



Torchbrain® Cordless Portable Valve Actuator System

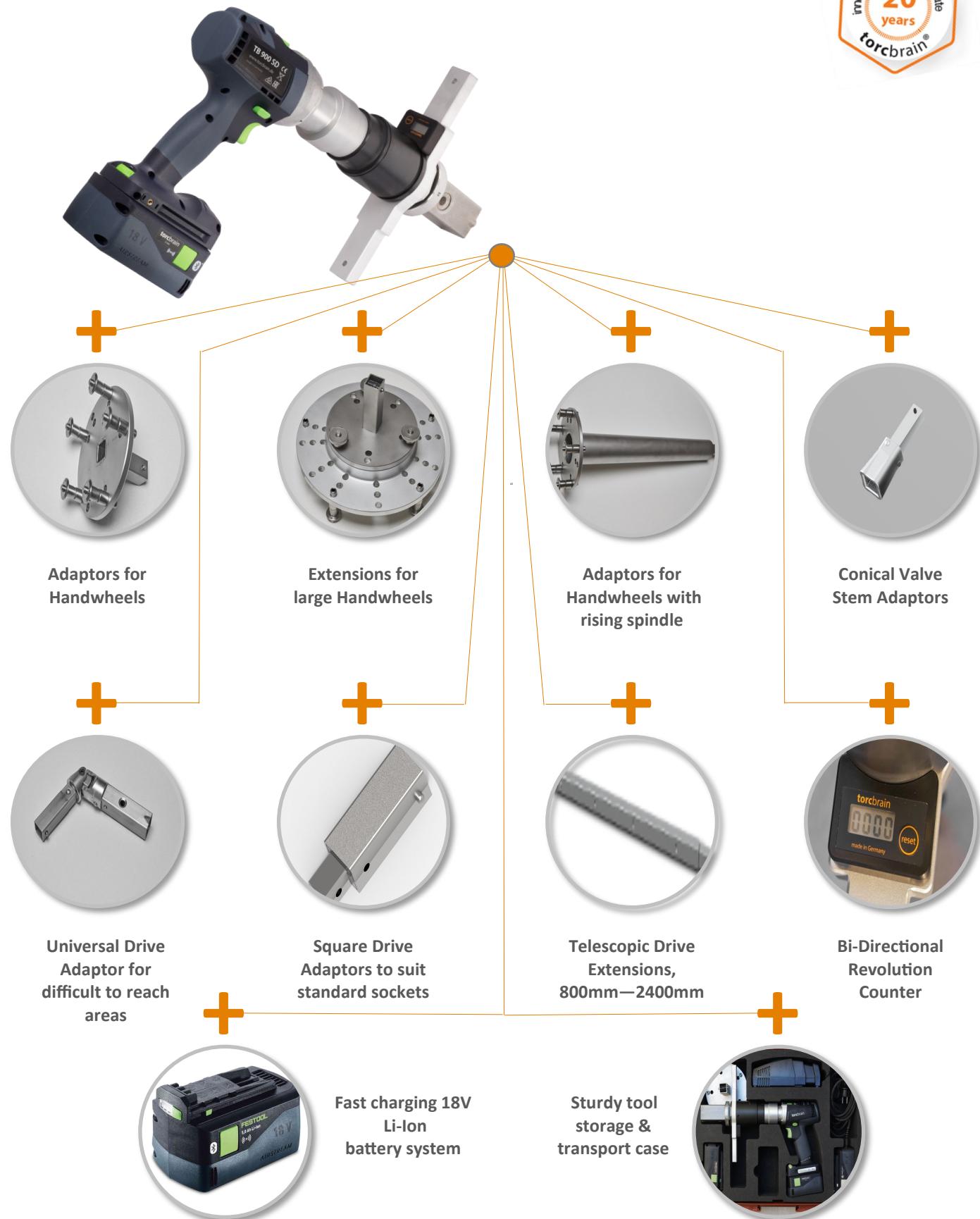
Torcbrain® - The smart choice

Torcbrain® Portable battery Valve Actuator Tools can be utilised in situations where Valve size, pressure rating, or environmental conditions typically necessitate a permanent, dedicated actuator or work crew



www.specialtools.com.au
info@specialtools.com.au

Emazing International Pty Ltd
460 Oak Forest Road
Kuranda QLD 4881—Australia
Ph +61 7 4007 6328
ABN 14 405 223 923

