
















Understanding Joint Types

Compare Tool Types on Hard to Medium or Softer Joints

APPLICATIONS					
					
	AUTO SHUT-OFF CLUTCH	PULSE TOOL	CUSHION CLUTCH	IMPACT DRIVER	STALL DRIVER
CLASS	Continuous	Discontinuous	Continuous	Discontinuous	Continuous
TOOL LINE	US-LT	OMEGA / UX	US-	UW-	US-LD
METAL TO METAL	Good	Best	Average	Good	Poor
SHEET METAL SCREWS	Good	Good	Average	Poor	Good
WOOD SCREWS	Average	Poor	Average	Average	Best
GENERAL ASSEMBLY	Best	Best	Average	Average	Poor
MAINTENANCE/ OPERATIONS	Average	Average	Good	Good	Average

HARD TO MEDIUM HARD JOINTS - NO PREVAILING TORQUE					
					
	AUTO SHUT-OFF CLUTCH	PULSE TOOL	CUSHION CLUTCH	IMPACT DRIVER	STALL DRIVER
CLASS	Continuous	Discontinuous	Continuous	Discontinuous	Continuous
TOOL LINE	US-LT	OMEGA / UX	US-	UW-	US-LD
PERQ	Maintains speed, little torque reaction	Extreme speed, no torque reaction	Poor man's torque control, loud under load, low tech	Brute force and power, extreme speed, no torque control	Worst torque reaction, loud, little torque control
SPEED	Constant ~1,000 rpm	Constant ~6,000 rpm	Constant ~1,500 rpm	Constant ~8,000 rpm	Constant ~1,000
TORQUE REACTION	Minimal at low torque	None	Minimal	None	Excessive
NOISE/ VIBRATION	Good	Very little	Very loud during ratcheting	Very loud	Loud
ACCURACY	Excellent 10 - 15%	Excellent 10 - 15%	Reasonable 20 - 25%	Poor	Reasonable with regulator
MAINTENANCE	Little	Little	Hard part replacements	Hard parts replacements	Very little
TORQUE RANGE	Catalog or slightly higher	Catalog or slightly higher	Catalog or slightly higher	Catalog or slightly higher	Catalog or slightly higher

SOFTER JOINTS - PREVAILING TORQUE

					
	AUTO SHUT-OFF CLUTCH	PULSE TOOL	CUSHION CLUTCH	IMPACT DRIVER	STALL DRIVER
CLASS	Continuous	Discontinuous	Continuous	Discontinuous	Continuous
TOOL LINE	US-LT	OMEGA / UX	US-	UW-	US-LD
PERQ	Slows down only slightly, little torque reaction drives through	Slows down dramatically, drips tool range, increases maintenance	Drives through unless close to target torque, high maintenance	Brute force and speed drives through, but loud with no control	Smallest tool, drives through and torque reaction pulls, not snap
SPEED	Constant ~1,000 rpm	Slows down under load	Constant ~1,500 rpm	Slows down under load	Constant ~1,000 rpm
TORQUE REACTION	Moderate at low torque	None	Minimal	None	Moderate but not sudden
NOISE/ VIBRATION	Good	Very little	Very loud during ratcheting	Very loud	Loud
ACCURACY	Excellent 10 - 15%	Excellent 10 - 15%	Reasonable 20 - 25%	Poor	Reasonable with regulator
MAINTENANCE	Little	Little	Hard part replacements	Hard part replacements	Very little
TORQUE RANGE	Slightly lower than catalog	Somewhat lower than catalog	Catalog	Catalog	Catalog