

BISON

Empowered by precision



LATHE CHUCKS



POWER CHUCKS



VICES



CLAMPING JAWS



MILLING FIXTURES



SPINDLE TOOLING



PRODUCT OVERVIEW

www.bison-america.com



For a complete list of available models, variations and size ranges please visit www.BISON-AMERICA.com

3205 • SELF-CENTERING SCROLL CHUCK • 3-JAW



- Plain back
- Front mount options available
- Cast iron body - Forged steel available
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- Backplate required

Code No.		Details	
Rear Mount	Front Mount	Diameter [in]	Through-hole [in]
7-800-0500	7-812-0500	5	1.26
7-800-0600	7-812-0600	6	1.65
7-800-0800	7-812-0800	8	2.17
7-800-1000	7-812-1000	10	2.99
7-800-1200	7-812-1200	12	4.06
7-800-1600	7-812-1600	16	5.35
7-800-2000	–	20	7.48
7-800-2500	–	25	9.92

3605 • SELF-CENTERING SCROLL CHUCK • 4-JAW



- Plain back
- Front mount options available
- Cast iron body - Forged steel available
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- Backplate required

Code No.		Details	
Rear Mount	Front Mount	Diameter [in]	Through-hole [in]
7-840-0500	7-814-0500	5	1.26
7-840-0600	7-814-0600	6	1.65
7-840-0800	7-814-0800	8	2.17
7-840-1000	7-814-1000	10	2.99
7-840-1200	7-814-1200	12	4.06
7-840-1600	7-814-1600	16	5.35
7-840-2000	7-814-2000	20	7.48
7-840-2500	7-814-2500	25	9.92

3545 • SELF-CENTERING SCROLL CHUCK • 3-JAW



- Camlock mounting (Type D)
- Forged Steel body - Cast iron available
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- Balanced scroll plate

Code No.	Mounting	Diameter [in]	Through-hole [in]
7-823-0533	D1-3	5	1.26
7-823-0534	D1-4	5	1.26
7-823-0633	D1-3	6	1.65
7-823-0634	D1-4	6	1.65
7-823-0635	D1-5	6	1.65
7-823-0834	D1-4	8	2.17
7-823-0835	D1-5	8	2.17
7-823-0836	D1-6	8	2.17
7-823-1036	D1-6	10	2.99
7-823-1038	D1-8	10	2.99
7-823-1236	D1-6	12	4.06
7-823-1238	D1-8	12	4.06
7-823-1239	D1-11	12	4.06
7-823-1638	D1-8	16	5.35
7-823-1639	D1-11	16	5.35
7-823-2038	D1-8	20	5.35
7-823-2039	D1-11	20	7.48
7-823-2538	D1-8	25	5.35
7-823-2539	D1-11	25	7.48
7-823-2540	D1-15	25	9.92

3565 • SET-TRU ADJUSTABLE SCROLL CHUCK • 3-JAW



- Set-Tru mounting (adjustable)
- $\pm 0.0002"$ T.I.R.
- Hard 2-piece reversible jaws
- Forged steel body
- Balanced scroll plate
- Hardened and ground working surfaces
- Backplate required

Code No.	RPM	Diameter [in]	Through-hole [in]
7-866-0500	5,500	5	1.38
7-866-0600	4,600	6	1.65
7-866-0800	4,000	8	2.17
7-866-1000	3,500	10	2.99
7-866-1200	2,800	12	4.06
7-866-1600	2,000	16	5.35
7-866-2000	1,300	20	7.48
7-866-2500	1,000	25	9.92

3865 • SET-TRU ADJUSTABLE SCROLL CHUCK • 6-JAW



- Set-Tru mounting (adjustable)
- $\pm 0.0002"$ T.I.R.
- Hard 2-piece reversible jaws
- Forged steel body
- Balanced scroll plate
- Hardened and ground working surfaces
- Backplate required

Code No.	RPM	Diameter [in]	Through-hole [in]
7-868-0500	3,800	5	1.38
7-868-0600	3,200	6	1.65
7-868-0800	2,800	8	2.17
7-868-1000	2,400	10	2.99
7-868-1200	1,900	12	4.06
7-868-1600	1,400	16	5.35
7-868-2000	900	20	7.48
7-868-2500	700	25	9.92

4304 • 4307 • INDEPENDENT CHUCK • 4-JAW



- Plain back
- Backplate required
- Cast iron: hard solid reversible jaws
- Forged steel: hard 2-piece reversible jaws

Cast Iron No.	Forged Steel No.	Diameter [in]	Through-hole [in]
7-850-0800	7-855-0800F	8	1.97
7-850-1000	7-855-1000F	10	2.56
7-850-1200	7-855-1200F	12	3.15
7-850-1600	7-855-1600F	16	3.94
7-850-2000	7-855-2000F	20	4.92
7-850-2500	7-855-2500F	25	6.30

5C COLLET CHUCKS



Collet Chuck
Plain Back
3911-5"
Code No.
7-862-0501



Collet Chuck
Tru-Length
3975-5"
Code No.
7-862-0503



Collet Chuck
SET-TRU
3960-5"
Code No.
7-862-0505

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3515 HD • OIL COUNTRY SCROLL CHUCK • 3-JAW



- A2 type direct mount
- Forged steel body
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- Balanced scroll plate
- High gripping force