Torcbrain® - The complete, versatile system solution




Safe - Time

- ⇒ Quick tool system set-up
- ⇒ Fast tool speed, fast operation
- ⇒ Does not rely on permanent power supply
- ⇒ Fingertip control for on/off, forward and reverse function
- ⇒ Quick change of system accessories using one hand only



Safe - Money

- ⇒ More cost-effective than dedicated actuators
- ⇒ Transforms tasks typically needing a work crew into a one-person operation
- ⇒ Compatible with most valve sizes and types using a variety of quick-change system accessories



Increase - Efficiencies

- ⇒ Easy one-person set-up and operation
- ⇒ Flexible and mobile due to the cordless battery drive system
- ⇒ Lightweight, fast, accurate
- ⇒ Excellent for moving tight or partially seized valves



Reduce - Injuries

- ⇒ Prevents operator fatigue and significantly lowers the risk of workplace injuries
- ⇒ Built-in electronic torque-overload protection and automatic shut-off system, once the chosen torque is achieved, the tool shuts off automatically
- ⇒ No clutch, no ratcheting, no vibrations
- ⇒ Comfortable operation with excellent ergonomics



Improve - Maintenance

- ⇒ Providing good feedback to the operator on the valve
- ⇒ Revolution counter allows for accurate exercising of valves
- ⇒ Maximum valve protection due to adjustable torque control (44 torque settings)



Reliable - Quality

- ⇒ Made in Germany, built to last
- ⇒ High quality, maintenance free 4 speed mechanical gearbox
- ⇒ Maintenance free, efficient brushless EC Motor
- ⇒ Proven technology
- ⇒ Global & Local Support

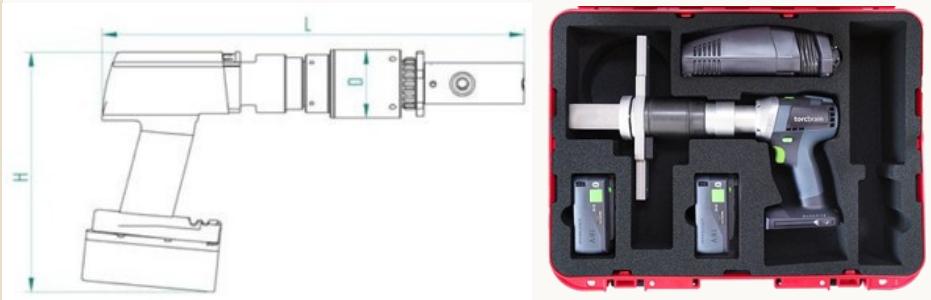


Portable Valve Actuator Tools



Model	Torque Range	No. of Torque settings	Max. speed rpm	Length	Dia.	Height	Weight incl battery
EIT-TB300 SDT	10-400 Nm 7- 295 ft-lb	44	120 rpm	365mm 14-3/8"	58 mm 2-9/32"	250 mm 9-27/32"	4.0 kg 8 lb 13 oz
EIT-TB300 SDT RC	10-400 Nm 7- 295 ft-lb	44	120 rpm	365mm 14-3/8"	58 mm 2-9/32"	250 mm 9-27/32"	4.0 kg 8 lb 13 oz
EIT-TB900 SDT	10—950 Nm 7—700 ft-lb	44	43 rpm	401 mm 14-3/8"	68 mm 2-9 11/16"	250 mm 9-27/32"	5.7 kg 12 lb 9 oz
EIT-TB900 SDT RC	10—950 Nm 7—700 ft-lb	44	43 rpm	401 mm 14-3/8"	68 mm 2-9 11/16"	250 mm 9-27/32"	5.7 kg 12 lb 9 oz

Models with code RC include a factory fitted revolution counter as pictured on the left. All tools are supplied with 1 x charger, 2 x 5.0Ah Batteries, and complete with a sturdy transport- & storage box.



