

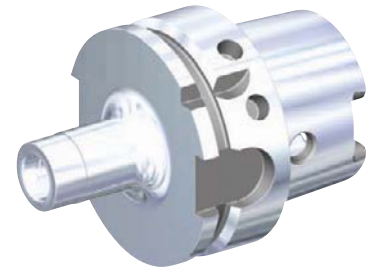
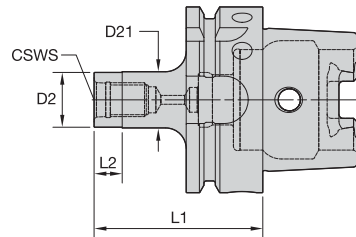


MASTER CATALOG 2018

VOLUME TWO | **ROTATING TOOLS**



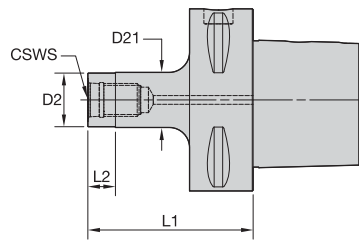
HOLEMAKING | TAPPING | SOLID END MILLING | INDEXABLE MILLING



■ DL HSK Form A Inch

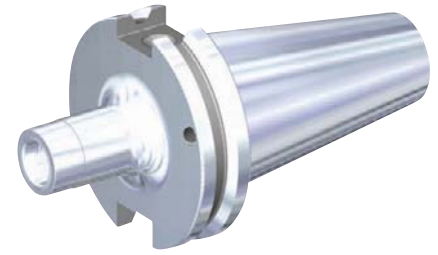
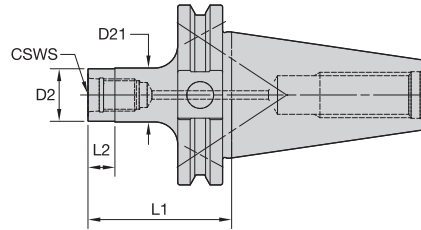
| order number | catalog number | CSWS system size | D2 | D21 | L1 | L2 | ft. lbs. |
|--------------|----------------|------------------|------|------|------|-----|----------|
| 6136895 | HSK63ADL10200 | DL10 | .36 | .38 | 2.00 | .19 | 18.40 |
| 6136896 | HSK63ADL12225 | DL12 | .48 | .50 | 2.25 | .25 | 21.10 |
| 6136897 | HSK63ADL16225 | DL16 | .61 | .63 | 2.25 | .31 | 44.20 |
| 6136898 | HSK63ADL20225 | DL20 | .73 | .75 | 2.25 | .37 | 59.00 |
| 6136899 | HSK63ADL25250 | DL25 | .96 | 1.00 | 2.50 | .49 | 73.80 |
| 6136900 | HSK63ADL32288 | DL32 | 1.21 | 1.25 | 2.88 | .61 | 98.90 |

PSC63 Duo-Lock™ Integrated



■ DL PSC63 Inch

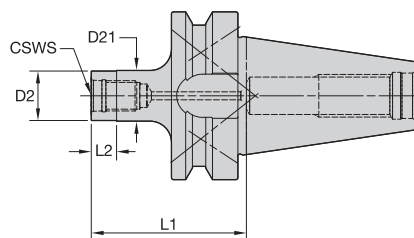
| order number | catalog number | CSWS system size | D2 | D21 | L1 | L2 | lbs |
|--------------|----------------|------------------|------|------|------|-----|------|
| 6136931 | PSC63DL10200 | DL10 | .36 | .37 | 2.00 | .19 | 1.69 |
| 6136932 | PSC63DL12200 | DL12 | .48 | .50 | 2.00 | .25 | 1.70 |
| 6136933 | PSC63DL16225 | DL16 | .61 | .63 | 2.25 | .31 | 1.73 |
| 6136934 | PSC63DL20225 | DL20 | .73 | .75 | 2.25 | .37 | 1.75 |
| 6136935 | PSC63DL25238 | DL25 | .96 | 1.00 | 2.38 | .49 | 1.84 |
| 6136936 | PSC63DL32275 | DL32 | 1.21 | 1.25 | 2.75 | .61 | 2.02 |



