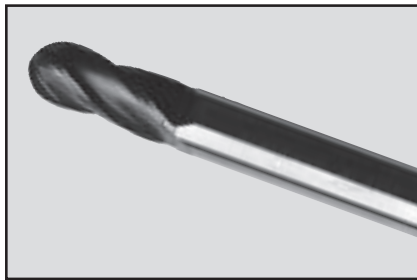
# Carbide Ballnose Endmills TiAlN Coated

## Regular Length



Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTBEM015	1.5mm TiAlN B/N E/Mill	1.5	3.0	5.0	39
CTBEM02	2mm TiAlN B/N E/Mill	2.0	3.0	7.0	39
CTBEM025	2.5mm TiAlN B/N E/Mill	2.5	3.0	7.0	39
CTBEM03	3mm TiAlN B/N E/Mill	3.0	3.0	9.0	39
CTBEM035	3.5mm TiAlN B/N E/Mill	3.5	4.0	12.0	51
CTBEM04	4mm TiAlN B/N E/Mill	4.0	4.0	14.0	51
CTBEM045	4.5mm TiAlN B/N E/Mill	4.5	5.0	14.0	51
CTBEM05	5mm TiAlN B/N E/Mill	5.0	5.0	16.0	51
CTBEM06	6mm TiAlN B/N E/Mill	6.0	6.0	19.0	64
CTBEM08	8mm TiAlN B/N E/Mill	8.0	8.0	21.0	64
CTBEM10	10mm TiAlN B/N E/Mill	10.0	10.0	22.0	70
CTBEM12	12mm TiAlN B/N E/Mill	12.0	12.0	25.0	76
CTBEM14	14mm TiAlN B/N E/Mill	14.0	14.0	30.0	89
CTBEM16	16mm TiAlN B/N E/Mill	16.0	16.0	32.0	89
CTBEM18	18mm TiAlN B/N E/Mill	18.0	18.0	38.0	102
CTBEM20	20mm TiAlN B/N E/Mill	20.0	20.0	38.0	102
CTBEM25	25mm TiAlN B/N E/Mill	25.0	25.0	38.0	102

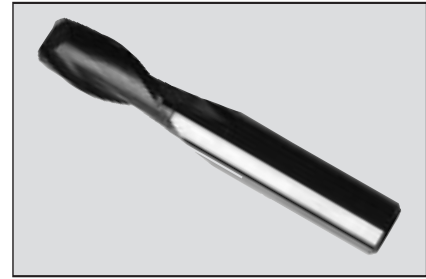
## Extra Long Length



Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTMEXLB03	3mm X/Long TiAlN B/N E/Mill	3.0	3.0	25.0	76
CTMEXLB04	4mm X/Long TiAlN B/N E/Mill	4.0	4.0	28.0	76
CTMEXLB05	5mm X/Long TiAlN B/N E/Mill	5.0	5.0	32.0	76
CTMEXLB06	6mm X/Long TiAlN B/N E/Mill	6.0	6.0	38.0	102
CTMEXLB08	8mm X/Long TiAlN B/N E/Mill	8.0	8.0	42.0	102
CTMEXLB10	10mm X/Long TiAlN B/N E/Mill	10.0	10.0	45.0	102
CTMEXLB12	12mm X/Long TiAlN B/N E/Mill	12.0	12.0	76.0	153
CTMEXLB14	14mm X/Long TiAlN B/N E/Mill	14.0	14.0	76.0	153
CTMEXLB16	16mm X/Long TiAlN B/N E/Mill	16.0	16.0	76.0	153
CTMEXLB18	18mm X/Long TiAlN B/N E/Mill	18.0	18.0	76.0	153
CTMEXLB20	20mm X/Long TiAlN B/N E/Mill	20.0	20.0	76.0	153

# Carbide Slot Drills TiAlN Coated

Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTMSS01	1mm Slotdrill TiAlN	1.0	3.0	3.0	39
CTMSS015	1.5mm Slotdrill TiAlN	1.5	3.0	5.0	39
CTMSS02	2mm Slotdrill TiAlN	2.0	3.0	7.0	39
CTMSS025	2.5mm Slotdrill TiAlN	2.5	3.0	7.0	39
CTMSS03	3mm Slotdrill TiAlN	3.0	3.0	9.0	39
CTMSS035	3.5mm Slotdrill TiAlN	3.5	4.0	12.0	51
CTMSS04	4mm Slotdrill TiAlN	4.0	4.0	14.0	51
CTMSS045	4.5mm Slotdrill TiAlN	4.5	5.0	14.0	51
CTMSS05	5mm Slotdrill TiAlN	5.0	5.0	16.0	51
CTMSS06	6mm Slotdrill TiAlN	6.0	6.0	19.0	64
CTMSS07	7mm Slotdrill TiAlN	7.0	7.0	19.0	64
CTMSS08	8mm Slotdrill TiAlN	8.0	8.0	21.0	64
CTMSS09	9mm Slotdrill TiAlN	9.0	10.0	22.0	70
CTMSS10	10mm Slotdrill TiAlN	10.0	10.0	22.0	70
CTMSS11	11mm Slotdrill TiAlN	11.0	11.0	25.0	70
CTMSS12	12mm Slotdrill TiAlN	12.0	12.0	25.0	70
CTMSS14	14mm Slotdrill TiAlN	14.0	14.0	30.0	89
CTMSS16	16mm Slotdrill TiAlN	16.0	16.0	32.0	89
CTMSS18	18mm Slotdrill TiAlN	18.0	18.0	35.0	102
CTMSS20	20mm Slotdrill TiAlN	20.0	20.0	38.0	102
CTMSS22	22mm Slotdrill TiAlN	22.0	22.0	38.0	102
CTMSS25	25mm Slotdrill TiAlN	25.0	25.0	38.0	102