Code No.	Mounting	Diameter [in]	Through-hole [in]
7-825-1608	A2-8	16	5.35
7-825-1611	A2-11	16	5.12
7-825-2011	A2-11	20	7.56
7-825-2025	A2-15	20	8.00
7-825-2515	A2-15	25	10.83
7-825-2520	A2-20	25	12.60
7-825-3215	A2-15	32	10.75
7-825-3220	A2-20	32	12.55

3295 • OIL COUNTRY SCROLL CHUCK • 3-JAW



- Plain back
- Forged steel body
- Large through hole
- Backplate required
- Soft top jaws included
- Hardened and ground working surfaces

Code No.	Clamping Range	Diameter [in]	Through-hole [in]
7-819-1600	5.43" - 10.08"	16	8.66
7-819-2000	9.84" - 14.96"	20	12.60
7-819-2600	14.80" - 19.57"	26	15.98
7-819-3200	7.40" - 22.25"	32	16.14

3597 • OIL COUNTRY SCROLL CHUCK • 3-JAW



- Plain back
- Forged steel body
- Large through hole
- Backplate required
- Hard and soft top jaws included
- Hardened and ground working surfaces

Code No.	Clamping Range	Diameter [in]	Through-hole [in]
7-819-1200S	1.57" - 12.40"	12	5.71
7-819-1600S	5.43" - 15.98"	16	8.66
7-819-2000S	10.39" - 20.31"	20	12.60
7-819-2600S	13.74" - 24.80"	26	15.98
7-819-3200S	10.25" - 18.10"	32	18.11
7-819-4000S	13.75" - 39.25"	40	22.52

SEMI FINISHED BACKPLATES



Rough Back Plate
8205
Group Code No.
7-870-XXX



Threaded Spindles
8206
Group Code No.
7-871-XXX



A1 and A2 Spindles
8212-S
Group Code No.
7-873-XXX



Camlock (D1) Spindles
8242
Group Code No.
7-878-XXX

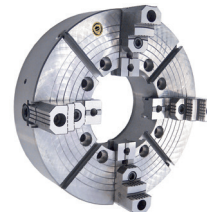
4347 HD • INDEPENDENT OIL COUNTRY • 4-JAW



- Camlock (D type) direct mount
- Forged steel body
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- High gripping force
- Heavy-duty design

Code No.	Mounting	Diameter [in]	Through-hole [in]
7-859-6150	D1-8	16	5.35
7-859-6153	D1-11	16	6.61
7-859-6200	D1-8	20	5.35
7-859-6203	D1-11	20	6.61
7-859-6839	D1-11	28	7.56

4317 HD • INDEPENDENT OIL COUNTRY • 4-JAW



- A2 type direct mount
- Forged steel body
- Hard 2-piece reversible jaws
- Hardened and ground working surfaces
- High gripping force
- Heavy-duty design

Code No.	Mounting	Diameter [in]	Through-hole [in]
7-859-1620	A2-8	16	5.35
7-859-1625	A2-11	16	6.61
7-859-2033	A2-11	20	6.61
7-859-2043	A2-15	20	8.07
7-859-2543	A2-15	25	10.63
7-859-2550	A2-20	25	10.63
7-859-2555	A2-20	25	12.60
7-859-2845	A2-15	28	10.50
7-859-2853	A2-20	28	12.55
7-859-3243	A2-15	32	10.50
7-859-3255	A2-20	32	12.55
7-859-3257	A2-20	32	14.55
7-859-4043	A2-15	40	10.50
7-859-4063	A2-28	40	20.86
7-859-4915	A2-15	49	11.06

FULLY FINISHED BACKPLATES



A2 Spindles
8210-X
Group Code No.
7-873-XXX



A2 Spindles
SET-TRU
8215
Group Code No.
7-874-XXX



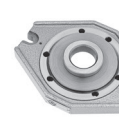
Camlock (D1) Spindles
8240-X
Group Code No.
7-878-XXX



Camlock (D1) Spindles
SET-TRU
8245
Group Code No.
7-875-XXX



Faceplate For Indexing Fixtures
9440
Group Code No.
7-610-5XX

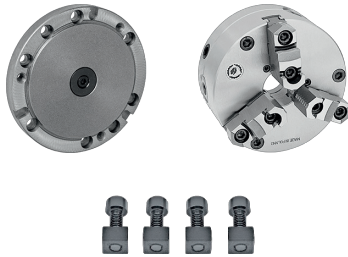


Baseplate For Milling Machines
9450 / 9452
Group Code No.
7-630-XXX



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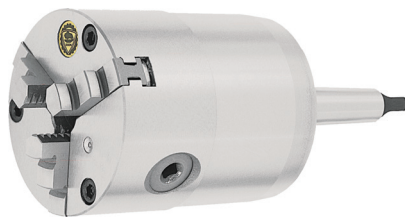
8292 • HAAS CHUCK PACKAGES • 3-JAW



- Chuck packages for HAAS Rotary Tables
- Includes: BISON chuck, adapter plate & mounting hardware
- Alternate packages available upon request
- Available with 3 or 6 jaw chucks

Code No.	HAAS Rotary Table	Description
7-950-110	HRT-110	BISON 4" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-160	HRT-160	BISON 6" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-210	HRT-210	BISON 8" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-310	HRT-310	BISON 10" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-312	HRT-310	BISON 12" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-450	HRT-450	BISON 16" Steel Body 3-Jaw SET-TRU Scroll Chuck Package
7-950-451	HRT-450	BISON 16" Steel Body 8.6" Thru-Hole 3-Jaw Scroll Chuck Package
7-950-452	HRT-450	BISON 16" Semi-Steel Body 8.6" Thru-Hole 3-Jaw Scroll Chuck Package
7-950-600	HRT-600	BISON 20" Steel Body 3-Jaw SET-TRU Scroll Chuck Package

