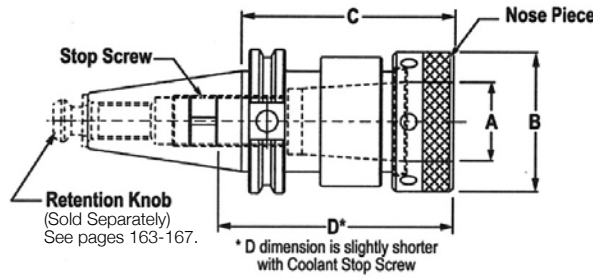
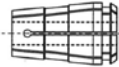




V-FLANGE SINGLE ANGLE COLLET CHUCKS



TG Style
Collets
See page 146.



PART NO. W/ STOP SCREW	PART NO. W/ COOLANT SEAL STOP SCREW	OLD PART NO. W/ COOLANT SEAL STOP SCREW	A RANGE	COLLET SERIES	B DIA.	C PROJ.	D MAX.	NOSE PIECE	STOP SCREW	COOLANT SEAL SCREW	SPANNER WRENCH (NOT INCLUDED)
40 V-FLANGE											
C40-TG10-300	C40-TG10C-300	940-503(C)	0.093-1.000	TG100	2.50	3.00	3.72	111-TG10S	101-003	102-003	112-001
* C40-TG10-500	C40-TG10C-500	940-505(C)	0.093-1.000	TG100	2.50	5.00	5.72	111-TG10S	101-003	102-003	112-001
* C40-TG10-600	C40-TG10C-600		0.093-1.000	TG100	2.50	6.00	7.25	111-TG10S	101-003	102-003	112-001
* C40-TG10-650	C40-TG10C-650	940-506(C)	0.093-1.000	TG100	2.50	6.50	7.22	111-TG10S	101-003	102-003	112-001
* C40-TG15-488	C40-TG15C-488		0.500-1.500	TG150	3.50	4.88	4.31	111-TG15S	101-013	102-013	112-002
45 V-FLANGE											
* C45-TG10-300	C45-TG10C-300	945-503(C)	0.093-1.000	TG100	2.50	3.00	4.25	111-TG10S	101-003	102-003	112-001
* C45-TG10-400	C45-TG10C-400	945-504(C)	0.093-1.000	TG100	2.50	4.00	5.25	111-TG10S	101-003	102-003	112-001
* C45-TG10-550	C45-TG10C-550	945-506A(C)	0.093-1.000	TG100	2.50	5.50	6.00	111-TG10S	101-003	102-003	112-001
* C45-TG10-600	C45-TG10C-600	945-506(C)	0.093-1.000	TG100	2.50	6.00	7.25	111-TG10S	101-003	102-003	112-001
* C45-TG10-750	C45-TG10C-750	945-508A(C)	0.093-1.000	TG100	2.50	7.50	6.00	111-TG10S	101-003	102-003	112-001
* C45-TG15-300	C45-TG15C-300	945-553(C)	0.500-1.500	TG150	3.50	3.00	4.25	111-TG15S	101-007	102-007	112-002
* C45-TG15-400	C45-TG15C-400	945-554(C)	0.500-1.500	TG150	3.50	4.00	5.25	111-TG15S	101-007	102-007	112-002
* C45-TG15-600	C45-TG15C-600	945-556(C)	0.500-1.500	TG150	3.50	6.00	7.25	111-TG15S	101-007	102-007	112-002
* C45-TG15-800	C45-TG15C-800	945-558(C)	0.500-1.500	1G150	3.50	8.00	9.25	111-TG15S	101-007	102-007	112-002
50 V-FLANGE											
* C50-TG10-300	C50-TG10C-300	950-502(C)	0.093-1.000	TG100	2.50	3.00	4.75	111-TG10S	101-003	102-003	112-001
C50-TG10-350	C50-TG10C-350	950-503(C)	0.093-1.000	TG100	2.50	3.50	5.25	111-TG10S	101-003	102-003	112-001
C50-TG10-550	C50-TG10C-550	950-505(C)	0.093-1.000	TG100	2.50	5.50	7.25	111-TG10S	101-003	102-003	112-001
* C50-TG10-750	C50-TG10C-750	950-507(C)	0.093-1.000	TG100	2.50	7.50	9.25	111-TG10S	101-003	102-003	112-001
C50-TG15-300	C50-TG15C-300	950-552(C)	0.500-1.500	TG150	3.50	3.00	4.50	111-TG15S	101-007	102-007	112-002
* C50-TG15-350	C50-TG15C-350	950-553(C)	0.500-1.500	TG150	3.50	3.50	5.00	111-TG15S	101-007	102-007	112-002
* C50-TG15-550	C50-TG15C-550	950-555(C)	0.500-1.500	TG150	3.50	5.50	7.00	111-TG15S	101-007	102-007	112-002
* C50-TG15-750	C50-TG15C-750	950-557(C)	0.500-1.500	TG150	3.50	7.50	9.00	111-TG15S	101-007	102-007	112-002

* Outgoing Items

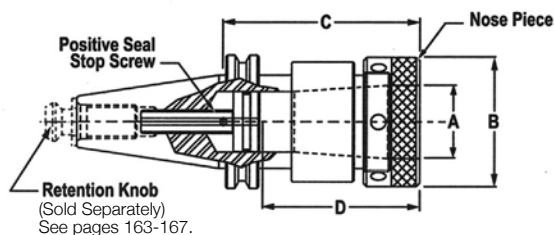
- Supplied with nosepiece and standard stop screw



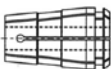
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V-FLANGE SINGLE ANGLE COLLET CHUCKS WITH POSITIVE SEAL STOP SCREWS



TG Style
Collets
See page 146.