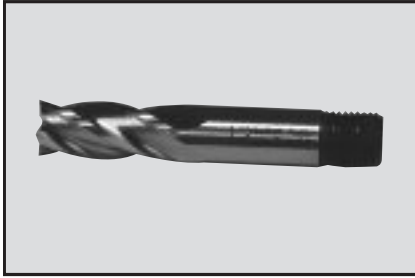
# Carbide Ballnose Slots TiAlN Coated

Part No.	Description	Size mm	Shank Dia mm	Length of Cut	Overall Length
CTBSM01	1mm B/N Reg TiAlN S/Drill	1.0	3.0	3.0	39
CTBSM015	1.5mm B/N Reg TiAlN S/Drill	1.5	3.0	5.0	39
CTBSM02	2mm B/N Reg TiAlN S/Drill	2.0	3.0	7.0	39
CTBSM025	2.5mm B/N Reg TiAlN S/Drill	2.5	3.0	7.0	39
CTBSM03	3mm B/N Reg TiAlN S/Drill	3.0	3.0	9.0	39
CTBSM035	3.5mm B/N Reg TiAlN S/Drill	3.5	4.0	12.0	51
CTBSM04	4mm B/N Reg TiAlN S/Drill	4.0	4.0	14.0	51
CTBSM045	4.5mm B/N Reg TiAlN S/Drill	4.5	5.0	14.0	51
CTBSM05	5mm B/N Reg TiAlN S/Drill	5.0	5.0	16.0	51
CTBSM06	6mm B/N Reg TiAlN S/Drill	6.0	6.0	19.0	64
CTBSM08	8mm B/N Reg TiAlN S/Drill	8.0	8.0	21.0	64
CTBSM10	10mm B/N Reg TiAlN S/Drill	10.0	10.0	22.0	70
CTBSM12	12mm B/N Reg TiAlN S/Drill	12.0	12.0	25.0	76
CTBSM14	14mm B/N Reg TiAlN S/Drill	14.0	14.0	30.0	89
CTBSM16	16mm B/N Reg TiAlN S/Drill	16.0	16.0	32.0	89
CTBSM20	20mm B/N Reg TiAlN S/Drill	20.0	20.0	38.0	102
CTBSM22	22mm B/N Reg TiAlN S/Drill	22.0	22.0	38.0	102
CTBSM25	25mm B/N Reg TiAlN S/Drill	25.0	25.0	38.0	102



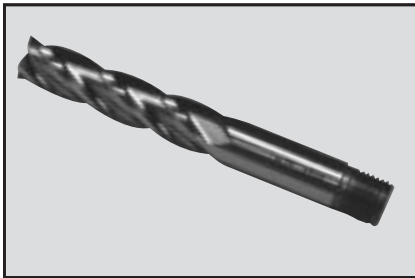
# Endmills - HSS Co

## Short Series



Part No.	Description	Size mm	Shank Size	Overall Length	Length of Cut	No. Flutes
MES03	3mm S.S. End Mill	3.0	6	54.0	9.5	4
MES04	4mm S.S. End Mill	4.0	6	57.0	12.5	4
MES05	5mm S.S. End Mill	5.0	6	60.5	16.0	4
MES06	6mm S.S. End Mill	6.0	6	60.5	16.0	4
MES07	7mm S.S. End Mill	7.0	10	63.5	15.0	4
MES08	8mm S.S. End Mill	8.0	10	66.5	18.0	4
MES10	10mm S.S. End Mill	10.0	10	70.0	21.0	4
MES12	12mm S.S. End Mill	12.0	12	73.0	24.0	4
MES14	14mm S.S. End Mill	14.0	12	77.0	28.5	4
MES16	16mm S.S. End Mill	16.0	16	80.0	26.5	4
MES18	18mm S.S. End Mill	18.0	16	80.0	35.0	4
MES20	20mm S.S. End Mill	20.0	16	83.5	38.0	4
MES22	22mm S.S. End Mill	22.0	25	98.5	41.5	4
MES25	25mm S.S. End Mill	25.0	25	101.5	44.5	4

## Long Series

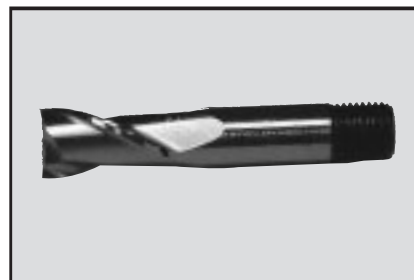


Part No.	Description	Size mm	Shank Size	Overall Length	Length of Cut	No. Flutes
MEL03	3mm L/S Endmill	3.0	6	64.0	19.0	4
MEL04	4mm L/S Endmill	4.0	6	70.0	26.0	4
MEL05	5mm L/S Endmill	5.0	6	76.0	32.0	4
MEL06	6mm L/S Endmill	6.0	6	76.0	32.0	4
MEL08	8mm L/S Endmill	8.0	10	79.5	34.0	4
MEL10	10mm L/S Endmill	10.0	10	82.5	37.0	4
MEL12	12mm L/S Endmill	12.0	12	95.0	49.5	4
MEL14	14mm L/S Endmill	14.0	12	101.5	57.0	4
MEL16	16mm L/S Endmill	16.0	16	115.0	70.0	4
MEL18	18mm L/S Endmill	18.0	16	115.0	70.0	4
MEL20	20mm L/S Endmill	20.0	16	121.5	76.0	4

