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Introduction

The Jergens® Family of Businesses

Jergens MANUFACTURING EFFICIENCY

Premier manufacturer of Workholding Solutions, Lifting Solutions, and Specialty Fasteners. Providing Manufacturing Efficiency since 1942.

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Products and solutions for Assembly including torque control products, Industrial, and Precision Fastening equipment since 1976.

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About ASG

- **Electric Torque Control Drivers**
- **Error Proofing & Process Control Products**
- **Digital Torque Calibration Equipment**
- **Production Aides for Assembly Workstations**

ASG is a division of Jergens Inc., a 65 year-old leader in the manufacture of tooling components. Jergens originally introduced the torque-controlled driver to North America over 30 years ago. These drivers became the core product line for the ASG Division. While the drivers continue to be ASG's core offering, other complementary products for light assembly have been added. Today, ASG is a leading supplier to the assembly industry, with a complete line of products for light assembly.

Global Support

We maintain offices in Shanghai, China and Mumbai, India to help support the offshore manufacturing of our North American customers. Our staff can help standardize your assembly processes and equipment worldwide.

Our Goals

- **To provide the finest quality products and provide solutions to our customers' assembly needs**
- **To continue to meet our customers' growing demands by introducing innovative, state-of-the-art products that not only increase productivity but improve ergonomics and worker comfort**
- **Get to know our customers' needs**
- **Provide long term solutions**

Our Experienced Staff

ASG employs only the most experienced experts in the assembly field. Our in-house technicians and customer support staff welcome the opportunity to assist all technical applications and trouble shooting 8:00AM-5:00PM Eastern Time. Our field representatives are on-call to consult and provide solutions to assembly line design and increased productivity.

ASG maintains an experienced Technical Repair and Calibration Department.

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Why Use ASG Assembly Products?

- Torque-control – over and under-tightening is eliminated
- We provide the most precise repeatability available
- Reduce defects and/or damage to workpiece
- Ensure a reliable, quality finished product
- Reduce scrap and rework
- Control costs
- Ergonomic benefits/operator comfort – less fatigue, lightweight, quiet, clean
- Low maintenance, heavy duty, longer-life tools
- Simple and easy to use
- Products backed by a superior warranty
- ASG's history as a reputable supplier with exceptional experience and service

Accreditations:

ISO-9001:2008

- Accredited and in compliance with the International Quality System Standard
- Continuing commitment to quality

STAFDA

- Member of Specialty Tool & Fastener Distributor Association (STAFDA)

Calibrations

- Come complete with certificate of traceability to the National Institute of Standards and technology. Method of calibration complies with MIL STD-45662.

ISA

- Member of Industrial Supply Association

INDUSTRIAL SUPPLY ASSOCIATION
Linking Channel Partners

Warranty:

ASG, Jergens warrants to the original purchaser buying an ASG product with the intention of use rather than for resale, for a period of:

Two years:

BL-Series
CL-Series
SS-Series
A-Series Drivers*
CLT & T-Series Power Packs*
Torque Testers

One year:

*Excludes driver and power pack used in automated applications

VZ-Series*
VB-Series
ES-Series
ED-Series
AC-Series
Torque Wrenches
X-PAQ
TL-Series Driver
TLB Series
Manual Drivers
Process Qualifiers
Pneumatic Series
PS-Series Power Packs

Six months:

Screwfeeders
Tape and Label Dispensers

ASG will repair and replace those items found to be defective or otherwise fail to conform, or at ASG's option, repay the price paid for the item. The Buyer's remedies with respect to any item found to be defective or otherwise not conform shall be limited EXCLUSIVELY to the right of replacement or repayment. In no event shall ASG be liable for any
incidental special or consequential damages or for damages in the nature of penalties.

Disclaimer: Seller makes no other warranty whatever, expressed or implied, and all implied warranties of merchantability and fitness for a particular purpose are disclaimed and excluded from this transaction and shall not apply to the goods sold hereunder.

Warranty Cards

An official ASG Warranty card is included in all tool shipments. Please complete the card and mail it back to ASG to officially activate your warranty.

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Introduction

Repairs

Should a product be returned for Service or Warranty, contact ASG at 888-486-6163 or service@asg-jergens.com for a Service Order Number (SO#). No items will be received without prior authorization. Be sure to include a brief written description of the problem, your company name, address, phone number, and a contact name. An ASG technician will notify you by phone with information regarding your repair.

Website: www.asg-jergens.com

Please visit the ASG website frequently for:

- New and up-to-date product information
- Request a catalog or price list
- Product breakdown / Parts-lists
- Product manuals
- Specials

Where to Purchase ASG:

- ASG Distributor: Contact ASG 888-486-6163 for a full-line distributor in your area:
  - Local support and training
  - Individualized service
  - Faster turn-around time
- We accept most major credit cards - order via phone to the ASG Office: 888-486-6163

ASG INDUSTRIAL™

www.asgindustrial.com

- Pneumatic Torque Control Driver
- High Torque Nutrunners
- Torque Audit Equipment
- Industrial Air Tools

ASG PRECISION FASTENING™

www.asgprecisionfastening.com

- Transducerized DC Electric Assembly Systems
- Torque & Angle Controlled Fastening
- Process Control Solutions
- Plant Floor Networking

Corrugated Recycles

We've Gone Green

ASG has made a Commitment to the Environment to Reduce, Reuse, Recycle and Recover. Jergens was awarded the 2009 Smart Business Evolution of Manufacturing Award.

Evolution HONOREE

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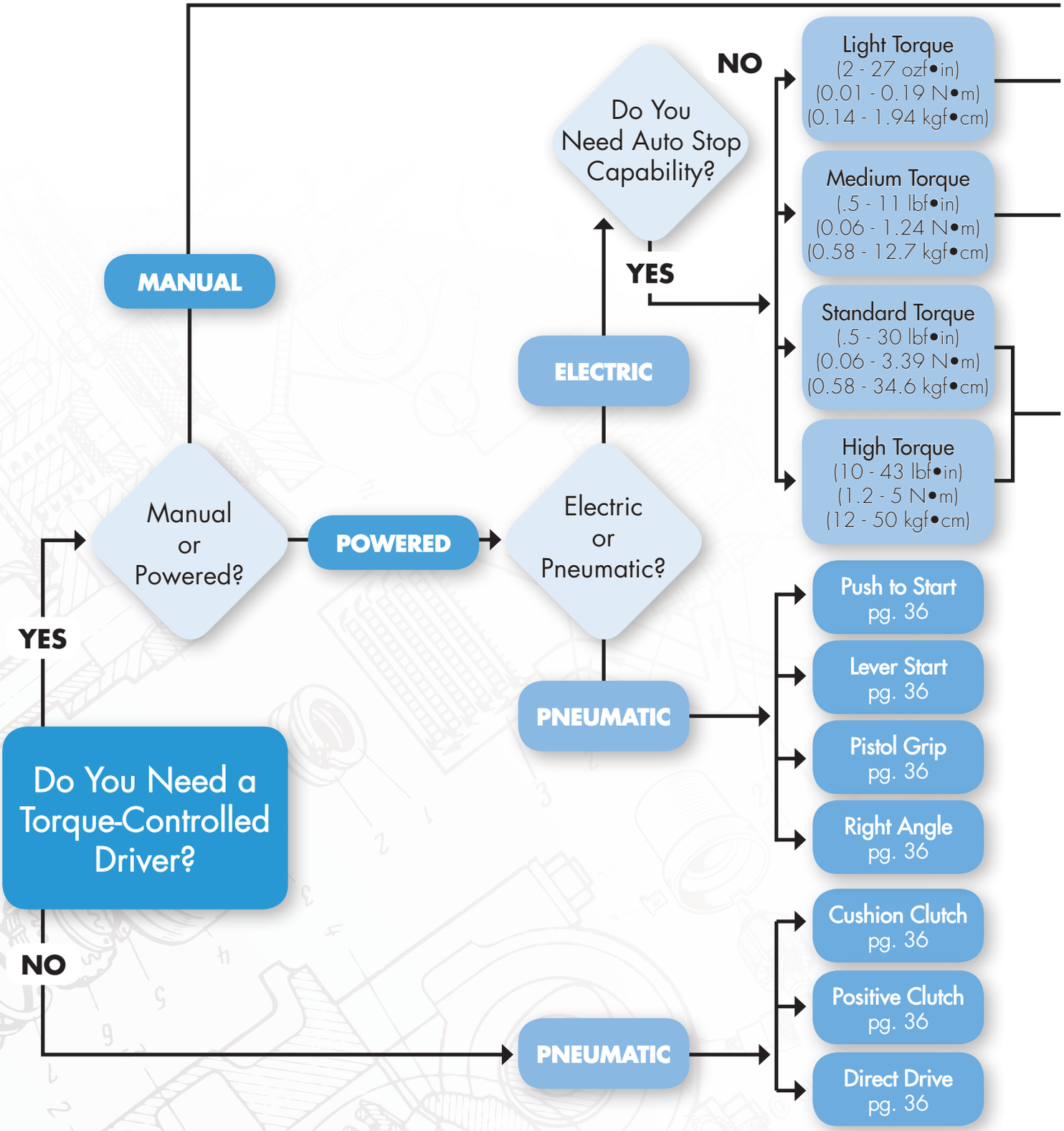
Electric Drivers

Choose Your Driver



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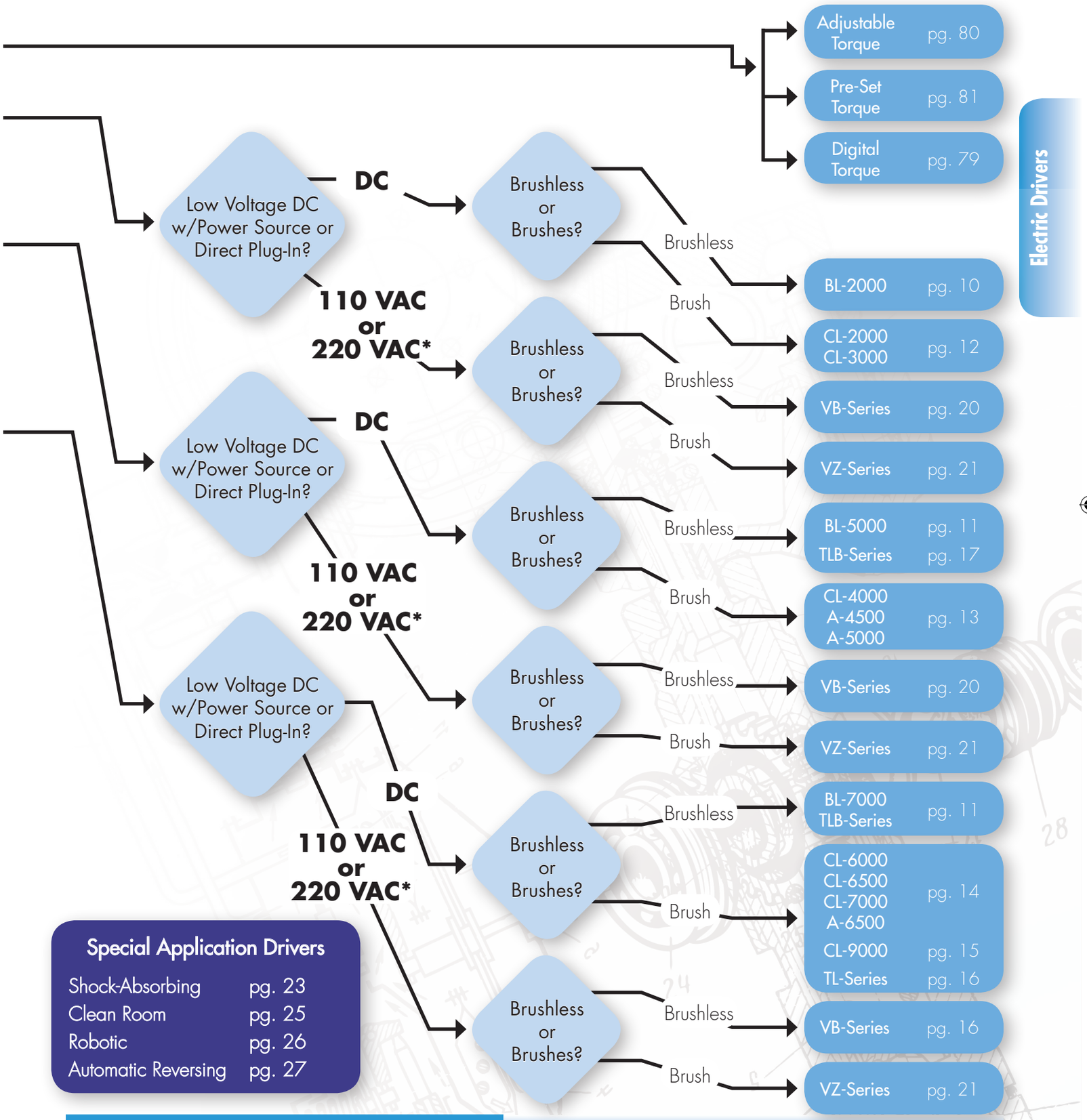
Electric Drivers



Special Application Drivers

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BL-7000 pictured with
DTT-Series Torque Tester

Brushless DC Electric Drivers

BL-Series: ASG's Premier Drivers

- Brushless:
  - Eliminates carbon dust
  - Provides longer life
  - Cleaner operation
- All magnetic switches; low maintenance
- All metal gears
- 6′ detachable cord
- Anti-Static certified housing standard* with service resistivity < 3 x 10^{12} ohms
- For 220V power supplies see page 28

*Except on BL-2000

All DC Drivers Require a Power Pack. See Pages 30-38.

Accessories for Electric Drivers Available. See Pages 87-92.

BL-2000 pictured

Small-Size

- **2.72 - 27.2 ozf•in**
- **4.0 mm drive**
- **Lever start**

BL-2000

- For light, small screw applications
- #2 screws and smaller (2.3 mm)
- 4.0 mm drive offers greatest flexibility for small fasteners or vacuum pick-up applications
- ESD certified housing with surface resistivity of < 10^{4} ohms
- Oval shape for reduced fatigue

BL-2000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
65512	BL-2000	2.72-27.2 ozf•in 0.02-.2 N•m 0.2-2 kgf•cm	4.0 mm	990	650	6.7"	1.02"	9	T-70 BL PS-55 PS-55C

†At lower voltages, full performance of tool may not be achievable.

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BL-5000 pictured

Medium-Size

- 1.7 - 10 lbf•in
- 1/4" hex or 4.0 mm drive
- Lever start/Push-to-Start

BL-5000

- Medium to light torque applications
- #1 to #4 screws (2.0 mm to 3.0 mm)
- 4.0 mm drive model offers greatest flexibility for small fasteners or vacuum pick-up applications
- Driver is switchable lever start or push-to-start
- Oval shape for reduced fatigue
- Tamper-resistant torque cover available, see page 80 for part number

BL-5000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
64271	BL-5000	1.7-10 lbf•in 0.2-1.2 N•m 2-12 kgf•cm	4.0 mm	900	590	8"	1 1/4"	12.7	T-70 BL or PS-55
64275	BL-5000	1.7-10 lbf•in 0.2-1.2 N•m 2-12 kgf•cm	1/4" hex	900	590	8"	1 1/4"	12.7	T-70 BL or PS-55

†At lower voltages, full performance of tool may not be achievable.

BL-7000 pictured

Standard-Size

- 6.1 - 30 lbf•in
- 1/4" hex or 5.0 mm drive
- Lever start/Push-to-Start

BL-7000

- Standard to medium torque applications
- #3 to 10 screws (2.6 mm to 5 mm)
- Driver is switchable lever start or push-to-start
- Oval shape for reduced fatigue
- Tamper-resistant torque cover available, see page 80 for part number

BL-7000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
65505	BL-7000	6.1-24 lbf•in 0.7-2.8 N•m 7-28 kgf•cm	5.0 mm	960	630	9.4"	1 1/2"	22.6	T-70 BL
65504	BL-7000	6.1-24 lbf•in 0.7-2.8 N•m 7-28 kgf•cm	1/4" hex	960	630	9.4"	1 1/2"	22.6	T-70 BL
65506	BL-7000HT	6.1-30 lbf•in 0.7-3.5 N•m 7-35 kgf•cm	1/4" hex	700	500	9.4"	1 1/2"	22.6	T-70 BL

†At lower voltages, full performance of tool may not be achievable.

All DC Drivers Require a Power Pack. See Pages 30-38.

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CL-2000 pictured

DC Electric Drivers

CL-Series & A-Series

- Brush-type design
- Torques are adjusted externally
- Tamper-proof torques available

All DC Drivers Require a Power Pack. See Pages 30-38.

Accessories for Electric Drivers Available See Pages 87-92.

CL-3000 pictured

Small-Size

- **2.72 - 27.2 ozf•in**
- **4.0 mm drive**
- **Lever start**
- **4′ detachable cord**

CL-2000 & CL-3000

- Light torque, small screw applications
- #1 (2 mm) screws and smaller
- 4.0 mm drive model offers greatest flexibility for small fasteners or vacuum pick-up applications
- Locking torque nut standard on CL-2000

CL-2000 & CL-3000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Spring Type Light	Spring Type Heavy	Recommended Power Pack
64107	CL-2000	2.72-27.2 ozf•in 0.02-0.2 N•m 0.2-2 kgf•cm	4.0 mm	680	490	6 1/2"	1"	7.35	Gold	Brown	ASG-50, PS-55 or PS-55C
64109	CL-3000	4.8-27.2 ozf•in 0.03-0.2 N•m 0.3-2 kgf•cm	4.0 mm	1000	670	6 3/8"	1 1/8"	12.50	Yellow	Blue	ASG-50, PS-55 or PS-55C

†At lower voltages, full performance of tool may not be achievable.

Push-to-Start and Tamper-Resistant Torque Cover Options Available for CL-3000. See Accessories Pages 88.

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A-5000 pictured
CL-4000 similar

Medium-Size

- .9 - 10 lbf•in
- 1/4" hex or 4.0 mm drive
- Lever start
- 4' detachable cord

CL-4000, A-4500 & A-5000

- Medium to light torque applications
- #0 to #4 screws (1.4 mm to 3.0 mm)
- Alpha-series (A-series) feature a rare earth magnet for more power
- 4.0 mm drive model offers greatest flexibility for small fasteners or vacuum pick-up applications
- Tamper-resistant torque nut available, see page 88 for part number

CL-4000, A-4500 & A-5000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM		Length	Dia.	Weight (oz)	Spring Type		Recommended Power Pack
				@ 30 VDC	@ 20 VDC†				Light	Heavy	
64110	CL-4000	.9-4.8 lbf•in 0.1-0.55 N•m 1-5.5 kgf•cm	1/4" hex	1000	690	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 PS-55 or PS-55C
64111	CL-4000	.9-4.8 lbf•in 0.1-0.55 N•m 1-5.5 kgf•cm	4.0 mm	1000	690	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 PS-55 or PS-55C
64112	A-4500	3.5-7.0 lbf•in 0.4-0.8 N•m 4-8 kgf•cm	4.0 mm	1400*	1200*	7 3/4"	1 1/8"	16	White		ASG-50 or PS-55
64113	A-4500	3.5-7.0 lbf•in 0.4-0.8 N•m 4-8 kgf•cm	1/4" hex	1400*	1200*	7 3/4"	1 1/8"	16	White		ASG-50 or PS-55
64281	A-5000	3.5-10 lbf•in 0.4-0.8 N•m 4-8 kgf•cm	1/4" hex	970*	700*	7 3/4"	1 1/8"	16	White		ASG-50 or PS-55
64280	A-5000	3.5-10 lbf•in 0.4-0.8 N•m 4-8 kgf•cm	4.0 mm	970*	700*	7 3/4"	1 1/8"	16	White		ASG-50 or PS-55

†At lower voltages, full performance of tool may not be achievable.
* Add approximately 100 RPM if using CLT-60 transformer.

All DC Drivers Require a Power Pack. See Pages 30-38.

Push-to-Start and Tamper-resistant torque cover options available for CL-4000, A-4500 and A-5000.
See Accessories Pages 88.

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DC Electric Drivers

All DC Drivers Require a Power Pack.
See Pages 30-38.

Accessories for Electric Drivers Available
See Pages 87-92.

Standard-Size Drivers

- 1.7 - 30 lbf•in
- 1/4" hex or 5.0 mm drive
- Lever or Push-to-Start
- 6' detachable cord

CL-6000, CL-6500, CL-7000 & A-6500

- Standard to medium torque applications
- #1 to #10 screws (2.0 mm to 5.0 mm)
- Alpha-Series (A-Series) features a rare earth magnet motor for more power
- Tamper-resistant torque nut standard
- Low RPM models for low speed applications
- For 220V power supplies, see page 28

CL-6500 pictured
CL-6000 and CL-7000
are similar

CL-6000, CL-6500, CL-7000 & A-6500 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Spring Type Light	Spring Type Heavy	Recommended Power Pack
64116	CL-6000	1.7-8.8 lbf•in 0.2-1 N•m 2-10 kgf•cm	1/4" hex	800	500	8 1/2"	1 3/8"	21.5	Brown		ASG-50 or PS-55
64106	CL-6000	1.7-8.8 lbf•in 0.2-1 N•m 2-10 kgf•cm	5.0 mm	800	500	8 1/2"	1 3/8"	21.5	Brown		ASG-50 or PS-55
64121	CL-6500	2.6-14 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	1/4" hex	900	600	9"	1 3/8"	23.5	White	Yellow	ASG-50 or PS-55
64118	CL-6500	2.6-14 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	5.0 mm	900	600	9"	1 3/8"	23.5	White	Yellow	ASG-50 or PS-55
64126	CL-7000	2.6-22 lbf•in 0.3-2.5 N•m 3-25 kgf•cm	1/4" hex	750	*	10"	1 3/8"	27	Yellow	Purple	CLT-60 or PS-55
64129	CL-7000HT	2.5-24 lbf•in 0.28-2.7 N•m 2.8-27 kgf•cm	1/4" hex	550	*	10"	1 3/8"	27	Yellow	Purple	CLT-60
64117	CL-7000	2.6-22 lbf•in 0.3-2.5 N•m 3-25 kgf•cm	5.0 mm	750	*	10"	1 3/8"	27	Yellow	Purple	CLT-60 or PS-55
64124	A-6500	4.3-16 lbf•in 0.5-1.8 N•m 5-18 kgf•cm	1/4" hex	1700	*	9"	1 3/8"	24	Yellow		CLT-60
64284	A-6500HT	4.5-30 lbf•in 0.5-3.4 N•m 5-34 kgf•cm	1/4" hex	690	*	9"	1 3/8"	24	Green		CLT-60

PUSH-TO-START: CL-6000, CL-6500, CL-7000 & A-6500 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Spring Type Light	Spring Type Heavy	Recommended Power Pack
64200	CL-6000-PS	1.7-8.8 lbf•in 0.2-1 N•m 2-10 kgf•cm	1/4" hex	800	500	8 1/2"	1 3/8"	23.5	Brown		PS-55
64120	CL-6500-PS	2.6-14 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	1/4" hex	900	600	9"	1 3/8"	23.5	White	Yellow	PS-55
64125	CL-7000-PS	2.6-22 lbf•in 0.3-2.5 N•m 3-25 kgf•cm	1/4" hex	750	*	9"	1 3/8"	23.5	Yellow		CLT-60
64119	A-6500-PS	4.3-16 lbf•in 0.3-1.8 N•m 3-18 kgf•cm	1/4" hex	1700	*	9"	1 3/8"	24	Yellow		CLT-60

* Low speed not recommended.

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Standard-Size Drivers *continued*

LOW RPM: CL-6000, CL-6500 & CL-7000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM		Length	Dia.	Weight (oz)	Spring Type		Recommended Power Pack
				@ 30 VDC	@ 20 VDC†				Light	Heavy	
64257	CL-6000	1.7-8.8 lbf•in 0.2-1 N•m 2-10 kgf•cm	1/4" hex	104	70	9 1/4"	1 3/8"	23.5	Brown		ASG-50 or PS-55
64268	CL-6500	2.6-14 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	1/4" hex	116	75	9 3/4"	1 3/8"	23.5	White	Yellow	ASG-50 or PS-55
64269	CL-7000	2.6-14 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	1/4" hex	96	60	10 1/2"	1 3/8"	23.5	Yellow	Purple	CLT-60

CL-9000 pictured with standard torque reaction arm assembly

Large-Size Drivers

- 10 - 70 lbf•in
- 1/4" hex drive
- Push-to-Start
- 6' detachable cord

CL-9000

- High torque applications
- #8 to 1/4" screws (4.0 mm to 6.0 mm)
- Torque reaction arm assembly standard
- Tool body floats for reduced fatigue
- Locking torque nut standard
- Tool support stand not included with torque reaction arm assembly
- See page 81 for tool stands
- For 220V power supplies, see page 28

All DC Drivers Require a Power Pack. See Pages 30-38.