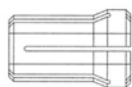


PART NUMBER	OLD PART NO.	A RANGE	COLLET SERIES	B. DIA.	C PROJ.	D MAX.	NOSE PIECE	POSITIVE SEAL STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
40 V-FLANGE									
C40-TG10P-400	940-504P	0.093-1.00	TG100	2.50	4.00	4.31	111-TG10S	104-004	112-001
45 V-FLANGE									
* C45-TG10P-400	945-504P	0.093-1.00	TG100	2.50	4.00	4.31	111-TG10S	104-005	112-001
* C45-TG15P-400	945-554P	0.500-1.50	TG150	3.50	4.00	4.75	111-TG15S	104-008	112-002
50 V-FLANGE									
C50-TG10P-400	950-504P	0.093-1.00	TG100	2.50	4.00	4.56	111-TG10S	104-005	112-001
* C50-TG15P-400	950-554P	0.500-1.50	TG150	3.50	4.00	4.75	111-TG15S	104-008	112-002

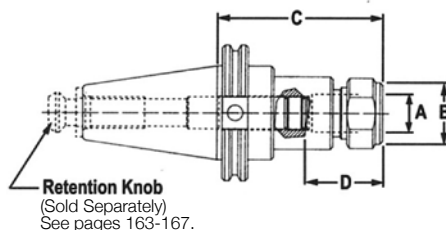
* Outgoing Items

- Industry standard Single Angle Collet Chucks with the added feature of Positive Seal Fine Adjustment Stop Screws
- Supplied with nosepiece and stop screw

V-FLANGE DOUBLE ANGLE COLLET CHUCKS



DA Style
Collets
See page 147.



STANDARD
TOOLHOLDERS

PART NO. W/ STOP SCREW	PART NO. W/ COOLANT SEAL STOP SCREW	A RANGE	COLLET SERIES	B. DIA.	C PROJ.	D MAX.	NOSE PIECE	STOP SCREW	COOLANT SEAL SCREW	SPANNER WRENCH (NOT INCLUDED)
40 V-FLANGE										
* C40-DA18-295	C40-DA18C-295	0.047-0.750	DA180	1.69	2.95	2-3/8	111-DA18	101-002	102-002	112-019
* C40-DA18-400	C40-DA18C-400	0.047-0.750	DA180	1.69	4.00	3-3/8	111-DA18	101-002	102-002	112-019

* Outgoing Items

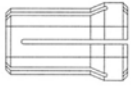
- Supplied with nosepiece and stop screw



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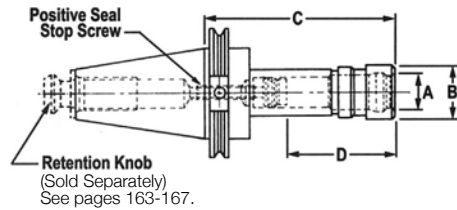


V-FLANGE DOUBLE ANGLE COLLET CHUCKS WITH POSITIVE SEAL STOP SCREW



**DA Style
Collets**

See pages 147.

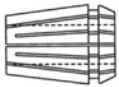


PART NUMBER	OLD PART NO.	A RANGE	COLLET SERIES	B DIA.	C PROJ.	D MAX.	NOSE PIECE	STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
40 V-FLANGE									
* C40-DA18P-6	940-589	0.047-0.750	DA180	1.50	6.00	3.50	111-DA18	104-002	112-019
50 V-FLANGE									
* C50-DA18P-6	950-589	0.047-0.750	DA180	1.50	6.00	4.50	111-DA18	104-002	112-019

* Outgoing Items

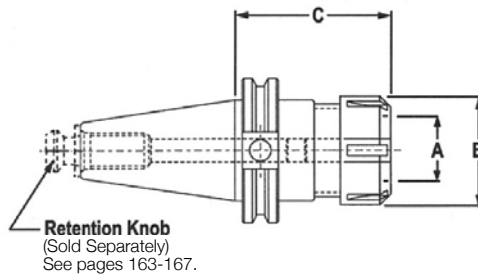
- Supplied with nosepiece and stop screw

V-FLANGE ER COLLET CHUCKS



**ER Style
Collets**

See page 145.



PART NUMBER	A RANGE	COLLET SERIES	B DIA.	C PROJ.	NOSE PIECE	OPTIONAL STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
40 V-FLANGE							
C40-ER16-400	0.020-0.393	ER16	1.109	4	115-015	101-023	112-102
C40-ER20-400	0.040-0.511	ER20	1.344	4	115-016	101-023	112-103
C40-ER32-400	0.080-0.787	ER32	1.968	4	115-017	101-024	112-106
* C40-ER32-600	0.080-0.787	ER32	1.968	6	115-017	101-024	112-106
50 V-FLANGE							
* C50-ER16-400	0.020-0.393	ER16	1.109	4	115-015	101-023	112-102
* C50-ER16-600	0.020-0.393	ER16	1.109	6	115-015	101-023	112-102
* C50-ER20-400	0.040-0.511	ER20	1.344	4	115-016	101-023	112-103
C50-ER32-400	0.080-0.787	ER32	1.968	4	115-017	101-024	112-106
* C50-ER32-600	0.080-0.787	ER32	1.968	6	115-017	101-024	112-106

* Outgoing Items

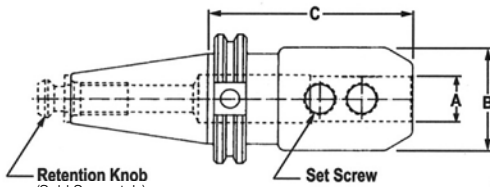
- Precision gripping within 0.0003"
- Threaded through holes for backup screws and coolant
- Greater precision allows for improved tool life and precise machine tolerances
- Supplied with nosepiece
- For optional stop screws see page 156



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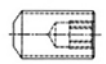
V-FLANGE END MILL HOLDERS