# Slot Drills - HSS Co

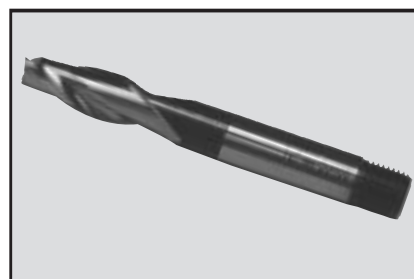
Part No.	Description	Size mm	Shank Size	Overall Length	Length of Cut	No. Flutes
MSS02	2mm S.S. slot Drill	2.0	6	49.0	3.0	2
MSS03	3mm S.S. Slot Drill	3.0	6	51.0	7.5	2
MSS04	4mm S.S. Slot Drill	4.0	6	52.5	9.5	2
MSS05	5mm S.S. Slot Drill	5.0	6	52.5	9.5	2
MSS06	6mm S.S. Slot Drill	6.0	6	56.5	11.0	2
MSS07	7mm S.S Slot Drill	7.0	10	59.5	11.0	2
MSS08	8mm S.S. Slot Drill	8.0	10	59.5	12.5	2
MSS09	9mm S.S Slot Drill	9.0	10	60.5	14.0	2
MSS10	10mm S.S. Slot Drill	10.0	10	60.5	14.5	2
MSS12	12mm S.S. Slot Drill	12.0	12	66.5	19.0	2
MSS14	14mm S.S. Slot Drill	14.0	12	68.5	22.0	2
MSS15	15mm S.S Slot Drill	15.0	16	72.0	22.0	2
MSS16	16mm S.S. Slot Drill	16.0	16	72.0	22.0	2
MSS18	18mm S.S Slot Drill	18.0	16	74.0	24.0	2
MSS20	20mm S.S. Slot Drill	20.0	16	77.0	25.5	2
MSS25	25mm S.S. Slot Drill	25.0	25	101.0	27.0	2

## Short Series



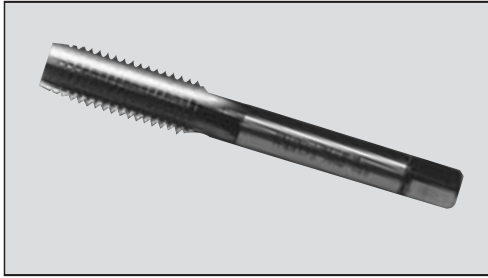
Part No.	Description	Size mm	Shank Size	Overall Length	Length of Cut	No. Flutes
MSL02	2mm L/S Slotdrill	2.0	6	51.0	4.0	2
MSL03	3mm L/S Slotdrill	3.0	6	60.5	11.0	2
MSL04	4mm L/S Slotdrill	4.0	6	66.5	12.5	2
MSL05	5mm L/S Slotdrill	5.0	6	70.0	12.5	2
MSL06	6mm L/S Slotdrill	6.0	6	76.0	16.0	2
MSL07	7mm L/S Slotdrill	7.0	10	76.0	16.0	2
MSL08	8mm L/S Slotdrill	8.0	10	79.5	19.0	2
MSL09	9mm L/S Slotdrill	9.0	10	82.5	22.0	2
MSL10	10mm L/S Slotdrill	10.0	10	82.5	22.0	2
MSL12	12mm L/S Slotdrill	12.0	12	95.0	25.5	2
MSL14	14mm L/S slotdrill	14.0	12	101.5	28.5	2
MSL15	15mm L/S Slotdrill	15.0	16	108.0	31.5	2
MSL16	16mm L/S Slotdrill	16.0	16	108.0	31.5	2
MSL18	18mm L/S Slotdrill	18.0	16	114.5	35.0	2
MSL20	20mm L/S slotdrill	20.0	16	120.5	38.0	2

## Long Series



# Taps

## Hand Tap Sets



Available in Individual leads:-  
Taper, Intermediate, Bottoming  
and other thread configurations

Part No.	Description
TMS03	3mm Tap Set HSS
TMS04	4mm Tap Set HSS
TMS05	5mm Tap Set HSS
TMS06	6mm Tap Set HSS
TMS08	8mm Tap Set HSS
TMS10	10mm Tap Set HSS
TMS12	12mm Tap Set HSS
TMS14	14mm Tap Set HSS
TMS16	16mm Tap Set HSS
TMS18	18mm Tap Set HSS
TMS20	20mm Tap Set HSS
TMS24	24mm Tap Set HSS
TWS08	Set 1/8 BSW Hand Taps HSS
TWS10	Set 5/32 BSW Hand Taps HSS
TWS12	Set 3/16 BSW Hand Taps HSS
TWS16	Set 1/4 BSW Hand Taps
TSW20	Set 5/16 BSW Hand Taps HSS
TWS24	Set 3/8 BSW Hand Taps HSS
TWS28	Set 7/16 BSW Hand Taps HSS
TWS32	Set 1/2 BSW Hand Taps HSS