Accessories for Electric Drivers Available See Pages 87-92.

PUSH-TO-START: CL-9000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM		Length	Dia.	Weight (oz)	Spring Type		Recommended Power Pack	Part. No.
				@ 30 VDC	@ 20 VDC†				Light	Heavy		
64138	CL-9000-PS	10-43 lbf•in 1.2-5 N•m 12-50 kgf•cm	1/4" hex	530	N/A	10"	2 1/25"	46	Gold		CLT-80	65526
64139	CL-9000-PS-HT	17-70 lbf•in 1.9-8 N•m 19-80 kgf•cm	1/4" hex	350	N/A	10"	2 1/25"	46	Green		CLT-80	65526

†At lower voltages, full performance of tool may not be achievable.

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Value-Engineered DC Drivers

TL-Series

- .25 - 17.4 lbf•in
- 1/4" Hex or 4.0 mm
- Lever Start
- ESD-safe models available - surface resistivity is between 10^4 and 10^5 ohms

- Automatically stops when pre-set torque is reached
- Balanced ergonomic design
- Exceptionally lightweight: 11.5 oz.
- Reduced vibration and noise
- Low voltage DC operation
- Double insulated
- For 220V power supplies, see page 28

TL-3000 pictured
TL-6500 similar

All DC Drivers Require a Power Pack. See Pages 30-38.

Pistol Grip, Right Angle and Tamper-Resistant Torque Cover Options Available. See Accessories Pages 88.

TL-3000 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
65601	TL-3000	0.25-4.0 lbf•in 0.03-0.45 N•m 0.3-4.5 kgf•cm	1/4" hex	1000	700	8"	1 1/8"	11.5	ASG-50 PS-55 or PS-55C
65602	TL-3000	0.25-4.0 lbf•in 0.03-0.45 N•m 0.3-4.5 kgf•cm	4 mm	1000	700	8"	1 1/8"	11.5	ASG-50 PS-55 or PS-55C
65603	TL-3000ESD	0.25-4.0 lbf•in 0.03-0.45 N•m 0.3-4.5 kgf•cm	1/4" hex	1000	700	8"	1 1/8"	11.5	ASG-50 PS-55 or PS-55C
65604	TL-3000ESD	0.25-4.0 lbf•in 0.03-0.45 N•m 0.3-4.5 kgf•cm	4 mm	1000	700	8"	1 1/8"	11.5	CLT-50 PS-55 or PS-55C

Tools come with two torque springs. Heavy spring is red; light spring is gold.
†At lower voltages, full performance of tool may not be achievable.

TL-6500 SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
65605	TL-6500	1.7-17.4 lbf•in 0.2-2.0 N•m 2.0-20.0 kgf•cm	1/4" hex	700	500	8"	1 1/8"	11.5	ASG-50 or PS-55
65606	TL-6500ESD	1.7-17.4 lbf•in 0.2-2.0 N•m 2.0-20.0 kgf•cm	1/4" hex	700	500	8"	1 1/8"	11.5	ASG-50 or PS-55

Tools come with two torque springs. Heavy spring is silver; light spring is gold.

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Value-Engineered Brushless DC Drivers

TLB-Series: Innovative and affordable

NEW!

- Similar features to BL Series (pg. 10)
- CE certified
- ESD available on certain models
- 110V - 240VAC power supplies

TLB-D Series Push-to-Start pictured

All DC Drivers Require a Power Pack. See Pages 30-38.

Built-in Screw Counter

- **1.3 - 43.4 lbf•in**
- **1/4" hex**
- **Lever start (L) / Push-to-Start (P)**

TLB-D Series

- Compact LED counter built-in
- Automatic learning: compatible with PLC
- High speed
- 4.0 mm drive tools available on 412 Series

LEVER START: TLB-D SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 32 VDC	Approx. RPM @ 20 VDC	Length	Dia.	Weight (lbs)	Recommended Power Pack
68602	TLB-D412L	1.3 - 10.6 lbf•in 0.15 - 1.2 N•m 1.5 - 12 kgf•cm	¼" hex	2000	*NA	10.6"	1.4"	1.28	SP-B32HL62T/C
68603	TLB-D630L	8.9 - 26 lbf•in 0.98 - 2.9 N•m 10 - 30 kgf•cm	¼" hex	2000	NA	12.5"	1.57"	1.76	SP-B40S500T/C
68604	TLB-D650L	17.4 - 43.4 lbf•in 1.9 - 4.9 N•m 20 - 50 kgf•cm	¼" hex	1000	NA	12.5"	1.57"	1.76	SP-B40S500T/C

PUSH-TO-START: TLB-D SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 32 VDC	Approx. RPM @ 20 VDC	Length	Dia.	Weight (lbs)	Recommended Power Pack
68605	TLB-D412P	1.3 - 10.6 lbf•in 0.15 - 1.2 N•m 1.5 - 12 kgf•cm	¼" hex	2000	*NA	10.6"	1.4"	1.28	SP-B32HL62T/C
68606	TLB-D630P	8.9 - 26 lbf•in 0.98 - 2.9 N•m 10 - 30 kgf•cm	¼" hex	2000	NA	12.5"	1.57"	1.76	SP-B40S500T/C
68607	TLB-D650P	17.4 - 43.4 lbf•in 1.9 - 4.9 N•m 20 - 50 kgf•cm	¼" hex	1000	NA	12.5"	1.57"	1.76	SP-B40S500T/C

* Not recommended on low speed.

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Value-Engineered Brushless DC Drivers *continued*

TLB-C Series pictured

Drivers for Use with Power Supply with Integrated Error-Proofing

- .9-10 lbf•in
- 1/4" hex
- Lever start (L) / Push-to-Start (P)

See Page 47 for More Error-Proofers.

TLB-C Series

- Combines power supply and screw counter (power supply sold separately)
- Compatible with PLC
- Slow-start function
- Set running speed and timing
- Audible alert
- #3 Screws

Model SP-BC32HL60T/C power supply pictured

LEVER START: TLB-C SPECIFICATIONS

Part No.	Driver No.	Torque	Drive Size	Approx. RPM @ 32 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (lbs)	Recommended Power Pack
68608	TLB-C210L	.87 - 8.7 lbf•in 0.10 - 0.98 N•m 1.0 - 10 kgf•cm	¼" hex	1000	700	7.3"	1.88"	.85	SP-BC32HL60T/C
68609	TLB-C412L	1.3 - 10.6 lbf•in 0.15 - 1.18 N•m 1.5 - 12 kgf•cm	¼" hex	2000	NA	9.6"	1.88"	1.15	SP-BC32HL60T/C

PUSH-TO-START START: TLB-C SPECIFICATIONS

Part No.	Driver No.	Torque	Drive Size	Approx. RPM @ 32 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (lbs)	Recommended Power Pack
68610	TLB-C412P	1.3 - 10.6 lbf•in 0.15 - 1.18 N•m 1.5 - 12 kgf•cm	¼" hex	2000	NA	9.6"	1.88"	1.15	SP-BC32HL60T/C

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Value-Engineered Brushless DC Drivers *continued*

High Torque

- 26 - 132 lbf•in
- 3/8" sq. Dr or 1/4" hex
- Lever start

TLB-A and TLB-T Series

- Powerful high torque and strong performance
- TLB-A series must be used on torque arm (see pg. 75)
- TLB-A Series, Inline
- TLB-T series has T-type, pistol housing
- ¼" Screws

TLB-A97L pictured

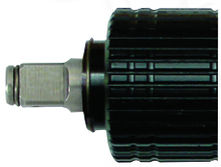
LEVER START: TLB-A SPECIFICATIONS - INLINE

Part No.	Model No.	Torque	Drive Size	Approx. RPM	Length	Dia. (in)	Weight (lbs)	Recommended Power Pack
68611	TLB-A975LW	26.6 - 66.4 lbf•in 3 - 7.5 N•m 30.6 - 76.5 kgf•cm	3/8" sq	800	10.6"	1.8	2.75	SP-B40S500T/C
68612	TLB-A975L	26.6 - 66.4 lbf•in 3 - 7.5 N•m 30.6 - 76.5 kgf•cm	¼" hex	800	10.6"	1.8	2.75	SP-B40S500T/C
68613	TLB-A9100LW	35.4 - 88.5 lbf•in 4 - 10 N•m 40.8 - 102 kgf•cm	3/8" sq	550	11.7"	1.8	2.6	SP-B40S500T/C
68614	TLB-A-9100L	35.4 - 88.5 lbf•in 4 - 10 N•m 40.8 - 102 kgf•cm	¼" hex	550	11.7"	1.8	2.6	SP-B40S500T/C

TLB-T Hex Series pictured

PUSH-TO-START START: TLB-A SPECIFICATIONS - INLINE

Part No.	Model No.	Torque	Drive Size	Approx. RPM	Length	Dia. (in)	Weight (lbs)	Recommended Power Pack
68615	TLB-A975PW	26.6 - 66.4 lbf•in 3 - 7.5 N•m 30.6 - 76.5 kgf•cm	3/8" sq	800	10.6"	1.8	2.75	SP-B40S500T/C
68617	TLB-A975P	26.6 - 66.4 lbf•in 3 - 7.5 N•m 30.6 - 76.5 kgf•cm	¼" hex	800	10.6"	1.8	2.75	SP-B40S500T/C
68616	TLB-A9100PW	35.4 - 88.5 lbf•in 4 - 10 N•m 40.8 - 102 kgf•cm	3/8" sq	550	11.7"	1.8	2.6	SP-B40S500T/C
68618	TLB-A9100P	35.4 - 88.5 lbf•in 4 - 10 N•m 40.8 - 102 kgf•cm	¼" hex	550	11.7"	1.8	2.6	SP-B40S500T/C



TLB-T "W" Model Square Series pictured

TLB-T SPECIFICATIONS - PISTOL GRIP

Part No.	Model No.	Torque	Drive Size	Approx. RPM	Length	Dia. (in)	Weight (lbs)	Recommended Power Pack
68620	TLB-T9150LDW	53.1 - 132.8 lbf•in 6 - 15 N•m 61.2 - 153 kgf•cm	3/8" sq.	350	10.7"	1.7	2.75	SP-B40S500T/C
68619	TLB-T9150LD	53.1 - 132.8 lbf•in 6 - 15 N•m 61.2 - 153 kgf•cm	¼" hex	350	10.7"	1.7	2.75	SP-B40S500T/C

Direct Plug-in Brushless Drivers

VB-1820-PS pictured

VB-Series

- 3.5 - 39 lbf•in
- 110 VAC
- 1/4" hex drive
- Lever or Push-to-Start (PS)
- VB tools supplied with antistatic certified housing. Surface resistivity of <3 x 10^4 ohm
- 5.0mm drive available. Other torques and speeds available. Contact ASG for quote.
- 220V available, see page 28

VB-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	RPM	Length (in.)	Dia. (in.)	Weight (oz)
65516	VB-1820	3.5-16 lbf•in 0.4-1.8 N•m 4-18 kgf•cm	2000	10.4	1.535	26.5
65518	VB-1820-PS*	3.5-16 lbf•in 0.4-1.8 N•m 4-18 kgf•cm	2000	11.25	1.615	26.5
65517	VB-3012	4.3-26 lbf•in 0.5-3 N•m 5-30 kgf•cm	1200	10.4	1.535	26.5
65519	VB-3012-PS*	4.3-26 lbf•in 0.5-3 N•m 5-30 kgf•cm	1200	11.25	1.615	26.5
65521	VB-4504	8.7-39 lbf•in 1-4.5 N•m 10-45 kgf•cm	400	10.4	1.535	26.5
65523	VB-4504-PS	8.7-39 lbf•in 1-4.5 N•m 10-45 kgf•cm	400	11.25	1.615	26.5

*Note: VB-1820-PS and VB-3012-PS have rubberized grips which will not be fully anti-static.

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VZ-1820 pictured
VZ-3012 &
VZ-4506 similar

Direct Plug-in Drivers

VZ-Series

- 3.5 - 39 lbf•in
- 110 VAC
- 1/4" hex drive
- Lever or Push-to-Start
- 10' cord

- Standard to medium torque applications
- #4 to #10 screws (2.6 to 5.0 mm)
- Anti-tampering torque cover available. See page 88 for part number
- 5.0 mm drive tools available. Contact ASG for quote.
- For 220 VAC tools, see page 28

Pistol Grip, Right Angle, Tamper-Resistant Torque Cover Options and Many Other Accessories Available.
See Accessories Pages 79-84.

VZ-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	RPM	Length	Dia.	Weight (oz)
64222	VZ-1820	3.5-16 lbf•in 0.40-1.8 N•m 4-18 kgf•cm	2000	11"	1.512" at grip	24
64224	VZ-3012	7.8-26 lbf•in 0.90-3 N•m 9-30 kgf•cm	1200	11"	1.512" at grip	24
64267	VZ-3012LT	3.5-16 lbf•in 0.40-1.8 N•m 4-18 kgf•cm	1200	11"	1.512" at grip	24
64238	VZ-4506	8.8-39 lbf•in 1-4.5 N•m 10-45 kgf•cm	600	11"	1.512" at grip	24

Torque and speed at 120VAC

PUSH-TO-START: VZ-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	RPM	Length	Dia.	Weight (oz)
64223	VZ-1820-PS	3.5-16 lbf•in 0.40-1.8 N•m 4-18 kgf•cm	2000	11"	1.512" at grip	24
64225	VZ-3012-PS	7.8-26 lbf•in 0.90-3 N•m 9-30 kgf•cm	1200	11"	1.512" at grip	24
64266	VZ-3012-LT-PS	3.5-16 lbf•in 0.40-1.8 N•m 4-18 kgf•cm	1200	11"	1.512" at grip	24
64239	VZ-4506-PS	8.8-39 lbf•in 1-4.5 N•m 10-45 kgf•cm	600	11"	1.512" at grip	24

Torque and speed at 120VAC

Direct Plug-In Semi-Auto Shut-off Drivers Are on Page 22.

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Value-Engineered Direct Plug-In Drivers

ES-2001 pictured

Standard Size – Inline

- Ergonomic design for operator comfort
- Light warns when carbon brush needs replacement
- Models with other torques and speeds available
- Anti-tamper torque cover available
- Contact ASG for 220 VAC tools

See page 28

ES-Series Semi-Auto Shut-Off (Ratchet) Drivers

- 0.9 - 10.4 lbf•in
- 110 VAC
- 10' detachable cord
- Lever start only

ES-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM	Length	Dia.	Weight (lb)
65532	ES-2001	0.9-10.4 lbf•in 0.1-1.2 N•m 1-12 kgf•cm	1/4" hex	1250	9.0"	1.3"	1.0

ED-3001PSESD pictured

Standard Size – Inline

- Ergonomic design for operator comfort
- Light warns when carbon brush needs replacement
- Models with other torques and speeds available
- Internationally-patented disk brake design to prevent sparks caused by the motor abruptly stopping with reverse voltage
- Anti-tamper torque cover standard

ED-ESD Series Auto Shut-Off Drivers

- .9 - 10.4 lbf•in
- 110 VAC
- 10' detachable cord
- Push-to-Start only

ED-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	RPM	Length	Dia.	Weight (lb)
65530	ED-3001PSESD	1.9-10.4 lbf•in 0.2-1.2 N•m 2-12 kgf•cm	1/4" hex	950	9.3"	1.3"	1.18

AC-1130 pictured

Standard Size – Inline

- Standard to medium torque applications
- #1 to #10 screws (2.0 mm to 6.0 mm)
- Tool may be used as push-to-start or lever/push-to-start available
- Anti-tamper torque cover standard
- ESD certified housing - surface resistivity of $<10^4$ ohms
- Contact ASG for 220v tools

AC-Series Auto Shut-Off Drivers

- 1.7 - 47 lbf•in
- 110 VAC
- Push-to-Start or Lever/ Push-to-Start

AC-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	RPM	Length	Dia.	Weight (lb)
65540	AC-1110	1.74-8.6 lbf•in 0.2-1.0 N•m 2-10 kgf•cm	1/4" hex	1000	10"	1.4"	23
65541	AC-1120	2.6-17 lbf•in 0.3-2.0 N•m 3-20 kgf•cm	1/4" hex	1000	10"	1.4"	23
65542	AC-1120HS	3.5-17 lbf•in 0.4-2.0 N•m 4-20 kgf•cm	1/4" hex	2200	10"	1.4"	23
65543	AC-1130	3.5-26 lbf•in 0.4-3.0 N•m 4-30 kgf•cm	1/4" hex	1000	10"	1.4"	23
65544	AC-1155	8.6-47 lbf•in 1.0-5.5 N•m 10-55 kgf•cm	1/4" hex	400	10.5"	1.6"	27

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Special Application DC Drivers

SS-4000 pictured

Shock-Absorbing Drivers

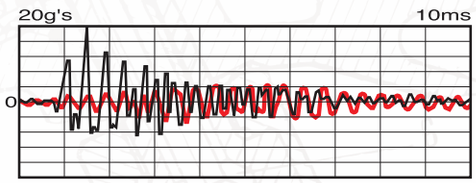
- 80% less impact
- Less torque reaction
- .17 - 17.5 lbf•in
- 1/4" hex or 4.0 mm drive
- Lever start
- Available in small, medium and standard size tools

SS-Series

- Use for sensitive assemblies such as hard drives, LCD's, high density boards
- #10 screws (5.0 mm) and smaller
- Full torque while tool is in reverse makes these tools ideal for rework applications
- Unique ergonomic clutch delivers less torque reaction to operator
- Tamper-resistant torque nut standard on Models SS-6500 & SS-7000; optional on SS-3000 & SS-4000 Models. See page 88 for torque-locking option.
- 6' detachable cord.

Shockwave Comparison (SS-6500)

- Shockwave-type record analyzing device
- Acceleration sensor
- Red line: SS Driver
- Black line: CL-Series Driver



SS-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Spring Type Light	Spring Type Heavy	Recommended Power Pack
65525	SS-2000	2.72 - 27.2 ozf•in 0.02 - 0.2 N•m 0.2 - 2 kgf•cm	4.0 mm	680	490	10"	13/8"	26.5	Yellow		ASG-50 PS-55 PS-55L
64285	SS-3000	4.8-27.2 ozf•in .03-0.2 N•m 0.3-2 kgf•cm	4.0 mm	1000	670	6 3/8"	1 1/8"	12.5	Yellow	Blue	ASG-50 PS-55 PS-55L
64287	SS-4000	0.9-3.9 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	1/4" hex	1000	670	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64286	SS-4000	0.9-4.0 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	4.0 mm	1000	690	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64134	SS-6500	2.2-11.0 lbf•in 0.25-1.3 N•m 2.5-13 kgf•cm	1/4" hex	900	600	9"	1 3/8"	23.5	Yellow		ASG-50 or PS-55
64136	SS-7000	2.6-17.4 lbf•in 0.3-2.0 N•m 3-20 kgf•cm	1/4" hex	750	500	10"	1 3/8"	27	Purple		CLT-60

DC Drivers Require a Power Pack. See Page 30-38.

Special Application DC Drivers *continued*

ESD Safe Drivers

- **Use ESD safe drivers for any static-sensitive application**

BL-ESD-Series

- Combines features of BL-Series and ESD housings
- #10 screws (5.0 mm) and smaller

SS-ESD-Series

- Combines features of SS-Series and ESD housings
- SS-ESD safe drivers are drivers with ESD safe housings
- Impregnated housings last for the life of the tool; unlike coatings
- Housing is conductive
- Surface resistivity is 10^4 ohms

BL-ESD-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Recommended Power Pack
65512	BL-2000	2.7-27 ozf•in 0.02-0.2 N•m 0.2-2 kgf•cm	4.0 mm	990	960	6.7"	26 mm	9	T-70 BL* or PS-55
65500	BL-5000-ESD	1.7-10.0 lbf•in 0.2-1.2 N•m 2.0-12.0 kgf•cm	4.0 mm	1000	680	8"	1 1/4"	12.7	T-70 BL* or PS-55
65501	BL-5000-ESD	1.7-10.0 lbf•in 0.2-1.2 N•m 2.0-12.0 kgf•cm	1/4" hex	1000	680	8"	1 1/4"	12.7	T-70 BL* or PS-55

SS-ESD-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Length	Dia.	Weight (oz)	Spring Type Light	Spring Type Heavy	Recommended Power Pack
64277	SS-3000-ESD	4.8-27.2 ozf•in 0.03-0.2 N•m 0.3-2.0 kgf•cm	4.0 mm	1000	670	6 3/8"	1 1/8"	12.5	Yellow	Blue	ASG-50 PS-55* PS-55C
64278	SS-4000-ESD	0.9-3.9 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	1/4" hex	1000	690	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64279	SS-4000-ESD	0.9-3.9 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	4.0 mm	1000	690	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64288	SS-6500-ESD	2.2-11.0 lbf•in 0.25-1.3 N•m 2.5-13 kgf•cm	1/4" hex	900	600	9"	1 1/8"	23.5	Yellow		ASG-50 or PS-55
64289	SS-7000-ESD	2.6-17.4 lbf•in 0.3-2 N•m 3-20 kgf•cm	1/4" hex	750	* *	10"	1 3/8"	27	Purple		ASG-50 or CLT-60

* T-70BL, PS-55 and ASG-50 power packs have ground paths to electrical ground.
**Low speed not recommended.

Most DC Electric Drivers May be Available with ESD Safe Housings. Call ASG for Quote.

DC Drivers Require a Power Pack. See Page 30-38.

Phone (888)486-6163 Fax (216)481-4519 www.asg-jergens.com

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CR-3000ESD pictured

Special Application DC Drivers *continued*

Class 100 Clean Room Drivers

- **2.7 ozf•in - 30.0 lbf•in**
- **1/4" hex drive or 4.0 mm drive**
- **6' detachable cord**

CR-Series

- Any low-voltage small, medium and standard size tool can be modified for use in Class 100 clean room use
- #10 screws (5.0 mm) and smaller
- Small and medium tools include 4' detachable cord
- Standard tool supplied with 6' detachable cord
- 220V power supplies available. See page 28

Most DC Electric Drivers May be Modified for Use in Class 100 Clean Room. Call ASG for quote.

All DC Drivers Require a Power Pack. See Pages 30-38.

SSCR-6500-ESD pictured

ESD, Class 100 Clean Room Shock-Absorbing Drivers

- **Combine all features of clean room drivers, shock-absorbing drivers & ESD safe drivers**

SSCR-ESD-Series

- Class 100 clean room use
- 80% less impact
- ESD Safe
- Standard ASG-50 power pack has ground path to electrical ground

SSCR-ESD-SERIES SPECIFICATIONS (STATIC PROTECTION & CLEAN ROOM RATED)

Part No.	Model No.	Torque	Drive Size	Approx. RPM		Length	Dia.	Weight (oz)	Spring Type		Recommended Power Pack
				@ 30 VDC	@ 20 VDC†				Light	Heavy	
64291	SSCR-3000-ESD	4.8-27.2 ozf•in 0.03-0.2 N•m 0.3-2 kgf•cm	4.0 mm	1000	670	6 3/8"	1 1/8"	12 1/2	Yellow	Blue	ASG-50 PS-55 PS-55c
64292	SSCR-4000-ESD	0.9-3.9 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	1/4" hex	1000	670	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64293	SSCR-4000-ESD	0.9-3.9 lbf•in 0.1-0.45 N•m 1-4.5 kgf•cm	4.0 mm	1000	670	7 1/2"	1 1/8"	14	Blue	Red	ASG-50 or PS-55
64294	SSCR-6500-ESD	2.2-11.0 lbf•in 0.25-1.3 N•m 2.5-13 kgf•cm	1/4" hex	910	600	9"	1 3/8"	23 1/2	White	Yellow	ASG-50 or PS-55
64295	SSCR-7000-ESD	2.6-17.4 lbf•in 0.3-2 N•m 3-20 kgf•cm	1/4" hex	750	*	10"	1 3/8"	27	Yellow	Purple	CLT-60

†At lower voltages, full performance of tool may not be achievable.
*Low speed not recommended.