PART NUMBER	OLD PART NO.	A I.D.	B DIA.	C PROJ.	SET SCREW SIZE
40 V-FLANGE					
* C40-EM12-300		0.125	1.00	3.00	6-32
C40-EM18-250		0.187	0.69	2.50	6-32
* C40-EM25-250		0.250	0.69	2.50	1/4-28
C40-EM31-250		0.312	1.00	2.50	1/4-28
C40-EM37-250		0.375	1.00	2.50	3/8-24
* C40-EM37-450		0.375	1.00	4.50	3/8-24
C40-EM50-175		0.500	1.75	1.75	7/16-20
* C40-EM50-462		0.500	1.25	4.62	7/16-20
* C40-EM50-662		0.500	1.25	6.62	7/16-20
C40-EM62-175		0.625	1.75	1.75	9/16-18
C40-EM62-300		0.625	1.50	3.00	9/16-18
* C40-EM62-338	940-620	0.625	1.75	3.38	1/2-13
* C40-EM62-575		0.625	1.62	5.75	9/16-18
C40-EM75-175		0.750	1.75	1.75	5/8-18
C40-EM75-300		0.750	1.75	3.00	5/8-18
C40-EM75-338	940-750	0.750	1.75	3.38	5/8-11
* C40-EM75-575		0.750	1.75	5.75	5/8-18
* C40-EM87-338	940-870	0.875	1.75	3.38	5/8-11
C40-EM10-300		1.000	1.95	3.00	3/4-16
* C40-EM10-338	940-100	1.000	2.12	3.38	5/8-11
C40-EM10-400		1.000	2.25	4.00	3/4-16
C40-EM12-200		1.250	2.25	2.00	3/4-16
* C40-EM12-425	940-120	1.250	2.50	4.25	3/4-16
* C40-EM12-625		1.250	2.50	6.25	3/4-16
C40-EM15-462	940-150	1.500	2.75	4.62	3/4-16
45 V-FLANGE					
* C45-EM37-225	945-370	0.375	1.50	2.25	3/8-16
* C45-EM37-300	945-370A	0.375	1.50	3.00	3/8-16
* C45-EM37-250		0.375	1.00	2.50	3/8-24
* C45-EM50-300	945-500	0.500	1.50	3.00	3/8-16
* C45-EM50-262		0.500	1.38	2.62	7/16-20
* C45-EM62-300	945-620	0.625	1.50	3.00	1/2-13
* C45-EM62-375		0.625	1.62	3.75	9/16-18
* C45-EM75-300	945-750	0.750	2.00	3.00	5/8-11
* C45-EM75-375	945-750A	0.750	1.75	3.75	5/8-11
* C45-EM87-375	945-870	0.875	2.00	3.75	5/8-11
* C45-EM10-400	945-100	1.000	2.50	4.00	3/4-16
* C45-EM12-400	945-120	1.250	2.62	4.00	3/4-16
* C45-EM15-462	945-150	1.500	2.75	4.62	3/4-16
* C45-EM15-400		1.500	2.62	4.00	3/4-16
* C45-EM20-525	945-200E	2.000	3.75	5.25	1-14

* Outgoing Items

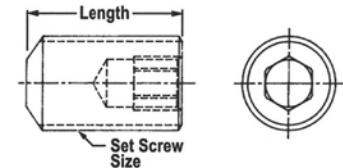
- Same holder used for both coolant-thru-the-spindle and non coolant-fed applications
- Holders supplied with set screws



PART NUMBER	OLD PART NO.	A I.D.	B DIA.	C PROJ.	SET SCREW SIZE
50 V-FLANGE					
C50-EM18-250		0.187	0.69	2.50	6-32
C50-EM25-250		0.250	0.69	2.50	1/4-28
C50-EM31-250		0.312	1.00	2.50	1/4-28
* C50-EM37-300	950-370	0.375	1.50	3.00	3/8-24
C50-EM37-450		0.375	1.00	4.50	3/8-24
* C50-EM50-300	950-500	0.500	1.50	3.00	7/16-20
C50-EM50-462		0.500	1.38	4.62	7/16-20
C50-EM62-375		0.625	1.62	3.75	9/16-18
C50-EM75-400	950-750	0.750	2.50	4.00	5/8-18
* C50-EM75-575		0.750	1.75	5.75	5/8-18
* C50-EM87-400	950-870	0.875	2.50	4.00	5/8-18
C50-EM87-375		0.875	2.00	3.75	5/8-18
C50-EM10-400		1.000	2.25	4.00	3/4-16
* C50-EM10-262		1.000	2.75	2.62	3/4-16
* C50-EM10-600	950-106	1.000	2.25	6.00	3/4-16
* C50-EM10-800	950-108	1.000	2.25	8.00	3/4-16
* C50-EM12-400	950-120	1.250	2.50	4.00	3/4-16
* C50-EM12-600		1.250	2.50	6.00	3/4-16
C50-EM15-400		1.500	2.75	4.00	3/4-16
* C50-EM20-562		2.000	3.75	5.62	1-14
* C50-EM20-762	950-208	2.000	3.75	7.62	1-14

* Outgoing Items

End Mill Holder Set Screws



SET SCREW SIZE	LENGTH	PART NUMBER
6-32	1/4	001-801
* 1/4-28	1/4	001-803
* 3/8-16	5/16	001-804
* 3/8-24	5/16	001-805
* 7/16-20	3/8	001-807
* 1/2-13	3/8	001-808
* 9/16-18	1/2	001-811
* 5/8-11	1/2	001-812
* 5/8-18	1/2	001-813
* 3/4-16	5/8	001-815
* 1-14	7/8	001-817

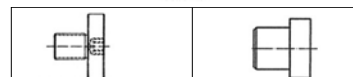
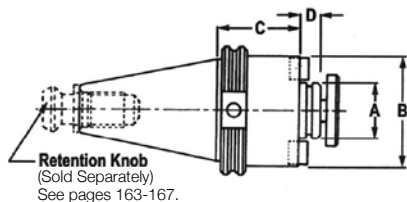
* Outgoing Items