## Metric & Imperial Gun Taps

Gun Taps HSS-E



Part No.	Description
TMG03	3mm Gun Tap HSS
TMG04	4mm Gun Tap HSS
TMG05	5mm Gun Tap HSS
TMG06	6mm Gun Tap HSS
TMG08	8mm Gun Tap HSS
TMG10	10mm Gun Tap HSS
TMG12	12mm Gun Tap HSS
TMG14	14mm Gun Tap HSS
TMG16	16mm Gun Tap HSS
TMG18	18mm Gun Tap HSS
TMG20	20mm Gun Tap HSS
TWG16	1/4 BSW Gun Tap HSS
TWG20	5/16 BSW Gun Tap HSS
TWG24	3/8 BSW Gun Tap HSS
TWG32	1/2 BSW Gun Tap HSS
TWG40	5/8 BSW Gun Tap HSS
TWG48	3/4 BSW Gun Tap HSS

Part No.	Description
TSM03	3mm Spiral Fluted Tap HSS
TSM04	4mm Spiral Fluted Tap HSS
TSM05	5mm Spiral Fluted Tap HSS
TSM06	6mm Spiral Fluted Tap HSS
TSM08	8mm Spiral Fluted Tap HSS
TSM10	10mm Spiral Fluted Tap HSS
TSM12	12mm Spiral Fluted Tap HSS
TSM16	16mm Spiral Fluted Tap HSS
TSM20	20mm Spiral Fluted Tap HSS

Part No.	Description
TPTH08	1/8 BSPT Hales Tap HSS
TPTH16	1/4 BSPT Hales Tap HSS
TPTH24	3/8 BSPT Hales Tap HSS
TPTH32	1/2 BSPT Hales Tap HSS
TPTH48	3/4 BSPT Hales Tap HSS
TPTH64	1 BSPT Hales Tap HSS

## Spiral Flute Taps

### Spiral Flute Taps HSS-E

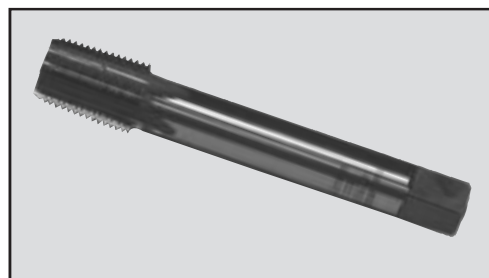


Also available in BSW 1/4 - 3/4

## Flush Seal Hales

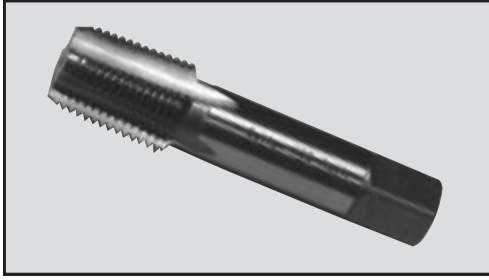
### BSPT Taps

#### Long Shank BSPT



# Hales Taps

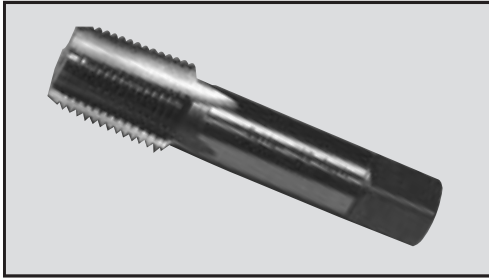
## BSPT Standard Pipe Taps Pipe Taps HSS



Rc Series (BSPT)

Part No.	Description
TPT08ORD	1/8 BSPT Tap HSS
TPT16ORD	1/4 BSPT Tap HSS
TPT24ORD	3/8 BSPT Tap HSS
TPT32ORD	1/2 BSPT Tap HSS
TPT48ORD	3/4 BSPT Tap HSS

## BSP Standard Taps Available in Taper, Intermediate & Bottoming



Part No.	Description
TP081	1/8 BSP Taper Tap HSS
TP082	1/8 BSP Inter Tap HSS
TP083	1/8 BSP Bott Tap HSS
TP161	1/4 BSP Taper Tap HSS
TP162	1/4 BSP Inter Tap HSS
TP163	1/4 BSP Bott Tap HSS
TP241	3/8 BSP Taper Tap HSS
TP242	3/8 BSP Inter Tap HSS
TP243	3/8 BSP Bott Tap HSS
TP321	1/2 BSP Taper Tap HSS
TP322	1/2 BSP Inter Tap HSS
TP323	1/2 BSP Bott Tap HSS
TP481	3/4 BSP Taper Tap HSS
TP482	3/4 BSP Inter Tap HSS
TP483	3/4 BSP Bott Tap HSS
TP641	1" BSP Taper Tap HSS
TP642	1" BSP Inter Tap HSS
TP643	1" BSP Bott Tap HSS



# HSS Jobber Drills

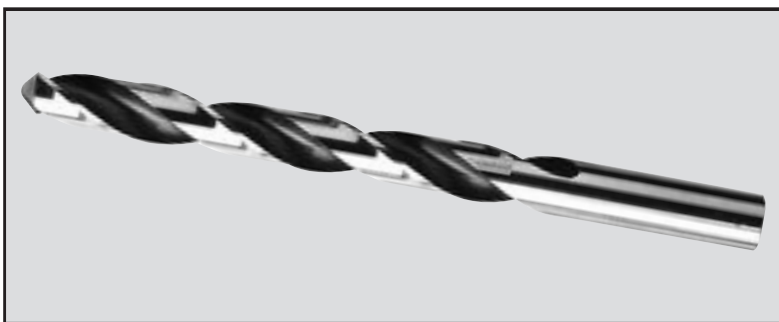
General purpose drills designed for machine & hand held drilling, for a wide range of materials.

