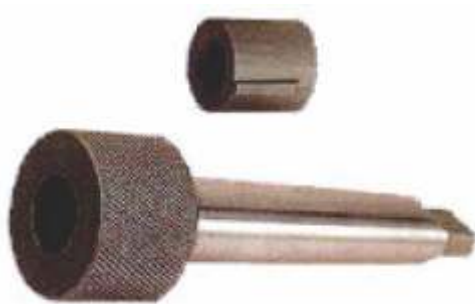


**Mandrel Drives**

We are offering **Mandrel Drives**  
**Taper Shank - Interchangeable Female Square**



**Use :**  
 Mandrel drives serve the purpose of adapting tube expander mandrels to existing air or electric drills. Loosening the knurled nut, releases the square insert type of socket for the introduction of another size of mandrel square.

Morse Taper No.	Square Size	Model No.	Insert Square Size	Insert Model No.
2	3/8"	MM/2/95	3/8"	MDT/95
	1/2"	MM/2/127	1/2"	MDT/127
3	3/8"	MM/3/95	3/8"	MDT/95
	1/2"	MM/3/127	1/2"	MDT/127
	3/4"	MM/3/190	3/4"	MDT/190
3	1"	MM/3/254	1"	MDT/254
	3/8"	MM/4/95	3/8"	MDT/95
	1/2"	MM/4/127	1/2"	MDT/127
	3/4"	MM/4/190	3/4"	MDT/190
3	1"	MM/4/254	1"	MDT/254
	3/8"	MM/5/95	3/8"	MDT/95
	1/2"	MM/5/127	1/2"	MDT/127
	3/4"	MM/5/190	3/4"	MDT/190
4	1"	MM/5/254	1"	MDT/240

**Taper Shank - Male Square**



Morse Taper No.	Square Size	Model No.
1	3/8"	MTM/1/95
	1/2"	MTM/1/127
2	3/8"	MTM/2/95
	1/2"	MTM/2/127
3	3/4"	MTM/3/190
	1"	MTM/3/254
4	3/4"	MTM/4/190
	1"	MTM/4/254

**Taper Shank - Female Square**



Morse Taper No.	Square Size	Model No.
1	3/8"	MTF/1/95
	1/2"	MTF/1/127
2	3/8"	MTF/2/95
	1/2"	MTF/2/127
3	3/4"	MTF/3/190
	1"	MTF/3/254
4	3/4"	MTF/4/190
	1"	MTF/4/254

**Tringle Shank - Female Square**



Square Size	Chuck Size	Model No.
3/8"	1/4"	MTC/95/63
3/8"	3/8"	MTC/95/95
3/8"	1/2"	MTC/95/127
1/2"	1/2"	MTC/127/127

**Reversible Ratchet Wrench**



Square Size	Length	Model No.
3/8"	8"	HR/95
1/2"	10"	HR/127
3/4"	20"	HR/195
1"	24"	HR/254

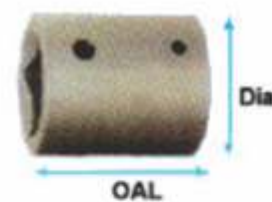
**Note :** Ratchets are also available with hexagonal female openings for driving one revolution tube cutters and other items.

We are offering **Mandrel Drives**

**Male x Male Drive Extensions**



**Female x Female Extensions Couplings**

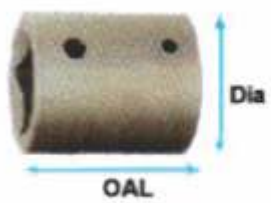


Square size	Model No.	OAL	Dia.
3/8"	EB/95/6	6"	1/2"
	EB/95/9	9"	
	EB/95/12	12"	
	EB/95/18	18"	
1/2"	EB/127/6	6"	5/8"
	EB/127/9	9"	
	EB/127/12	12"	
	EB/127/18	18"	
	EB/127/24	24"	
3/4"	EB/195/6	6"	1"
	EB/195/9	9"	
	EB/195/12	12"	
	EB/195/18	18"	
	EB/195/24	24"	
1"	EB/254/6	6"	1.1/4"
	EB/254/12	12"	
	EB/254/14	14"	
	EB/254/18	18"	
	EB/254/24	24"	

Square size	Model No.	OAL	Dia.
3/8" x 3/8"	EC/95/95	1.7/16"	13/16"
3/8" x 1/2"	EC/95/127	1.9/16"	1.1/16"
3/8" x 5/8"	EC/95/158	1.1/2"	1.1/4"
1/2" x 1/2"	EC/127/127	1.11/16"	1.1/16"
1/2" x 5/8"	EC/127/158	1.5/8"	1.1/4"
1/2" x 3/4"	EC/127/195	1.5/8"	1.3/8"
1/2" x 7/8"	EC/127/222	1.5/8"	1.5/8"
1/2" x 1"	EC/127/254	1.5/8"	1.7/8"
5/8" x 3/4"	EC/158/195	1.9/16"	1.3/8"
5/8" x 7/8"	EC/158/222	2"	1.5/8"
5/8" x 1"	EC/158/254	1.13/16"	1.7/8"
3/4" x 3/4"	EC/195/195	1.5/8"	1.7/16"
3/4" x 7/8"	EC/195/222	1.5/8"	1.3/4"
3/4" x 1"	EC/195/254	1.13/16"	1.7/8"
7/8" x 7/8"	EC/222/222	1.11/16"	1.3/4"
7/8" x 1"	EC/222/254	2.1/8"	2.1/8"
1" x 1"	EC/254/254	2.1/16"	1.7/8"

**Universal Joints**

**Universal Joint Female-Female**



**Universal Joint Male-Female**



**Double Universal Joint Female-Female**



Square Size	Model No.	OAL	Major Dia.
3/8"	UJ/95	2.1/4"	7/8"
1/2"	UJ/127	2.5/8"	1"
3/4"	UJ/195	3"	1.1/2"
1"	UJ/254	3.3/4"	1.3/4"

Square Size	Model No.	OAL	Major Dia.
3/8"	UC/95	2.1/4"	7/8"
1/2"	UC/127	2.19/32"	1"
3/4"	UC/195	3.9/32"	1.1/2"
1"	UC/254	4"	1.3/4"

Square Size	Model No.	OAL	Major Dia.
3/8"	DUJ/95	3.15/16"	1.1/8"
1/2"	DUJ/127	4"	1.5/16"
3/4"	DUJ/195	4.11/16"	1.5/8"
1"	DUJ/254	6.1/32"	2.1/4"

**Extensions Universal Joint Female-Female**



Square Size Female	Square Size Male	Model No.	OAL	Major Dia.
3/8"	3/8"	UE/95/6	6"	1.1/8"
		UE/95/9	9"	
		UE/95/12	12"	
3/8"	1/2"	UE/955/9	9"	1.1/8"
		UE/955/12	12"	
		UE/955/16	16"	
1/2"	1/2"	UE/127/6	6"	1.5/16"
		UE/127/9	9"	
		UE/127/12	12"	
		UE/127/20	20"	
3/4"	3/4"	UE/195/9	9"	1.3/4"
		UE/195/12	12"	
		UE/195/20	20"	
1"	1"	UE/254/9	9"	2.1/4"
		UE/254/12	12"	
		UE/254/16	16"	