9154 • ROTATING CHUCKS FOR TAILSTOCKS • 3-JAW



- Rotating chuck packages for tailstocks
- Includes: BISON chuck, rotating body & mounting hardware
- Alternate packages available upon request
- Available with 3 or 6 jaw chucks
- Rotating body available separately

Solid Jaws Non-SET-TRU Code No.	2-Piece Jaws Non-SET-TRU Code No.	SET-TRU Code No.	Morse Taper	Chuck Size [in]
7-860-0300	—	—	2	3
7-860-0400	—	7-861-0400	3	4
7-860-0500	7-865-0500	7-861-0500	4	5
7-860-0600	7-865-0600	7-861-0600	5	6

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2405-K • POWER CHUCK • 3-JAW



- KITAGAWA B-series interchangeable
- Plain back
- Through-hole
- Forged alloy steel body
- Serration 1.5 x 60°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-781-0500	7,000	135	34	2.7
7-781-0600	6,000	169	45	3.5
7-781-0800	5,000	210	52	5
7-781-1000	4,200	254	75	6
7-781-1200	3,300	315	91	6
7-781-1600	2,500	400	120	7.85

2405-K ZW • POWER CHUCK • 3-JAW



- KITAGAWA BB-series interchangeable
- Plain back
- Large through-hole
- Forged alloy steel body
- Serration 1.5 x 60°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-781-0660	6,000	169	53	3.5
7-781-0880	5,000	210	66	5
7-781-1010	4,200	254	81	6
7-781-1220	3,300	315	110	6

2605-K • POWER CHUCK • 4-JAW



- Plain back
- Through-hole
- Forged alloy steel body
- Serration 1.5 x 60°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-783-0500	6,000	135	34	2.7
7-783-0600	5,000	169	45	3.5
7-783-0800	4,300	210	52	5
7-783-1000	3,600	254	75	6
7-783-1200	2,800	315	91	6

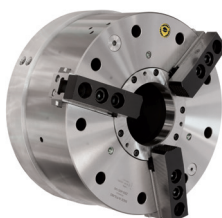
2502 • PNEUMATIC POWER CHUCK • 3-JAW



- Plain back
- I.D and O.D. clamping
- Large through-hole
- Forged alloy steel body
- Serration 1/16" x 90°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-785-0600	4,200	255	38	3.5
7-785-0800	3,800	300	52	5
7-785-1000	3,000	372	65	5
7-785-1000R	3,000	372	68	5
7-785-1200R	3,000	372	104	6
7-785-1600R	1,300	467	140	7
7-785-2000R	1,300	570	230	8.5
7-785-2500R	1,000	685	330	10
7-785-3240R	750	850	365	10
7-785-3260R	750	850	410	10
7-785-4000R	450	925	560	10

2500 • PNEUMATIC POWER CHUCK • 3-JAW



- Plain back
- O.D. clamping
- Rapid and slow clamping jaw stroke
- Large through-hole
- Forged alloy steel body
- Serration 1/16" x 90°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-785-1600	1,300	467	140	19
7-785-2000	1,000	570	230	25.4
7-785-2500	900	685	325	25.4
7-785-3200	750	850	375	25.4
7-785-4000	450	925	560	25.4

TOP JAWS FOR POWER CHUCKS



- For 3-jaw power chucks
- Metric serration 1.5 x 60°
- Kitagawa compatible

Chuck size [mm]	Code No. Hard Top Jaws	Code No. Soft Top Jaws
160	7-787-306	7-788-306
200	7-787-308	7-788-308
250	7-787-310	7-788-310
315	7-787-312	7-788-312
400	7-787-316	7-788-316

2105-K • POWER CHUCK • 2-JAW



- Plain back
- Through-hole
- Forged alloy steel body
- Serration 1.5 x 60°
- Backplate required

Code No.	Max RPM	Diameter [mm]	Through-hole [mm]	Jaw stroke [mm]
7-782-0500	7,000	135	34	2.7
7-782-0600	6,000	169	45	3.5
7-782-0800	5,000	210	52	5
7-782-1000	4,200	254	75	6
7-782-1200	3,300	315	91	6

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6516 • MACHINE VISE



- A unique, built-in hydraulic spindle
- Easy adjusting clamping range with 2 pins
- Sturdy, maintenance-free spindle

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Clamping range [in]
7-251-005	7,870	5	8.07
7-251-006	12,370	6	11.02
7-251-008	16,860	8	14.76

6512 • MACHINE VISE



- Lead screw protected against dirt and chips
- High quality cast body and movable jaw

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Clamping range [in]
7-222-005	5,620	4	3.15
7-222-010	7,900	5	3.74
7-222-015	9,000	6	4.92
7-222-020	12,400	8	6.30
7-222-025	13,940	10	7.87

6522 • TWO-PIECE MACHINE VISE



- Allows full use of machine bed length
- Removable grooved jaw inserts
- Made of high quality castings

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Jaw insert height [in]
7-255-006	9,000	6	2
7-255-008	11,250	8	2.50