■ DL CV40 Inch

| order number | catalog number | CSWS system size | D2 | D21 | L1 | L2 | lbs |
|--------------|----------------|------------------|------|------|------|-----|------|
| 6136937 | CV40BDL10162 | DL10 | .36 | .38 | 1.62 | .19 | 1.77 |
| 6136938 | CV40BDL12162 | DL12 | .48 | .50 | 1.62 | .25 | 1.78 |
| 6136939 | CV40BDL16200 | DL16 | .61 | .63 | 2.00 | .31 | 1.82 |
| 6136940 | CV40BDL20200 | DL20 | .73 | .75 | 2.00 | .37 | 1.84 |
| 6136941 | CV40BDL25225 | DL25 | .96 | 1.00 | 2.25 | .49 | 1.94 |
| 6136942 | CV40BDL32250 | DL32 | 1.21 | 1.25 | 2.50 | .61 | 2.07 |

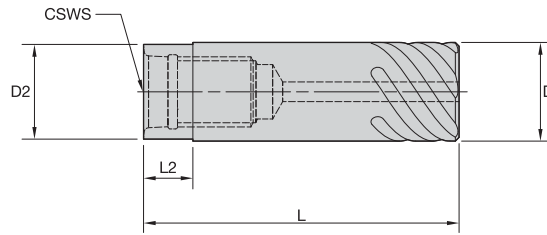
BT40 Duo-Lock™ Integrated



■ DL BT40 Inch

| order number | catalog number | CSWS system size | D2 | D21 | L1 | L2 | lbs |
|--------------|----------------|------------------|------|------|------|-----|------|
| 6136943 | BT40BDL10200 | DL10 | .36 | .38 | 2.00 | .19 | 2.14 |
| 6136944 | BT40BDL12200 | DL12 | .48 | .50 | 2.00 | .25 | 2.15 |
| 6136945 | BT40BDL16225 | DL16 | .61 | .63 | 2.25 | .31 | 2.19 |
| 6136946 | BT40BDL20225 | DL20 | .73 | .75 | 2.25 | .37 | 2.19 |
| 6136947 | BT40BDL25238 | DL25 | .96 | 1.00 | 2.38 | .49 | 2.26 |
| 6136948 | BT40BDL32275 | DL32 | 1.21 | 1.25 | 2.75 | .61 | 2.41 |

| | | | | | |
|--|--|--|----|--------------|-------|
| | | | 40 | (2x) MS2221S | 2,5mm |
| | | | 50 | (2x) MS1296S | 3mm |

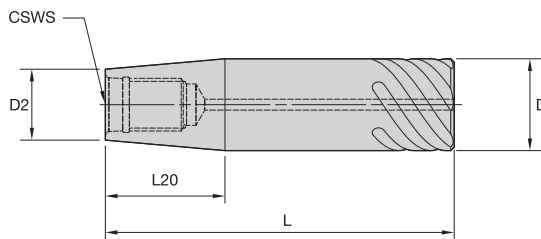


■ DL SS SL Cylindrical Inch

| order number | catalog number | CSWS system size | D | D2 | L | L2 | ft. lbs. |
|--------------|-----------------|------------------|------|------|------|-----|----------|
| 6136800 | SS038SLDL100225 | DL10 | .38 | .36 | 2.25 | .19 | 18.40 |
| 6136868 | SS050SLDL120250 | DL12 | .50 | .48 | 2.50 | .25 | 22.10 |
| 6136874 | SS062SLDL160275 | DL16 | .63 | .61 | 2.75 | .33 | 44.20 |
| 6136880 | SS075SLDL200300 | DL20 | .75 | .73 | 3.00 | .39 | 59.00 |
| 6136884 | SS100SLDL250350 | DL25 | 1.00 | .96 | 3.50 | .52 | 73.80 |
| 6136888 | SS125SLDL320400 | DL32 | 1.25 | 1.21 | 4.00 | .64 | 95.90 |

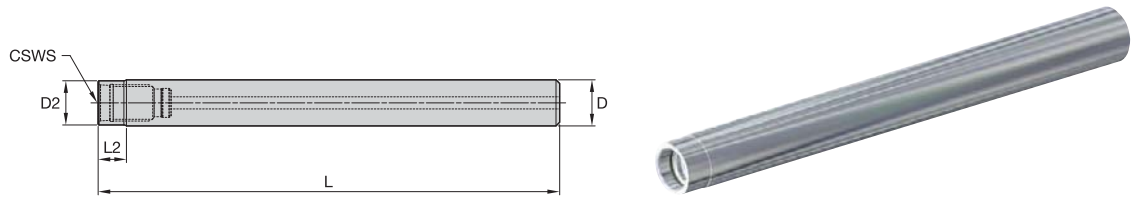
NOTE: Cylindrical shanks not recommended for full slotting.