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Special Applications

Drivers for Robotic or Special Applications

- **4.2 ozf•in - 39.0 lbf•in**
- **1/4" hex, 4.0 mm or 5.0 mm drive**
- **Remote start**
- **Mounting flange**
- **Remote reversible**
- **Speed selectable**

CLF & CL-800 Series

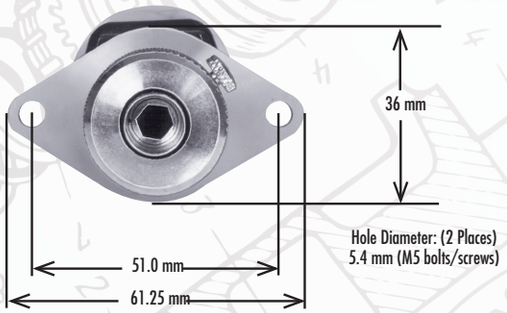
- Use with robot or built custom machine
- Light to standard torque applications
- #0 to #10 screws
- Special power pack starts driver on signal from PLC; or machine controls
- Drivers include front mounting flange
- Reversing and two-speed selectable power packs available
- CL-800 series drivers for heavy duty applications
- For 220V power supplies, see page 28

CLF-6500XH pictured

SELECT ROBOTIC DRIVER SPECIFICATIONS

Part No.	Model No.	Torque	Drive Size	Approx. RPM @ 30 VDC	Length	Dia.	Weight (lb)	Recommended Power Pack	Part No.
64219	CLF-3000HH	4.2-20.8 ozf•in 0.03-0.15 N•m 0.3-1.5 kgf•cm	4.0 mm	1000	6.375"	1.125"	0.91	CLT-AY61	64198
64115	CLF-4000XH	0.8-3.0 lbf•in 0.1-0.35 N•m 1-3.5 kgf•cm	1/4" hex	1000	7.50"	1.125"	1.00	CLT-AY61	64198
64133	CLF-6000XH	2.6-5.2 lbf•in 0.3-0.6 N•m 3-6 kgf•cm	1/4" hex	800	9.84"	1.375"	1.34	CLT-AY61	64198
64135	CLF-6500XH	3.5-8.7 lbf•in 0.4-1 N•m 4-10 kgf•cm	1/4" hex	910	10.43"	1.375"	1.46	CLT-AY61	64198
64137	CLF-7000XH	4.3-13.0 lbf•in 0.5-1.5 N•m 5-15 kgf•cm	1/4" hex	750	11.22"	1.375"	1.64	CLT-AY61	64198
64130*	CL-816A	13-21.7 lbf•in 1.5-2.5 N•m 15-25 kgf•cm	1/4" hex	500	9.85"	1.937"	2.68	CLT-AY81	64199
64131*	CL-825A	17.4-34.7 lbf•in 2.0-4.0 N•m 20-40 kgf•cm	1/4" hex	340	9.85"	1.937"	2.68	CLT-AY81	64199
64132*	CL-850A	20.8-39.0 lbf•in 2.4-4.5 N•m 24-45 kgf•cm	1/4" hex	640	9.65"	2.375"	3.43	CLT-AY81	64199

* Discontinued - Limited Stock Available



All DC Drivers Require a Power Pack. See Pages 30-38.

Most CL-Series, Alpha (A-Series) Drivers, Clean Room, or SS-Series Drivers Can be Adapted for Use in Robotic or Machine Operation.
Contact ASG for Quote.

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SB-650C pictured

SB-400C pictured

Automatic Reversing Tools

- .9 - 14.2 lbf•in
- #2 to 1/4" (4 mm to 6.5 mm) chuck
- Lever start
- 6' detachable cord
- Auto reverse

SB-400C & SB-650C

- Ideal for installations of Heli-Coil® wound wire inserts, light tapping or as a gauge to check threads
- 10-32 to 0-80 insert capacity
- Tool reverses to preset torque
- Use with tap to chase threads after painting or coating parts
- Chuck key included with tool

MANDRELS FOR HELICALLY WOUND INSERTS

Part No.	Thread Size
64702	2-56
64704	4-40
64706	6-32
64708	8-32
64710	10-24
64714	¼ - 20
64730	10-32

NOTE: It is essential that holes be drilled to insert manufacturer specifications and that taps be checked regularly.

SB-SERIES SPECIFICATIONS

Part No.	Model No.	Torque	Approx. RPM @ 30 VDC	Approx. RPM @ 20 VDC†	Top Spring	Capacity.	Length	Dia.	Chuck Weight	Capacity	Recommended Power Pack	Part. No.
64141	SB-400C	.9-4.4 lbf•in 0.1-0.5 N•m 1-5 kgf•cm	1000	870	Red	4-40	8.5"	1 1/8"	15 oz.	5/32"	SBT-50	64166
64143	SB-650C	2.7-14.2 lbf•in 0.3-1.6 N•m 3-16 kgf•cm	910	600	Yellow	10-32	11.5"	1 3/8"	24 oz.	1/4"	SBT-50	64166

†At lower voltages, full performance of tool may not be achievable.

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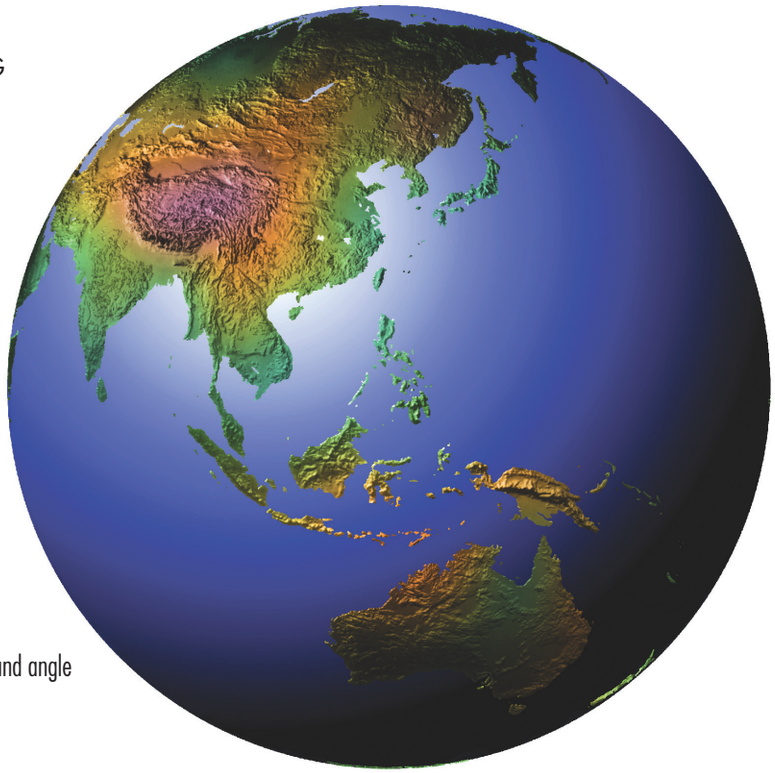
Products for International Use (220V)

Whether you are shipping overseas or have an overseas location ASG is on the job!

Many of ASG products are available for use in the international market using 220V. Please contact ASG for details and part numbers when applicable.
A sampling includes:



Electric Drivers

Direct Plug-in, 220VAC equivalent:

- VZ-Series
- VB-Series
- TLB-Series
- AC-Series
- ED & ES-Series

See Direct Plug-in Driver Pages 20-22

X-PAQ Precision Fastening System

NEW!

Precision/Accuracy/Quality

- The SD2500 screwdriver, combined with controller, provides torque and angle controlled fastening

See X-PAQ Precision Fastening System Page 49-51

Power Supplies

Many models available in 220V to operate DC Electric Drivers:

- BL, CL, TL, SS, TLB and A-Series

See Power Supplies Page 35

Process Verification

Error-Proofing Systems, 220VAC available:

- Gen-II Pneu-Aira™
- TS-III Qualifier
- Screw Counters
- Torque Testers
  - HP, HM, HDP, HIT-Series

See Process Verification Section Pages 46-54

Production Aides

Screwfeeders, 220V models available:

- ASG-81
- NSB & NJ-Series

Tape Dispensers, 220V models available:

- EZ-Series

See Production Aides Section Pages 62-68

Bits Supplied with Drivers

Most 1/4" hex drive tools except Model CL-9000 include:

- 1 - #1 x 1-15/16" JIS Phillips bit, Part No. 64502
- 1 - #2 x 1-15/16" JIS Phillips bit, Part No. 64508
- 1 - .215" x .038" x 1-15/16" Slotted bit, Part No. 64554

Model CL-9000 includes:

- 1 - #2 x 4" JIS Phillips bit
- 1 - #3 x 4" JIS Phillips bit
- Please contact ASG for equivalent bits for the CL-9000.

4.0 MM drive tools include:

Model CL-2000, CL-3000 & SS-3000:

- 1 - #0 (2.0 mm) x 40 mm JCIS Phillips bit, Part No. 64416
- 1 - #0 (2.5 mm) x 40 mm JCIS Phillips bit, Part No. 64421

Model CL-4000 & SS-4000 supplied with:

- 1 - #0 (2.0 mm) x 40 mm JCIS Phillips bit, Part No. 64416
- 1 - #1 (4.0 mm) x 40 mm JIS Phillips bit, Part No. 64422

Model A-4500 & A-5000:

- 1 - #1 (4.0mm) x 40 mm JIS Phillips bit, Part No. 64422
- 1 - #2 (4.0 mm) x 40 mm JIS Phillips bit, Part No. 64428

For Additional Bit Selections, See Pages 82-86.

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Power Supplies

Choose Your Power Supply	31
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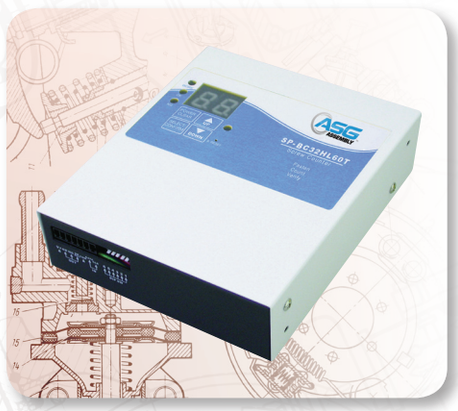
Dual Tool Control	36
Multiple Tool Control	37
Robotic or Machine Application	38
Automatically Reversing Tool Control	38



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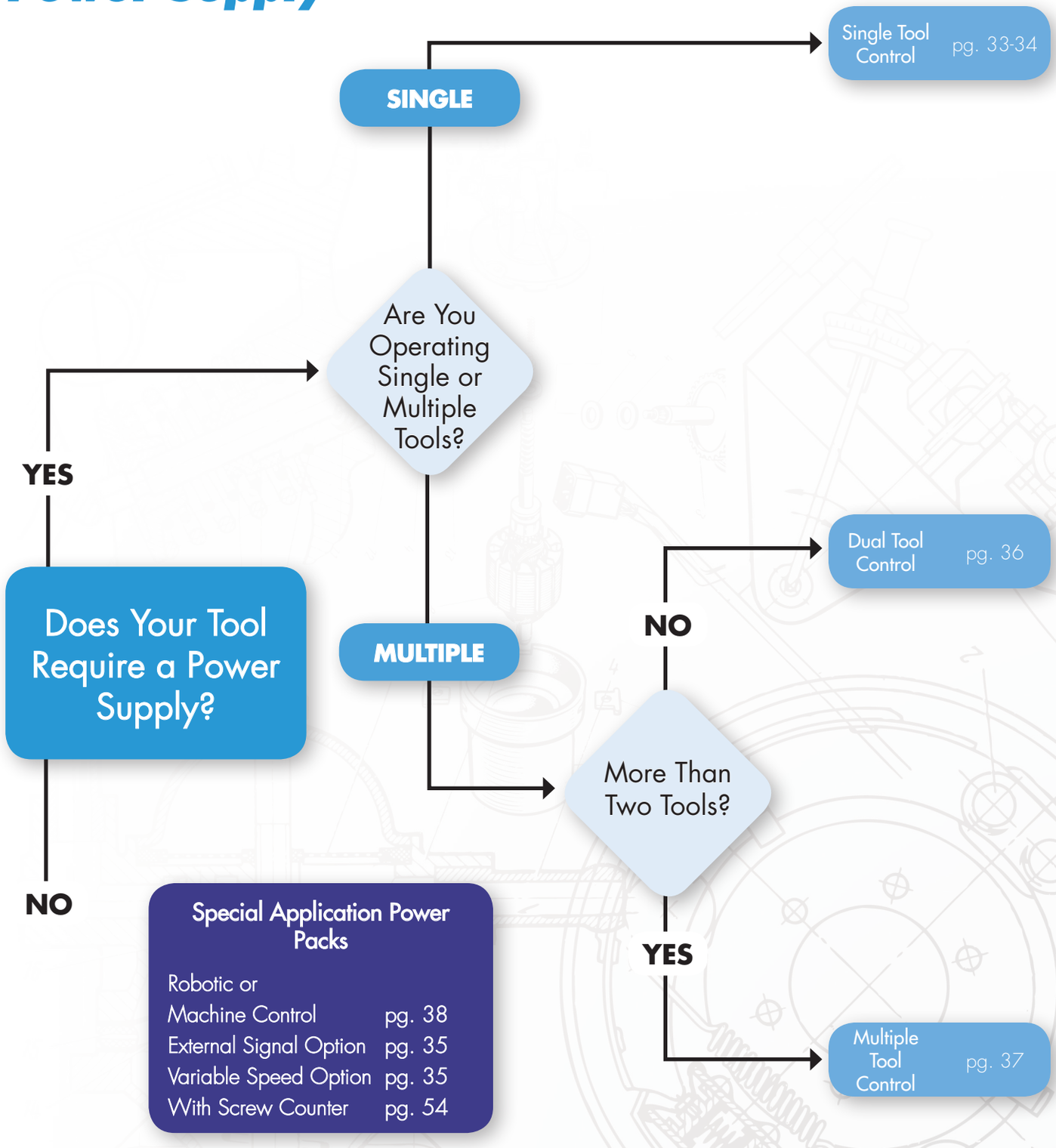
Choose Your Power Supply



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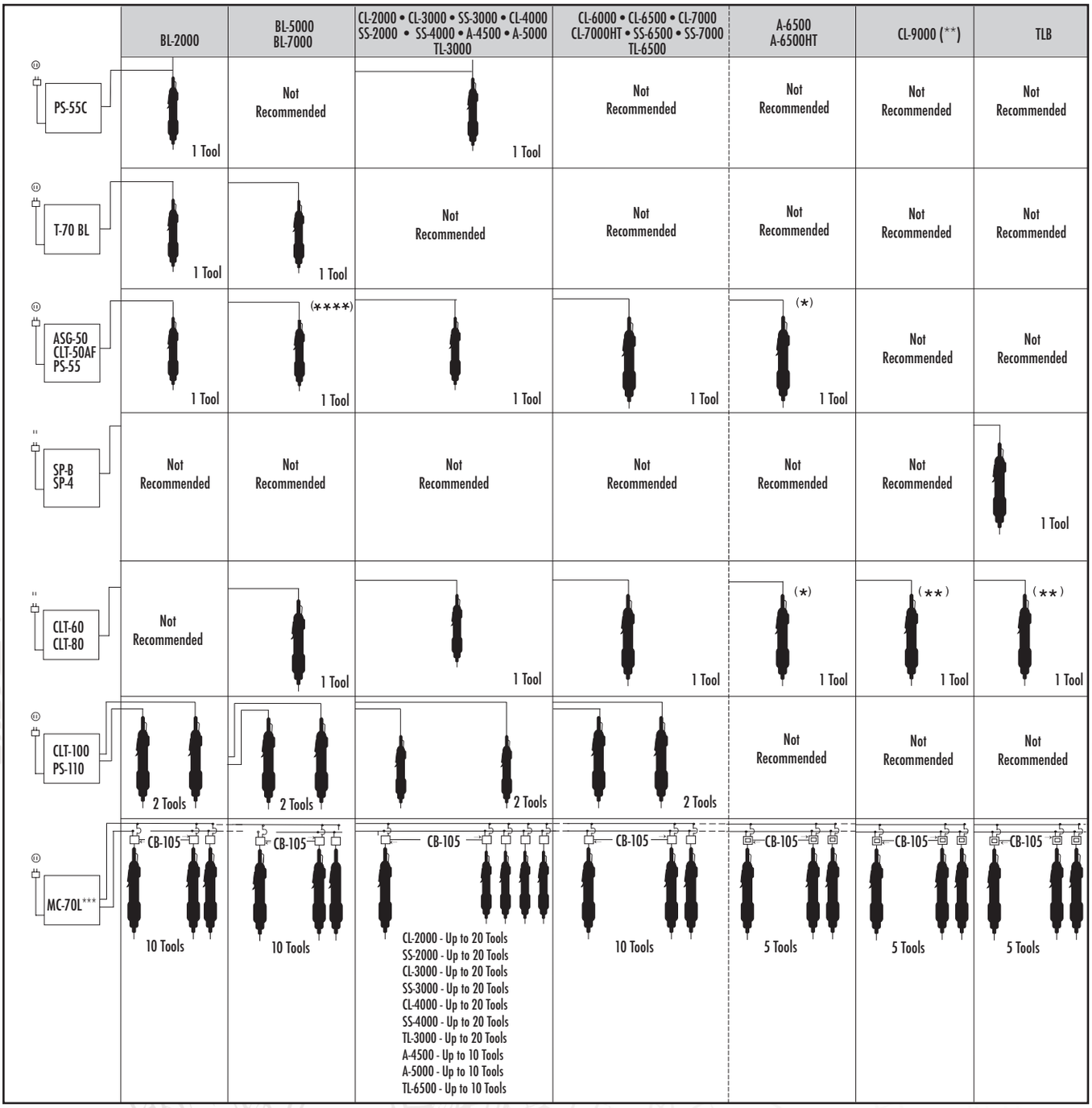
Single & Multiple Tool Power Supply/Tool Combinations



(*) ASG-50 & PS-55 may be used for the A-6500 if torque is to be less than 10 lbf · in.
(**) CL-9000 can only be used with CLT-80 or MC-70L and CB-105 combination.
(***) Cord length of MC-70L is 65.5' from power source.
(****) CLT-Series may be used for the BL-Series, however full performance may not be achieved.

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Single Tool Control

T-70 BL pictured

- UL Listed
- Operates BL-Series drivers
- Two-speed option

T-70 BL

- Use with BL-Series. Not directly compatible with CL, A, and SS-series drivers
- "Switching" power supply; smaller physical size and more efficient operation
- Switchable output voltage provides two-speed option for drivers

ASG-50 pictured

- UL Listed
- Operates most ASG electric drivers
- Two-speed option

ASG-50

- Use with CL-Series, TL-Series, SS-Series A-4500 & A-5000 (Not for use with A-6500, A-6500HT, CL-7000HT & CL-9000)
- Fused input voltage, circuit breaker protection on output voltage
- Switchable output voltage provides two-speed option for drivers

PS-55 pictured

- Value-engineered to be highly affordable
- Switchable two-speed output
- Delivers over 30 VDC

PS-55

- Use with CL, TL, SS, BL or A-Series (Not suitable for use with A-6500 & A-6500HT, CL-7000HT, BL-7000 & BL-7000HT, CL-9000
- Standard clutch signal output: can be used with counters or PLC's
- Switchable output 110/230v
- Circuit Breaker protected
- Optional Signal Cable available, Part # 65705

PS-55C pictured

- Compact, lightweight
- Switchable two-speed output

PS-55C

- Combines above features of PS-55 in a compact size
- Use with CL-2000, 3000, 4000; TL-3000; SS-3000, 4000; BL-2000
- Comes with hanging bracket
- Circuit Breaker protected

CLT-60 pictured

- Covers the capability of CLT-50 & CLT-65
- Operates most ASG electric drivers
- Two-speed option
- Replaces model CLT-65

CLT-60

- Use with CL-Series, TL-Series, BL-Series & A-Series (Not for use with CL-9000)
- "Switching" power supply; smaller physical size and more efficient operation
- Fused input voltage, circuit breaker protected output voltage
- Switchable output voltage gives two-speed option on drivers

- UL listed
- Operates CL-9000 driver

CLT-80

NEW!

- The CLT-80 is used to power one CL-9000
- 110-240 VAC

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Single Tool Control - Value Engineered

SP-BC32HL60T/C with integrated Error-Proofing pictured

- **Powerful, yet affordable**
- **Operates TLB-Series**
- **CE/UL certified**
- **RoHs and ELT approved**

NEW!

Part No.	Model No.	Max. No. Drivers	Circuit Controller	Safety	Approx. Output	Input	Size	Weight
68630	SP-B40S500T/C	1	Internal	8A (output)	40V	100V - 240V	8.3" (w) x 4.6" (D)	4 lbs
68631	SP-B32HL62T/C	1	Internal	8A (output)	20V/32V	100V - 240V	6.3" (w) x 2.2" (D)	1 lbs
68632	SP-BC32HL60T/C	1	Internal	8A (output)	20V/32V	100V - 240V	5.9" (w) x 1.9" (D)	2.1 lbs

SP-B40S500T/C

For use with:

- TLB-D630L
- TLB-D650L
- TLB-D630P
- TLB-D650P
- TLB-A975L
- TLB-A975P
- TLB-A9100L
- TLB-A9100P
- TLB-A975LW
- TLB-A975PW
- TLB-A9100LW
- TLB-A9100PW
- TLB-A9150LDW
- TLB-T9150LD

SP-B32HL62T/C

For use with:

- TLB-D412L
- TLB-D412P

SP-BC32HL60T/C

For use with:

- TLB-C210L
- TLB-C412L
- TLB-C412P

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Special Application Power Supplies

CLT-50-AF pictured

- **External signal option**
- **Provides a dry contact/relay closure when clutch activates**

CLT-50AF

- Combines features of CLT-50 with the option to provide an external signal that the driver has reached torque and shut-off
- Can be used with counters and PLC's to monitor driver
- Not for use with ASG Process Monitor devices

- **Variable speed slow start**

*NOTE: The torque limiting feature is no longer active when less than 16 volts are output by power pack. At low speeds "stalling" may occur.
This can be remedied by slightly increasing the dial setting. At lower voltages, full performance of driver may not be achievable.

PS-55-SS

- Combines features of PS-55 with variable output voltage
- Can be set to start at slow rpm (with slow rotation speed) first and then come back to normal (high) rpm after a specific time
- Stepless speed adjustment 70-100%
- Soft start adjustable time (max. 4 seconds)

Power Supply With Screw Counter Available. See Page 54.

SINGLE TOOL CONTROL POWER SUPPLY SPECIFICATIONS

Part No.	Model No.	Max.	Max No. Drivers	Circuit Controller	Safety	Approx. Output	Input	Size	Weight
65950	ASG-50	2.5 amp	1-CL, SS, TL or A-Series	Built-in	3A Fuse (Input) 4A Breaker (Output)	20-30 VDC	110/120 VAC	4"(W) x 7.5"(D) x 4"(H)	6 lb.
64170	CLT-50-AF	2.5 amp	1-CL, SS, TL, A-4500 or A-5000	Built-in	2A Fuse (Input) 4A Breaker (Output)	20-30 VDC	110/120 VAC	4"(W) x 7.5"(D) x 4"(H)	6 lb.
65520	CLT-60	3.5 amp	1-CL, SS, TL or A-Series	Built-in	5A Fuse Internal (Input) 4A Breaker (Output)	20-30 VDC	110/120 VAC	3.5"(W) x 8.3"(D) x 2"(H)	1.8 lb.
65526	CLT-80	8.0 amp	1-CL-9000	Built-in	5A Fuse Internal (Input) 5A Breaker (Output)	30 VDC	100 - 240 VAC	4.5"(W) x 8.5"(D) x 2"(H)	3.5 lb.
64273	T-70 BL	4.5 amp	1-BL	Built-in	3A Fuse (Input)	21-30 VDC	100 - 240 VAC	4"(W) x 5.5"(D) x 2"(H)	2.1 lb
65700	PS-55	2.5 amp	1-TL, CL, SS BL, or A-Series	Built-in	2A Fuse (Input) 3A Breaker (Output)	20-30 VDC	110/120 or 220/ 240 VAC	3.5"(W) x 4"(D) x 7.1"(H)	6.5 lb.
65706	PS-55-SS	2.5 amp	1-TL, CL, SS BL, or A-Series	Built-in	2A Fuse (Input) 3A Breaker (Output)	20-30 VDC	110/120 or 220/240 VAC	3.5"(W) x 7.1"(D) x 4"(H)	6.5 lb.
65703	PS-55C	1.5 amp	1-BL-2000, CL-2000, CL-3000, CL-4000, SS-3000, SS-4000, TL-3000	Built-in	2A Fuse (Input) 3A Breaker (Output)	20-30 VDC	110/120	3"(W) x 4.9"(D) x 2.3"(H)	2.1 lb.