6546 • VISE FOR SHAFTS



- Able to be set up in both horizontal and vertical positions
- Hardened and ground jaws and V-block
- Sturdy, cast iron design

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Clamping range [in]
7-225-004	2,250	4	0.39-2.36
7-225-005	3,400	5	0.59-3.94
7-225-006	4,500	6	1.97-6.30

1271 • HEAVY DUTY ALL AXIS VISE



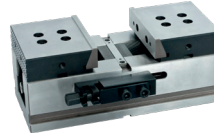
- Rotates in horizontal and vertical axis
- Can clamp round workpieces in V-shaped jaws
- Lead screw completely covered to keep contaminants out

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Clamping range [in]
7-245-005	6,750	5	5.9

NEW

6651 • PRECISION ADJUSTABLE VISE

NEW



- Self-Centering module with jaw insert
- No workpiece distortion when using a combination of several vises
- Easy clamping of long workpieces
- Reduced cost of tooling / setup time

Code No.	Type	Jaw insert width [in]	Clamping range [in]
7-224-004	6651-100-230	4	2.56
7-224-005	6651-125-300	5	5.12
7-224-006	6651-150-350	6	6.89

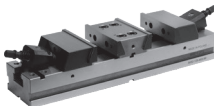
6620 • PRECISION VISE



- Reversible fixed jaw
- Quick re-adjustable, self-adjusting movable jaw
- Made of high-grade alloy steel, stabilized and hardened

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Length [in]	Clamping range [in]
7-223-040	4,500	4	12.60	6.50
7-223-050	6,745	5	13.19	6.50
7-223-060	9,220	6	16.73	8.27
7-223-062	9,220	6	18.70	10.24
7-223-063	9,220	6	20.47	12.01
7-223-080	10,120	8	21.06	10.24
7-223-082	10,120	8	23.03	12.20
7-223-085	10,120	8	25.00	14.17

6632 • PRECISION VISE



- Reversible fixed jaw
- Quick re-adjustable, self-adjusting movable jaws
- Made of high-grade alloy steel, stabilized and hardened

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Length [in]	Clamping range [in]
7-223-305	6,750	5	18.31	3.54

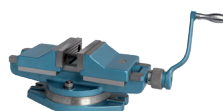
6552 • TOOLMAKER VISE



- Used for precision grinding, milling and measuring work
- Made of alloy tool steel, hardened and precision ground

Code No.	Length [in]	Jaw insert width [in]	Clamping range [in]
7-200-002	4.72	2.48	1.97
7-200-003	5.75	3.15	2.48
7-200-004	6.85	3.94	3.15

6531 • SELF-CENTERING MACHINE VISE



- 360° swivel base with ground contact edge and graduation
- Removable grooved jaw inserts are hardened and ground

Code No.	Max clamping force [lbf]	Jaw insert width [in]	Clamping range [in]
7-210-005	5,620	5	4
7-210-006	9,000	6	5
7-210-008	12,370	8	6

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HARD TOP JAWS FOR SCROLL CHUCKS



- Standard tongue and groove
- For 3-, 4-, and 6-jaw scroll chucks
- Hardened and ground
- Jaws sold in sets

Chuck Size [in]	Code No. 3-Jaw	Code No. 4-Jaw	Code No. 6-Jaw
5	7-883-305	7-883-405	7-883-605
6	7-883-306	7-883-406	7-883-606
8	7-883-308	7-883-408	7-883-608
10	7-883-310	7-883-410	7-883-610
12	7-883-312	7-883-412	7-883-612
16	7-883-316	7-883-416	7-883-616
20	7-883-320	7-883-420	7-883-620
25	7-883-325	7-883-425	7-883-625
32	7-883-325	7-883-432	7-883-632
40	7-883-340	7-883-440	7-883-640

SOFT TOP JAWS FOR LATHE CHUCKS



- Standard tongue and groove
- For 3-, 4-, and 6-jaw scroll chucks
- Hardened tenon
- Jaws sold individually

Chuck Size [in]	Code No. 3-Jaw	Code No. 4-Jaw	Code No. 6-Jaw
5	7-884-305	7-884-405	7-884-605
6	7-884-306	7-884-406	7-884-606
8	7-884-308	7-884-408	7-884-608
10	7-884-310	7-884-410	7-884-610
12	7-884-312	7-884-412	7-884-612
16	7-884-316	7-884-416	7-884-616
20	7-884-320	7-884-420	7-884-620
25	7-884-325	7-884-425	7-884-625
32	7-884-332	7-884-432	7-884-632
40	7-884-340	7-884-432	7-884-632

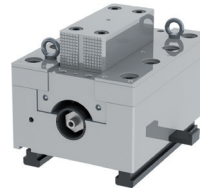
MASTER JAWS FOR LATHE CHUCKS



- Standard tongue and groove
- For 3-, 4-, and 6-jaw scroll chucks
- Hardened and ground
- Jaws sold in sets

Chuck Size [in]	Code No. 3-Jaw	Code No. 4-Jaw	Code No. 6-Jaw
5	7-885-305	7-885-405	7-885-605
6	7-885-306	7-885-406	7-885-606
8	7-885-308	7-885-408	7-885-608
10	7-885-310	7-885-410	7-885-610
12	7-885-312	7-885-412	7-885-612
16	7-885-316	7-885-416	7-885-616
20	7-885-320	7-885-420	7-885-620
25	7-885-325	7-885-425	7-885-625
32	7-885-332	7-885-432	7-885-632
40	7-885-340	7-885-440	7-885-640