Duo-Lock Modular Milling



■ DL SS SL Conical Inch

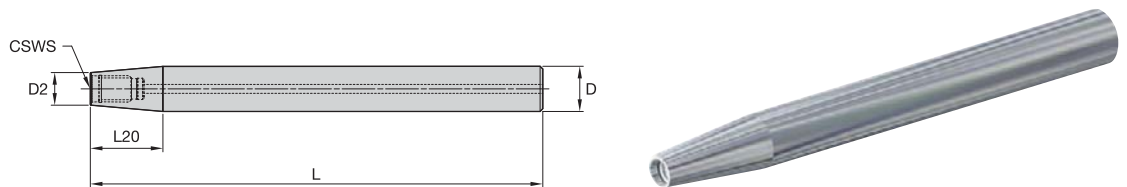
| order number | catalog number | CSWS system size | D | D2 | L | L20 | lbs |
|--------------|-----------------|------------------|------|------|------|------|------|
| 6136862 | SS050SLDL100250 | DL10 | .50 | .36 | 2.50 | .80 | .11 |
| 6136864 | SS062SLDL100350 | DL10 | .63 | .36 | 3.50 | 1.52 | .24 |
| 6136866 | SS075SLDL100450 | DL10 | .75 | .36 | 4.50 | 2.23 | .42 |
| 6136870 | SS062SLDL120325 | DL12 | .63 | .48 | 3.25 | .82 | .24 |
| 6136872 | SS075SLDL120425 | DL12 | .75 | .48 | 4.25 | 1.53 | .45 |
| 6136876 | SS075SLDL160325 | DL16 | .75 | .61 | 3.25 | .82 | .34 |
| 6136878 | SS100SLDL160450 | DL16 | 1.00 | .61 | 4.50 | 2.25 | .78 |
| 6136882 | SS100SLDL200375 | DL20 | 1.00 | .73 | 3.75 | 1.53 | .67 |
| 6136886 | SS125SLDL250425 | DL25 | 1.25 | .96 | 4.25 | 1.64 | 1.19 |
| 6136890 | SS150SLDL320550 | DL32 | 1.50 | 1.21 | 5.50 | 1.64 | 2.29 |
| 6136892 | SS200SLDL320750 | DL32 | 2.00 | 1.21 | 7.50 | 4.50 | 4.92 |



■ **DL SS Cylindrical Cut Off to Modify Length Inch**

| order number | catalog number | CSWS system size | D | D2 | L | L2 | ft. lbs. |
|--------------|----------------|------------------|------|------|-------|-----|----------|
| 6136861 | SS038DL100375 | DL10 | .38 | .36 | 3.75 | .19 | 18.40 |
| 6136869 | SS050DL120500 | DL12 | .50 | .48 | 5.00 | .25 | 22.10 |
| 6136875 | SS062DL160625 | DL16 | .63 | .61 | 6.25 | .31 | 44.20 |
| 6136881 | SS075DL200750 | DL20 | .75 | .73 | 7.50 | .38 | 59.00 |
| 6136885 | SS100DL251000 | DL25 | 1.00 | .96 | 10.00 | .50 | 73.80 |
| 6136889 | SS125DL321000 | DL32 | 1.25 | 1.21 | 10.00 | .63 | 95.90 |

NOTE: Standard catalog cutting data does not apply. Consult tooling application expert before use.