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V-FLANGE SHELL MILL HOLDERS • COOLANT-FED AND NON COOLANT-FED



PART NUMBER	OLD PART NUMBER	A PILOT DIA.	B DIA.	C PROJ.	D	ARBOR SCREW	DRIVE KEY / PIN
40 V-FLANGE • NON COOLANT-FED							
* C40-SM50-138		0.50	1.75	1.38	0.560	200-001	201-001
* C40-SM50-350		0.50	1.75	3.50	0.560	200-001	201-001
* C40-SM75-138		0.75	1.75	1.38	0.680	200-002	201-002
* C40-SM75-350		0.75	1.75	3.50	0.680	200-002	201-002
* C40-SM10-100		1.00	2.19	1.00	0.680	200-003	201-003
* C40-SM10-200	940-010	1.00	2.19	2.06	0.680	200-003	201-003
* C40-SM10-400		1.00	2.19	4.00	0.680	200-003	201-003
* C40-SM12-200	940-025	1.25	2.75	2.12	0.680	200-005	201-004
* C40-SM12-400		1.25	2.75	4.00	0.680	200-005	201-004
* C40-SM15-250		1.50	3.62	2.50	0.940	200-007	201-005
* C40-SM15-400		1.50	3.62	4.00	0.940	200-007	201-005
40 V-FLANGE • COOLANT-FED							
* C40-SM10C-194 **	940-011	1.00	2.75	1.94	1.437	200-003	201-003
* C40-SM12C-343 **	940-026	1.25	4.50	3.43	1.437	200-005	201-004
45 V-FLANGE • NON COOLANT-FED							
* C45-SM50-150		0.50	1.56	1.50	0.560	200-001	201-001
* C45-SM75-150		0.75	1.94	1.50	0.680	200-002	201-002
* C45-SM10-200		1.00	2.44	2.00	0.680	200-003	201-003
* C45-SM10-225	945-010	1.00	2.00	2.25	0.680	200-005	201-003
* C45-SM12-225	945-025	1.25	2.88	2.25	0.680	200-005	201-004
* C45-SM12-212	945-025A	1.25	2.75	2.12	0.680	200-005	201-004
* C45-SM15-240		1.50	3.94	2.40	0.940	200-007	201-005
* C45-SM15-250	945-056	1.50	3.80	2.50	0.940	200-007	201-005
* C45-SM15-245	945-056A	1.50	3.94	2.45	0.940	200-007	201-005
* C45-SM15-400		1.50	3.94	4.00	0.940	200-007	201-005
* C45-SM15-405	945-058	1.50	3.80	4.05	0.940	200-007	201-005
* C45-SM20-212		2.00	4.44	2.12	0.940	200-009	201-006
45 V-FLANGE • COOLANT-FED							
* C45-SM10C-200 **	945-011	1.00	2.25	2.00	1.437	200-003	201-003
* C45-SM12C 343 **	945-026	1.25	2.87	3.43	1.437	200-005	201-004
* C45-SM15C-400 **	945-057	1.50	3.80	4.00	1.437	200-007	201-005
50 V-FLANGE • NON COOLANT-FED							
* C50-SM50-150		0.50	1.56	1.50	0.560	200-001	201-001
* C50-SM50-200	950-050	0.50	1.25	2.00	0.560	200-001	200-001
* C50-SM50-550		0.50	1.56	5.50	0.560	200-001	201-001
* C50-SM75-150		0.75	1.94	1.50	0.680	200-002	201-002
* C50-SM75-350		0.75	1.94	3.50	0.680	200-002	201-002
* C50-SM10-200	950-010	1.00	2.75	2.00	0.680	200-003	201-003
* C50-SM10-400	950-012	1.00	2.75	4.00	0.680	200-003	201-003
* C50-SM12-225	950-025	1.25	2.87	2.25	0.680	200-005	201-004
* C50-SM12-550		1.25	2.75	5.50	0.940	200-005	201-004
* C50-SM15-240		1.50	3.94	2.40	0.940	200-007	201-005
* C50-SM15-245	950-056	1.50	3.80	2.45	0.940	200-007	201-005
* C50-SM15-400		1.50	3.94	4.00	0.940	200-007	201-005
* C50-SM15-405	950-058	1.50	3.80	4.05	0.940	200-007	201-005
* C50-SM15-600		1.50	3.94	6.00	0.940	200-007	201-005
* C50-SM15-605	950-059	1.50	3.80	6.05	0.940	200-007	201-005
* C50-SM20-240	950-200	2.00	4.44	2.40	0.940	200-009	201-006
* C50-SM20-400		2.00	4.44	4.00	0.940	200-009	201-006
* C50-SM20-600		2.00	4.44	6.00	0.940	200-009	201-006
* C50-SM25-240		2.50	4.88	2.40	0.940	200-009	201-006

* Outgoing Items

• Shell Mill Holders are supplied with drive keys and arbor screws



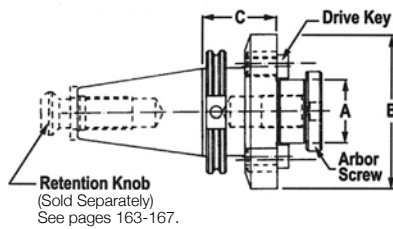
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Coolant-Fed

** Designed for Coolant-Fed Milling Cutter



V-FLANGE FACE MILL HOLDERS • 4 MOUNTING HOLES



PART NUMBER	A PILOT DIA.	B DIA.	C PROJ.	ARBOR SCREW NO.	DRIVE KEY/PIN
45 V-FLANGE					
* C45-FM20-212	2.0	4.87	2.12	200-009	201-006
* C45-FM20-400	2.0	4.87	4.00	200-009	201-006
* C45-FM20-600	2.0	4.87	6.00	200-009	201-006
50 V-FLANGE					
* C50-FM20-240	2.0	4.87	2.40	200-011	201-007
* C50-FM20-400	2.0	4.87	4.00	200-011	201-007
* C50-FM20-600	2.0	4.87	6.00	200-011	201-007
* C50-FM25-240	2.5	4.87	2.40	200-011	201-007
* C50-FM25-400	2.5	4.87	4.00	200-011	201-007
* C50-FM25-600	2.5	4.87	6.00	200-011	201-007

