

## BALL JOINT

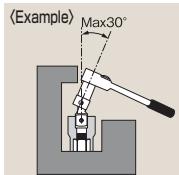
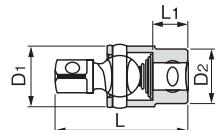
Ball joint is used on complicated place.  
Rotates very smoothly as the ball-shaped joint refracts only one time.

Models	Square Drive (mm)	Dimensions (mm)				Qty./Carton (Generally)	Weight (g)
		D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L		
BJ40	12.7	25	23.5	16	60	10	115

- Swing angle : About 30 degree

**CAUTION**

- Joints consist of a convex drive and a concave drive and parts between them, and the torque. Do not handle the tool roughly as it might weaken torque transmission efficiency and impact torque. Both JIS and ISO standards are about half the strength of the ratchet handle.



## UNIVERSAL JOINT

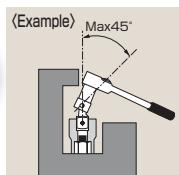
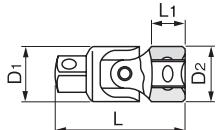
Universal joint, which is most suitable for working on limited space.  
Connecting it between a handle and socket for angled work.  
With compact design.

Models	Square Drive (mm)	Dimensions (mm)				Qty./Carton (Generally)	Weight (g)
		D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L		
UJ40	12.7	25	25	15.5	60	10	126

- Swing angle : In left and right, 45 degree

**CAUTION**

- Joints consist of a convex drive and a concave drive and parts between them, and the torque. Do not handle the tool roughly as it might weaken torque transmission efficiency and impact torque. Both JIS and ISO standards are about half the strength of the ratchet handle.



## UNIVERSAL JOINT

Universal joint, which is most suitable for working on limited space.  
Connecting it between a handle and socket for angled work.

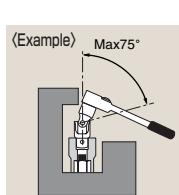
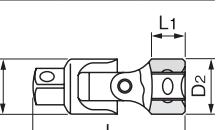
Models	Square Drive (mm)	Dimensions (mm)				Qty./Carton (Generally)	Weight (g)
		D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L		
★ 308	12.7	25	25	15.5	70.5	10	145

★ Require stock availability.

- Swing angle : In left and right, 75 degree

**CAUTION**

- Joints consist of a convex drive and a concave drive and parts between them, and the torque. Do not handle the tool roughly as it might weaken torque transmission efficiency and impact torque. Both JIS and ISO standards are about half the strength of the ratchet handle.



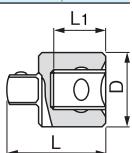
## SOCKET ADAPTOR

Used to change drive size.

Models	Square Drive (mm)	Dimensions (mm)			Qty./Carton (Generally)	Weight (g)
		D	L <sub>1</sub>	L		
※1 68	12.7 Concave x 9.5 Convex	22	17	31.6	10	6
128	12.7 Concave x 19.0 Convex	25	17	42.0	10	6

**CAUTION**

- Do not apply excessive force in case of adaptor (※1) having large concave sq. drive, as convex sq. drive might be broken.
- Limit-torque of adaptor is based in smaller sq. drive.



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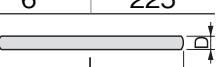
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## CROSS BAR

Use spinner handle as a T-type handle with crossbar.

Models	Dimensions (mm)			Qty./Carton (Generally)	Weight (g)
	D	L	(Store Center)		
★ 110	12	250		10	6

★ Require stock availability.

**CAUTION**

- Do not use with power tools.
- Do not assemble multiple attachments. (Extension bar, Universal joint, Socket adaptor, Quick adaptor)