

▼ Shown from left to right: E291, E393, E494



- High-efficiency planetary gear sets achieve high output torque from low input torque
- Operator protected by anti-backlash device
- Reversible, tighten or loosen bolts
- Reaction bar or reaction plate style
- Angle-of-turn protractor standard on E300-Series models
- Reaction plate models offer increased versatility with reaction point locations
- E300 and E400-Series have replaceable shear drives, providing overload protection of internal power train
- One replacement shear drive is included with each E300 and E400-Series models.

Accurate, Efficient Torque Multiplication

When accurate make-up or break-out of stubborn fasteners requires high torque



Typical Torque Multiplier Applications

- Locomotives
- Power plants
- Pulp and paper mills
- Refineries
- Chemical plants
- Mining and construction
- Off-road equipment
- Shipyards
- Cranes.



BUS-Series, Back-Up Spanners

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

Page: 217



◀ Enerpac Reaction Bar Torque Multiplier E393 used to manually torque bolts up to 4300 Nm.

▼ SELECTION CHART

Torque Multiplier Type	Nominal Torque Output		Model Number	
	(Nm)	(Ft.lbs)		
Reaction Bar Multiplier	1020	750	E290PLUS	
	1358	1000	E291	
	1627	1200	E391	
	2983	2200	E392	
	4340	3200	E393	
Reaction Plate Multiplier	2983	2200	E492	
	4339	3200	E493	
	6779	5000	E494	
	10.846	8000	E495	

Manual Torque Multipliers



Manual Torque Multipliers

Energac manual torque multipliers provide efficient torque multiplication in wide clearance applications and when external power sources are not available.

Manual torque multipliers are used in most industrial, construction, and equipment maintenance applications. Hydraulic torque wrenches are better suited for tight tolerance, flange and repetitive bolting applications.

Use Reaction Bar Models:

- Where space is limited,
- Where multiple reaction points are available,
- when portability is desirable.

Use Reaction Plate Models:

- Above 4300 Nm output torque,
- On flanges and applications where neighbouring bolt or nut is available to react against
- When extreme reaction forces are generated.

E Series

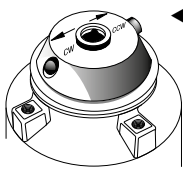


Nominal Torque Output:

1020 - 10.846 Nm

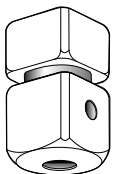
Torque Ratio:

3:1 - 52:1



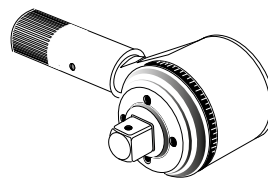
Selector Pawl

Models with anti-backlash protection have directional selector pawls. Set the pawl for clockwise or counter-clockwise rotation.



Shearable Square Drive

Provides overload protection on E300- and E400-series multiplier's power train by shearing when the rated capacity of the tool is exceeded. Internal shear pin prevents tool from falling off bolt.



Angle-of-Turn Protractor

E391, E392 and E393 models include an angle-of-turn protractor (scale) to tighten fasteners using a "torque turn" method. Allows accurate measuring a specific number of degrees of rotation.



CAUTION!

Never use impact air tools for power driving torque multipliers. Torque multiplier drive train damage will occur.



Hydraulic Torque Wrenches

Energac offers a complete range of square drive and hexagon cassette torque wrenches.

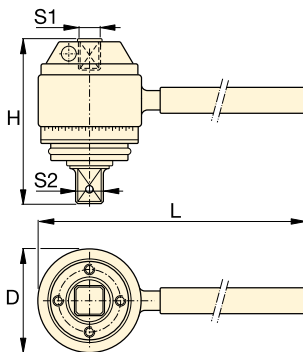
Page: 211



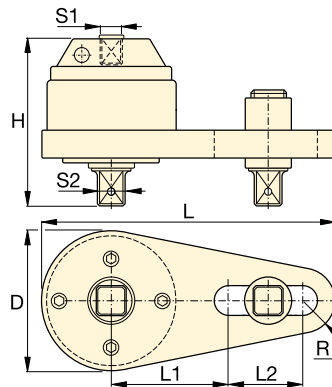
BSH-Series Sockets

Heavy-Duty Impact Sockets for power driven torquing equipment.

Page: 216



Reaction Bar Type ¹⁾



Reaction Plate Type ¹⁾

Input Torque ²⁾	Torque Ratio (estimate)	Input Female Square Drive S1 (inch)	Output Male Square Drive S2 (inch)	Replaceable Shear Drive Model Nr.	Over-load protection	Anti-Backlash	Dimensions (mm)						(kg)	Model Number
							D	H	L	L1	L2	R		
339	250	3 : 1	1/2	3/4	—	No	71	83	217	—	—	—	1,8	E290PLUS
452	333	3 : 1	1/2	3/4	—	No	71	83	443	—	—	—	2,5	E291
271	200	6 : 1	1/2	3/4	E391SDK	Yes	100	102	497	—	—	—	4,1	E391
220	162	13,6 : 1	1/2	1	E392SDK	Yes	103	146	497	—	—	—	6,9	E392
235	173	18,5 : 1	1/2	1	E393SDK	Yes	103	165	497	—	—	—	8,3	E393
219	162	13,6 : 1	1/2	1	E392SDK	Yes	124	140	356	140	124	32	7,8	E492
234	173	18,5 : 1	1/2	1	E393SDK	Yes	124	163	356	140	124	32	8,9	E493
256	189	26,5 : 1	1/2	1 1/2	E494SDK	Yes	143	222	378	178	89	42	15,4	E494
209	154	52 : 1	1/2	1 1/2	E495SDK	Yes	148	273	387	178	89	48	22,8	E495

¹⁾ E200 and E400-series do not have an Angle-of-Turn Protractor (scale).

²⁾ User must verify manual torque wrench accuracy prior to use to ensure accurate final output torque.