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Dual Tool Control

CLT-100 pictured

- **Operates two drivers**
- **Operates most ASG DC electric drivers**
- **Input/output protection**
- **Two speed option**

CLT-100

- Can operate two drivers
- Use with CL-Series, TL-Series, SS-Series, A-4500 & A-5000
- Not for use with A-6500, A-6500HT and CL-7000HT
- Fused input voltage, circuit breaker protection on output voltage
- Switchable output voltage gives two-speed option on drivers
- Use where space is limited
- 220/240V unit available

PS-110 pictured

- **Value-engineered to be highly affordable**
- **Operates two drivers**
- **Operates most ASG DC electric drivers**

PS-110

- Same high performance features as the Model PS-55 Single Control except no clutch output signal
- Use with CL-Series, TL-Series, SS-Series. A-Series & BL-Series
- May not be suitable for A-6500, A-6500HT, BL-7000 and BL-7000HT
- Not for use with CL-9000

DUAL TOOL CONTROL POWER PACK SPECIFICATIONS

Part No.	Model No.	Max.	Max. No. Drivers	Circuit Controller	Safety	Approx. Output	Input	Size	Weight
64174	CLT-100	3.5 amp	2-CL, SS or A-Series	Built-in	2A Fuse (Input) 4A Breaker (Output)	20-30 VDC	110/120 VAC	7 1/2"(W) x 5 1/2"(D) x 5 1/2"(H)	8.8 lb.
65702	PS-110	2.5 amp	2-TL, CL, SS A, or BL-Series	Built-in	2A Fuse (Input) 3A Breaker (Output)	20-30 VDC	110/120 VAC	4"(W) x 7 1/2"(D) x3 1/2"(H)	6.75 lb.

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Multiple Tool Control

MC-70L pictured

- **Operates up to 20 drivers**
- **Operates all ASG DC electric drivers**
- **Input/output protection**
- **Two-speed option**
- **Uses individual control box**

MC-70L

- Can operate up to 20 ASG DC electric drivers at the same time
- Fused input voltage, circuit breaker protection on output voltage
- Switchable output voltage gives two-speed option on drivers
- Use for dedicated line applications
- Requires one CB-105 per driver (See below)
- Accommodates up to 10 CB-105's as supplied. Order part #66035 LED Kit to accommodate 10 additional CB-105's.
- See chart shown on page 32
- 220/240V unit available

MULTIPLE TOOL CONTROL POWER PACK SPECIFICATIONS

Part No.	Model No.	Max	Max. No. Drivers	Circuit Controller	Safety	Approx. Output.	Input	Size	Weight
64164	MC-70L	15 amp	See chart on page 27	CB-105	5A Fuse (Input) 10A Breaker (Output)	20-30 VDC	120 VAC	13"(W) x 9"(D) x 5 1/2"(H)	26.4 lb.

CB-105 pictured

- **Individual control box**
- **Operates all ASG DC electric drivers**
- **Output protection**

CB-105

- Can operate all ASG DC electric drivers
- Circuit breaker protection on output voltage
- Use with MC-70L
- Lets you custom design a power pack*
- A = the amp draw of the tool (found in the specifications), N.T. = the number of tools you will be using.
- You may choose any voltage from 20 VDC to 30 VDC. You may use the CB-105 to control the tool. Caution! The control box will not function below 20 VDC and you will shorten the life of the driver by supplying more than 30 VDC.

*To build your own power pack use the formula A x .6 x N.T. to determine how many amps to supply.

CB-10-SS pictured

- **Slow start option**
- **Variable setting**

CB-10-SS

- Can provide slow "ramp up" to full speed
- Use with CLT-type or PS-power pack to allow drivers to start at slower speeds in critical applications

Note: Since electric drivers tend to run slower than pneumatic tools, this option is not used often.

CB-SERIES SPECIFICATIONS

** Control box leads can be adapted for direct plug-in to the model, ASG-50 and PS-55.
*** Lead on CB-105 not modified for CLT.

Robotic or Machine Application Control

CLT-AY-61 pictured

CLT-AY-81 pictured

- **Remote control of driver**
- **Completion signal provided**
- **Speed selectable**
- **Remote reversible**
- **Heavy duty power packs**

CLT-AY-Series

- CLT-AY61 Series used with all CLF-Series drivers. Start driver with signal from PLC or machine controls
- CLT-AY61-2WV power pack allows programmable two-speed operation
- CLT-AY61-REV power pack allows programmable reverse
- CLT-AY81-Series used with all CL-800 series drivers. Start driver with signal from PLC or machine controls
- CLT-AY81-2WV power pack allows programmable two-speed
- CLT-AY81-REV power pack allows programmable reverse
- 220V available

CLT-AY SERIES SPECIFICATIONS

Part No.	Model No.	Description	Max	Max. No. Drivers	Control Box	Safety	Output	Input	Size	Weight (lbs)
64198	CLT-AY61	Standard	6.3 amp	1**	Built-in	2A Fuse (Input) 4A Breaker (Output)	17-30* VDC	120 VAC	71/2"(W) x 51/2"(D) x 5"(H)	8.8
64191	CLT-AY61-2WV	Two-Speed*	6.3 amp	1**	Built-in	2A Fuse (Input) 4A Breaker (Output)	17-30* VDC	120 VAC	71/2"(W) x 51/2"(D) x 5"(H)	8.8
64190	CLT-AY61-REV	Reversible	6.3 amp	1**	Built-in	2A Fuse (Input) 4A Breaker (Output)	17-30* VDC	120 VAC	71/2"(W) x 51/2"(D) x 5"(H)	8.8
64199	CLT-AY81	Standard	10† amp	1**	Built-in	5A Fuse (Input) 10A Breaker (Output)	17-30* VDC	120 VAC	13"(W) x 9"(D) x 51/2"(H)	26.4
64258	CLT-AY81-2WV	Two-Speed*	10 amp†	1**	Built-in	5A Fuse (Input) 10A Breaker (Output)	17-30* VDC	120 VAC	13"(W) x 9"(D) x 51/2"(H)	26.4
64193	CLT-AY81-REV	Reversible	10 amp†	1**	Built-in	5A Fuse (Input) 10A Breaker (Output)	17-30* VDC	120 VAC	13"(W) x 9"(D) x 51/2"(H)	26.4

* 2 speed units (Part Nos. 64191 & 64258) allow lower programmable voltage.
** Units available for multiple drivers. Contact ASG.
† Discontinued - Limited stock available.

Automatically Reversing Tool Control

SBT-50 pictured

- **Reverses driver at preset torque**
- **Input/output protection**
- **Two-speed option**

SBT-50

- Use with SB or CL-Series drivers
- Fused input voltage, circuit breaker protection on output voltage
- Switchable output voltage gives two-speed options on drivers
- 220V available

SBT-50 SPECIFICATIONS

Part No.	Model No.	Max	Max. No. Drivers	Control Box	Safety	Output	Input	Size	Weight (lbs)
64166	SBT-50	2.5 amps	1-SB	Built-in	2A Fuse (Input) 4A Breaker (Output)	20-30-VDC	120 VAC	4"(W) x 7 1/2"(D) x 4"(H)	6 lb.

Phone (888)486-6163 Fax (216)481-4519 www.asg-jergens.com

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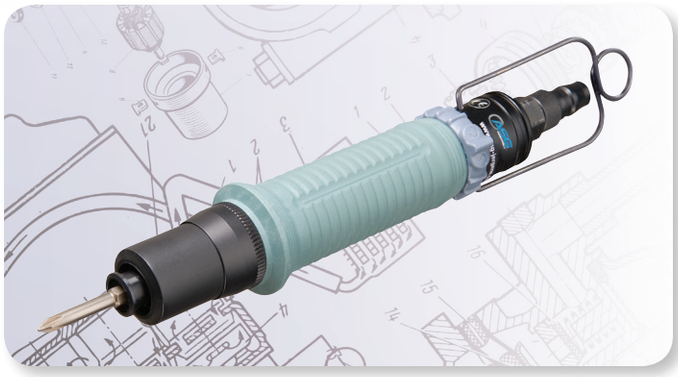
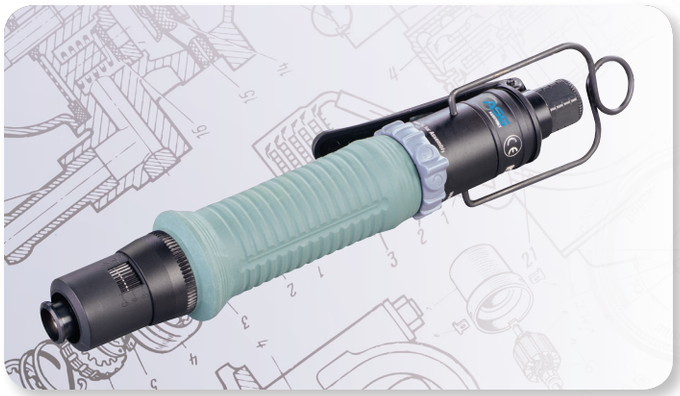
Pneumatic Tools





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Pneumatic Tools

On-the-Job Performance with ASG Pneumatic Tools

ASG HA65 Right Angle tool being used to secure product in pull testing fixture

ASG HPB65 tightening fixture on CNC machine

ASG HP65 Push-to-Start tool assembling pneumatic parts

For a Complete Selection of Pneumatic Tools, Visit www.asgindustrial.com

Precision Pneumatic Screwdrivers

Stop Automatically When Torque is Reached

- Unique ergonomic design provides both operator comfort and extra gripping power; sculpted thermoplastic elastomer housing delivers non-fatigue, balanced performance.
- Patented clutch design stops tool when designated torque is achieved. Drivers rotate in both clockwise and counter-clockwise directions; automatic torque shut-off does not operate in reverse. Tool delivers full torque in reverse.
- Anti-tamper torque cover is standard; can be set to allow operator to modify torques if desired.
- Quick change collet – operator needs no tools to change bits.
- Plastic color-coded torque recognition system – comes with all drivers.*

*HBP65 and HBP68 supplied with black aluminum torque cover standard: HA and HAW Series uses color-coded band near lever.

Tools with Other Torques and Speeds are Available.
Call Us for Details: 888-486-6163

ASG Can Certify and Provide a Certificate of Calibration Upon Request.

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Auto Stop Precision Screwdrivers

68208 pictured

Push-to-Start

- 1 - 90 lbf•in
- 1/4" hex drive
- Reversible; delivers full torque in reverse

- Unique ergonomic thermoplastic design for comfort and gripping power
- Anti-tamper torque cover standard

PUSH-TO-START SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Dia. (in)	Wt. (oz)	Air Inlet	Min. Hose I.D. (in)	Air Consumption	Noise Level ±2dBA
68201	HP20	1000	1-6 lbf•in .11-.68 N•m	7	1-1/4	17	1/4" NPTF	3/16	7 CFM	70
68204	HP40	1000	5-24 lbf•in .56-2.7 N•m	7	1-1/4	17	1/4" NPTF	3/16	9.9 CFM	74
68208	HP55	1000	10-50 lbf•in 1.1-5.8 N•m	8-1/2	1-1/2	28	1/4" NPTF	5/16	20 CFM	78
68210	HP65	300	30-90 lbf•in 3.4-10.2 N•m	8-1/2	1-1/2	29	1/4" NPTF	5/16	21 CFM	78

Standard drive is 1/4" hex. RPM and torque specifications based upon having air at a pressure of 85 psi at the tool.

68241 pictured

Lever Start

- 1 - 90 lbf•in
- 1/4" hex drive
- Reversible; delivers full torque in reverse

- Unique ergonomic thermoplastic design for comfort and gripping power
- Anti-tamper torque cover standard

LEVER START SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Dia. (in)	Wt. (oz)	Air Inlet	Min. Hose I.D. (in)	Air Consumption	Noise Level ±2dBA
68241	HL20	1000	1-6 lbf•in .11-.68 N•m	8-1/4	1-1/4	17	1/4" NPTF	3/16	7 CFM	70
68244	HL40	1000	5-24 lbf•in .56-2.7 N•m	8-1/4	1-1/4	17	1/4" NPTF	3/16	9.9 CFM	74
68248	HL55	1000	10-50 lbf•in 1.1-5.8 N•m	9-3/4	1-1/2	28	1/4" NPTF	5/16	20 CFM	78
68250	HL65	300	30-90 lbf•in 3.4-10.2 N•m	9-3/4	1-1/2	29	1/4" NPTF	5/16	21 CFM	78

Standard drive is 1/4" hex. RPM and torque specifications based upon having air at a pressure of 85 psi at the tool.

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Pistol Grip

- **3-90 lbf•in**
- **1/4" hex drive**
- **Reversible; delivers full torque in reverse**
- Unique ergonomic thermoplastic design for comfort and gripping power
- Anti-tamper torque cover standard

68306 pictured

PISTOL GRIP SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Height (in)	Dia. (in)	Wt. (oz)	Air Inlet	Min. Hose I.D. (in)	Air Consumption	Noise Level ±2dBA
68301	HBP38	1800	3-18 lbf•in .34-2.1 N•m	7	6.3	1-3/8	22.6	1/4" NPTF	3/16	9.9 CFM	74
68303	HBP47	550	9-40 lbf•in 1.0-4.5 N•m	7	6.3	1-3/8	26	1/4" NPTF	3/16	9.9 CFM	78
68306	HBP55	1000	10-50 lbf•in 1.1-5.8 N•m	8-1/4	6.7	1-1/2	33.5	1/4" NPTF	5/16	20 CFM	78
68308	HBP65	300	30-90 lbf•in 3.4-10.2 N•m	8-1/4	6.7	1-1/2	39	1/4" NPTF	5/16	20 CFM	78

Standard drive is 1/4" hex. RPM and torque specifications based on having air at a pressure of 85 psi at the tool.

Right Angle

- **1-90 lbf•in**
- **1/4" hex drive**
- **Reversible; delivers full torque in reverse**
- Unique ergonomic thermoplastic design for comfort and gripping power
- Anti-tamper torque cover standard

68269 pictured

1/4" HEX DRIVE SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Dia. (in)	Wt. (oz)	Air Inlet	Min. Hose I.D. (in)	Air Consumption	Noise Level ±2dBA
68263	HA35	2200	1-7.5 lbf•in 0.01-1.7 N•m	10-3/4	1-1/4	17	1/4" NPTF	3/16	9.9 CFM	74
68266	HA48	1800	5-35 lbf•in .56-4.0 N•m	13-1/4	1-1/2	28	1/4" NPTF	1/4	20 CFM	78
68269	HA60	550	15-80 lbf•in 1.7-9.0 N•m	13-1/4	1-1/2	28	1/4" NPTF	5/16	20 CFM	78
68270	HA65	300	30-90 lbf•in 3.4-10.2 N•m	13-1/4	1-1/2	29	1/4" NPTF	5/16	21 CFM	78

RPM and torque specifications based upon having air at a pressure of 85 psi at the tool.

SQUARE DRIVE SPECIFICATIONS

Part No.	Model No.	Square Drive (in)	RPM Free Speed	Torque (lbf•in)	Length (in)	Dia. (in)	Wt. (oz)	Air Inlet	Min. Hose I.D. (in)	Air Consumption	Noise Level ±2dBA
68283	HAW35	1/4	2200	1-15	10-3/4	1-1/4	17	1/4" NPTF	3/16	9.9 CFM	74
68286	HAW48	3/8	1800	5-35	13-1/4	1-1/2	28	1/4" NPTF	1/4	20 CFM	78
68289	HAW60	3/8	550	15-80	13-1/4	1-1/2	28	1/4" NPTF	5/16	20 CFM	78
68290	HAW65	3/8	300	30-90	13-1/4	1-1/2	29	1/4" NPTF	5/16	21 CFM	78

RPM and torque specifications based upon having air at a pressure of 85 psi at the tool.

Non Auto Shut Off Pneumatic Screwdrivers

- Unique ergonomic design provides both operator comfort and extra gripping power; sculpted thermoplastic elastomer housing delivers non-fatigue, balanced performance
- Quick change collet – operator needs no tools to change bits
- Good torque repeatability at an economical price

Tools with Other Torques and Speeds are Available.
Call Us for Details: 888-486-6163

68340 pictured

Cushion Clutch

- .4 - 79.7 lbf•in
- 1/4" hex drive
- Patented low vibration clutch
- Reversible

CUSHION CLUTCH SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Height (in)	Dia. (in)	Wt. (oz)	Min. Hose I.D. (in)	Air Consumption
68340	HCP39	1600	4.4-35.4 lbf•in 0.5-4.0 N•m 5.0-40 kfg•cm	5.25	6.3	1-3/8	21	3/16"	10 CFM
68342	HCP48	1700	8.9-53 lbf•in 1.0-6.0 N•m 10-60 kfg•cm	6.5	6.7	1-1/2	30	5/16"	19 CFM
68343	HCP58	750	8.9-79.7 lbf•in 1.0-9.0 N•m 10-90 kfg•cm	6.5	6.7	1-1/2	30	5/16"	19 CFM

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Positive Clutch

- 7.5 - 115 lbf•in
- 1/4" hex drive
- Reversible

68360 pictured

POSITIVE CLUTCH SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Height (in)	Dia. (in)	Wt. (oz)	Min. Hose I.D. (in)	Air Consumption
68360	HPS39	1600	7.5-44 lbf•in .85-5 N•m 8.5-50 kgf•cm	5.5	6.3	1-3/8	18	3/16"	10 CFM
68362	HPS48	1700	10.6-62 lbf•in 1.2-7 N•m 12-70 kgf•cm	6.75	6.7	1-1/2	26	5/16"	19 CFM
68363	HPS58	750	19.5-115 lbf•in 2.2-13 N•m 22-130 kgf•cm	6.75	6.7	1-1/2	26	5/16"	19 CFM

Direct Drive

- 7.5 - 115 lbf•in
- 1/4" hex drive
- Reversible

68370 pictured

DIRECT DRIVE SPECIFICATIONS

Part No.	Model No.	RPM Free Speed	Torque	Length (in)	Height (in)	Dia. (in)	Wt. (oz)	Min. Hose I.D. (in)	Air Consumption
68370	HDP39	1600	7.5-44 lbf•in .85-5 N•m 8.5-50 kgf•m	5.25	6.3	1-3/8	18	3/16"	10 CFM
68372	HDP48	1700	10.6-62 lbf•in 1.2-7 N•m 12-70 kgf•m	6.5	6.7	1-1/2	26	5/16"	19 CFM
68373	HDP58	750	19.5-115 lbf•in 2.2-13 N•m 22-130 kgf•m	6.5	6.7	1-1/2	16	5/16"	19 CFM

*NOTE All tools have 1/4" NPFT air inlet. The torque and speed is based upon an operating pressure of 85 psi.

For Available Accessories, See Page 93.

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Process Verification

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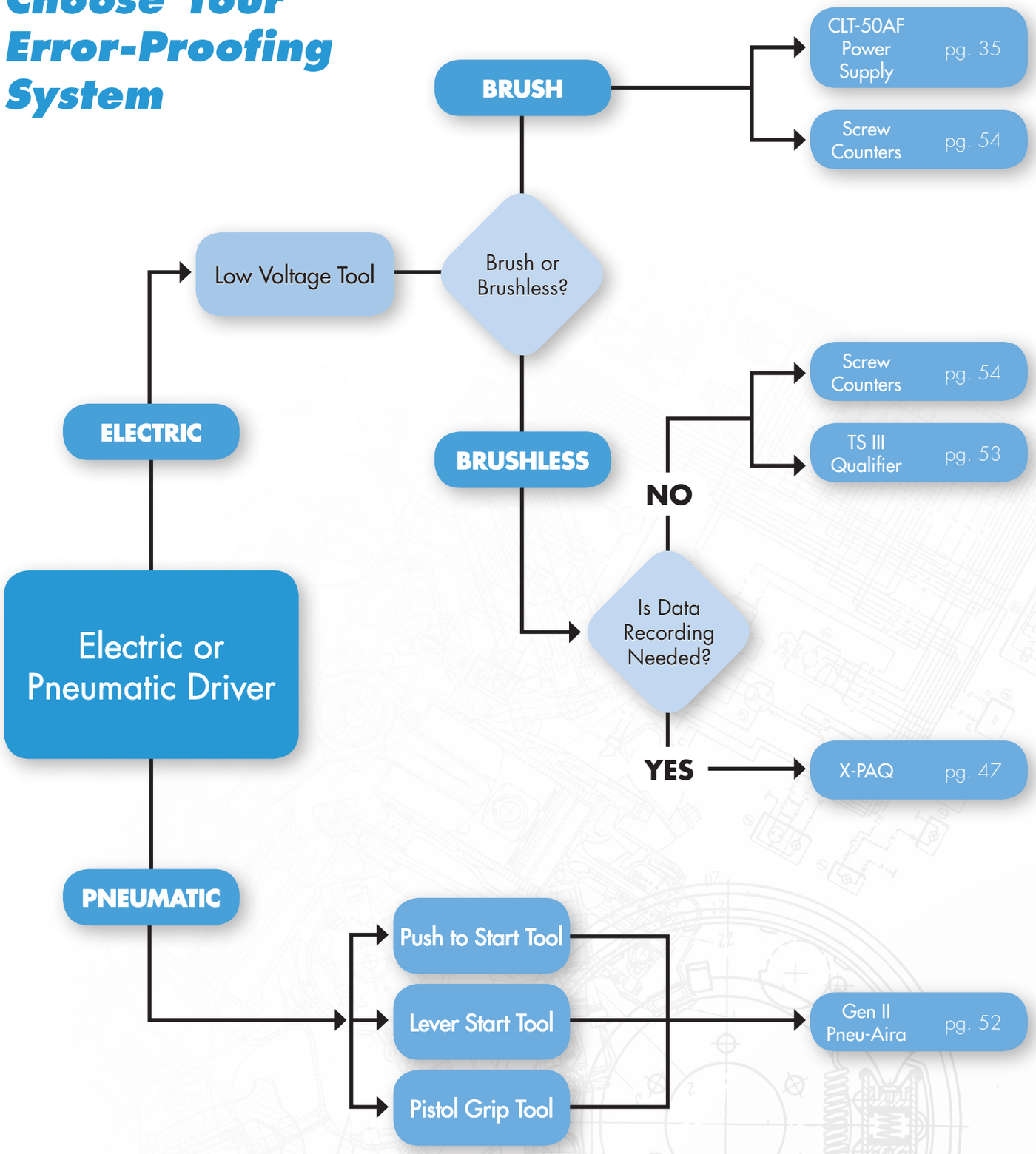
Choose Your Error-Proofing System



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Identify Problems, Don't Ship Mistakes

Ever experience problems like:

- **Cross-threaded fasteners?**
- **Stripped threads?**
- **Missing fasteners?**
- **Missing elements such as washers?**

The ASG Error-proofing Systems will identify these problems and help you keep from shipping mistakes.

You can interface with line controls and network the ASG Error-proofing systems.

Why pay for more than you need? The ASG Error-Proofing systems offer very cost effective solutions.

X-PAQ Controller

- Used With SD2500 Series Transducerized Screwdriver

Page 49

TS-III Electric Driver Monitors

- Used with ASG BL, CL, A, SS and TL-Series tools

Page 53

GEN-II Pneu-Aira™ Error Proofing System

- Used with ASG Pneumatic Push-to-Start and Lever/Trigger screwdrivers and Shut-off Pulse tools

Page 52

ASG Cycle Counter

- Used as an option to PS-55 Power Supply
- Use with ASG CL, A, TL-Series and SS-Series tools

Page 54

CLT-70STC3 Power Supply with Screw Counter Built-In

- Use with ASG CL, A, TL-Series and SS-Series tools

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NEW!