A full range of both metric & imperial drills available.

Metric from .35 – 13mm

Inch from 1/16 – 1/2

Number drills also available



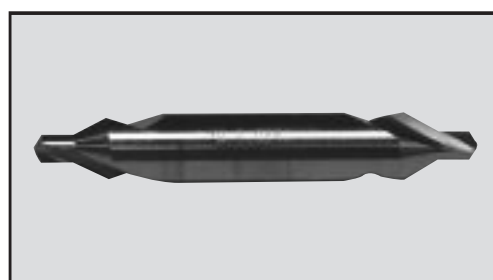
## Jobber Drill Sets

Part No.	Range & Rise	No. of Drills per Set
DSET-S1	1/16-1/4 x 64ths	13
DSET-S2	1/16 – 3/8 x 64th	21
DSET-S3	1/16 – 1/2 x 64th	25
DSET-SM1	1.0 - 6.5mm x .05	12
DSET-SM2	1.0 – 10.0mm x .05	19
DSET-SM3	1.0 – 13.0mm x .05	25
DSET-SM99	1.0 – 10.0mm x .01 10.5mm – 13mm	100



## HSS Centre Drills

Part No.	Description
CD1	No. 1 Centre Drills
CD2	No. 2 Centre Drills
CD3	No. 3 Centre Drills
CD4	No. 4 Centre Drills
CD5	No. 5 Centre Drills
CD6	No. 6 Centre Drills
CD7	No. 7 Centre Drills



Double ended centering drills used to ensure accurate starting & centering when precision drilling is required.

# Masonry Drills



Tungsten Carbide tipped.  
Also available in double brick.

## SF STD Fixing

Part No.	Metric	Imperial	Length Overall
MDMS03	3	1/8	x 60
MDMS04	4	5/32	x75
MDMS05	5	3/16	x 85
MDMS055	5.5	7/32	x 85
MDMS06	6	1/4	x 100
MDMS065	6.5	1/4	x 100
MDMS07	7	9/32	x 100
MDMS08	8	5/16	x 120
MDMS09	9	11/32	x 120
MDMS10	10	3/8	x 120

## SB - Single Brick

Part No.	Metric	Imperial	Length Overall
MDML05	5	3/16	x 150
MDML055	5.5	7/32	x 150
MDML06	6	1/4	x 150
MDML065	6.5	1/4	x 150
MDML07	7	9/32	x 150
MDML08	8	5/16	x 150
MDML10	10	3/8	x 150
MDML11	11	7/16	x 150
MDML12	12	15/32	x 150
MDML13	13	1/2	x 150
MDML14	14	9/16	x 150
MDML16	16	5/8	x 150
MDML20	20	3/4	x 160
MDML22	22	7/8	x 160
MDML25	25	1"	x 150

# Drills Long Series

Part No.	Diameter	Overall Length	Flute Length
LDM02	2.0	108	57
LDM025	2.5	117	64
LDM3	3.0	130	70
LDM035	3.5	137	76
LDM04	4.0	146	86
LDM045	4.5	146	86
LDM05	5.0	152	92
LDM055	5.5	152	92
LDM06	6.0	156	95
LDM065	6.5	159	98
LDM07	7.0	159	98
LDM075	7.5	162	102
LDM08	8.0	165	105
LDM085	8.5	165	105
LDM09	9.0	171	108
LDM095	9.5	171	108
LDM10	10.0	178	111
LDM105	10.5	184	117
LDM11	11.0	184	117
LDM115	11.5	184	117
LDM12	12.0	197	121
LDM125	12.5	197	121
LDM13	13.0	203	121

## Metric Series



Long series drills are longer in the flute length and overall length than standard jobber drills. They are used for drilling deep holes or in locations which cannot be reached with standard length jobber drills.

# Drills Long Series

## Imperial Series



Long series drills are longer in the flute length and overall length than standard jobber drills. They are used for drilling deep holes or in locations which cannot be reached with standard length jobber drills.

Part No.	Diameter	Overall Length	Flute Length
LD04	1/16	3	1 3/4
LD05	5/64	3 3/4	2
LD06	3/32	4 1/4	2 1/4
LD07	7/64	4 5/8	2 1/2
LD08	1/8	5/8	2 3/4
LD09	9/64	5 3/8	3
LD10	5/32	5 3/8	3
LD11	11/64	5 3/4	3 3/8
LD12	3/16	5 3/4	3 3/8
LD13	13/64	6	3 5/8
LD14	7/32	6	3 5/8
LD15	15/64	6 1/8	3 3/4
LD16	1/4	6 1/8	3 3/4
LD17	17/64	6 1/4	3 7/8
LD18	9/32	6 1/4	3 7/8
LD19	19/64	6 3/8	4
LD20	5/16	6 3/8	4
LD21	21/64	6 1/2	4 1/8
LD22	11/32	6 1/2	4
LD23	23/64	6 3/4	4 1/4
LD24	3/8	6 3/4	4 1/4
LD25	25/64	7	4 3/8
LD26	13/32	7	4 3/8
LD27	27/64	7 1/4	4 5/8
LD28	7/16	7 1/4	4 5/8
LD29	29/64	7 1/2	4 3/4
LD30	15/32	7 1/2	4 3/4
LD32	1/2	7 3/4	4 3/4
LD36	9/16	8 1/4	4 7/8