Speed and Torque Settings

The charts below show the no load speed as well as the max. torque of the tools in each gear:

Model TB300SDT

Gear	Speed / Rpm
1st	0 - 17
2nd	0 - 25
3rd	0 - 80
4th	0 - 120

Model TB900SDT

Gear	Speed Rpm
1st	0 - 6
2nd	0 - 9
3rd	0 - 29
4th	0 - 43

Gear	Max. Torque	
	Nm	ft-lb
1st	400	295
2nd	400	295
3rd	140	103
4th	90	66

Gear	Max. Torque	
	Nm	ft-lb
1st	950	700
2nd	950	700
3rd	350	258
4th	240	177

System Accessories / Side Handles & Revolution Counters

Side Handle - Torque Reaction Arm

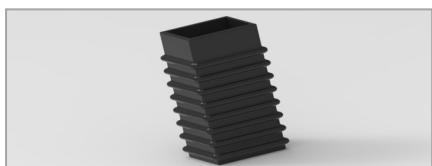
Torcbrain® torque reaction arms need to be attached to the tool to absorb the torque transferred from the tool to the valve. The side handles can be easily and quickly fitted to the tool when required and removed for tool storage.

For the Tool type EIT-TB300 SDT, the torque reaction arm is constructed from lightweight Aluminium. One side handle is sufficient for torques up to 200 Nm, for higher torques up to 400Nm we recommend using two handles fitted to the tool.

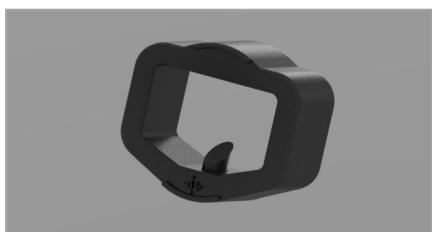
For the model EIT-TB900 SDT, the torque reaction arms are made from stainless steel. Two arms are required to manage the significantly higher torque of this model.



Model	Description	Length mm	Material	Weight ea. kg
Handle 300	Torque Reaction arm - 1 pce	800	Aluminium	0.3
Handle 300-2	Torque Reaction arm Telescopic, can be placed inside the tool storage box	800	Aluminium	0.3
Handle 900	Torque Reaction arms - Set of 2	800	Stainless Steel	1.4



Model	Description	To suit handle	Material
Griff300AI	Replacement rubber grip	Handle300	Rubber



Model	Description	To suit handle	Material
Spann300	Replacement locking ring with pin to	Handle300	Rubber
Spann900	secure the side handle to the tool	Handle900	Rubber

Revolution Counter

The optional revolution counter can easily be fitted to the standard Torcbrain Cordless Valve Actuators. They enable the monitoring and recording of clockwise and anti-clockwise revolutions of the handwheel or valve stems using a contactless module and easy to read digital display. The ideal solution for valves requiring a high number of revolutions or for precise valve exercising.



Model	Description	To suit Tool	Operation	Material
Z300up	Revolution Counter	TB300	Bi-Directional	Cast housing,
Z900up	module	TB900	Touch Buttons	Sealed Electronic
Model	Description	To suit Counter	Scope of supply	
Z300rep		Z300up	Counter including battery and pcb holder, without housing	
Z900up	Repair Kit	Z900up		

System Accessories / Drive Extensions / Foot - or Tow Bar Support Systems

Telescopic Drive Extensions

The Vario-Tele, made entirely of stainless steel, enables ergonomic height adjustment of the drive to match the operators position, making it ideal for operating valves in pits, overhead, or a distance away from the operator.

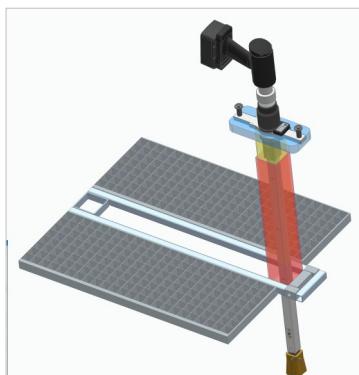
The integrated quick-change system allows for height adjustment and swapping of handwheel- or conical drive adaptors with one hand, without needing any tools. Three different lengths of extensions are available. The length adjustments can be made in increments of 200mm.



Model	Description	To suit Tool	Adjustable length mm	Material
Vario300Tele	Telescopic Drive Extensions	TB300	800 - 1400	Stainless Steel
Vario300Tele120			1200 - 1900	
Vario300Tele140			1400 - 2600	
Vario900Tele		TB900	850 - 1430	
Vario900Tele120			1200 - 2200	
Vario900Tele160			1430 - 2600	
Vario900Tele200			1630 - 3000	

Foot Support System

In applications where a side handle used as torque reaction arm is not practical or possible, the Foot Support System has been designed to be placed on the ground, allowing an ideal transfer of the torque to the ground without the need for a side handle to be held by the operator. Optional and removable spike inserts can provide further support when using the system on soft ground or on walkway grates. The tool is adjustable in the height using a telescopic pipe (shown in yellow and red). The rectangular base frame (light blue) can be swiveled to adjust the position to uneven surfaces and can be used on its own, or in conjunction with the floor grates for additional support.