ASG's Newest

- Available network interface for advanced data storage and interfacing with plant controls
- Torque control with angle monitoring
- Angle control with torque monitoring
- Programmable I/O for Process Control
- 6 "Quick Tap" task keys for multiple assembly set-ups
- 8 available parameters within each task
- Data collection, and run down graphing
- Contact your ASG representative for additional features

- Precise, accurate torque and angle control fastening

X-PAQ™ PRECISION | ACCURACY | QUALITY Fastening Systems

SD2500 Series Tool Systems

ASG Model Number	Tool: Max Torque in-lb (Nm)	Tool: RPM	Tool: Type	Cable	Controller
ASG-SD2500-10PL-SY	10 (1.1)	1700	Push/Lever Start Combination	ASG-CB2500-10HW	ASG-CT2500
ASG-SD2500-20PL-SY	20 (2.3)	1100			
ASG-SD2500-35PL-SY	35 (3.9)	800			
ASG-SD2500-50PL-SY	50 (5.6)	500			
ASG-SD2500-10PS-SY	10 (1.1)	1700	Push to Start	ASG-CB2500-10HW	ASG-CT2500
ASG-SD2500-20PS-SY	20 (2.3)	1100			
ASG-SD2500-35PS-SY	35 (3.9)	800			
ASG-SD2500-50PS-SY	50 (5.6)	500			
ASG-SD2500-10FX-SY	10 (1.1)	1700	Fixture Mount	ASG-CB2500-10HW	ASG-CT2500
ASG-SD2500-20FX-SY	20 (2.3)	1100			
ASG-SD2500-35FX-SY	35 (3.9)	800			
ASG-SD2500-50FX-SY	50 (5.6)	500			

For More Information Contact ASG or Visit www.asgprecisionfastening.com

Tools

SD2500 Series Tool Screwdrivers

ASG Model Number	Maximum Torque in-lb (Nm)	Speed RPM	Length in (mm)	Weight lb (kg)	Type
ASG-SD2500-10PL	10 (1.1)	1700	9.5 (240.3)	1.0 (0.46)	Push/ Lever Start Combination
ASG-SD2500-20PL	20 (2.3)	1100			
ASG-SD2500-35PL	35 (3.9)	800			
ASG-SD2500-50PL	50 (5.6)	500	9.7 (246.6)	1.1 (0.49)	
ASG-SD2500-10PS	10 (1.1)	1700	9.5 (240.3)	1.0 (0.46)	Push to Start
ASG-SD2500-20PS	20 (2.3)	1100			
ASG-SD2500-35PS	35 (3.9)	800			
ASG-SD2500-50PS	50 (5.6)	500	9.7 (246.6)	1.1 (0.49)	
ASG-SD2500-10FX	10 (1.1)	1700	9.5 (240.3)	1.0 (0.46)	Fixture Mount
ASG-SD2500-20FX	20 (2.3)	1100			
ASG-SD2500-35FX	35 (3.9)	800			
ASG-SD2500-50FX	50 (5.6)	500	9.7 (246.6)	1.1 (0.49)	

FX Model pictured

PS Model pictured

PL Model pictured

CT2500 with network module pictured

X-PAQ™ Controller

X-PAQ CONTROLLER

ASG Model Number	Description	Weight lb (kg)
ASG-CT2500	ASG-SD2500 Series Screwdriver Controller	8.3 (3.8)

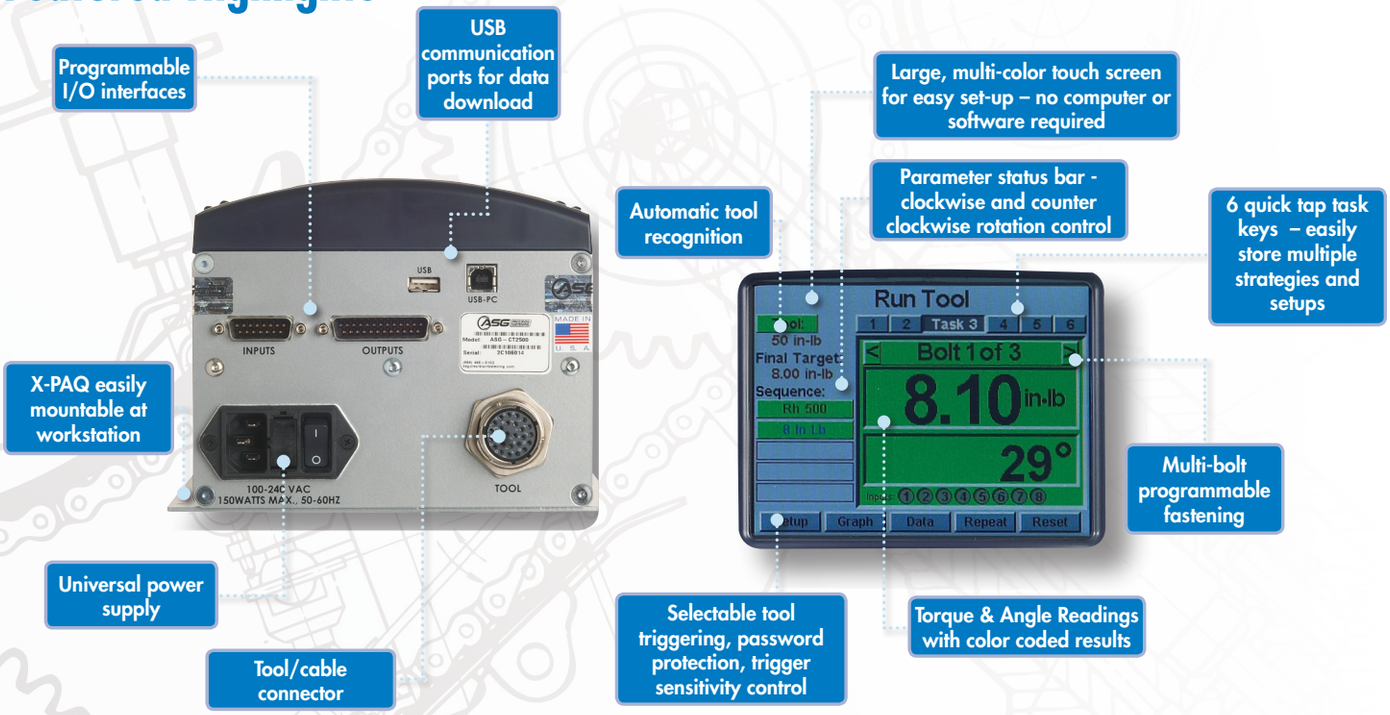
Networking

X-PAQ NETWORK MODULES

ASG Model Number	Description
ASG-NW2500-PFCS	PFCS-Chrysler
ASG-NW2500-ACOP	Open Protocol
ASG-NW2500-DN	DeviceNet
ASG-NW2500-EIP	Ethernet IP

For More Information Visit www.asgprecisionfastening.com

Featured Highlights



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X-PAQ™ Accessories

ASG-AC2500-FG and ASG-AC2500-FGNC pictured

SD2500 GRIPS

ASG Model Number	Description
ASG-AC2500-FG	Foam Grip (For tools equipped with throttle lever)
ASG-AC2500-FGNC	Foam Grip (For tools not equipped with throttle lever
ASG-AC2500-PG	Pistol Grip Attachment

ASG-AC2500-PG pictured
(pictured with tool)

MOUNTS

ASG Model Number	Description
ASG-AC2500-MPSF	Single Flange Mounting Plate (For FX model tools)
ASG-AC2500-MPDF	Double Flange Mounting Plate (For FX model tools)
ASG-AC2500-MPJR	Double Flange Mounting Plate (For FX model tools used with Janome Robot)
ASG-AC2500-SB	Replacement Suspension Bail (for SD2500 tools)
ASG-AC2500-TML	Tool Mount Coupling (For ASG Linear Torque Arms)
ASG-AC2500-TMA	Tool Mount Coupling (For ASG Articulating Torque Arms except 65012)
ASG-AC2500-CM	CT2500 Mounting Brackets (For ASG Tool Support Stands 65003/65006

ASG-AC2500-STxx
pictured

ASG-AC2500-TL
pictured

ASG-AC2500-SB
pictured

ASG-AC2500-MPSF
pictured

ASG-AC2500-MPDF
pictured

ASG-AC2500-TB
pictured

X-PAQ I/O ACCESSORIES/REPLACEMENT ITEMS

ASG Model Number	Description
ASG-AC2500-IC20	X-PAQ 15 Pin Input Cable - 20 ft
ASG-AC2500-OC20	X-PAQ 25 Pin Output Cable - 20 ft
ASG-AC2500-BT4	4 - Position X-PAQ Bit Tray (Includes 8 ft cable)
ASG-AC2500-BT6	6 - Position X-PAQ Bit Tray (Includes 8 ft cable)
ASG-AC2500-TL	Throttle Lever Kit (Includes Throttle Lever, Spring, and Pin)
ASG-AC2500-SB	Replacement Suspension Bail
ASG-AC2500-MPSF	Single Flange Mounting Plate (For FX model tools)
ASG-AC2500-MPDF	Double Flange Mounting Plate (For FX model tools)
ASG-AC2500-STxx	Signal Tower, 24V DC
ASG-AC2500-VP	Vacuum Pick Up Kit for FX Tools (Hand Held)
ASG-AC2500-VPM	Vacuum Pick Up Kit for FX Tools (Mounted)

ASG-AC2500-OC20 pictured

ASG-AC2500-BT4 pictured

For a Complete List of Accessories, Visit www.asgprecisionfastening.com

GEN-II Pneu-Aira™ Error Proofing System for Pneumatic Assembly Tools

GEN-II Pneu-Aira System pictured

- New advanced capability qualifier for pneumatic assembly tools
- The only system that will work with push-to-start auto shut off pneumatic screwdrivers, using ASG series "HPQ" series drivers, patent pending
- Easy set up and use
- Works with ASG auto shut off screwdrivers, right angle tools (See page 43) and pulse tools.
- Learns and monitors the entire assembly process
- Identifies errors when they occur for immediate correction
- Eight programmable parameters
- Includes automatic sequencing from parameter to parameter
- Compatible with PLC's and other line control devices
- Data storage
- Password/Keylock protected
- Remote display option available
- Remote light indicator standard
- PLC interface cable available
- Includes software (and cable & connector to PC) for graph plotting and remote programming available
- Network communication devices available
- Switchable input voltage 110/220VAC

STANDARD:

Remote Pressure Transducer with Accept/Reject/ Batch Complete Light pictured

ADDITIONAL OPTIONS

Part No.	Description
66560	PLC 10 Ft. Cable

GEN-II PNEU-AIRA SPECIFICATIONS

Part No.	Description	Supplied with Pneumatic Driver Model	Torque Range
66594	PTS Pneumatic Qualifier System	HPQ55	6-56 lbf•in 0.7-6.5 N•m 7-65 kgf•cm
66595	PTS Pneumatic Qualifier System	HPQ65	26-156 lbf•in 3.0-18 N•m 30-180 kgf•cm
66596	PTS Pneumatic Qualifier System	HPQ68	43.4-232.6 lbf•in 5.0-26.8 N•m 50-268 kgf•cm
66588	GEN-II Pneu-Aira unit without driver		

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TS-III Error Proofing Monitor for Electric Driver Monitors

TS-III shown with side mounted display. Inset shows top-mounted display.

- **For use with DC Electric Brush and Brushless Drivers**
- **Error-proofs your assembly process**
- **Monitors the complete assembly process**
- **Verification provided when proper installation of all fasteners is complete**
- **Automatic set-up**

TS-III Qualifier

- Visual fastener count
- Password/keylock protected
- Accept/Reject lights
- Audible reject alarm
- Eight programmable parameters
- Fault displayed on screen
- Programmable from keypad or available software
- Learns the assembly process
- Relay I/O
- Built-in power supply
- Works with ASG CL, A, SS, BL or TL-Series drivers (BL-Series requires 66519 tool modification)
- Complete TS-III Qualifier and driver packages available
- Auto Switchable input voltage 110/220V

Space saving remote display option pictured

TS-III QUALIFIER SPECIFICATIONS

Part No.	Model No.	Description
66581	TS-III Qualifier	Assembly Process Monitor for BL-Series Drivers
66580	TS-III Qualifier	Assembly Process Monitor for CL, A, SS and TL-Series Drivers
66556	High Current (10 Amp)TS-III Qualifier	For use with CL-9000 Drivers
66519	Tool Modification	For BL-Series Drivers

TS-III PACKAGES

Part No.	Description
66584	TS-III BL Qualifier with BL-2000 Driver and tool modification
66582	TS-III BL Qualifier with BL-5000 Driver and tool modification
66583	TS-III BL Qualifier with BL-7000 Driver and tool modification
66585	TS-III BL Qualifier with BL-7000 HT Driver and tool modification

Remote Light Indicator pictured

OPTIONAL ACCESSORIES

Part No.	Description
66555	Remote Display
66513	Remote Light Indicator
66537	Software
66538	RJ-II Cable
66539	RJ-II to RS232 Adaptor

Value-Engineered Model Available.
See Page 18.

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Screw Counters

Screw Counter STC-01 pictured

STC-01

- **Plugs directly into ASG PS-55 Power Supply.** *See page 33*
- **Not an error-proofer, but provides basic counting of fasteners**
- **Acts as a visual indicator for operator**

STC-01 SPECIFICATIONS

Part No.	Model No.
65645	STC-01

STC-01

- For use with CL, A, SS and TL Series

CLT-70STC3 pictured with CL-4000

CLT-70STC3

- **Power Supply with screw counter**
- **Counts number of times screw tightened from 1 to 99**

SPECIFICATIONS

Part No.	Model No.
65704	CLT-70STC3

CLT-70STC3

- For use with CL, A, SS and TL-Series
- Auto reset function
- Buzzer to indicate screw tightening complete
- Count timer function
- 220V available

Value-Engineered Model Available. See Page 18.

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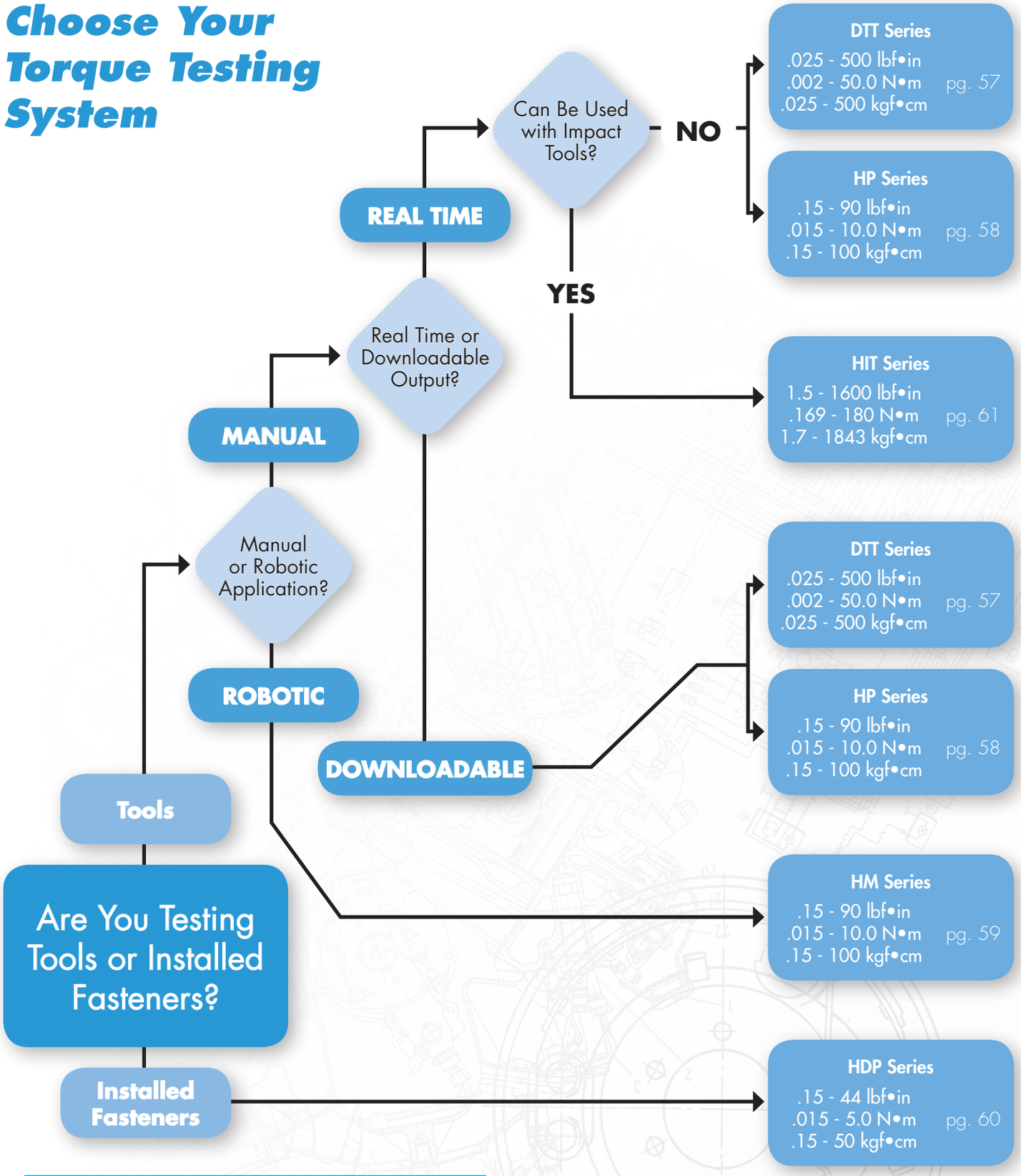
Choose Your Torque Testing System



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Torque Tester Commonly Asked Questions

How often should we check/calibrate the torque on our drivers?

Because each situation and application is different, it is up to you to determine when and how often to check the torque. You may decide to check the torque reading at every shift when first using the drivers. You might then increase the intervals between readings to every day; then to every week, or every month. At some point you will find the interval you are most comfortable with.

Why are some torque meters suitable for "shut-off" type tools and some are not?

- **Simply stated, torque is the tendency of a force to rotate an object about an axis. Just as force can be thought of as a push or a pull, torque can be thought of as a twist.**
- **Static torque is torque applied to a shaft or a fastener with no movement or rotation of the shaft or fastener. A good example of static torque is when deadweights are hung on the calibration arm on a torque meter. Torque is applied but the input shaft of the meter is not turning. As long as the weight is applied the torque is constant.**
- **Dynamic torque is torque monitored while the fastener is moving or in a dynamic state. A good example of dynamic torque is when the tool is run on a torque meter and a reading is achieved, but once the tool has shut off the torque applied by the tool is zero.**

For a torque meter to be effective for use with shut-off type tools it must be able to capture the "peak" torque, or the torque applied at the point where the tool shut off. A torque meter which operates mechanically can not possibly achieve this as it takes sensitive electronics to capture the "peak" reading at the moment the tool shuts off. ASG has the proper torque meter for your application.

What is the purpose of the adaptor supplied with my Torque Tester?

The adaptor is the washer / spring combo that fits between the tool and the tester itself (depending on model). The adaptor simulates tightening a screw and allows the tool / driver to reach its working condition. Each adaptor works / operates in a specific torque range. It is important that you have the adaptor that works in your torque range. Remember, when using a power tool the adaptor needs to be "unwound" prior to each test.

See Adaptors in the Accessories Section. Pages 94-95.

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Pictured is Model DTT Torque Tester with Model BL-7000 Driver. Insert photo shows DTT Tester exporting to PC.

DTT-Series Digital Torque Testers

- **Advanced features with rock solid construction**
- **Portable**
- **Easy to use**
- **Test all screwdrivers except impact clutches and pulse tools**
- **Test manual tools**
- **On-the-spot calibration**
- **Data output for SPC**

DTT-Series

- Simple output/download of data. Includes MEM-loader software and cables to output to a PC; easily exports to Excel® spreadsheet for reporting or further manipulation
- Store up to 200 readings in memory with time/date stamp
- Has 9 user-selectable torque units for flexibility
- Peak, First Peak, and Track measurement modes are user-selectable
- Auto Reset Mode can be selected by user. Facilitates use by avoiding manual resetting between readings
- Audible Go/No Go feature lets a user set a torque range. Unit beeps if reading is within limits selected
- Selectable decimal point
- Comes with certificate traceable to N.I.S.T.
- 220V available

±.2% **Better than ±.2% of full scale**

TORQUE ACCURACY DTT-Series

See Page 94 for DTT Accessories.

Optional Torquelink Software – Connect to a Windows® Based PC to Display the Torque Readings in Real Time. Performs Calculations Helpful for SPS. Export to Excel®. Reference Part No. 915572 for Upgrade or at Time of Purchase. Existing Units Must be Returned for Software Update.

DTT-SERIES SPECIFICATIONS

Part No.	Tester	Measurement Range	Supplied With Adaptor Part. No.	Size**	Unit Weight	User-Selectable Torque Units	Battery	Charging Time	Lifetime per Charge
66600	DTT-5	0.025 - 5 lbf•in 0.0025 - 0.5 N•m 0.025 - 5 kgf•cm	66620 66612*	7-1/8"x4-3/8"x2"	4 lb.	ozf•in, lbf•in, lbf•ft, gf•cm, kgf•cm, kgf•m, mN•m, cN•m, N•m	1.2V NiMH cell x 6	4-6 hrs	12 hrs at full charge
66601	DTT-10	0.050 - 10 lbf•in 0.005 - 1.1 N•m 0.057 - 11 kgf•cm	66620 66612*						
66604	DTT-100	0.500 -100.0 lbf•in 0.05 -11.3 N•m 0.576 - 115.2 kgf•cm	66612* 66618						
66605	DTT-200	1.000 - 200.0 lbf•in 0.112 - 22.6 N•m 1.152 - 230.4 kgf•cm	66612* 66618 66634						
66606	DTT-500	2.500 - 500.0 lbf•in 0.282 - 56.5 N•m 2.880 - 576.0 kgf•cm	66612* 66618 66642						

* 66612 is always supplied with the 66614 spring. When the 66612 is supplied with DTT-10, DTT-100, DTT-200, or DTT-500 the 66616 spring is included for higher torque applications.
* DTT-200 and DTT-500 supplied with built-in mounting plate 8 11/16" wide.

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HP-Series Digital Torque Testers

HP-100 pictured

- **Portable**
- **Test all screwdrivers except impact clutches and pulse tools**
- **Test manual tools**
- **On-the-spot calibration**
- **Max, Min & Avg Readings**
- **Mitutoyo data output for SPC**

HP-Series

- Analog or data signal in Mitutoyo format
- Optional adaptor and cable needed to connect to PC. *See page 95*
- Reads clockwise or counterclockwise with equal accuracy
- Max, Min and Avg given of last 10 readings
- Runs on rechargeable Ni-MH batteries
- Comes with certificate of calibration traceable to N.I.S.T.
- Comes complete with aluminum carrying case, rechargeable battery (installed), battery charger and driver adaptor. See page 95 for replacement battery chargers.
- 220V available

HP-SERIES SPECIFICATIONS

Part No.	Tester	Measurement Range	Supplied With Adaptor Part. No.	Size	Unit Weight	Read Out	Battery	Charging Time	Lifetime per Charge
64010	HP-10	0.15 - 9.00 lbf•in 0.015 - 1.000 N•m 0.15 - 10kgf•cm*	64049	9" x 4.75" x 3"	5.25 lb	Switchable lbf•in, or N•m	1.2V NiMH cell x 5	Up to 6 hrs	8 hrs
64011	HP-10	1.0 - 144.0 ozf•in 0.015 - 1.00 N•m	64049	9" x 4.75" x 3"	5.25 lb	Switchable ozf•in or N•m	1.2V NiMH cell x 5	Up to 6 hrs	8 hrs
64013	HP-100	1.5-90.00 lbf•in 0.15 -10.00 N•m 1.5 -100 kgf•cm*	64052	9" x 4.75" x 3"	5.25 lb	Switchable lbf•in, or N•m	1.2V NiMH cell x 5	Up to 6 hrs	8 hrs

* Units that read out in kgf•cm available as special order.

See Page 95 for HP Accessories.

Standard Carrying Case pictured

±.5% of Full Scale

TORQUE ACCURACY HP-Series

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Automated or Robotic Testers

HM-100 pictured

- **Test screwdrivers used in autofeeders, robots or built into assembly machines**
- **Separate transducer**
- **On-the-spot calibration**
- **Data output for SPC**

HM-Series

- Comes with certificate of calibration traceable to N.I.S.T.
- Easy calibration of driver without removing from machine
- Analog or data signal in Mitutoyo format
- Reads torque clockwise or counterclockwise with equal accuracy
- Runs on rechargeable NiCd batteries
- Comes complete with aluminum carrying case, rechargeable battery (installed), battery charger and driver adaptor. *See page 95 for replacement battery chargers.*
- 220V available

HM-SERIES SPECIFICATIONS

Part No.	Tester	Measurement Range	Supplied With Adaptor Part. No.	Size	Unit Weight	Read Out	Battery	Charging Time	Lifetime per Charge
64033	HM-10	0.15 - 9.00 lbf•in 0.015 - 1.000 N•m 0.15 - 10.00 kgf•cm	64044	5.7" x 6.6" x 3"	1.8 lb	Switchable lbf•in, kgf•cm or N•m	1.2V NiCd cell x 5	12 hrs	30 hrs at full charge
64034	HM-100	1.5 - 90.00 lbf•in 0.15 - 10.00 N•m 1.5 - 100.0 kgf•cm	64045	5.7" x 6.6" x 3"	1.8 lb	Switchable lbf•in, kgf•cm or N•m	1.2V NiCd cell x 5	12 hrs	30 hrs at full charge

±.5% of Full Scale

TORQUE ACCURACY HM-Series

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QC Auditing Testers

HDP-50 pictured

- **Measure removal torque of fasteners, bottle caps or other containers**
- **Measure shear strength**
- **Measure material strength**
- **Measure removal torque**
- **Calibrate tools**
- **100 reading memory**
- **Max, Min & Avg Readings**
- **Data output for SPC**

HDP-Series

- Comes with certificate of calibration traceable to N.I.S.T.
- Find the failure point for fasteners
- Find the failure point for the hole
- Audible warning tone can be set to warn operator when desired torque is approached
- Max, Min and Avg given of last 10 readings
- Analog or data signal in Mitutoyo format
- Optional adaptor and cable needed to connect to PC. *See page 95*
- Runs on rechargeable Ni-MH batteries
- Comes complete with aluminum carrying case, rechargeable battery (installed), and battery charger. See page 95 for replacement battery chargers.
- 220V available

HDP-SERIES SPECIFICATIONS

Part No.	Tester	Measurement Range	Size	Unit Weight	Read Out	Battery	Charging Time	Lifetime per Charge
64004	HDP-5*	0.15 - 4.40 lbf•in 0.015 - 0.500 N•m 0.15 - 5.00 kgf•cm*	4.9" x 3.8" x 1.5"	1.7 lb	Switchable lbf• in, or N•m	1.2V NiMH cell x 5	Up to 6 hrs	8 hrs
64003	HDP-50*	1.5 - 44 lbf•in 0.15 - 5.00 N•m 1.5 - 50.0 kgf•cm*	5.7" x 6.6" x 3"	1.7 lb	Switchable lbf• in, or N•m	1.2V NiMH cell x 5	Up to 6 hrs	8 hrs

* Units that read out in kgf•cm available as special order.