9171 MSPD • BOX JAW WITH POWER SCREW



- JAKOB® power-clamping MSPD screw
- Clamping force up to 90,000 lbf
- High clamping force obtained with minimum operator effort
- Suited for integration with face plates

Code No.	Type	Clamping force [lbf]
7-643-2500	9171-630-40T MSPD	~ 90,000

9170 • BOX JAW SETS



- Set of 4 - Cast iron body, hardened and ground guideways
- Hardened reversible clamping jaws
- Suited for integration with face plates

Set of 4 Code No.	Max Load [lbs]	Clamping force [lbf]
7-645-006	13,970	~ 6,300
7-645-008	17,952	~ 7,900

5901-5911 • SUPERSPACERS



- Operates in horizontal or vertical position
- Basic indexing - done by means of catch device in 2, 3, 4, 6, 8, 12 and 24 divisions
- Indexing accuracy 2'
- Chuck sold separately

Code No.	Chuck No.	Chuck Diameter [in]	Center Height [in]
7-609-014	7-813-0500	5	3.94
7-609-016	7-813-0600	6	4.92
7-609-018	7-813-0800	8	6.30
7-609-020	7-813-1000	10	7.87
7-609-022	7-813-1200	12	9.84

5818 • TAILSTOCK



- Designed for use with indexing fixtures, rotary tables and dividing heads
- Adjustable tailstocks available

Code No.	Morse Taper	Center Height [in]	Adjustable Code No.	Morse Taper	Center Height [in]
7-610-103	1	3.15	—	—	—
7-610-104	2	3.94	7-610-806	2	3.74-5.11
7-610-106	2	4.92	7-610-808	3	5.11-6.69
7-610-108	3	6.30	7-610-810	3	6.69-7.87
7-610-110	4	7.87	7-610-812	3	7.87-8.66
7-610-112	4	9.84	7-610-816	4	8.66-9.84

For a complete list of available models, variations and size ranges please visit www.BISON-AMERICA.com

8811 R • PREMIUM LIVE CENTER



- High-precision triple bearing design
- New reliable seal
- High runout accuracy and speeds
- Heavy duty with long life

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-568-102	2	± 0.00005	440	7,000
7-568-103	3	± 0.00005	1,100	5,000
7-568-104	4	± 0.00005	1,760	3,800
7-568-105	5	± 0.00005	4,400	3,000

8813 R • PREMIUM EXTENDED POINT LIVE CENTER



- Extended 60° point with small body
- High-precision triple bearing design
- New reliable seal
- High runout accuracy and speeds
- Heavy duty with long life

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-562-002	2	± 0.00015	374	7,000
7-562-003	3	± 0.00015	748	7,000
7-562-004	4	± 0.00015	1,540	6,300
7-562-005	5	± 0.0002	3,080	4,300
7-562-006	6	± 0.0004	6,600	3,000

8823 • ULTRA PRECISION HD LIVE CENTER



- Adjustable, ultra precise radial bearing significantly reduces run out

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-567-002	2	± 0.0001	220	8,000
7-567-003	3	± 0.00005	440	6,000
7-567-004	4	± 0.00005	880	4,500
7-567-005	5	± 0.00005	1,430	4,000
7-567-006	6	± 0.00005	3,080	3,000

8832 • LIVE CENTER



- Set includes the center body and seven different style inserts in a case.

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-570-002	2	± 0.0002	220	5,000
7-570-003	3	± 0.0002	440	4,000
7-570-004	4	± 0.0002	880	3,000
7-570-005	5	± 0.0003	1,770	2,500
7-570-006	6	± 0.0003	3,550	2,000

8811-P • SUPER PRECISION LIVE CENTER



- Equipped with three super precise high-quality bearings protected by a special steel shield and neoprene seal

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-565-101	1	± 0.0001	220	5,000
7-565-102	2	± 0.00005	396	5,000
7-565-103	3	± 0.00005	990	4,000
7-565-104	4	± 0.00005	2,200	3,000
7-565-105	5	± 0.0001	4,180	2,500
7-565-106	6	± 0.0001	8,140	2,000

8825 • BULL HEAD LIVE CENTER



- Centers are designed to hold pipes and hollow workpieces
- 60° Truncated point

Code No.	Morse Taper	T.I.R. [in]	Max load [lbs]	Max RPM
7-575-010	1	± 0.00015	220	5,000
7-575-020	2	± 0.00015	400	5,000
7-575-021	2	± 0.00015	660	4,500
7-575-030	3	± 0.00015	770	4,500
7-575-031	3	± 0.00015	1,210	3,000
7-575-040	4	± 0.00015	1,320	3,000
7-575-042	4	± 0.0002	1,540	3,000
7-575-051	5	± 0.0004	1,650	2,000
7-575-060	6	± 0.001	4,400	1,000

8410 • AUTOMATIC FACE DRIVER

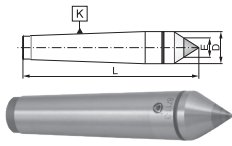


- Carrier teeth based on hydro-plastic medium adjust automatically to work piece
- Specially suited for repetition work
- Spring loaded center
- Suitable for left or right rotation