Model	Description	To suit Tool	Max. Torque Nm	Material
FSS-TB300	Foot Support System			Stainless Steel
FSS-TB300SI	Spike inserts	TB300	350	
FSS-FG300	Floor Grates (2)			Galvanised steel

Bi-Pod Support System

The Bi-Pod Support system can be fitted directly to the torque arm support fitting on the tool using a quick change locking system. The arm can be rotated in several positions to the required angle. The height can be adjusted using the telescopic arm in several positions to suit the required height.



Model	Description	To suit Tool	Max. Torque Nm	Material
FSS-TBPPSys300	Bi-Pod Torque Support	TB300	400	Stainless Steel

System Accessories / Operation of Handwheels

Handwheel Adaptor for Non-Rising Spindles

Facilitates the operation of non-rising handwheels. The quick-change driving pins Dia 10mm can be adjusted with one hand, without requiring any tools, to accommodate 3 and 5 spoked handwheels.



Model	Description	To suit Tool	Dia mm	Material	Weight ea. kg
Hara300sys	Handwheel Adaptor	TB300	150	Stainless Steel	1.5
Hara900sys	Handwheel Adaptor	TB900	150	Stainless Steel	1.6
Hara900sysSP	Handwheel Adaptor with 52mm long bolts	TB900	150	Stainless Steel	1.8

Handwheel Adaptor for Rising spindles

Enables the operation of handwheels with rising spindles, with a standard length of 650mm. Custom lengths are also offered. The quick-change driving pins Dia 10mm can be adjusted single-handedly and without tools, to accommodate 3 or 5 spoked handwheels. Inner diameter of the tube extension is 56mm.



Model	Description	To suit Tool	Dia mm	Length mm	Material
Hara300sysL650	Handwheel Adaptor	TB300	150	650	
Hara300sysL xxx	Handwheel Adaptor	TB300	150	50 - 1000	
Hara900sysL650	Handwheel Adaptor	TB900	150	650	
Hara900sysL xxx	Handwheel Adaptor	TB900	150	50 - 1000	

Extensions plate Adaptor for Large Handwheels

The extension plate increases the diameter of the standard handwheel from 150 to 250mm. It is secured using three knurled screws onto the standard handwheel adaptors type Hara. The quick-change pins can be adjusted to accommodate 3/4/5 and 7 spoked handwheels without requiring any tools

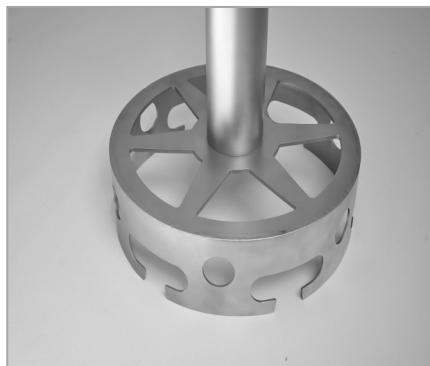


Model	Description	To suit adaptor	Dia mm	Material	Weight ea. kg
Hara250	Extension plate	Hara300sys Hara900sys Hara300sysL Hara900sysL	250	Stainless Steel	1.8

System Accessories / Operation of Handwheels

Handwheel Adaptor for 6-spoke handwheels with Rising spindles

This adaptor can be used on handwheels with 6 spokes and rising spindles, specifically for handwheels with spokes around 30mm in diameter. The adapter's recess measures 350mm in diameter and 40mm in depth.



Model	Description	To suit Tool	Dia mm	Length mm	Material
Hara350syss	Handwheel Adaptor	TB300	350	425	Stainless Steel

Replacement Pins for Handwheel adaptors

Quick-change spring loaded driving pins. Can be adjusted with one hand, without requiring any tools.