±.5% of Full Scale

TORQUE ACCURACY HDP-Series

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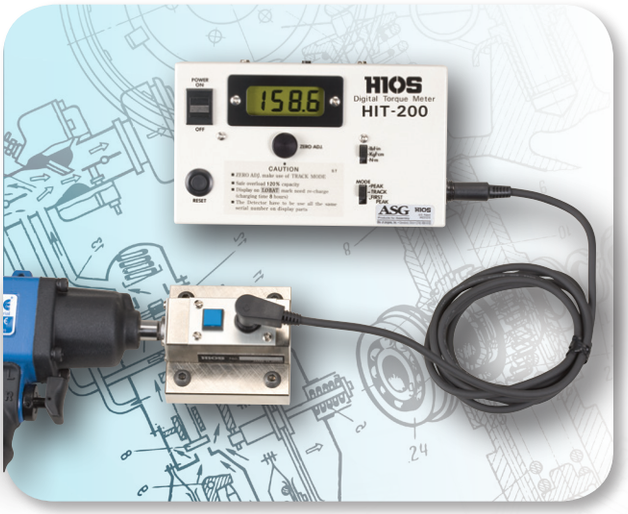
Impact Tool Testers



HIT-200 pictured

- **Measure torque of impact tools**
- **Portable use**
- **Data output for SPC**
- **Audible warning tone**

HIT-Series

- Heavy duty transducer can be used with impact drivers
- Comes with certificate of calibration traceable to N.I.S.T.
- Analog, or data signal in Mitutoyo format
- Reads torque clockwise or counterclockwise with equal accuracy
- Runs on rechargeable NiCd battery
- Comes complete with aluminum carrying case, rechargeable battery (installed), and battery charger
  See page 95 for replacement battery chargers
- 220V available

HIT-SERIES SPECIFICATIONS

Part No.	Tester	Measurement Range	Sq. Dr.	Size	Unit Weight	Read Out	Battery	Charging Time	Lifetime per Charge
64030	HIT-200	1.5 - 160 lbf•in 0.15-18 N•m 1.5-180 kgf•cm	3/8"-f	5.7" x 6.6" x 3"	4.08 lb	Switchable lbf•in, kgf•cm, and N•m	1.2V NiCd cell x 5	8 hrs	30 hrs
64031	HIT-500	15 - 440 lbf•in 1.5-50 N•m 15-500 kgf•cm	1/2"-f		5.84 lb				
64032	HIT-2000	250-1600 lbf•in 25-180 N•m 250-1800 kgf•cm	1/2"-f		5.84 lb				

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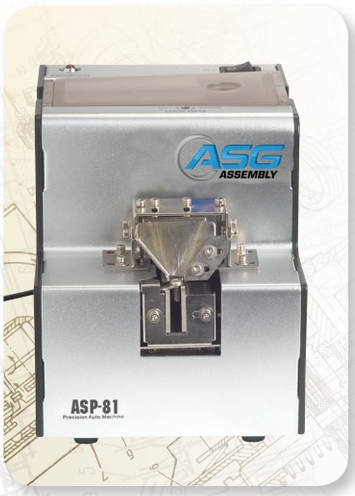
Production Aides



Screw Feeders	63-65
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Adjustable Rail Feeders

NEW!

ASP-81 pictured

- **New and improved version**
- **More powerful and sturdy**
- **No rail changes necessary; adjusts to accommodate screw size**
- **Single feeder will feed screws from (sizes #000 - #10)**

ASP-81

- Easy adjustment of vibration time, amplitude and operation shut off delay
- Smoother vacuum pick-up operation
- Adjustable sweeping brush and bit guide allows use of standard diameter bits
- Bi-directional brush rotation provides fast removal of improperly positioned screws (jams)
- Comes with Accessories: AC adaptor, adjusting too, additional stopper, gauges and shims conveniently held in lid

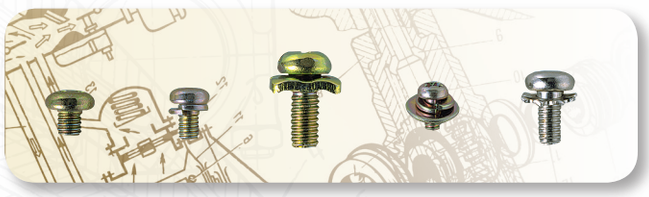
See page 92

ASP-81 SPECIFICATIONS

Part No.	Model No.	Size	Applicable Screw Length (in)	Weight	Screw Feeding Speed	Power	Required Bits
67432	ASP-81	5"(W) x 7"(L) x 6"(H)	.748 up to 19mm (under head)	5.5 lbs	2 screws per second	100-240VAC Input 12 VDC Output	Standard

ACCESSORIES INCLUDED

Part No.	Description
65236	Adjusting Wrench
67420	AC Adaptor
67421	Shim set
67422	Stopper 1.0-2.0 mm
68423	Stopper 2.0-5.0 mm
67424	Gauge 0.8 mm
67425	Gauge 1.0 mm
67426	Gauge 1. 2 mm
67427	Gauge 1.5 mm
67428	Gauge 2.0 mm



Fits all these styles

Bit Information: Most Standard Power Bits Can be Used With the Screwfeeder. See Pages 80-86 for a Complete Selection.

OPTIONAL ACCESSORIES

Part No.	Description
65230	Bit Magnetizer
65235	Bit Magnetizer Ring

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Screw Feeders

NJL pictured

Interchangeable Rail Feeders

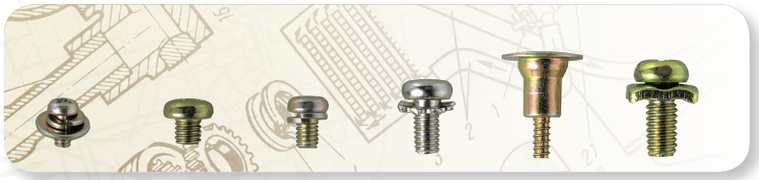
- Accommodates wide variety of screw sizes by plugging in interchangeable rails
- Handles #000 to #10 screws; even with washers
- Doesn't require multiple dedicated-size feeders
- Models for robotic applications available. Contact ASG.

"Quicher" Series

- Simple operation
- Pick-up rate of up to two screws per second
- Screws are poured into hopper and automatically lined up
- Flat, horizontal rail design eliminates screw "jams"
- 220V available

NJL Model

- Feeds screws up to 25 mm long
- Same physical structure as the NJ models
- 220V available



Fits all these styles

GENERAL SPECIFICATIONS FOR NJ, NJL AND NSB-SERIES

	NJ & NJL-Series	NSB-Series
Size	5-1/4"(W) x 8-1/2" (D) x 5-1/3" (H)	4-7/8"(W) x 7-1/8" (D) x 5-3/4" (H)
Weight	7 lb.	6.5 lb.
Screw feeding speed	2 screws per second Approx. 1200 4-40 x 1/4" #000 through #10 (1.0 mm through 5.0 mm) 110-120 VAC to 12VDC, 500m/A (Adaptor supplied - Part No. 65225)	
Screw capacity		
Screw size		
Power		

NSB Models Require Special Bits. See Page 85.

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QUICHER NSB & NJ-SERIES SPECIFICATIONS AND OPTIONAL RAIL ASSEMBLIES

Standard Part No.	Standard Model No.	Screw Size (in)	Screw Size (mm)	Max Screw Dia.** (in)	Max Length (in)	Max Length (mm)	Rail* Model No.	Rail* Part No.	Part No. For Flat Head or Short Screws	Model No. For Flat Head or Short Screws	Required Bits
67240	NSB-10	#000	1.0 mm	0.0433	0.7874	19.99	SR 10	67320	Use Std Part #	Use Std. Unit	Special Bits for NSB Units only see pg. 85
67241	NSB-12	#00	1.2 mm	0.0472	0.7874	19.99	SR 12	67321			
67242	NSB-14	#0	1.4 mm	0.0570	0.7874	19.99	SR 14	67322			
67243	NSB-17	N/A	1.7 mm	0.0709	0.7874	19.99	SR 17	67323			
67244	NSB-20	#1	2.0 mm	0.0866	0.7874	19.99	SR 20	67324			
67245	NSB-23	#2	2.3 mm	0.0984	0.7874	19.99	SR 23	67325			
67246	NSB-26	#3	2.6 mm	0.1102	0.7874	19.99	SR 26	67326			
67247	NSB-30	#4	3.0 mm	0.1259	0.7874	19.99	SR 30	67327			
67212	NJ-4535	#6	3.5 mm	0.1496	0.7086	17.99	R 35	67312	67264	NJ-4535 F	Standard
67214	NJ-4540	#6 & #8	4.0 mm	0.1771	0.7086	17.99	R 40	67314	67266	NJ-4540 F	
67216	NJ-4550	#10	5.0 mm	0.2087	0.7086	17.99	R 50	67316	67268	NJ-4550 F	

NJL-SERIES SPECIFICATIONS AND OPTIONAL RAIL ASSEMBLIES

Part No. for NJL-Series	Model No. for NJL-Series	Screw Size (in)	Screw Size (mm)	Max Screw Dia.** (in)	Max Length (in)	Max Length (mm)	Rail* Model No.	Rail* Part No.	Required Bits
67400	NJL-2320	#1	2.0 mm	0.0866	1.0	25.4	67340	RL20	Standard
67402	NJL-2323	#2	2.3 mm	0.0984	1.0	25.4	67341	RL23	
67404	NJL-2326	#3	2.6 mm	0.1102	1.0	25.4	67342	RL26	
67406	NJL-2330	#4	3.0 mm	0.1259	1.0	25.4	67343	RL30	
67408	NJL-4535	#6	3.5 mm	0.1496	1.0	25.4	67344	RL35	
67410	NJL-4540	#6 & #8	4.0 mm	0.1771	1.0	25.4	67345	RL40	
67412	NJL-4550	#10	5.0 mm	0.2087	1.0	25.4	67346	RL50	

*Note! Each model is supplied with the rail listed as standard equipment.
**This is the maximum thread diameter that the unit can accept. Smaller diameter fasteners can be used in the units as long as the HEAD DIAMETER is larger than the diameter listed.

ACCESSORIES

Part No.	Description
65232	Adjusting Tool
65230	Bit Magnetizer
65235	Bit Magnetizer Ring
67318	Cover Plate NJ-Series

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Tape Dispensers

Model EZ-9000 pictured

Compact Dispensers

- **Our most versatile dispenser, small size fits on any workbench or assembly station**
- **Presents a piece of tape cut to your precise length**
- **Memory function - can program 6 different lengths**

Model EZ-9000

- Designed for industrial or commercial use
- Choose from two dispensing modes:
  - "Preset" allows cutting of pre-selected number of pieces; machine stops and buzzer sounds when complete
  - "Loop" allows continuous cutting and dispensing of non-adhesive material up to a designated number
- Accommodates two different rolls at one time – any size roll without using bobbin – uses flexible tape support
- Cuts adhesive and non-adhesive protection film, aluminum foil, copper foil, insulation material and more!
- Safety function and design
- Dual photo sensor
- LED provides machine status
- Counter for number of cuts
- Comes complete with tweezers and oil
- Multi-voltage

Model EZ-9000RP pictured

Compact Double-Sided Dispenser

- **Unique design removes tape backing or liner**
- **EZ-9000 RP tape dispenser retains all features of standard model EZ-9000**
- Tilt stand not available on RP model

Model EZ-9000 features a tilt-stand support

COMPACT TAPE DISPENSER SPECIFICATIONS

Part No.	Model No.	Tape Width	Cut Length	Max. Outside Dia. Tape Roll	Auto Feed	Weight	Dimensions
66135	EZ-9000	.236 to 2.36" (6 to 60 mm)	.169" to 39" (5 to 999 mm)	11.81" (300 mm)	Yes	5.5 lbs (2.5 kg)	8.5 x 4.5 x 5.5" (21.6 x 11.43 x 14 cm)
66137	EZ-9000RP	.236 to 2.36" (6 to 60 mm)	.169" to 39" (5 to 999 mm)	5.9" (150 mm)	Yes	9.2 lbs (4.4 kg)	12.25 x 4.5 x 12" (31.12 x 11.43 x 30.5 cm)

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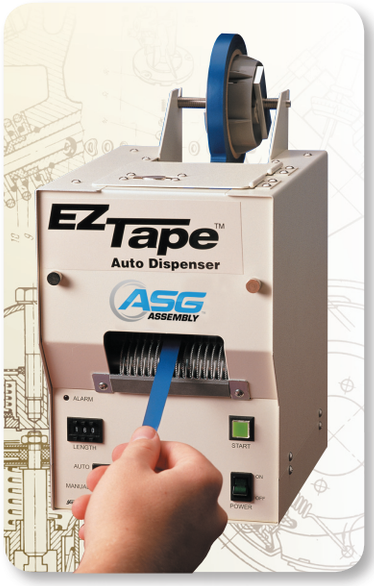

EZ-6000 pictured

Standard Dispensers

- **Present a piece of tape cut to your precise length**
- **Either manual or automatic dispensing**

EZ-6000 Series

- Increases productivity — reach for a piece of tape and it is there
- Cuts lengths from 80 mm to 999 mm in 1 mm increments
- Eliminates wasted tape
- Cuts most types of tape
- Automatic dispensing presents the next piece of tape. Manual dispensing presents the next piece of tape at the easy push of a button
- 220V available
- RP Model - Remove paper backing from tape available

STANDARD TAPE DISPENSER SPECIFICATIONS

Part No.	Model No.	Tape Width	Cut Length	Accuracy of Cut	Max. Outside Dia. Tape Roll	Length Setting	Core Diameter of Tape Roll	Auto Feed	Weight	Dimensions	Electrical Requirements
66121	EZ-6000	.25 to 3.13" (6.35 to 79.38mm)	3.14" to 39.33" (80 to 999 mm)	±.125" (3.2 mm)	4.75 (120.65 mm)	Digital	3" (76.02 mm)	Yes	20.6 lbs (9.14 kg)	9.5 x 6.5 x 12.25" (24.13 x 16.51 x 31.12 cm)	120V 50/60Hz

EZ-870 pictured

Carousel Dispenser

- **Cuts tape and places it on carousel at the push of a button**
- **Bobbin-free design; accommodates any size core**

EZ-870 Series

NEW!

- Provides consistent lengths from 15 mm to 70 mm
- Cuts polyimide (Kapton®) tape
- Easy to adjust tape length and spacing
- Can accommodate multiple operators
- Accepts many types of tape, including filament, polyimide, acetate cloth, glass cloth, double-sided, plastic, aluminum foil, cellophane, masking, Nomex®, copper, cloth, polyethylene, Teflon®, paper, craft, OPP and more!
- 220V available

CAROUSEL DISPENSER SPECIFICATIONS

Part No.	Model No.	Tape Width	Cut Length	Accuracy of Cut	Max. Outside Dia. Tape Roll	Core Diameter of Tape Roll	Auto Feed	Weight	Dimensions	Electrical Requirements
66134	EZ-870	0.118 to .984" (3 to 25 mm)	0.59" x 2.76" (15 to 70 mm)	±.08" (2 mm)	5.91" (150 mm)	NA*	Yes	4.19 lbs (1.9 kg)	4.96 x 5.91 x 10.16" (126 x 150 x 258 mm)	120V

*Unit does not use a bobbin, therefore any size tape core is useable.

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Extra Heavy Duty/ Wide Dispensers

- **Designed for continuous industrial application**
- **Manual or automatic dispensing**
- **Cuts virtually any tape**
- **Reduces operator fatigue**

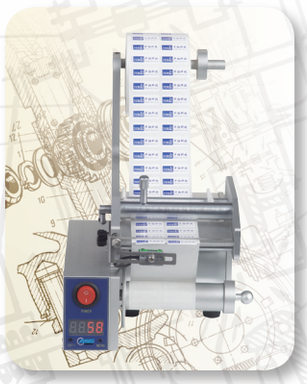
EZ-3000 Series

- Available for vinyl, masking, cellophane, polyethylene, paper, cotton cloth, Mylar®, Kapton®, anti-static, polyimide, glass cloth, aluminum foil, double sided, Teflon®, Nomex®, glass filament and others
- Variable dispensing intervals
- Eliminates waste; each piece is perfect
- Fully enclosed metal cabinet
- Additional models available. Consult ASG with your application
- Optional tape stand available to accommodate larger diameter tape roll
- 220V available
- ESD Model available

EXTRA HEAVY DUTY/EXTRA WIDE TAPE DISPENSER SPECIFICATIONS

Part No.	Model No.	Tape Width	Cut Length	Accuracy of Cut	Max. Outside Dia. Tape Roll	(w/ optional stand)*	Length Setting	Core Diameter of Tape Roll	Auto Feed	Weight	Dimensions	Electrical Requirements
66102	EZ-3000	.59 to 2.37" (15 to 60 mm)	1.98" to 39" (40 to 999 mm)	±.125" (3.2 mm)	up to 7.91" (200 mm)	15.83" (400 mm)	Digital	3" (35 & 78 mm)	Yes	25.3 lbs (11.5 kg)	7.5 x 9.8 x 11.4" (19 x 25 x 29 cm)	120V 50/60Hz†
66115	EZ-3000K	.59 to 2.37" (15 to 60 mm)	1.98" to 39" (40 to 999 mm)	±.125" (3.2 mm)	up to 7.91" (200 mm)	15.83" (400 mm)	Digital	3" (35 & 78 mm)	Yes	25.3 lbs (11.5 kg)	7.5 x 9.8 x 11.4" (19 x 25 x 29 cm)	120V 50/60Hz†
66104	EZ-3080	.59 to 3.17" (15 to 80 mm)	1.98" to 39" (40 to 999 mm)	±.125" (3.2 mm)	up to 5.54" (130 mm)	11.87" (300 mm)	Digital	3" (35 & 78 mm)	Yes	26.5 lbs (12 kg)	7.5 x 9.8 x 11.4" (19 x 25 x 29 cm)	120V 50/60Hz†
66106	EZ-3150	.59 to 5.94" (15 to 150 mm)	1.98" to 395" (40 to 9999 mm)	±.125" (3.2 mm)	up to 7.91" (200 mm)	15.83" (400 mm)	Digital	3" (35 & 78 mm)	Yes	39.7 lbs (18 kg)	13 x 9.8 x 11.4" (33 x 25 x 29 cm)	120V 50/60Hz†
66108	EZ-3250	.59 to 9.89" (15 to 250 mm)	1.98" to 395" (40 to 9999 mm)	±.125" (3.2 mm)	up to 7.91" (200 mm)	15.83" (400 mm)	Digital	3" (35 & 78 mm)	Yes	47.4 lbs (21.5 kg)	17 x 9.8 x 11.4" (43 x 25 x 29 cm)	120V 50/60Hz†

† 220v 50/60Hz available. *Tape roll sample required for ordering.



LD-80 pictured

Label Dispenser

- **Automatically dispenses and removes backings of labels, die-cut parts and security tape**
- **Easy programmable speed**
- **4 modes: cleaning, control, speed & IP**

LD-80

- Easily adjustable photo sensor for different types of labels
- Utility holder can firmly hold the label roll easily
- Compact design, easily fits workstation
- Additional models for wider labels available. Consult ASG with your application
- 220V available

LABEL DISPENSER SPECIFICATIONS

Part No.	Model No.	Length of Label	Width of Backing Paper	Feeding Speed	Diameter Outside Roll	Weight	Dimensions	Electrical Requirements
66142	LD-80	.08 to 1.18" (2 to 30 mm)	.08 to 3.15" 2 to 80 mm)	.8 - 3 in/sec	9.65" (245 mm)	8.8 lbs (4 Kg)	9.8 x 6 x 10.1 (25 x 15.5 x 25.5 cm)	110V 50/60Hz

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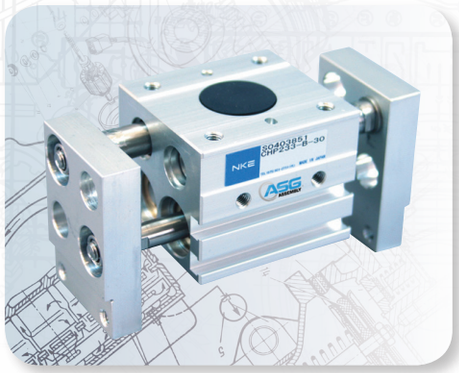
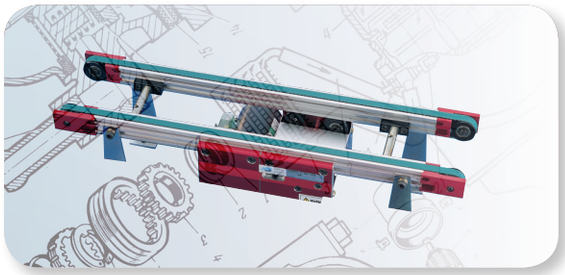
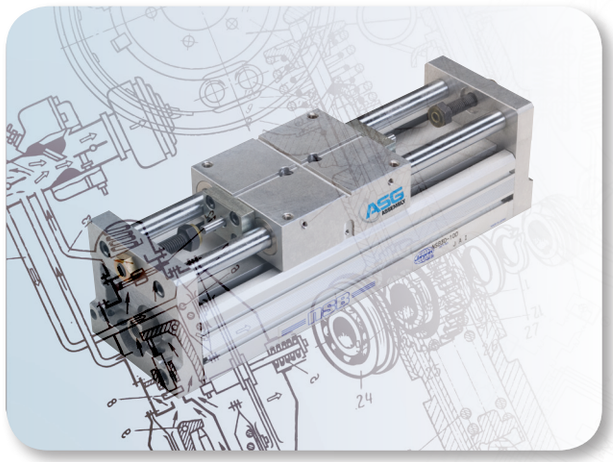
Automation Products







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Pick & Place Units	71
Vacuum Generators	71

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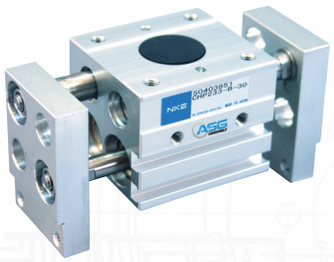
Conveyors

CHP-233-B-30 pictured

- Largest selection: 17 families to choose from
- Easily modified
- Custom conveyors are available at a minimum charge
- Belt widths up to 20", down to 3/4"
- Pulley diameter down to 1-1/8"
- Lengths from 8" to 14'
- Conveyor comes with motor and drive (AC or DC, fixed or variable speed)
- 1-year warranty on entire conveyor/ motor/drive package
- CAD drawings available for the asking
- Mini Roller Edge

- Widths 20 mm - 500 mm
- Lengths 500 mm to 2000 mm
- Capacities to 100 lbs



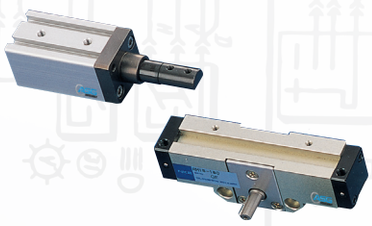
CHP-233-B-30-2 pictured

Air Grippers

- Largest selection anywhere
- Scissor or parallel styles with either rack & pinion or linkage
- Single gripper lift capacities up to 9.0 lbs
- Repetitive accuracy of 0.2 mm (.008 inches)

Rotary Actuators

- Come "loaded" – what competitors offer as options are standard for us



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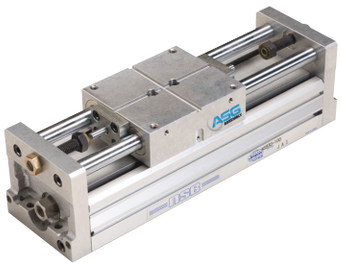
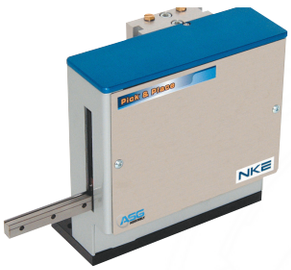


Slide Assemblies

- **Unique rod design**
- **Compact package**
- **Space saving**

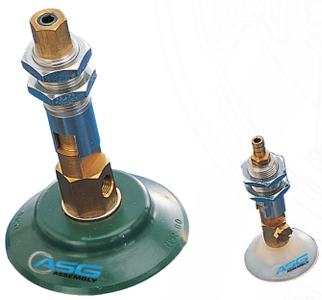
- Combine with other components to perform in X, Y or Z axis
- Strokes 15 mm to 3000 mm
- Load capacities to 66 lbs



Pick & Place Units

- **Pneumatically-driven, mechanically-positioned**
- **One air input controls grip, lift, rotation**

- Use as a stand or with other components to create an entire system
- 30 cycles a minute (max)



Vacuum Generators

- **Most efficient generators in the industry – more lift for less air**

ASG Can Provide Over 2,000 Components That Can be Used Individually or Bolted Together "Building Block" Style to Create Unique Systems.
Call 1-888-486-6163 for Engineering Assistance, Fast Nationwide Delivery and Your Copy of the ASG/NKE Catalog.