Code No.	Morse Taper	Clamping Range [in]	Max load [lbs]	Max Axial Load [lbs]
7-590-041	4	1.18 - 1.97	121	2,204
7-590-043	4	1.65 - 3.94	143	2,645
7-590-051	5	1.18 - 1.97	121	2,204
7-590-053	5	1.65 - 3.94	143	2,645
7-590-054	5	2.05 - 4.72	220	4,409

For a complete list of available models, variations and size ranges please visit www.BISON-AMERICA.com

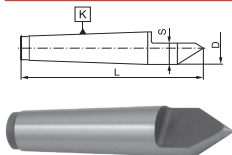
8711 • CARBIDE TIPPED DEAD CENTER



- $\pm 0.0001"$ T.I.R.
- Case hardened to 61-63 HRC
- Carbide tipped centers give longer tool life and require less re-grinding

Code No.	Morse Taper	Length L [in]	Center Width D [in]	Tip Width E [in]
7-550-005	1	3.15	0.48	0.28
7-550-010	2	3.94	0.74	0.28
7-550-015	3	4.92	0.94	0.43
7-550-020	4	6.30	1.24	0.55
7-550-025	5	7.87	1.76	0.71
7-550-030	6	10.63	2.51	0.71

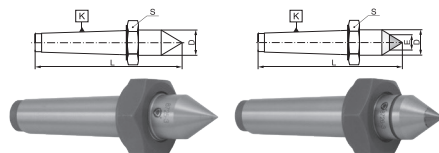
8730 • HALF POINT DEAD CENTER



- $\pm 0.0001"$ T.I.R.
- Case hardened to 61-63 HRC
- Half-pointed dead center

Code No.	Morse Taper	Length L [in]	Center Width D [in]	Tip Width E [in]
7-540-001	1	3.15	0.48	0.30
7-540-002	2	3.94	0.71	0.43
7-540-003	3	4.92	0.95	0.59
7-540-004	4	6.30	1.24	0.82
7-540-005	5	7.87	1.76	1.15
7-540-006	6	10.63	2.51	1.68

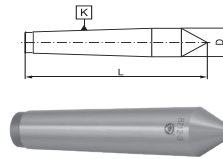
8725 • 8726 • DEAD CENTER WITH DRAW OFF NUT



- $\pm 0.0001"$ T.I.R.
- 61-63 HRC
- Carbide tipped available

Non-Carbide Dead Center Code No.	Carbide Tipped Code No.	Morse Taper	Center Length L [in]	Center Width D [in]	Draw-Off Nut S [in]	Carbide Tip Width E [in]
7-545-002	7-546-002	2	4.41	0.71	1.26	0.28
7-545-003	7-546-003	3	5.43	0.95	1.61	0.43
7-545-004	7-546-004	4	6.89	1.24	2.17	0.55
7-545-005	7-546-005	5	8.54	1.76	2.95	0.71
7-565-006	7-546-006	6	11.42	2.51	3.94	0.71

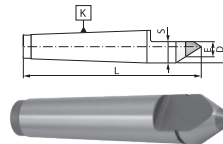
8712 • FULL DEAD CENTER



- $\pm 0.0001"$ T.I.R.
- Case hardened to 61-63 HRC
- Designed for use whenever high accuracy is required

Code No.	Morse Taper	Length L [in]	Center Width D [in]
7-555-005	1	3.15	0.48
7-555-010	2	3.94	0.74
7-555-015	3	4.92	0.94
7-555-020	4	6.30	1.24
7-555-025	5	7.87	1.76
7-555-030	6	10.63	2.51

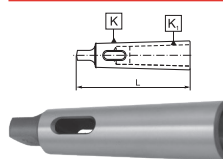
8731 • CARBIDE TIPPED HALF POINT DEAD CENTER



- $\pm 0.0001"$ T.I.R.
- Case hardened to 61-63 HRC
- Half-pointed dead center
- Carbide tipped centers give longer tool life and require less re-grinding

Code No.	Morse Taper	Length L [in]	Center Width D [in]	Carbide Tip Width E [in]	1/2 Center Width S [in]
7-541-001	1	3.15	0.48	0.30	0.41
7-541-002	2	3.94	0.71	0.43	0.51
7-541-003	3	4.92	0.95	0.59	0.72
7-541-004	4	6.30	1.24	0.82	0.93
7-541-005	5	7.87	1.76	1.15	1.26
7-541-006	6	10.63	2.51	1.68	1.64

1751 • REDUCTION MORSE TAPER SLEEVES

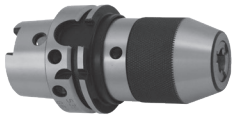


- Taper seat $\pm 0.0002"$ T.I.R.
- Alloy Forged Steel for long durable service life
- Hardened and ground internally and externally

Code No.	MT Shank K	MT Hole K1	Overall Length L [mm]
7-450-003	1	0	85
7-450-005	2	1	92
7-450-010	3	1	99
7-450-015	3	2	112
7-450-020	4	1	124
7-450-025	4	2	124
7-450-030	4	3	140
7-450-035	5	1	156
7-450-040	5	2	156
7-450-045	5	3	156
7-450-050	5	4	174
7-450-051	6	2	218
7-450-052	6	3	218
7-450-055	6	4	218
7-450-060	6	5	218

For a complete list of available models, variations and size ranges please visit www.BISON-AMERICA.com

5391 • HSK TAPER KEYLESS DRILL CHUCKS



- Keyless drill chucks designed for industrial and CNC use in drilling, boring, and counterboring
- Can be tightened and released by hand