# Drills - Morse Taper Shank

Part No.	Diameter mm	Overall Length mm	Morse Taper No.	Flute Length mm
TSDM12	12.0	182	1	101
TSDM125	12.5	182	1	101
TSDM13	13	182	1	101
TSDM135	13.5	189	1	108
TSDM14	14	189	1	108
TSDM145	14.5	212	2	114
TSDM15	15	212	2	114
TSDM155	15.5	218	2	120
TSDM16	16	218	2	120
TSDM165	16.5	223	2	125
TSDM17	17	223	2	125
TSDM175	17.5	228	2	130
TSDM18	18	228	2	130
TSDM185	18.5	233	2	135
TSDM19	19	233	2	135
TSDM195	19.5	238	2	150
TSDM20	20	238	2	150
TSDM205	20.5	243	2	145
TSDM21	21	243	2	145
TSDM215	21.5	248	2	150
TSDM22	22	248	2	150
TSDM225	22.5	253	2	155
TSDM23	23	253	2	155
TSDM235	23.5	276	3	155
TSDM24	24	281	3	160
TSDM245	24.5	281	3	160
TSDM25	25	281	3	160
TSDM255	25.5	286	3	165
TSDM26	26	286	3	165
TSDM265	26.5	286	3	165
TSDM27	27	291	3	170
TSDM275	27.5	291	3	170
TSDM28	28	291	3	170
TSDM285	28.5	296	3	175
TSDM29	29	296	3	175
TSDM295	29.5	296	3	175
TSDM30	30	296	3	175

\* More sizes available upon request



Morse Taper Shank (MTS) drills are general purpose drills suitable for a variety of materials and industrial applications. They have a morse taper shank for holding and driving.

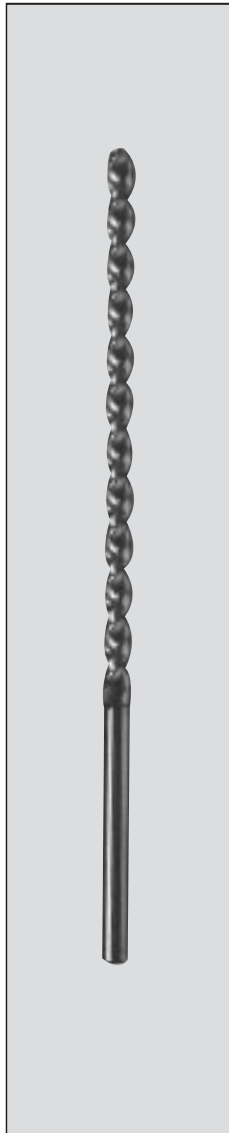
**Also available:**

- Morse Taper Drill Sleeves (designed to adapt the machine spindle to the size of the MTS drill)
- Drill Drifts (to remove the drill from the sleeve)

# Deep Hole Drills

**Extended Length**  
5% Cobalt High Speed Steel,  
TiNite Coated

Featuring parabolic deep-hole  
flute design with extra length  
Available in 3 series lengths



Series One



Series Two

## SERIES ONE

Part No.	Diameter	Flute Length	Overall Length
DM02135	2.0	90	135
DM025140	2.5	95	140
DM03150	3.0	105	155
DM035165	3.5	115	165
DM04175	4.0	120	175
DM045185	4.5	125	185
DM05195	5.0	135	195
DM055205	5.5	140	205
DM06205	6.0	140	205
DM065215	6.5	150	215
DM07225	7.0	155	225
DM075225	7.5	155	225
DM08240	8.0	165	240
DM085240	8.5	165	240
DM09250	9.0	175	250
DM095250	9.5	175	250
DM10265	10.0	185	265

## SERIES TWO

Part No.	Diameter	Flute Length	Overall Length
DM03200	3.0	135	200
DM035210	3.5	145	210
DM04220	4.0	150	220
DM045235	4.5	160	235
DM05260	5.0	180	260
DM055260	5.5	180	260
DM06260	6.0	180	260
DM065275	6.5	190	275
DM07290	7.0	200	290
DM075290	7.5	200	290
DM08305	8.0	210	305
DM085305	8.5	210	305
DM09320	9.0	220	320
DM095320	9.5	220	320
DM10340	10.0	235	340