■ **DL SS Conical Cut Off to Modify Length Inch**

| order number | catalog number | CSWS system size | D | D2 | L | L20 | lbs |
|--------------|----------------|------------------|------|------|-------|------|------|
| 6136863 | SS050DL100500 | DL10 | .50 | .36 | 5.00 | .80 | .25 |
| 6136865 | SS062DL100625 | DL10 | .63 | .36 | 6.25 | 1.52 | .47 |
| 6136867 | SS075DL100750 | DL10 | .75 | .36 | 7.50 | 2.23 | .79 |
| 6136871 | SS062DL120625 | DL12 | .63 | .48 | 6.25 | .82 | .50 |
| 6136873 | SS075DL120750 | DL12 | .75 | .48 | 7.50 | 1.53 | .85 |
| 6136877 | SS075DL160750 | DL16 | .75 | .61 | 7.50 | .82 | .86 |
| 6136879 | SS100DL161000 | DL16 | 1.00 | .61 | 10.00 | 2.25 | 1.99 |
| 6136883 | SS100DL201000 | DL20 | 1.00 | .73 | 10.00 | 1.53 | 2.04 |
| 6136887 | SS125DL251000 | DL25 | 1.25 | .96 | 10.00 | 1.64 | 3.14 |
| 6136891 | SS150DL321000 | DL32 | 1.50 | 1.21 | 10.00 | 1.64 | 4.51 |
| 6136893 | SS200DL321000 | DL32 | 2.00 | 1.21 | 10.00 | 4.50 | 7.18 |

NOTE: Standard catalog cutting data does not apply. Consult tooling application expert before use.

Duo-Lock Modular Milling



Torque Wrench

| order number | catalog number | Description |
|--------------|-------------------|--------------------------------|
| 6135413 | TWDLTM | BASIC DUO LOCK WRENCH |
| 6135414 | TWTMININSERTDL10 | TORQUE WRENCH INSERT DL10 |
| 6135415 | TWTMININSERTDL12 | TORQUE WRENCH INSERT DL12 |
| 6135416 | TWTMININSERTDL16 | TORQUE WRENCH INSERT DL16 |
| 6135417 | TWTMININSERTDL20 | TORQUE WRENCH INSERT DL20 |
| 6135418 | TWTMININSERTDL25 | TORQUE WRENCH INSERT DL25 |
| 6135419 | TWTMININSERTDL32 | TORQUE WRENCH INSERT DL32 |
| 6135420 | TWTMININSERTDL10W | TORQUE WRENCH INSERT DL10 WEAR |
| 6135421 | TWTMININSERTDL12W | TORQUE WRENCH INSERT DL12 WEAR |
| 6135422 | TWTMEXT | TORQUE WRENCH EXTENSION HANDLE |
| 6135423 | TWTMBC | TORQUE WRENCH BOLT SET |

NOTE: Combine basic Duo-Lock™ wrench with selected torque wrench inserts needed.

Wrench Kit

1 Basic Duo-Lock™ Wrench



2 Insert



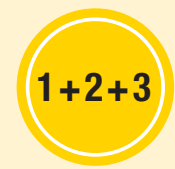
3 Extension Handle



Order this

Get that

| order number | catalog number | kit description |
|--------------|----------------|-----------------------------------------|
| 6342967 | TWDL10TM | D-L WRENCH WITH DL10 INSERT AND HANDLES |
| 6342968 | TWDL12TM | D-L WRENCH WITH DL12 INSERT AND HANDLES |
| 6342969 | TWDL16TM | D-L WRENCH WITH DL16 INSERT AND HANDLES |
| 6342970 | TWDL20TM | D-L WRENCH WITH DL20 INSERT AND HANDLES |
| 6343061 | TWDL25TM | D-L WRENCH WITH DL25 INSERT AND HANDLES |
| 6343062 | TWDL32TM | D-L WRENCH WITH DL32 INSERT AND HANDLES |



Duo-Lock Modular Milling

Assembly

Please wear sufficient personal safety equipment such as gloves and eye protection during assembly.

- 1** Clean the Duo-Lock™ cutting insert and shank coupling.



- 2** Mount the Duo-Lock™ adapter in a mounting block with a clamping chuck sufficient to enable torque transmission.



- 3** Screw the Duo-Lock™ cutting tip into adapter by hand.

Attention: Use of protective gloves is mandatory!



- 4** A gap of approx. 0.06–0.12" should be visible.



- 5** Apply the torque shown in the table. Use of a high quality common torque wrench is mandatory. The ERICKSON™ Torque Master wrench is recommended.



| Duo-Lock™ Size | Torque Nm | Torque ft. lbs. |
|----------------|-----------|-----------------|
| DL 10 | 20 | 15 |
| DL 12 | 30 | 22 |
| DL 16 | 60 | 44 |
| DL 20 | 80 | 59 |
| DL 25 | 100 | 74 |
| DL 32 | 130 | 96 |