Code No.	Taper	Gage Length [in]	Capacity [in]
7-311-6005	HSK-63-A	5.85	1/32 - 1/2
7-311-6008	HSK-63-A	6.18	1/8 - 5/8

7656 • BT FLANGE TAPER KEYLESS DRILL CHUCKS



- Keyless drill chucks designed for industrial and CNC use in drilling, boring, and counterboring
- Can be tightened and released by hand

Code No.	Taper	Gage Length [in]	Clamping Range [in]
7-174-433	BT40	3.74	1/32 - 1/2
7-174-563	BT50	4.13	1/8 - 5/8

7657 • NMTB 40 TAPER KEYLESS DRILL CHUCKS



- Keyless drill chucks designed for industrial and CNC use in drilling, boring, and counterboring
- Can be tightened and released by hand
- Compatible with Ericson quick change

Code No.	Taper	Gage Length [in]	Clamping Range [in]
7-048-420Q	NMTB 40	3.46	1/32 - 1/2
7-048-430Q	NMTB 40	3.90	1/8 - 5/8

7658 • CAT FLANGE KEYLESS DRILL CHUCKS



- Keyless drill chucks designed for industrial and CNC use in drilling, boring, and counterboring
- Can be tightened and released by hand

Code No.	Taper	Gage Length [in]	Clamping Range [in]
7-187-433	CAT 40	4.13	1/32 - 1/2
7-187-435	CAT 40	5.12	1/8 - 5/8
7-187-563	CAT 50	4.13	1/32 - 1/2
7-187-565	CAT 50	4.33	1/8 - 5/8

5133 • JACOBS TAPER KEYLESS DRILL CHAUCKS



- Keyless drill chucks designed for industrial and CNC use in drilling, boring and counterboring
- Can be tightened and released by hand

Code No.	Jacobs Taper	T.I.R. [in]	Clamping Range [in]
7-051-335	2	± 0.00075	1/32 - 1/2
7-051-337	33	± 0.00075	1/32 - 1/2
7-051-338	6	± 0.00075	1/32 - 1/2
7-051-368	6	± 0.00075	1/8 - 5/8
7-051-369	3	± 0.00075	1/8 - 5/8

7607 AD • ER COLLET CHUCKS



- CAT 40 flange ER collet chucks

Code No.	Collet Size	Gage Length [in]	RPM	Clamping Range [in]
7-188-415	ER16	2.5	7,000	1/8-7/16
7-188-417	ER16	3	7,000	1/8-7/16
7-188-418	ER16	4	7,000	1/8-7/16
7-188-420	ER20	2.5	7,000	1/8-1/2
7-188-422	ER20	4	7,000	1/8-1/2
7-188-424	ER25	2.5	7,000	1/8-5/8
7-188-426	ER25	4	7,000	1/8-5/8
7-188-430	ER32	2.5	7,000	1/8-3/4
7-188-431	ER32	3	7,000	1/8-3/4
7-188-432	ER32	4	7,000	1/8-5/8
7-188-009	ER16	2.5	15,000 (G6.3)	1/8-7/16
7-188-012	ER16	3	15,000 (G6.3)	1/8-7/16
7-188-015	ER16	4	15,000 (G6.3)	1/8-7/16
7-188-018	ER20	2.5	15,000 (G6.3)	1/8-1/2
7-188-021	ER20	4	15,000 (G6.3)	1/8-1/2
7-188-024	ER25	2.5	15,000 (G6.3)	1/8-5/8
7-188-027	ER25	4	15,000 (G6.3)	1/8-5/8
7-188-030	ER32	2.5	15,000 (G6.3)	1/8-3/4
7-188-033	ER32	3	15,000 (G6.3)	1/8-3/4
7-188-036	ER32	4	15,000 (G6.3)	1/8-3/4
7-188-039	ER32	5	15,000 (G6.3)	1/8-3/4
7-188-109	ER16	2.5	20,000 (G2.5)	1/8-7/16
7-188-115	ER16	4	20,000 (G2.5)	1/8-7/16
7-188-133	ER32	3	20,000 (G2.5)	1/8-3/4

7170 A / B • LONG MILLING MACHINE ARBORS



- Equipped with assorted width of spacers, running bushings and threaded arbor nut

Code No.	Taper	Arbor Dia. [in]	Length [in]	Bushing Dia. [in]
7-010-005 (A)	NMTB 30	7/8	10	1 5/8
7-010-010 (A)	NMTB 30	1	10	1 5/8
7-010-015 (A)	NMTB 30	1 1/4	10	1 5/8
7-010-017 (A)	NMTB 30	1 1/4	10	1 7/8
7-015-008 (B)	NMTB 40	1	3	–
7-015-017 (B)	NMTB 40	1 1/4	3	–
7-015-020 (B)	NMTB 40	4	14	1 7/8
7-015-033 (B)	NMTB 50	1	3.5	–
7-015-035 (B)	NMTB 50	1	15	2 1/8
7-015-040 (B)	NMTB 50	1	18	2 1/8
7-015-047 (B)	NMTB 50	1 1/4	3 1/2	–
7-015-055 (B)	NMTB 50	1 1/4	18	2 1/8
7-015-070 (B)	NMTB 50	1 1/2	18	2 1/8
7-015-075 (B)	NMTB 50	1 1/2	24	2 3/4
7-015-090 (B)	NMTB 50	2	24	2 3/4
7-015-105 (B)	NMTB 50	2 1/2	36	3 3/8