Model	Description	To suit Tool
KSB1015	Quick Change spring loaded bolts Connector Pin Dia 10mm, 33mm long	Hara300Sys, Hara300SysL Hara900Sys, Hara900SysL Hara250
KSB1025	Quick Change spring loaded bolts Connector Pin Dia. 12mm, 52mm long	Hara900sysSP

Universal Joint Adaptors

Universal Joint Adaptors are designed to allow easier access to hard to reach valves and it onto all types of adaptors for valves with handwheels or with valve stems.



Model	Description	To suit Tool	Material
Kardan300		TB300	
Kardan900	Universal Joint Adaptor	TB900	Stainless Steel

System Accessories / Operation of Valves with Valve Stem or Valve Key

Conical Adaptors

Conical Adaptors are designed to operate the valve directly via the valve stem.



Model	Description	To suit Tool	To suit stem dia. mm	Material
KOS27/32-300	Conical Adaptor	TB300	27-32	Stainless Steel
KOS32/36-300			32-36	
KOS48/54-300			48-54	
KOS27/32-900		TB900	27-32	
KOS32/36-900			32-36	
KOS48/54-900			48-54	

Square Drive Adaptors

Square Drive Adaptors with a 3/4" male square drive, enabling the use of standard sockets or existing tooling.



Model	Description	To suit Tool	Material
Sys300-34M	Square Drive Adaptor 3/4" Male	TB300	Stainless Steel
Sys900-34M		TB900	

System Accessories / Versatile Tool size adaptors

Up- and Downsize Adaptors

Adaptors to allow users of both tool sizes, EIT-TB300 and EIT-TB900, to use all types and sizes of adaptors on either tool.



Model	Description	To suit Tool	To use Adaptors from Tool	Material
RZ300-900*	Adaptor	TB300	TB900	Stainless Steel
RZ900-300**		TB900	TB300	

*Please note that max. torque using the adaptor RZ900-300 is 400Nm, higher torque settings on the TB900 tool will damage the accessories of the smaller tools type TB300.

System Accessories / Batteries and Chargers

Li-Ion Battery Packs

The standard 18V, 5.0 Ah Torcbrain Battery packs, compatible across our entire range of tools and applications, are designed to meet the demands of professional uses. This robust power source, in conjunction with our high-efficiency EC-TEC brushless Tool motors, delivers exceptional performance, maximizing both power output and run time per charge.

Our AIRSTREAM technology further enhances efficiency by actively cooling the battery pack during the charging process, both before and during charging, ensuring minimal downtime and rapid return to service at peak power.

For applications requiring extended run times, optional 8.0 Ah battery packs are available, providing a 60% increase in operational time compared to the standard 5.0 Ah pack.



Model	Description	To suit Tool	Power	Battery type	Weight kg
BP1850Li	Battery Pack	TB300	18V 5.0Ah	Li-Ion	0.7
BP1880Li		TB900	18V 8.0Ah		1.0

Battery Chargers

The Torcbrain rapid charger can charge all battery packs from the 18V 5.0 Ah and 8.0Ah sizes. It demonstrates its full ability when used in conjunction with the 8.0 Ah Li High-Power battery pack after heavy-duty applications which heat up the battery pack considerably. With its active, intelligent air cooling before and during the charging procedure, the charger ensures that Airstream battery packs are ready for use again extremely quickly – for example, the 8.0 Ah Li-High Power battery pack is ready for use again in just 27 minutes. The LED display provides a complete overview, indicating the charging progress and remaining charge time at any time.



Model	Description	To suit Tool	Voltage	Charging Power	Weight kg
TBLG6-SCA16	Battery Pack Airstream	TB300 TB900	220V - 240V	16 A	1.1
TBLG6-SCA16US	Battery Pack Airstream	TB300 TB900	110V—120V	16 A	1.1

On its two spaces, the DUO rapid charger charges two battery packs at the same time. Particularly practical: You no longer need to look for another socket for a second charger – making work easy and saving time on construction sites, in workshops and in vehicles. Suitable for all 18V battery packs. The separate LED indicators for charging progress on the two charging spaces indicate the current charge status of each battery pack at any time.



Model	Description	To suit Tool	Voltage	Charging Power	Weight kg
TBLG6-Duo	Charger for 2 Batteries	TB300 TB900	220V - 240V	16 A	1.5



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Emazing International Pty Ltd
460 Oak Forest Road
Kuranda QLD 4881—Australia
Ph +61 7 4007 6328
ABN 14 405 223 923