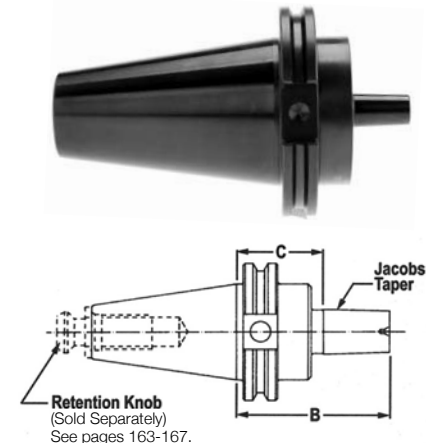
* Outgoing Items

- Holders have (4) mounting holes with 5/8-11 threads on a 4" bolt circle

V-FLANGE JACOBS TAPER HOLDERS

PART NUMBER	OLD PART NUMBER	J.T. SIZE	B PROJ.	C PROJ.
40 V-FLANGE				
* C40-JT1-215		1	2.15	1.49
* C40-JT2-243		2	2.43	1.56
* C40-JT3-281		3	2.81	1.59
* C40-JT4-325	940-334	4	3.25	1.59
* C40-JT5-338	940-335	5	3.38	1.50
* C40-JT6-359	940-336	6	3.59	1.59
* C40-JT33-250	940-332	33	2.50	1.50
* C40-JT33-259		33	2.59	1.59
45 V-FLANGE				
* C45-JT1-237	945-331	1	2.37	1.37
* C45-JT1-215		1	2.15	1.49
* C45-JT2-243		2	2.43	1.56
* C45-JT3-275	945-333	3	2.75	1.53
* C45-JT3-281		3	2.81	1.59
* C45-JT4-325		4	3.25	1.59
* C45-JT6-259		6	2.59	1.59
* C45-JT33-259		33	2.59	1.59

* Outgoing Items



PART NUMBER	OLD PART NUMBER	J.T. SIZE	B PROJ.	C PROJ.
50 V-FLANGE				
* C50-JT1-215		1	2.15	1.49
* C50-JT2-243		2	2.43	1.56
* C50-JT3-280	950-333	3	2.80	1.59
* C50-JT3-281		3	2.81	1.59
* C50-JT4-325	950-334	4	3.25	1.59
* C50-JT5-338	950-335	5	3.38	1.50
* C50-JT6-259	950-336	6	2.59	1.59
* C50-JT33-259	950-332	33	2.59	1.59

* Outgoing Items

STANDARD
TOOLHOLDERS

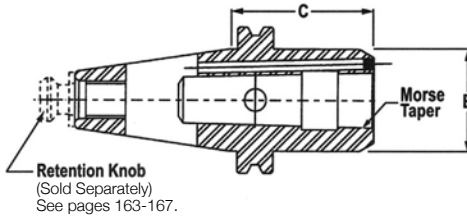


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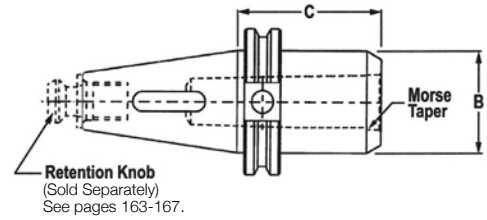


V-FLANGE MORSE TAPER HOLDERS • DUAL AND END ENTRY

Dual Entry



End Entry



Dual Entry

PART NUMBER	OLD PART NO.	M.T. SIZE	B DIA.	C PROJ.
40 V-FLANGE				
C40-MT2-175D	940-022	2	1.75	1.75
C40-MT3-250D	940-033	3	1.75	2.50
C40-MT4-350D	940-044	4	2.00	3.50
45 V-FLANGE				
* C45-MT2-150D	945-022	2	2.25	1.50
* C45-MT3-231D	945-033	3	2.25	2.31
* C45-MT4-318D	945-044	4	2.25	3.18
* C45-MT5-475D	945-055	5	2.63	4.75
50 V-FLANGE				
C50-MT2-200D	950-022	2	1.25	2.00
C50-MT3-250D	950-033	3	1.62	2.50
C50-MT4-338D	950-044	4	2.00	3.37
C50-MT5-475D	950-055	5	2.75	4.75

* Outgoing Items

- Dual Entry style provides coolant-thru-the-spindle to tang end of tooling or directly to side of tooling taper.

End Entry

PART NUMBER	OLD PART NO.	M.T. SIZE	B DIA.	C PROJ.
40 V-FLANGE				
C40-MT1-175E		1	1.00	1.75
C40-MT2-175E	940-002	2	1.75	1.75
C40-MT2-219E		2	1.25	2.19
C40-MT3-250E	940-003	3	1.75	2.50
C40-MT3-275E		3	1.75	2.75
C40-MT4-350E	940-004	4	2.00	3.50
C40-MT4-356E		4	2.00	3.56
45 V-FLANGE				
* C45-MT2-150E	945-002	2	2.25	1.50
* C45-MT3-231E	945-003	3	2.25	2.31
* C45-MT4-318E	945-004	4	2.25	3.18
* C45-MT5-475E	945-005	5	2.63	4.75
50 V-FLANGE				
C50-MT2-200E	950-002	2	1.25	2.00
C50-MT3-250E	950-003	3	1.62	2.50
C50-MT4-337E	950-004	4	2.00	3.37
C50-MT5-475E	950-005	5	2.75	4.75

* Outgoing Items

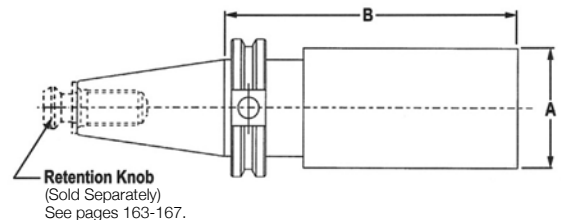
- End Entry provides coolant-thru-the-spindle to tang end of tooling only. (Will work for non-coolant applications)

V-FLANGE BORING BAR BLANKS

PART NUMBER	OLD PART NO.	A DIA.	B PROJ.
40 V-FLANGE			
C40-BB4-11		3.88	11.00
45 V-FLANGE			
* C45-BB4-64	945-778B	4.00	6.40
* C45-BB4-110	945-779B	4.00	11.00
50 V-FLANGE			
C50-BB4-11	950-778B	3.88	11.00
C50-BB6-07	950-780B	6.12	7.00
C50-BB4-17	950-778B/S	4.00	17.00

* Outgoing Items

- 28-32 RC Body

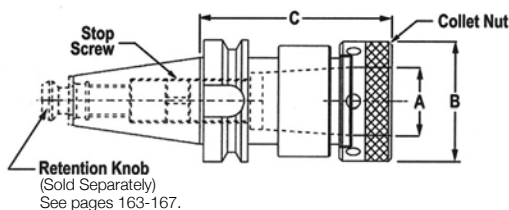
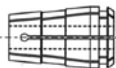


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BT SINGLE ANGLE COLLET CHUCKS

TG Style
Collets
See page 146.