For a complete list of available models, variations and size ranges please visit www.BISON-AMERICA.com

7636 AD • CAT 40 END MILL HOLDERS



- CAT 40 Weldon type end mill holders
- Through the spindle coolant capability

Code No.		CAT 40	
7,000 RPM	15,000 RPM G6.3	Capacity [in]	Gage Length [in]
7-185-405	7-185-004	1/8	2.5
7-185-407	7-185-008	3/16	2.5
7-185-409	7-185-014	1/4	2.5
7-185-4094	—	1/4	4
—	7-185-012	1/4	1 3/8
—	7-185-034	1/2	1 3/4
—	7-185-024	3/8	1 3/8
7-185-412	7-185-026	3/8	2.5
7-185-4122	—	3/8	5
7-185-4123	7-185-030	7/16	2.5
7-185-4127	—	7/16	4
7-185-413	7-185-036	1/2	2 5/8
7-185-417	—	1/2	5
7-185-431	7-185-042	5/8	3 3/4
—	7-185-040	5/8	1 3/4
7-185-437	—	5/8	5 1/2
—	7-185-048	3/4	1 3/4
7-185-441	7-185-050	3/4	3 3/4
7-185-447	—	3/4	5 1/2
—	7-185-060	1	2
7-185-461	7-185-062	1	4
7-185-465	—	1	6
7-185-471	7-185-068	1 1/4	4 1/4

7885 • HSK-63-A END MILL HOLDER



- HSK 63A end mill holders
- Weldon type end mill holders

Code No.	Capacity [in]	Width [in]	Length [in]
7-306-6030	1/2	1 1/4	4
7-306-6035	5/8	1 1/5	4
7-306-6040	3/4	1 3/4	4 1/2
7-306-6050	1	2 1/4	4 1/2

7385 • SHELL MILL HOLDERS



- Made of alloy forged steel, hardened and ground to RC 52-56
- Shell mill pilot T.I.R. < 0.0002"

Code No.	Taper	Gage Length [in]	Capacity [in]
7-186-517	CAT 50	4	1
7-186-529	CAT 50	4	1 1/2
7-186-531	CAT 50	6	1 1/2

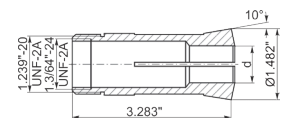
7636 AD • CAT 50 END MILL HOLDERS



- CAT 50 Weldon type end mill holders
- Through the spindle coolant capability

Code No.		CAT 50	
7,000 RPM	15,000 RPM G6.3	Capacity [in]	Gage Length [in]
—	7-185-110	3/8	1 3/8
7-185-511	—	3/8	2 1/2
7-185-512	—	3/8	4 1/2
7-185-513	—	3/8	6 1/2
7-185-514	—	3/8	8
—	7-185-124	1/2	1 3/4
7-185-521	—	1/2	2 5/8
7-185-522	—	1/2	4 5/8
7-185-523	—	1/2	6 5/8
7-185-526	—	1/2	8
—	7-185-134	5/8	1 3/4
7-185-531	—	5/8	3 3/4
7-185-532	—	5/8	5 3/4
7-185-533	—	5/8	7 3/4
—	7-185-142	3/4	1 3/4
7-185-542	—	3/4	5 3/8
7-185-543	—	3/4	7 3/4
7-185-547	—	3/4	12
—	7-185-160	1	2
7-185-561	—	1	4
7-185-562	—	1	6
7-185-563	—	1	8
7-185-567	—	1	12
—	7-185-170	1 1/4	2
7-185-571	—	1 1/4	4
7-185-572	—	1 1/4	6
7-185-573	—	1 1/4	8
7-185-577	—	1 1/4	12
7-185-591	—	2	5 5/8

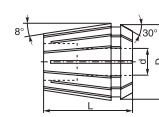
3000-5C • 5C (385E) COLLETS



- Single size collets available

Collet Set No.	Sizes Avail.	Size Range [d]
7-168-168 [Inch]	15 Inch Sizes in set	3/64" - 1-1/8"
7-168-674 [Metric]	24 Metric Sizes in set	3-26 mm

7618 • ER COLLETS



Collet Type	Sizes Avail. Each 1/32"	Size Range d [in]	D [mm / in]	L [mm / in]
ER16	12	1/32 - 3/8	17 / 0.67	27.5 / 1.08
ER20	15	1/16 - 1/2	21 / 0.83	31.5 / 1.24
ER25	19	1/16 - 5/8	26 / 1.02	34 / 1.34
ER32	22	3/32 - 3/4	33 / 1.3	40 / 1.57
ER40	29	1/8 - 1	41 / 1.61	46 / 1.81

BISON has opened a new sales and distribution facility in the United States. The office was established to better understand and meet the requirements of U.S. endusers, as well as closely support key distribution and OEM partners. The new facility is centrally located in the Cincinnati, Ohio area. The staff at BISON USA welcome the opportunity to help you with your machine tool accessory needs.

BISON USA Corp. is also a member of AMT (The Association for Manufacturing Technology). AMT represents and promotes manufacturing technology and its members who design, build, sell and service the continuously evolving technology that lies at the heart of manufacturing. Membership into AMT provides BISON with further insight into new technologies, additional in-depth understanding of manufacturer's requirements, and a greater knowledge of market trends.



BISON USA Corp.

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