# Deep Hole Drills

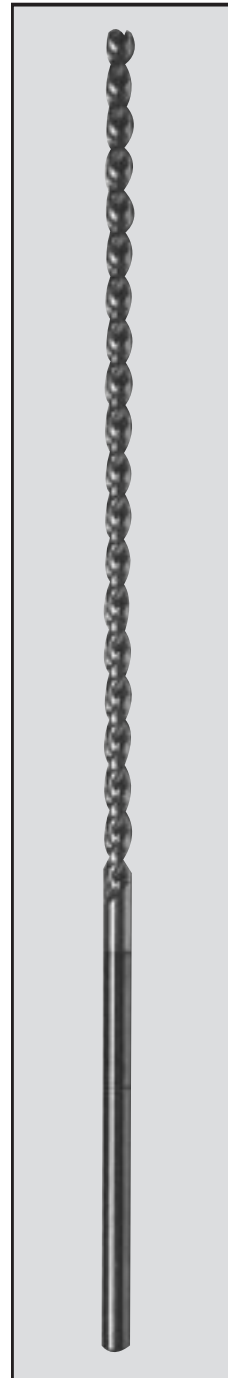
## SERIES THREE

Part No.	Diameter	Flute Length	Overall Length
DM035265	3.5	180	265
DM04280	4.0	190	280
DM45295	4.5	200	295
DM05315	5.0	210	315
DM055330	5.5	225	330
DM06330	6.0	225	330
DM065350	6.5	235	350
DM07370	7.0	250	370
DM075370	7.5	250	370
DM08390	8.0	265	390
DM083590	8.5	265	390
DM09410	9.0	280	410
DM095410	9.5	280	410
DM10430	10.0	295	430

## Extended Length

5% Cobalt High Speed Steel,  
TiNite Coated

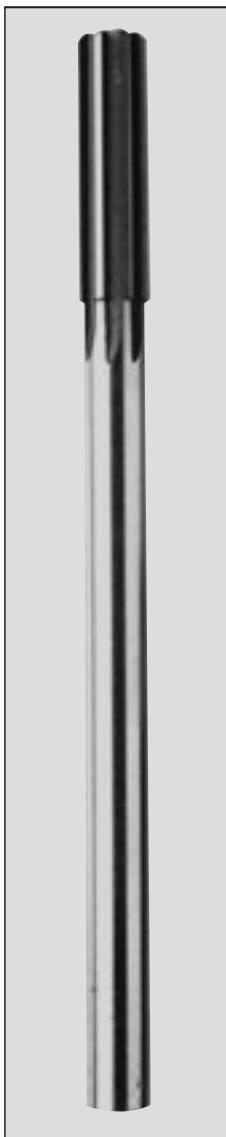
Featuring parabolic deep-hole  
flute design with extra length



Series Three

# Chucking Reamers

## Long Series Straight Shank



### METRIC

Part No.	Metric	Flute Length	Overall Length
MRM015	1.5	12mm	62mm
MRM025	2.5	21mm	87mm
MRM03	3.0	21mm	87mm
MRM035	3.5	25mm	100mm
MRM04	4.0	32mm	110mm
MRM045	4.5	32mm	112mm
MRM05	5.0	32mm	125mm
MRM055	5.5	32mm	125mm
MRM06	6.0	38mm	150mm
MRM065	6.5	38mm	150mm
MRM07	7.0	38mm	150mm
MRM08	8.0	38mm	150mm
MRM09	9.0	45mm	180mm
MRM10	10.0	45mm	180mm
MRM11	11.0	45mm	180mm
MRM12	12.0	50mm	200mm
MRM13	13.0	50mm	200mm
MRM14	14.0	50mm	200mm
MRM15	15.0	50mm	200mm
MRM16	16.0	55mm	230mm
MRM18	18.0	55mm	230mm
MRM20	20.0	65mm	240mm
MRM25	25.0	70mm	265mm

### IMPERIAL

Part No.	Imperial	Flute Length	Overall Length
MR04	1/16	1/2	2 1/2
MR05	5/64	7/8	3
MR06	3/32	3/4	3
MR07	7/64	7/8	3 1/2
MR08	1/8	7/8	3 1/2
MR10	5/32	1	4
MR11	11/64	1 1/8	4 1/2
MR12	3/16	1 1/8	4 1/2
MR13	13/64	1 1/4	5
MR14	7/32	1 1/4	5
MR16	1/4	1 1/2	6
MR17	17/64	1 1/2	6
MR18	9/32	1 1/2	6
MR20	5/16	1 1/2	6
MR24	3/8	1 3/4	7
MR28	7/16	1 3/4	7
MR32	1/2	2	8
MR40	5/8	2	9
MR48	3/4	2 1/2	9 1/2
MR56	7/8	2 1/2	9 1/2
MR64	1	2 3/4	10 1/2

A range of straight and left hand Flute Reamers designed for use in all types of machine tool equipment. Ground with a 45 deg. chamfer, they are suitable for production reaming of most materials.



# Gun Drills

## REGRIND FIXTURE

Part No.	
VT101	Gun Drill re-grind fixture

## SPRAYMIST UNIT

Part No.	
K3000A	Ventec spraymist unit 15 litres

## GUN DRILL DRIVERS

Part No.	No. Morse Taper	D1	L1	L2	D2	L3
VT516/1	No 1	16	40	89	32	24
VT525/2	No. 2	25	50	113	46	31
VT525/3	No. 3	25	50	113	46	31
VT525/4	No. 4	35	60	123	58	28