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Workstation Support Products

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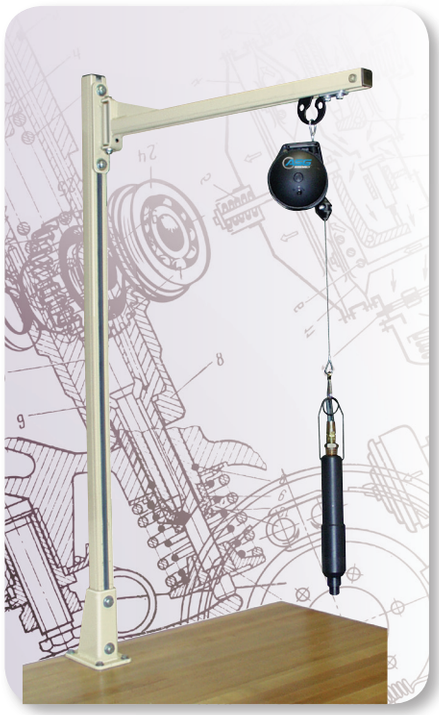

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Tool Support Stands

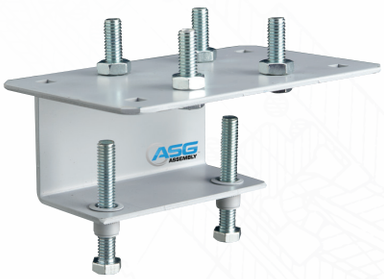
65003 pictured (left) and 65006 pictured (right)

- **Prevent tool from falling off bench**
- **Protect your investment**
- **Keep cords out of operator's way**

TOOL STAND SPECIFICATIONS

Part No.	Height	Arm Length
65006	41" - 70"	up to 30 in.
65003	up to 36"	up to 24 in.

- Made of tempered anodized aluminum tubing
- Fittings are engineered plastic with 20% glass reinforced polycarbonate
- Rust-proof, chip-proof finish (no paint used)
- Part No. 65006
- Most versatile tool stand
- Adjusts both vertically and horizontally in any direction (full 360° rotation)
- Height and swing can be locked in any position
- Part No. 65003
- For applications that require less vertical adjustment
- Height is limited to the length of the main vertical arm
- Supports one tool up to 15 lbs



65045 pictured

Bench Clamp

- **For use with Tool Support Stands**
- **Easily clamps to bench-top (up to 2-1/8" thick) without having to drill holes**

OPTIONAL BENCH CLAMP SPECIFICATIONS

Part No.	Description
65045	For use with 65003 & 65006

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64312 pictured (left) and 64315 pictured (right)

Tool Support Stands

- Part Nos. 64312 & 64315
- Simple, value engineered tool stands
- Used with either model ASG tool and spring balancers or positioner

TOOL SUPPORT STANDS SPECIFICATIONS

Part No.	Description	Workable Range
64312	Short Support	Height - 38" Offset 10"
64315	Long Support	Height - 38" Offset 18"

64021 pictured

64313 pictured

Tool Balancers & Positioner

- Reduce operator fatigue
- Tools become weightless
- Smooth operation
- Two types available: retracting and positioning

TOOL BALANCERS AND POSITIONER SPECIFICATIONS

Part No.	Description	Weight Capacity		Cord Length
		lbs	kg	
64308	Tool Balancer	4	1.8	60"
64309	Tool Balancer	4	0.9	60"
64313	Tool Positioner	5	2.25	55"
64021	Tool Balancer	1-3	.45-1.45	55"
64022	Tool Balancer	3-6	1.45-2.9	55"
64023	Tool Balancer	1-3	.5-1.5	55"

64308 pictured

NEW!

64023 pictured

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65050 pictured. Arm pictured is shown with #65049 Mount Coupling. Coupling is a required adaptor for pneumatic tools.

65058 pictured. Arm pictured is shown with #65049 Mount Coupling. Coupling is a required adaptor for pneumatic tools.

65012 pictured

65010 pictured

Tool Mount Couplings

- **SD2500 models available.** *See pg.51*

TOOL MOUNT COUPLINGS

Part No.	Description
65042	For use with lever start A, CL, SS, BL-3000 & BL-5000 Series
65043	For use with VZ-Series
65047	For use with BL-7000
65049	For use with Pneumatic Series

Optional Bench Clamp

- **For use with torque arms**
- **Clamps easily to bench top (up to 2-1/8" thick) without having to drill holes**

BENCH CLAMP SPECIFICATIONS

Part No.	Description
65052	For use with all torque arms except 65012

Torque Arms

- **Easily mounts or clamps to bench-top (clamp optional)**
- **Maintains tool location while allowing easy movement**
- **Durable, lightweight**
- **Adjustable height**
- **Heavy duty springs**
- **Tool mount couplings available for lever-start tools**
- **Absorbs torque; reducing potential operator injury to arm, wrist or hand**

TORQUE ARM SPECIFICATIONS

Part No.	Max. Torque Reaction	Max. Tool Weight	Stand Height	Forearm Backarm (in)
65050	100 lbf•in 11.3 N•m 113 kgf•cm	5 lbs 2.3 kg	30"	12 x 12
65046				12 x 6
65054				12 x 18
65056				18 x 18

OPTIONAL ACCESSORY

Part No.	Description	Max. Tool Weight
65048	Heavy duty spring set for above models	10 lbs (4.5 kg)

PNEUMATICALLY-ASSISTED TORQUE ARM SPECIFICATIONS

Part No.	Max. Torque Reaction	Max. Tool Weight	Stand Height	Max. Reach	Forearm Backarm (in)
65060	150 lbf•in 17.2 N•m 170 kgf•cm	10 lbs 4.5 kg	28"	21.75"	12 x 6
65058				27.75"	12 x 12
65062				33.75"	12 x 18

VALUE TORQUE ARM SPECIFICATIONS

Part No.	Max. Torque Reaction	Max. Tool Weight	Stand Height	Max. Reach	Forearm Backarm (in)
65012	110 lbf•in 12.4 N•m 124 kgf•cm	10 lbs 4.5 kg	22"	30"	16 x 11.5

LINEAR TORQUE ARM SPECIFICATIONS

Part No.	Max. Torque Reaction	Max. Tool Weight	Stand Height	Max. Reach	Forearm Backarm (in)
65010	150 lbf•in 17.0 N•m 170 kgf•cm	5 lbs 2.25 kg	46"	26.75"	N/A
65013	150 lbf•in 17.0 N•m 170 kgf•cm	1.5 lbs .07 kg	30.5"	19.5"	N/A

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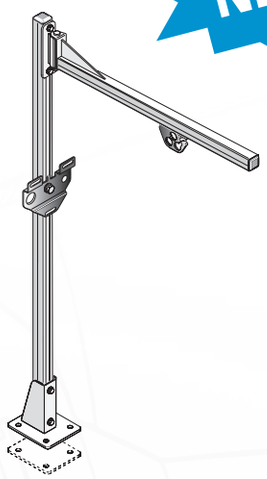
Swing or Fixed Booms

NEW!



Swing Boom pictured

- Update your existing workstation
- Ergonomic, sound
- 180º Swing or Fixed Boom
- Maximum capacity of 30 lbs.
- Bolts to benchtop; mounting fasteners not included
- Packages include: boom, four wheel balancer trolley and mounting base
- Optional backing plate with wood or composite top

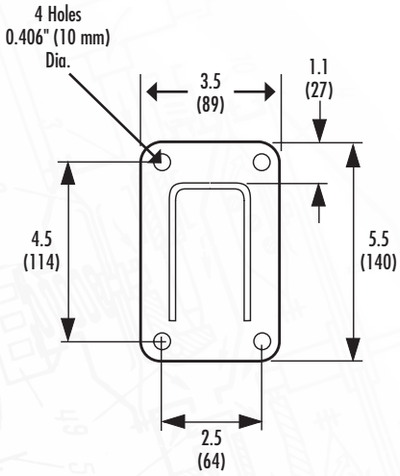
Swing Booms

- 3 ft. swing - 5 ft. vertical
- 3 ft. swing - 4 ft. vertical
- Other accessories available; Contact ASG

Fixed booms

- 3 ft. fixed - 4 ft. vertical
- 3 ft. fixed - 5 ft. vertical
- Other accessories available; Contact ASG

Fixed Boom pictured



Backplate pictured

SWING BOOMS

Part No.	Boom Length	Vertical Column Height
65070	3 ft.	4 ft. (1.2 m)
65071	3 ft.	5 ft. (1.5 m)

FIXED BOOMS

Part No.	Boom Length	Vertical Column Height
65072	3 ft.	4 ft. (1.2 m)
65073	3 ft.	5 ft. (1.5 m)

ASG Offers a Great Selection of Balancers.
See Page 74.

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Hand Torque

Digital Torque Wrench	78
Digital Screwdriver	79
Adjustable Driver	80
Pre-Set Driver	81
Ceramic Driver	81

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Mini Digital Torque Wrench and Screwdriver

ASG-W Series Screwdriver pictured

- Digital torque value readout
- Highly reliable; real-time results
- Simple download of data or store readings
- Peak hold and track mode selectable
- Buzzer and LED indicator for the 9 pre-settable target torques
- 250 data memory for recall and joint torque auditing
- Auto power off after about 5 minutes idle
- AAA rechargeable and non rechargeable batteries are compatible (non-rechargeable batteries included)

Mini Digital Torque Wrench

- Ideal for quality control, maintenance and production
- ¼" Sq. drive
- Torques from 2.6 - 177 lbf•in
- Lever type ratchet

ASG-W Series

- +/- 3% accuracy CW
- Unit Selector: cN-m, lbf•ft, lbf•in, kgf•cm
- 5 button controls

ASG-W SERIES SPECIFICATIONS

Part No.	Model No.	Torque Range			Size	
		lbf•in	N•m	kgf•cm	Length	Weight
65118	ASG-W53	2.65 - 53.1	.3 - 6	61.2	8.5 in.	22.2 oz
65119	ASG-W177	8.8 - 177	1 - 20	204	8.5 in.	22.2 oz

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Mini Digital Screwdriver

- For torque accurate applications
- ¼" hex drive
- Torques from .44 - 35.4 lbf•in

ASG-D Series

- +/- 2.5% accuracy CW
- Unit Selector: cN-m, lbf•in, kgf•cm
- Autolock bit holder
- Carrying case included

See Page 85 for Selection of Bits.

ASG-D SERIES SPECIFICATIONS

Part No.	Model No.	Torque Range			Size	
		lbf•in	N•m	kgf•cm	Length	Weight
65115	ASG-D4	.44 - 4.4	.05 - .50	.5 - 5	7.99"	22.2 oz
65116	ASG-D17	.88 - 17.7	.10 - 2.0	1 - 20	7.99"	22.2 oz
65117	ASG-D35	1.77 - 35.4	.20 - 4.0	2 - 40	7.99"	22.2 oz

ASG-Series Manual Drivers

- Adjustable and pre-set models
- 1/4" hex drives
- Cam-over torque clutch stops driver at desired torque
- Advanced ergonomically designed tribobular aluminum body
- Automatic lock in counter-clockwise direction
- Accuracy± 6% clockwise direction

Adjustable Drivers

- **Ideal for applications that require more than one torque value**
- **Operator "dials in" torques from 20 ozf•in to 40 lbf•in**
- **Easy to read window scale**
- **Lightweight ease-of-use**

ASG-A Series

- Manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 and ASME-B107.14-2004
- Recalibration available at ASG
- Self-calibration with ASG torque testers. See pages 57-58
- Automatically resets for next fastener when torque is reached

ASG-A SERIES SPECIFICATIONS

Part No.	Model No.	Torque Range (Width x Length)	Size	Weight
65101	ASG-A6	20-100 ozf•in	1.1" x 5.5"	7 oz.
65102	ASG-A15	3-15 lbf•in	1.1" x 6.3"	8 oz
65103	ASG-A40	5-40 lbf•in	1.2" x 6.8"	9.6 oz

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Pre-Set Drivers

- **Torque is pre-set from 6 ozf•in to 40 lbf•in**
- **Tamper resistant design**
- **Rugged, light weight construction**
- **Built to last**

ASG-P Series

- Manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 and ASME-B107.14-2004
- Recalibration available at ASG
- Self-calibration with ASG torque testers. See pages 52-53
- Four torque ranges available

See Page 85 for a Selection of Bits.

ASG-P SERIES SPECIFICATIONS

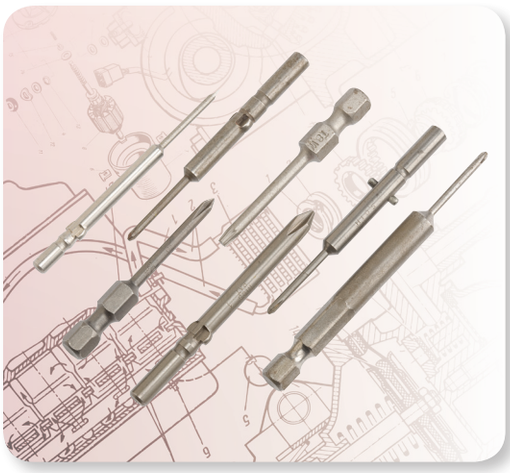
Part No.	Model No.	Torque Range				Size (Width x Length)	Weight
		ozf•in	lbf•in	N•m	kgf•cm		
65104	ASG-P2	6-32	0.37-2.0	0.04-0.23	0.4-2.3	1.1" x 4.5"	5.5 oz.
65105	ASG-P6	10-100	0.62-6.25	.07-0.7	0.7-7.0	1.1" x 5.6"	7.4 oz
65106	ASG-P15	24-240	1.5-15	0.17-1.7	1.7-17	1.1" x 5.6"	7.4 oz
65107	ASG-P40	64-640	4-40	.45-4.52	4.5-45.2	1.2" x 6.0"	9.6 oz

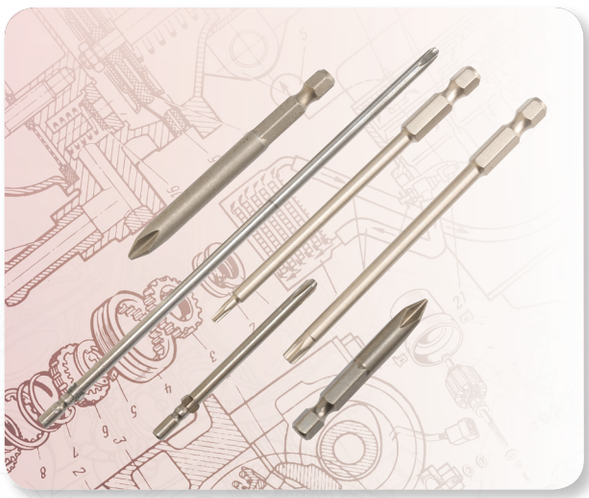
Ceramic Drivers

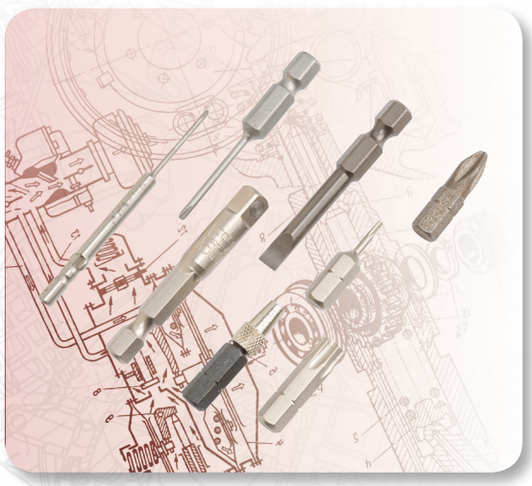
CERAMIC DRIVER SPECIFICATIONS

Part No.	Tip	Size (mm)	Color Code
64831	Slotted	.9 x 30	Green
64832		1.3 x 30	White
64833		1.8 x 30	Yellow
64834	Slotted	2.6 x 30	Red
64835	Cross Point	#1.7 x 30	Purple
64836	Cross Point	#0 x 30	Blue

Bits







1/4" Hex Drive Bits	83
Precision Miniature Bits	85
4.0 & 5.0 mm Drive Bits	86
JIS Bits	86
JCIS Bits	86

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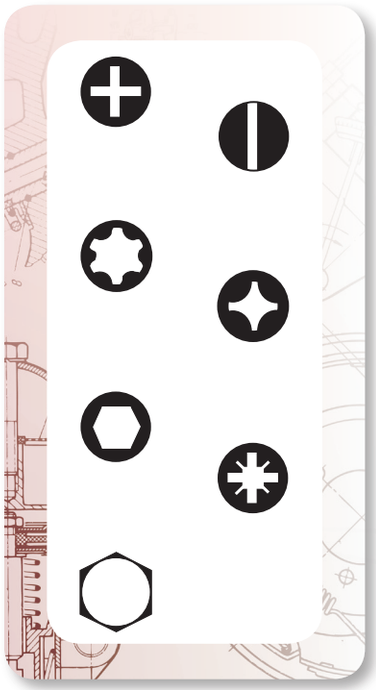
1/4" Hex Drive Bits



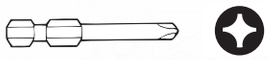
SLOTTED HEAD SCREW BITS

Screw Size	Part No.				Dimensions	
	1 15/16" Length	2 3/4" Length	3 1/2" Length	6" Length	A**	B
1F 2R	64526	64527	64529	N/A	.122	.026
2F 3R	64533	64534	64536	N/A	.134	.028
3F 4R	64540	64541	64543	N/A	.154	.034
4F 5R	64547	64548	64550	N/A	.187	.036
5F 6R	64554	64555	64557	64560	.215	.038
6F 8R	N/A	N/A	N/A	N/A	.241	.040
8F 10R	64568	64569	64571	64574	.275	.042
10F 12R	64575	64576	64578	64581	.312	.046
12F 14R	64582	64583	64585	N/A	.360	.050

**Not applicable to insert bits and finders.

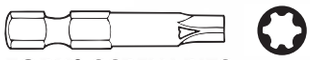
BIT WITH FINDER

Part No.	
Insert Bit 1" Length	Bit with Finder
N/A	N/A
N/A	N/A
64635	64770
N/A	64771
64636	N/A
64637	64772
64638	64773
N/A	64774
64639	64775



PHILLIPS HEAD SCREW BITS

Point Size	Part No.						Part No.
	1 15/16" Length	2 3/4" Length	3" Length	3 1/2" Length	3 3/4" Length	6" Length	Insert Bit 1" Length
00	64512	N/A	N/A	N/A	N/A	N/A	N/A
0	64501	64504	N/A	N/A	N/A	64506	64630
1	64502	64503	64470	64505	64473	64507	64631
2	64508	64509	64472	64511	64474	64513	64632
3	64514	64515	N/A	64517	N/A	64519	64633



TORX® SCREW BITS

Point Size	Part No.			Part No.
	1 15/16" Length	2 3/4" Length	6" Length	Insert Bit 1" Length
T-1	N/A	**N/A**	N/A	64974
T-2	N/A	**N/A**	N/A	64976
T-3	64992	**N/A**	N/A	64977
T-4	64994	**N/A**	N/A	64978
T-5	64979	**N/A**	N/A	64982
T-6	64980	**N/A**	N/A	64983
T-7	64981	**N/A**	N/A	64984
T-8	64937	**64946**	64955	64986
T-9	64938	**64947**	N/A	64987
T-10	64939	**64948**	64956	64988
T-15	64940	**64949**	64957	64989
T-20	64941	**64950**	64958	N/A
T-25	64942	**64951**	64959	N/A
T-27	64943	**64952**	64960	N/A
T-30	64944	**64953**	64961	N/A
T-40	64945	**64954**	64962	N/A

*Use bits marked in bold type when using vacuum pick-ups.

TORXALIGN® OR TORXWEDGE®

Point Size	Part No.
	1 15/16" Length
T-6W	64963
T-7W	64964
T-8W	64965
T-9W	64966
T-10W	64967
T-15W	64968
T-20W	64969
T-25W	64970
T-27W	64971
T-30W	64972

TORX and TORXALIGN are registered trademarks of Camcan Division of Textron.

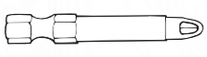
1/4" Hex Drive Bits

ACR PHILLIPS® ANTI-CAMOUT RECESS BITS

Point Size	1 15/16" Length	2 3/4" Length	6" Length	Insert Bit 1" Length
1	64495	N/A	N/A	64494
2	64497	64498	64500	64496
3	64499	N/A	N/A	N/A

Please Note: The bits listed above have the ACR ribs for BOTH insertion and removal.

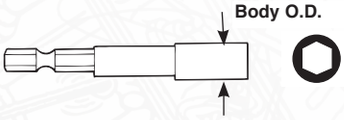
ACR is a registered trademark of the Phillips Screw Co.



POZIDRIVE® SCREW BITS

Point Size	1 15/16" Length	2 3/4" Length	6" Length
1	64485	64488	64491
2	64486	64489	64492
3	64487	64490	64493

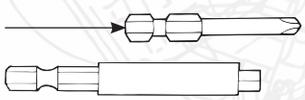
PoziDrive is a registered trademark of The Phillips Screw Co.



HEX HEAD SCREW & NUT BITS

Internal Hex	Body O.D.	Non-Magnetic	Magnetic
3/16"	3/8"	64910	64911
1/4"	7/16"	64916	64917
5/16"	1/2"	64922	64923
11/32"	9/16"	N/A	64926
3/8"	9/16"	64928	64929
7/16"	5/8"	64934	64935
5 mm	9.6 mm	64616	64618
5.5 mm	9.6 mm	64617	64619
6 mm	11.2 mm	64620	64622
7 mm	11.2 mm	64623	64624
8 mm	12.0 mm	64625	N/A

Please Note:
If a 1/4" hex bit will not lock properly in an ASG assembly tool, grind some material from the rear of the bit as shown.



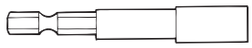
ADAPTOR FOR 1/4" SOCKETS

Adapt From	Length	Part No.
Hex power bit	2"	64602
Hex insert bit	1"	64357

FREARSON SCREW BITS

Point Size	1 15/16" Length	2 3/4" Length	6" Length
1, 2 & 3	64520	64521	64522

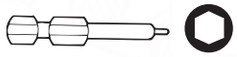
Note: A Frearson bit will fit any Frearson screw.



BIT HOLDER FOR INSERT BITS

Point Size	Length	
64611	2 7/8"	Magnetic
64612	6"	Magnetic
64608	8"	Magnetic
64610	10"	Magnetic
N/A	2 3/8"	Non-Magnetic

For all drives with 1/4" hex drive



SOCKET HEAD SCREW BITS

Overall Length 1 15/16"				Insert Bit 1" Length
Hex Size	Cap Screw	Set Screw	Part No.	
.050	0	4	N/A	64649
1/16"	1	5-6	64589	64650
5/64"	2-3	8	64590	64651
3/32"	4-5	10-13	64591	64652
7/64"	6	N/A	64592	64653
1/8"	N/A	1/4	64593	64654
9/64"	8	N/A	64594	64655
5/32"	10	5/16	64595	64656
3/16"	1/4	3/8	64596	64657
7/32"	N/A	7/16	64597	64658
1/4"	5/16	1/2	64598	64659
1.5 mm	M1.6, M2.0, M3	M3	64565	N/A
2.0 mm	M2.5	M4	N/A	64579
2.5 mm	M3	M5	64567	64580
3 mm	M4	M6	64570	64584
4 mm	M5	M8	64572	64586
5 mm	M6	M10	64573	64587
6 mm	M8	M12, M14	64577	64650

"Y" BIT

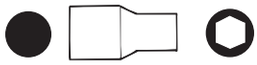
Part No.	Description	Drive
64830	#1 x 60 mm	4.0 mm
64819	#1 x 60 mm	1/4" hex

1/4" Hex Drive Bits

BALLDRIVER® BITS FOR SOCKET HEAD SCREWS

Hex Size	Screw Cap	Screw Set	Power Bit 3" Length	Insert Bit 1" Length
5/64"	2-3	8	64691	64681
3/32"	4-5	10-13	64692	64682
7/64"	6	N/A	64693	64683
1/8"	N/A	1/4	64694	64684
9/64"	8	N/A	64695	64685
5/32"	10	5/16	64696	64686
3/16"	1/4	3/8	64697	64687
7/32"	N/A	7/16	64698	64688
1/4"	5/16	1/2	64699	64689

BallDriver is a registered trademark of Bondhus Corporation.