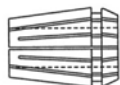


PART NO. WITH STOP SCREW	OLD PART NO.	PART NO. W/ COOLANT SEAL STOP SCREW	OLD PART NO.	A RANGE	COLLET SERIES	B DIA.	C PROJ.	NOSE PIECE	STOP SCREW	COOLANT SEAL SCREW	SPANNER WRENCH (NOT INCLUDED)
BT 40											
* BT40-TG10-350	BT940-503	BT40-TG10C-350	BT940-503C	0.093-1.00	TG100	2.5	3.5	111-TG10S	101-003	102-003	112-001
* BT40-TG10-550	-	BT40-TG10C-550	-	0.093-1.00	TG100	2.5	5.5	111-TG10S	101-003	102-003	112-001
BT 50											
* BT50-TG10-350	BT950-503	BT50-TG10C-350	BT950-503C	0.093-1.00	TG100	2.5	3.5	111-TG10S	101-003	102-003	112-001
* BT50-TG10-600	BT950-505	BT50-TG10C-600	BT950-505C	0.093-1.00	TG100	2.5	6.0	111-TG10S	101-003	102-003	112-001
* BT50-TG15-350	BT950-533	BT50-TG15C-350	BT950-533C	0.500-1.50	TG150	3.5	3.5	111-TG15S	101-014	102-007	112-002

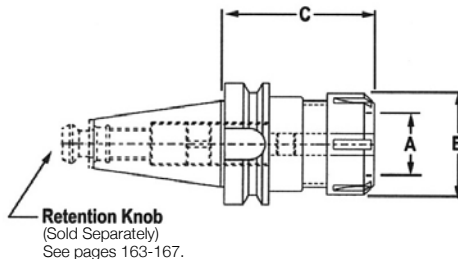
* Outgoing Items

- Supplied with nosepiece and stop screw

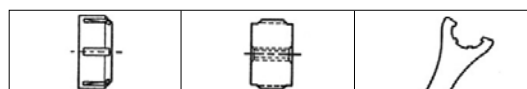
BT • ER COLLET CHUCKS



ER Style
Collets
See page 145.



STANDARD
TOOLHOLDERS



PART NUMBER	A RANGE	COLLET SERIES	B DIA.	C PROJ.	NOSE PIECE	STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
BT 40							
* BT40-ER20-393	0.040-0.511	ER20	1.344	3.937	115-009	101-023	112-103
* BT40-ER32-400	0.080-0.787	ER32	1.968	4.000	115-006	101-024	112-106
BT 50							
* BT50-ER20-393	0.040-0.511	ER20	1.344	3.937	115-009	101-023	112-103
* BT50-ER32-400	0.040-0.787	ER32	1.968	4.000	115-006	101-024	112-106

* Outgoing Items

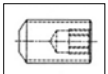
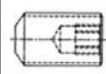
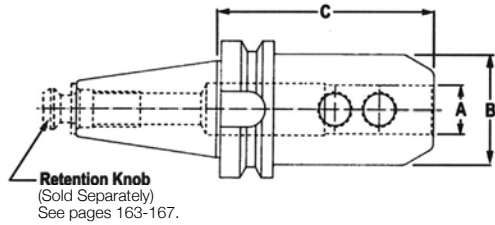
- Precision gripping within 0.0003"
- Threaded through holes for backup screws and coolant
- Greater precision allows for improved tool life and precise machine tolerances
- Supplied with nosepiece
- For optional stop screws see page 156



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BT END MILL HOLDERS



PART NUMBER	OLD PART NO.	A I.D.	B DIA.	C PROJ.	SET SCREW SIZE
BT 40					
BT40-EM37-250	BT940-370	0.375	1.12	2.50	3/8-24
* BT40-EM37-400		0.375	1.12	4.00	3/8-24
BT40-EM50-175		0.500	1.75	1.75	7/16-20
* BT40-EM50-250	BT940-500	0.500	1.50	2.50	7/16-20
BT40-EM50-400		0.500	1.50	4.00	7/16-20
BT40-EM62-250	BT940-620	0.625	1.62	2.50	9/16-18
* BT40-EM62-400		0.625	1.62	4.00	9/16-18
* BT40-EM75-250	BT940-750	0.750	1.75	2.50	5/8-18
BT40-EM75-400		0.750	1.75	4.00	5/8-18
* BT40-EM87-350		0.875	2.17	3.50	5/8-18
* BT40-EM10-175		1.000	2.38	1.75	3/4-16
BT40-EM10-350	BT940-100	1.000	2.38	3.50	3/4-16
BT40-EM12-350	BT940-120	1.250	2.50	3.50	3/4-16
BT40-EM15-450		1.500	2.75	4.50	3/4-16

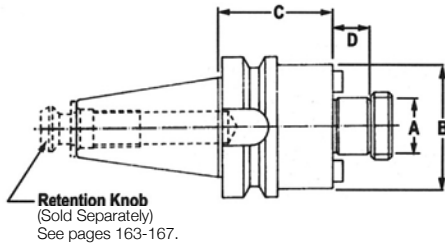
* Outgoing Items

- End mill holders are supplied with set screws
- See page 127 for additional set screws