## GUN DRILLS

Part No.	Dia.	Length	Part No.	Dia.	Length
GD03250	3	250	GD15900	15	900
GD04250	4	250	GD151100	15	1100
GD05250	5	250	GD151200	15	1200
GD05400	5	400	GD16300	16	300
GD06250	6	250	GD16400	16	400
GD6400	6	400	GD16550	16	550
GD6550	6	550	GD17500	17	500
GD08250	8	250	GD18550	18	550
GD08400	8	400	GD18700	18	700
GD08550	8	550	GD19400	19	400
GD08650	8	650	GD19550	19	550
GD10300	10	300	GD19700	19	700
GD10400	10	400	GD19900	19	900
GD10500	10	500	GD191100	19	1100
GD11400	11	400	GD191500	19	1500
GD12300	12	300	GD20300	20	300
GD12400	12	400	GD20500	20	500
GD12550	12	550	GD20900	20	900
GD12700	12	700	GD25500	25	500
GD12900	12	900	GD25600	25	600
GD121000	12	1000	GD25700	25	700
GD13300	13	300	GD25100	25	1000
GD15400	15	400	GD31600	31	600
GD15550	15	550	GD31700	31	700
GD15700	15	700			

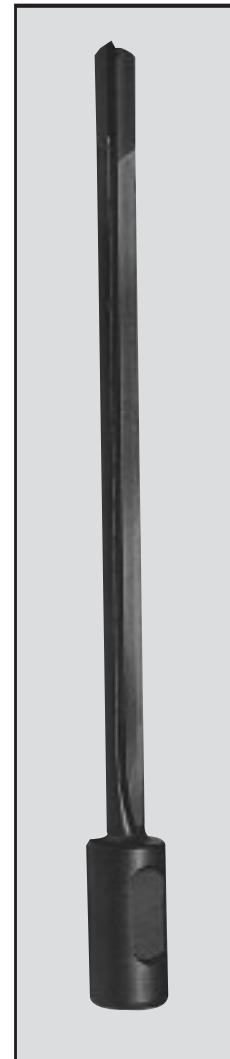
\*Additional sizes available upon request

A Gun Drill consists of three components: tungsten carbide cutting tip, hardened steel shank and a soft steel drive.

Before drilling commences the Gun Drill must be supported by a guide bush or pre-drilled start hole.

Coolant is delivered directly to the cutting edges through the hollow shank and the chips are evacuated back along the V configuration of the tip and shank.

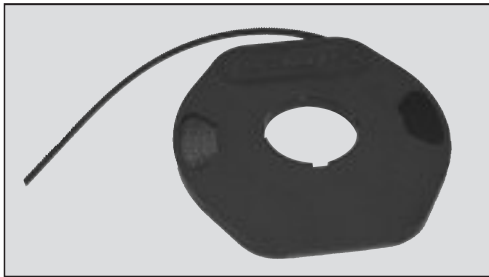
The periphery of the cutting tip is contoured in such a way as to provide both support pads and lubrication galleries. The forces generated by the single-sided cutting action act directly on the support pads, creating surface finish and size control down to IT7 tolerances.



# Saw Blades

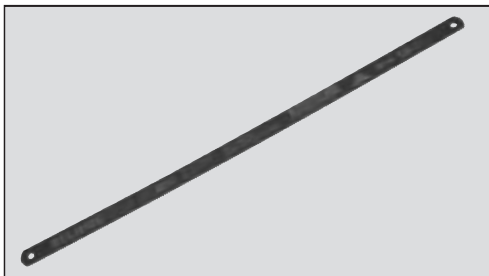
## Band Saw

Quality Band Saw in plastic case x 100ft  
Available in HSS & Bi Metal



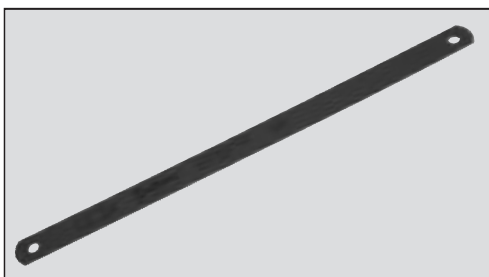
Part No.	Blade Width	
BB0408	1/4	8 Teeth Per Inch
BB0410	1/4	10 Teeth Per Inch
BB0414	1/4	14 Teeth Per Inch
BB0418	1/4	18 Teeth Per Inch
BB0608	3/8	8 Teeth Per Inch
BB0610	3/8	10 Teeth Per Inch
BB0614	3/8	14 Teeth Per Inch
BB0618	3/8	18 Teeth Per Inch
BB0624	3/8	24 Teeth Per Inch
BB0806	1/2	6 Teeth Per Inch
BB0808	1/2	8 Teeth Per Inch
BB0810	1/2	10 Teeth Per Inch
BB0814	1/2	14 Teeth Per Inch
BB0818	1/2	18 Teeth Per Inch
BB0824	1/2	24 Teeth Per Inch
BB1210	3/4 x 10 Teeth per inch	

## Hacksaw



Part No.	Blade Length	Blade Width	
HB1218	12	1/2	18 Teeth Per Inch
HB1224	12	1/2	24 Teeth Per Inch
HB1232	12	1/2	32 Teeth Per Inch

## Power Saw



Part No.	Blade Length	Blade Width	
PB1210	12	1	10 Teeth Per Inch
PB14010	14	1	10 Teeth Per Inch
PB14014	14	1	14 Teeth Per Inch
PB1408	14	1 1/4	8 Teeth Per Inch
PB1410	14	1 1/4	10 Teeth Per Inch
PB1608	16	1 1/4	8 Teeth Per Inch
PB1610	16	1 1/4	10 Teeth Per Inch
PB1806	18	1 1/4	6 Teeth Per Inch
PB1810	18	1 1/4	10 Teeth Per Inch
PB1606	16	1 1/4	6 Teeth Per Inch