PART NUMBER	OLD PART NO.	A I.D.	B DIA.	C PROJ.	SET SCREW SIZE
BT 50					
* BT50-EM37-300		0.375	1.12	3	3/8-24
* BT50-EM50-300	BT950-500	0.500	1.50	3	7/16-20
* BT50-EM50-600		0.500	1.50	6	7/16-20
* BT50-EM62-300	BT950-620	0.625	1.62	3	9/16-18
* BT50-EM62-600		0.625	1.62	6	9/16-18
* BT50-EM75-300	BT950-750	0.750	1.75	3	5/8-18
* BT50-EM75-600		0.750	1.75	6	5/8-18
* BT50-EM87-400	BT950-870	0.875	2.00	4	5/8-18
* BT50-EM10-400	BT950-100	1.000	2.25	4	3/4-16
* BT50-EM10-600		1.000	2.25	6	3/4-16
* BT50-EM12-400	BT950-120	1.250	2.69	4	3/4-16
* BT50-EM12-600		1.250	2.69	6	3/4-16
* BT50-EM15-400		1.500	2.88	4	3/4-16
* BT50-EM20-500	BT950-200E	2.000	3.62	5	1-14

* Outgoing Items

BT SHELL MILL HOLDERS



PART NUMBER	OLD PART NUMBER	A PILOT DIA.	B. DIA.	C PROJ.	D	ARBOR SCREW	DRIVE KEY / PIN
BT 40							
BT40-SM75-175	B1940-075	0.75	1.73	1.75	0.68	200-001	201-002
BT40-SM10-175	BT940-010	1.00	2.19	1.75	0.68	200-003	201-003
BT40-SM12-200	BT940-025	1.25	2.75	1.75	0.68	201-005	201-004
BT40-SM15-212	8T940-050	1.50	3.62	1.75	0.94	200-007	201-005
BT 50							
* BT50-SM10-175	BT950-010	1.00	2.19	1.75	0.68	200-003	201-003
* BT50-SM12-175	BT950-025	1.25	2.19	1.75	0.68	200-005	201-004
* BT50-SM15-175	BT950-056	1.50	3.62	1.75	0.94	200-007	201-005
* BT50-SM20-300	BT950-220	2.00	4.88	3.00	0.94	200-009	201-006

* Outgoing Items

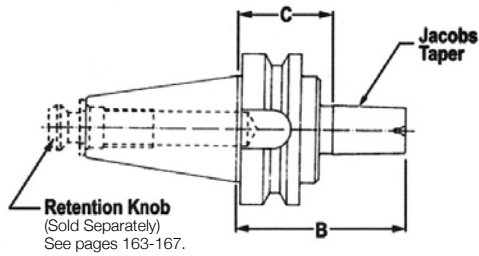
- Shell Mill Holders are supplied with drive keys and arbor screws



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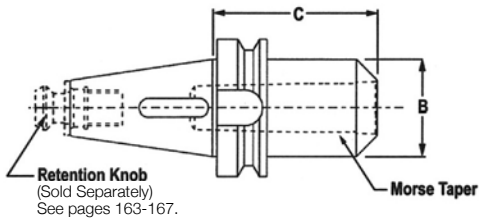
BT JACOBS TAPER HOLDERS



PART NUMBER	J.T. SIZE	B SIZE	C PROJ.
BT 40			
* BT40-JT2-264	2	2.645	1.77
* BT40-JT3-298	3	2.989	1.77
* BT40-JT6-277	6	2.770	1.77
* BT40-JT33-277	33	2.770	1.77

* Outgoing Items

BT MORSE TAPER HOLDERS • END ENTRY



STANDARD
TOOLHOLDERS

PART NUMBER	M.T. SIZE	B DIA.	C PROJ.
BT 40			
* BT40-MT2-177	2	1.27	1.77
* BT40-MT3-295	3	1.58	2.95
* BT40-MT4-374	4	1.97	3.74
BT 50			
* BT50-MT2-236	2	1.27	2.36
* BT50-MT3-295	3	1.58	2.95
* BT50-MT4-374	4	1.97	3.74
* BT50-MT5-413	5	2.25	4.13

* Outgoing Items

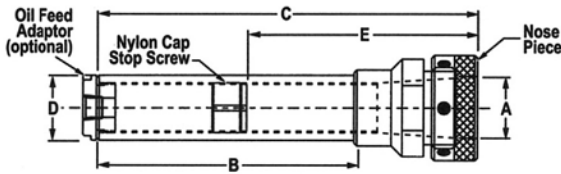
• End Entry provides coolant-thru-the-spindle to tang end of tooling only. (Will work for non-coolant applications)



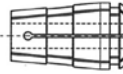
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STRAIGHT SHANK • SINGLE ANGLE COLLET CHUCKS



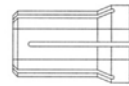
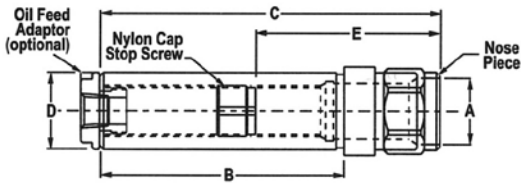
TG Style Collets
See page 146.



PART NUMBER	OLD PART NO.	A RANGE	COLLET SERIES	B SHANK LGTH.	C OAL	D SHANK DIA.	E MAX.	OPTIONAL OIL FEED ADAPTER	NOSE PIECE	NYLON CAP STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
STRAIGHT SHANK											
SS15-TG10-9	830-004	0.093-1.000	TG100	6.00	8.87	1.50	7.94	108-003	111-TG10S	102-003	112-001
SS20-TG15-12	830-005	0.500-1.500	TG150	8.00	11.69	2.00	11.00	108-004	111-TG15S	102-004	112-002

- Supplied with nosepiece and stop screw
- Oil feed adaptor not standard, available upon request

STRAIGHT SHANK • DOUBLE ANGLE COLLET CHUCKS



DA Style Collets
See page 147.

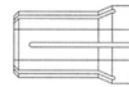
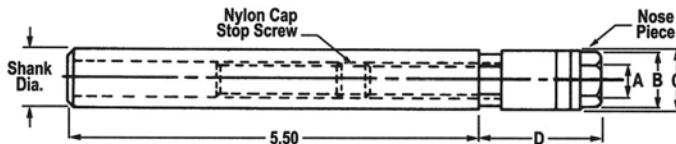


PART NUMBER	OLD PART NO.	A RANGE	COLLET SERIES	B SHANK LGTH.	C OAL	D SHANK DIA.	E MAX.	OPTIONAL OIL FEED ADAPTER	NOSE PIECE	NYLON CAP STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
STRAIGHT SHANK											
* SS10-DA18-7	830-001	0.047-0.750	DA180	4.00	6.375	1.00	5.69	108-001	111-DA18	102-001	112-018
* SS12-DA18-8	830-002	0.047-0.750	DA180	6.00	7.625	1.25	6.94	108-002	111-DA18	102-002	112-019
* SS15-DA18-8	830-003	0.047-0.750	DA180	6.00	7.625	1.50	6.94	108-002	111-DA18	102-002	112-019

* Outgoing Items

- Supplied with nosepiece and stop screw
- Oil feed adaptor not standard, available upon request

STRAIGHT SHANK • DOUBLE ANGLE COLLET EXTENSIONS (SLIM LINE)



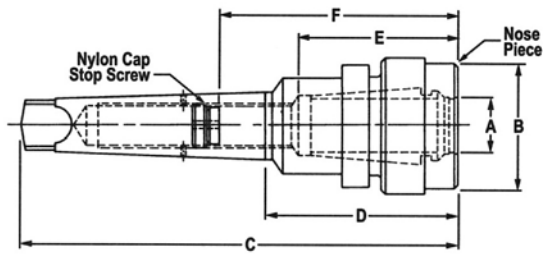
DA Style Collets
See page 147.



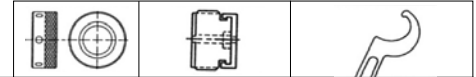
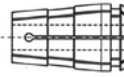
PART NO. NON-COOLANT	PART NO. WITH COOLANT SCREW	A RANGE	COLLET SERIES	B	C	D APPROX.	SHANK DIA.	NOSE PIECE	NON-COOLANT STOP SCREW	COOLANT STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
STRAIGHT SHANK											
SS50-DA30-S7	SS50-DA30C-S7	0.031-0.250	DA300	1/2 Hex	0.562	1.312	0.50	111-SDA30	101-022	103-010	112-014
SS75-DA20-S8	SS75-DA20C-S8	0.047-0.390	DA200	11/16 Hex	0.812	1.687	0.75	111-SDA20	101-005	102-005	112-015
SS10-DA10-S8	SS10-DA10C-S8	0.047-0.560	DA100	7/8 Hex	1.062	1.812	1.00	111-SDA10	101-006	102-006	112-017
SS12-DA18-S8	SS12-DA18C-S8	0.047-0.750	DA180	1-1/4 Hex	1.437	1.812	1.25	111-SDA18	101-002	102-002	112-018



MORSE TAPER SINGLE ANGLE COLLET CHUCK WITH COOLANT CROSS HOLE



TG Style Collets
See page 146.

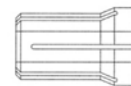
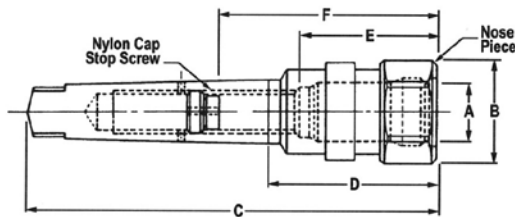


PART NUMBER	OLD PART NUMBER	M.T. SIZE	A RANGE	COLLET SERIES	B DIA.	C OAL	D PROJ.	E DEPTH	F MAX.	NOSE PIECE	NYLON CAP STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
* MT4-TG10-312	832-003	4	0.09-1.00	TG10	2.50	7.75	3.12	2.59	3.75	111-TG10S	102-002	112-001

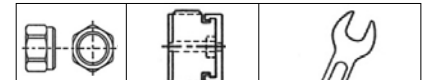
* Outgoing Items

- Holders furnished with Nylon Stop Screw. Coolant crosshole location to industry standard for Taper Shank Oil Hole Twist Drills

MORSE TAPER DOUBLE ANGLE COLLET CHUCK WITH COOLANT CROSS HOLE



DA Style Collets
See page 147.

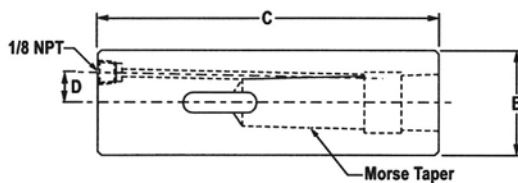


PART NUMBER	OLD PART NO.	M.T. SIZE	A RANGE	COLLET SERIES	B	C OAL	D PROJ.	E DEPTH	F MAX.	NOSE PIECE	NYLON CAP STOP SCREW	SPANNER WRENCH (NOT INCLUDED)
* MT2-DA10-212	829-002	2	0.046-0.562	DA100	1-1/4 Hex	5.06	2.12	1.72	2.25	111-DA10	102-006	112-018
* MT3-DA10-168	829-003	3	0.046-0.562	DA100	1-1/4 Hex	5.38	1.68	1.72	2.25	111-DA10	102-013	112-018
* MT2-DA18-238	832-001	2	0.046-0.750	DA180	1-1/2 Hex	5.38	2.38	2.00	2.75	111-DA18	102-005	112-019
* MT3-DA18-238	832-002	3	0.046-0.750	DA180	1-1/2 Hex	6.06	2.38	2.00	2.50	111-DA18	102-002	112-019
* MT4-DA18-175	832-004	4	0.046-0.750	DA180	1-1/2 Hex	6.38	1.75	-	2.25	111-DA18	102-002	112-019

* Outgoing Items

- Holders furnished with Nylon Stop Screw. Coolant crosshole location to industry standard for Taper Shank Oil Hole Twist Drills

STRAIGHT SHANK • MORSE TAPER HOLDERS



PART NUMBER	OLD PART NUMBER	M.T. SIZE	B DIA.	C OAL	D LOCATION
STRAIGHT SHANK					
SS15-MT1-4C	847-001	1	1.50	4.00	0.47
SS15-MT2-4C	847-002	2	1.50	4.00	0.47
SS17-MT3-6C	847-003	3	1.75	5.75	0.50
SS17-MT4-6C	847-004	4	1.75	5.75	0.59
SS25-MT5-7C	847-005	5	2.50	7.00	0.88

STANDARD
TOOL HOLDERS