SOCKETS 1/4" SQ. DR. 6 POINT

Hex	Part No.	Hex	Part No.
1/8"	64670	3.5 mm	64660
5/32"	64671	4 mm	64661
3/16"	64672	4.5 mm	64662
7/32"	64673	5 mm	64663
1/4"	64674	5.5 mm	64664
9/32"	64675	6 mm	64665
5/16"	64676	7 mm	64666
11/32"	64677	8 mm	64667
3/8"	64678	9 mm	64668
7/16"	64680	10 mm	64669

For all drivers with 1/4" square drive.

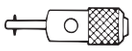
Chuck pictured

DRILL CHUCK 1/4" HEX

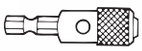
	Part No.
Chuck	64331
Key	64336

SPECIAL BITS FOR SCREWFEEDERS FOR NSB-SERIES SEE PAGES 64-65

Bit Part No.	Point Style	Point Size	Bit Length	Point Dia.	For Use With Screwfeeder Model Nos.
65240	JCIS	0	3"	1.4 mm	NSB-14, NSB-17
65238	JCIS	0	2"	2.0 mm	NSB-20, NSB-23
65241	JCIS	0	3"	2.0 mm	NSB-20, NSB-23
65242	JIS	1	3"	2.3 mm	NSB-23, NSB-26, NSB-30
65243	JIS	1	3"	3.2 mm	NSB-30
65244	JIS	2	3"	3.2 mm	NSB-30



64327



64328

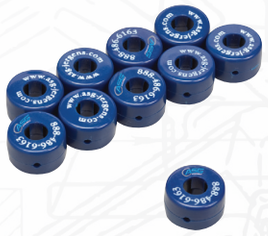
HEX & MILLIMETER ADAPTORS

Part No.	Use On Driver Size	Adapts to Drive Size
64328	1/4" Hex	4.0 mm
64327	4.0 mm	1/4" Hex
64340	1/4" Hex	5.0 mm
64339	5.0 mm	1/4" Hex

BIT MAGNETIZERS

Part No.
65230
65235*

*Sold in Pack of 10

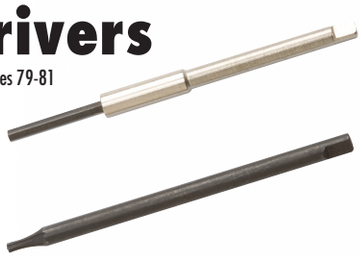


65235 pictured

65230 pictured

Precision Miniature Bits for Manual Drivers

See pages 79-81



TORX® MINI BITS

Part No.	Point Size
64738	T-1 Torx
64739	T-2 Torx
64740	T-3 Torx
64741	T-4 Torx
64742	T-5 Torx
64743	T-6 Torx
64744	T-8 Torx
64745	T-10 Torx
64746	TP-8 Torx (Tamper Proof)
64747	TP-10 Torx (Tamper Proof)

Torx® is a registered trademark of Camcar Division of Textron.

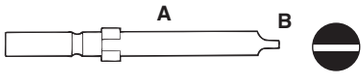
HEX MINI BITS

Part No.	Point Size
64748	.028" Hex
64749	.035" Hex
64750	.050" (#4) Hex
64751	.062" (#6) Hex
64752	.078" (#8) Hex
64753	.093" Hex
64754	.07 mm Metric Hex
64755	.09 mm Metric Hex
64756	1.3 mm Metric Hex
64757	1.5 mm Metric Hex
64758	2.0 mm Metric Hex
64759	2.5 mm Metric Hex

REQUIRED INSERT ADAPTOR

Part No.	Description
64737	Hex insert for miniature bits
64736	HIOS/Mini Blade
64735	Hex to mini power bit adapter

4.0 & 5.0 mm Drive Bits

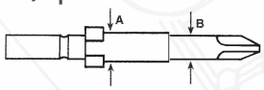


4.0 MM SLOTTED HEAD SCREW BITS

Part No. 40 mm	Part No. 60 mm	Part No. 80 mm	Dimensions (mm)		Dimensions (in)	
			A	B	A	B
N/A	64434	64460	1.1	.28	.043	.011
N/A	64435	64461	1.3	.28	.051	.011
N/A	64436	64462	1.5	.3	.058	.011
N/A	64437	64463	1.7	.3	.066	.011
N/A	64438	64464	1.8	.4	.070	.015
64441	64442	64465	2.0	.4	.079	.015
N/A	64443	64466	2.3	.4	.090	.015
64445	64446	64467	2.5	.4	.098	.015
N/A	64447	64468	2.8	.4	.110	.015
64449	64450	64469	3.0	.4	.118	.015
64453	64454	64455	4.0	.6	.157	.024

JIS

- (Japanese Industrial Standards)



JCIS

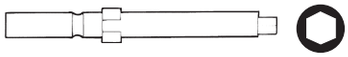
- (Japanese Camera Industrial Standards)

4.0 MM DRIVE BITS FOR PHILLIPS HEAD SCREW BITS

Point Style	Point Size	Point Diameter Dimension				Part No. 40 mm Length	Part No. 60 mm Length	Part No. 80 mm Length	Part No. 100 mm Length	Part No. 120 mm Length	Part No. 150 mm Length
		mm		in							
		A	B	A	B						
JCIS	00	4.0	1.5	.157	.058	64411	64412	64413	N/A	N/A	N/A
JCIS	00	4.0	2.0	.157	.079	N/A	N/A	N/A	64414	64415	N/A
JCIS	0	4.0	2.0	.157	.079	64416	64417	64418	64419	N/A	N/A
JCIS	0	4.0	2.5	.157	.098	64421	N/A	N/A	N/A	64420	N/A
JIS	1	4.0	4.0	.157	.157	64422	64423	64424	64425	64426	64427
JIS	2	4.0	4.0	.157	.157	64428	64429	64430	64431	64432	64433

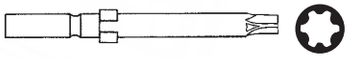
5.0 MM DRIVE BITS FOR PHILLIPS HEAD SCREW BITS

Point Style	Point Size	Point Diameter Dimension				Part No. 40 mm Length	Part No. 60 mm Length	Part No. 80 mm Length	Part No. 100 mm Length	Part No. 120 mm Length
		mm		in						
		A	B	A	B					
JCIS	0	5.0	2.5	.197	.098	N/A	64800	64801	64802	N/A
JIS	1	5.0	5.0	.197	.197	64803	64804	64805	64806	N/A
JIS	2	5.0	5.0	.197	.197	64807	64808	64809	64810	64816
JIS	3	5.0	7.0	.197	.276	N/A	64811	64812	64813	N/A



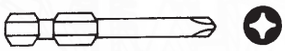
4.0 MM METRIC SOCKET HEAD SCREW BITS

Part No.	Hex Size	Length
64481	1.27 mm	60 mm
64482	1.5 mm	60 mm
64483	2.0 mm	60 mm
64484	2.5 mm	60 mm



4.0 MM TORX® HEAD SCREW BITS

Point Size	Part No. 40 mm Length	Part No. 60 mm Length Straight Shaft	Part No. 60 mm Length Stepped Shaft
T-5	64820	64821	N/A
T-6	64822	64824	64283
T-7	N/A	64826	64825
T-8	N/A	64827	N/A
T-10	N/A	64828	N/A
T-15	N/A	64829	N/A

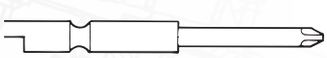


1/4" HEX DRIVE PHILLIPS HEAD SCREW BITS

Point Style	Point Size	Part No. 1-15/16" Length	Part No. 2-3/4" Length	Part No. 3" Length	Part No. 3-3/4" Length
JCIS	00	64512	N/A	N/A	N/A
JCIS	0	64501	N/A	N/A	N/A
JIS	1	64502	64503	64470	64473
JIS	2	64508	N/A	64472	64474

Manual screwdriver handles are available for use with 4.0 mm & 5.0 mm bits.
Part No. 64400: Wooden handle for 4.0 mm bit.
Part No. 64401: Wooden handle for 5.0 mm bit.

Please Note:
4.0 mm drive bits will also fit the following tools:
DELVO MOD ES20G, ES30B & ES40T (sold by Ingersoll Rand);
DELVO MOD ESD-20, ESD-25, 801, DLV6320, DLV6330 & DLV7320.
Bits supplied with these tools are illustrated below.:



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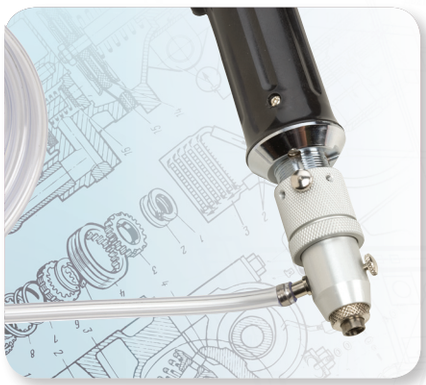
Accessories & Service Parts



Electric Driver Accessories	88-92
Screwfeeder Accessories	92
Pneumatic Driver Accessories	93
Torque Tester Accessories	94-95

ASG_AssemCat_Spring2011_FINAL_BODY_062911.indd 85 6/29/11 1:33 PM

Electric Driver Accessories

Pistol Grip Attachment Kit

64341 pictured

- Converts your inline driver or push-to-start tool to a pistol grip driver

PISTOL GRIP ATTACHMENT KIT SPECIFICATIONS

Part No.	Use With	Length	Height	Weight (oz)
64341	CL-6000, CL-6500, SS-6500, CL-7000, SS-7000, A-6500, A-6500HT, CL-7000HT	7 1/2"	5 1/2"	4
64243	VZ-Series	6"	6"	8
65508	BL-7000	6"	6"	8
65640	CL-4000, SS-4000, A-4500, A-5000, TL-Series	3 1/4"	5 1/2"	3

Right Angle Drive Kit

64323 pictured

- For restricted access locations
- Easily mounts onto nose of driver
- Used on 1/4" hex drive models

RIGHT ANGLE DRIVE KIT SPECIFICATIONS

Part No.	Use With	Max. Torque
64323*	CL-6000, CL-6500, SS-6500, CL-7000, SS-7000, A-6500, A-6500HT, CL-7000HT	15 lbf•in
64320	VZ-Series	27 lbf•in
65642	TL-Series	17 lbf•in

* Drivers with M 24x1.5 torque adjustment bolt thread

Torque Locking Options

64244 pictured

Typical CL-Series Locking Torque Nut

TORQUE LOCKING SPECIFICATIONS

Part No.	Description	Use With
64220	Tamper-resistant nut	CL-3000, SS-3000, CL-4000, SS-4000, A-4500 and A-5000
64233	Tamper-resistant nut	CL-6000, SS-6500, CL-6500, SS-7000, CL-7000 & CL-7000HT
64244	Torque cover & flange	VZ-Series
64240	Torque cover without flange	VZ-Series
64900	Lock Set – set screw & wrench	CL-6000, SS-6500, CL-6500, SS-7000, CL-7000, & CL-7000HT
64402	Tamper-resistant torque cover	BL-5000
64404	Tamper-resistant torque cover	BL-7000
65534	Torque cover	ES-Series
65644	Torque cover	TL-Series
65550	Torque cover	AC Series

Push-To-Start Adaptor Kit

Push-To-Start Adaptor Kit

- Converts your standard inline driver to push-to-start convenience

PUSH-TO-START ADAPTOR KIT SPECIFICATIONS

Part No.	Use With
64342	CL-4000, SS-4000, A-4500 and A-5000
64343	CL-3000, SS-3000

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64245 pictured

Flared Front Cover-Ring for VZ-Series Tools

- Helps user increase downward pressure without slippage

FLARED FRONT COVER-RING SPECIFICATIONS

Part No.	Use With
64245	VZ-Series

64248 pictured

Anti-Torque Reaction Assembly for VZ-Series Tools

- Absorbs torque reaction force to lighten operator fatigue
- Requires a tool support stand and a balancer (not included with torque reaction arm assembly) *see pages 73-74*

ANTI-TORQUE REACTION ASSEMBLY SPECIFICATIONS

Part No.	Use With
64247	VZ-Series/Lever Start
64248	VZ-Series/Push-To-Start

64249 pictured

Cushion Grip

- Slips on for soft gripping surface

CUSHION GRIP SPECIFICATIONS

Part No.	Use With
64249	VZ-Series/Push-To-Start

For a Selection of TLB Series Accessories, Contact ASG.

Tool Holster

- Ready to use convenience

TOOL HOLSTER SPECIFICATIONS

Part No.	Use With
65641	TL-Series

NOTE: Only One VZ Accessory Can be Used at One Time.

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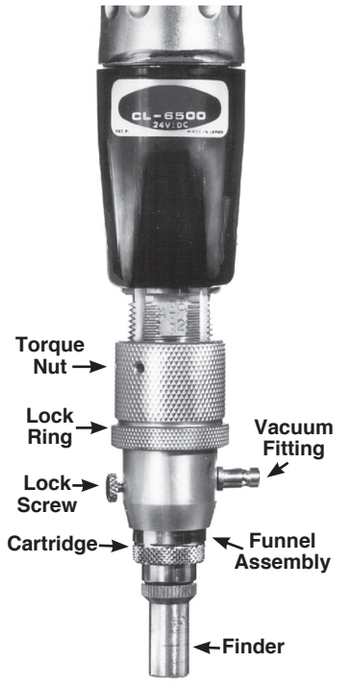
Vacuum Pick-Up Accessories



Complete vacuum pick-up kit and finder mounted on CL-series driver.

Vacuum Adaptor Kit

- Mounts easily to most BL, CL, SS, Alpha, TL & VZ-Series tools
- Allows pick up of non-ferrous screws
- Increases productivity

Finders

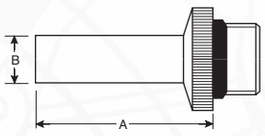
- Many pre-bored finders for common screw sizes available *(Please contact ASG for assistance)*

Custom Finders

- Designed for non-standard applications *(Please contact ASG for assistance)*

Blank Finders

- For do-it-yourself machining to fit your screw sizes



VACUUM ADAPTOR KITS

Part No.	For Use with Models
65502	BL-5000 (4.0 mm model only)
65507	BL-7000 (80 mm length bit)
64314	CL-2000
64319	CL-3000, SS-3000, CL-4000, SS-4000, A-4500, A-5000
64322	CL-6000, CL-6500, CL-7000, SS-6500, SS-7000, A-6500, A-6500HT, CL-7000HT with M 24x1.5 Torque Adjustment Bolt Thread
64246	VZ-1820, VZ-3012, VZ-4506
64318	SS-3000-ESD, SS-4000-ESD
64333	SS-6500-ESD, SS-7000-ESD
65643	TL-Series

Kit includes: Hose and all items pictured, except for finder. Order finders and bits separately.

BLANK FINDER SPECIFICATIONS

Part No.	Length A mm	Length A in	Diameter B mm	Diameter B in	Material	Use With
64324*	13mm	.47"	8mm	.31"	Brass	CL-2000 BL-3000 CL-3000 SS-3000 CL-4000 SS-4000 BL-5000 (4.0 mm) A-4500 A-5000
64344**	33mm	1.29"	8mm	.31"	Brass	
64348**	31mm	1.29"	8mm	.31"	Stainless	
64325***	25mm	.98"	8mm	.25"	Brass	CL-6000 CL-6500 CL-7000 CL-7000HT SS-7000 A-6500 A-6500HT SS-6500 VZ-Series
64326***	25mm	.98"	14mm	.39"	Brass	
64345	25mm	.98"	8mm	.25"	Plastic	
64346****	45mm	1.77"	14mm	.59"	Brass	
64347	25mm	.98"	14mm	.39"	Plastic	
64349****	45mm	1.77"	14mm	.59"	Stainless	

*Use with 60mm length bits
**Use with 80mm length bits
***Use with 2.75" length bits
****Use with 3.5" length bits
BL-5000 use with 40mm bit lengths

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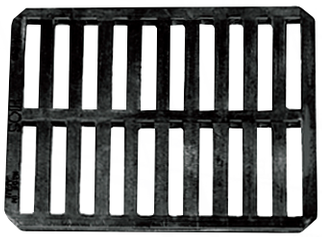
Shaker Boxes and Grid Plates

- Dump in screws, shake; fasteners orient themselves "heads up"
- Made of hard rubber
- Requires grid plate specific to screw size

64301 pictured

SHAKER BOX SPECIFICATIONS

Part No.	Dimension
64301	3- 3/4" x 4-1/2" x 1"



Grid Plate pictured

GRID PLATES SPECIFICATIONS

Part No.	Screw Size		
	mm	in	Fastener Size
64302	1.2 mm	.047"	00
	1.4 mm	.055"	00
64303	1.7 mm	.067"	0
64304	2.0 mm	.078"	1
64305	2.6 mm	.102"	3
64306	3.0 mm	.118"	4
64307	4.0 mm	.157"	6

64316 pictured

Vacuum Pumps

- Operates up to two vacuum drivers from a single pump
- 220V available

VACUUM PUMPS SPECIFICATIONS

Part No.	Voltage
64316	110V

Contact ASG's Technical Sales Department for Additional Information.

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Replacement Items

64181 pictured

CORDS SPECIFICATIONS

Part No.	Item	Use With
64180	10' Extension Cord	A, BL, CL, SS, TL-Series
64181	4' Cord	A, BL, CL, SS, TL-Series
64182	6' Cord	A, BL, CL, SS, TL-Series
64183	10' Cord	A, BL, CL, SS, TL-Series
64184	Coil Type	A, BL, CL, SS, TL-Series
64196	ESD 6' Cord	A, BL, CL, SS, TL-Series
728110	6' Cord	TL-Series

721409 pictured

BRUSH SET – 2 PIECES SPECIFICATIONS

Part No.	Use With
721426	CL-3000, A-4500, A-5000
721409	CL & SS-4000
721601	CL & SS-6000, 6500 & 7000, A-6500
722603	ACL-10
722918	CL-9000
723492	VZ-Series
728112	TL-Series
732102	AC-Series

721408 pictured

BRUSH CAP SPECIFICATIONS

Part No.	Use With
721408	CL & SS-4000
721602	CL & SS-6000, 6500 & 7000, A-6500
721916	CL-9000
722604	ACL-10
721077	A-4500
721630	A-6500
723494	VZ-Series
728114	TL-Series
732104	AC-Series

Accessories

Gauges pictured

ACCESSORIES FOR ASP-81 ADJUSTABLE RAIL FEEDER *SEE PAGE 63*

Part No.	Description
65230	Bit Magnetizer
65235	Bit Magnetizer Ring
65236	Adjusting Wrench
67420	AC Adaptor/Cord
67421	Shim set
67422	Stopper 1.0-2.0 mm

Part No.	Description
67423	Stopper 2.0-5.0 mm
67424	Gauge 0.8 mm
67425	Gauge 1.0 mm
67426	Gauge 1. 2 mm
67427	Gauge 1.5 mm
67428	Gauge 2.0 mm

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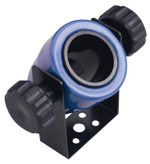
Pneumatic Tool Accessories

QUICK DISCONNECT FITTINGS SPECIFICATIONS

Part No.	Fitting Type	PT in	Nominal Size
68402	Coupler (Male PT)	1/4	1/4"
68400	Coupler (Female PT)	1/4	1/4"
68406	Nipple "H" (Male PT)	1/4	3/8"
68404	Nipple (Female PT)	1/4	3/8"



Part No. 68414 (Tool Holder/Holster) pictured

Tool Holder/Holster

- **Attach to the edge of bench or work station. Adjusts to hold tool at proper angle. Removable insert allows holder to be adjusted to fit two different diameter tools. Hole for large tools has 1.73" (44mm) diameter at top and is tapered to 1.53" (39mm) at bottom. Hole for smaller tools is 1.45" (37mm) at top and 0.98" (25mm) at bottom. Hole depth is 2.36" (60 mm) for either.**

68408 (Coil Hose) pictured

COIL HOSE SPECIFICATIONS

Part No.	Length	Hose ID	Size	Fittings
68408 NPT"	12'	5/16"	3/8"	1/4

68410 (Filter/Regulator/Lubricator) pictured

FILTER REGULATORS SPECIFICATIONS

Part No.	Description	Port Size	Filter Element	Adj. Range	Max Flow
68410	Filter/ Regulator/ Lubricator	1/4 PT"	20u	7-213 psi	38CFM
68416 38CFM	Filter/ Regulator	1/4 PT"	20u	7-213 psi	38CFM

68412 (Hose Reel/Balancer) pictured

HOSE REEL/BALANCER SPECIFICATIONS

Part No.	Weight Capacity		Fittings	Hose Length	Hose ID	Hose OD	Pressure
	lbs	kg					
68412	3.3 lbs	1.50	1/4 NPT"	6.5'	3/16"	5/16"	100psi

For a Selection of Pneumatic Tools See Page 39.

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Torque Tester Accessories

DTT-Series

66620 pictured

66612 pictured
(Shown with spring 66614)

66634 pictured

66616 pictured

STANDARD ADAPTORS: EACH TESTER IS SUPPLIED WITH ONE OR MORE ADAPTORS

Part No.	DTT Adaptor Description	Torque Range	
66620	Small, 4mm	.25 - 2 lbf•in .028 .226 N•m 0.29 - 2.3 kgf•cm	Has a 3/8" square base and fits directly into the 3/8" female square on the DTT meter
66612	Standard, 1/4" Hex	1.3 - 5 lbf•in .147 - .565 N•m 1.5 - 5.8 kgf•cm	When fitted with yellow/gold spring 66614
		4.5 - 26 lbf•in .508 - 2.94 N•m 5.2 - 30.0 kgf•cm	When fitted with black spring 66616
66618	Large, 1/4" Hex	25 - 80 lbf•in 2.82 9.04 N•m 28.8 - 92.2 kgf•cm	Has a 3/8" square base and fits directly into the 3/8" female square on the DTT meter
66634	3/8" Hex	50 - 200 lbf•in 5.65 - 22.6 N•m 57.6 - 230.4 kgf•cm	Has a 3/8" square base and fits directly into the 3/8" female square on the DTT meter
66642	3/8" Hex	50 to 500 lbf•in 5.65 - 56.5 N•m 57.6 - 576.1 kgf•cm	Has a 3/8" square base and fits directly into the 3/8" female square on the DTT meter

STANDARD ACCESSORIES, SUPPLIED WITH EACH DTT TESTER

Part No.	Description
66608	110 VAC Battery Charger
66622	RS-232 Cable
66626	Plastic Case
NA	MEM-Loader Software Package

OPTIONAL ACCESSORIES

Part No.	Description
66624	Multi Function Mounting/Calibration Bracket

Standard Plastic Case
Part No. 66626

Multi function mounting/
calibration bracket
Part No. 66624
(Not for use with DTT-200 or 500)

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Torque Tester Accessories

H-Series

64047 pictured

DRIVER ADAPTORS

Part No.	Torque Range	Drive Size	Bit Size	Use with Tester Models
64048	.25 - 2 lbf•in	4 mm	—	HP-10
64043	.25 - 2 lbf•in	—	#0 Phillips	HP-10
64049	1.3 - 5 lbf•in	1/4" hex	—	HP-10
64044	1.3 - 5 lbf•in	—	#1 Phillips	HP-10
64050	1.3 - 5 lbf•in	4 mm	—	HP-10
64047	4.5 - 26 lbf•in	1/4" hex	—	HP-100, ASG-25, ASG-50 & ASG-100
64045	4.5 - 26 lbf•in	—	#2 Phillips	HM-100
64055	4.5 - 26 lbf•in	5 mm	—	HP-100, ASG-25, ASG-50 & ASG-100
64052	26 - 80 lbf•in	1/4" hex	—	HP-100, ASG-50 & ASG-100
64054*	26 - 80 lbf•in	1/4" hex	—	HP-100, ASG-50 & ASG-100
64069	25 - 250 lbf•in	3/8"	—	ASG-250

*Must be used with CL-9000.

REPLACEMENT BATTERY CHARGERS FOR PORTABLE TORQUE METERS

Part No.	Description	Use With
64019	110-240 V charger 50 hz	HP & HDP Series (current style)
64018	110-120 V charger 60 hz	HP, HDP (old style), HM & HIT-Series
64015	220-240 V charger 50 hz	HP, HDP (old style), HM & HIT-Series

Computer Interface

- Connect torque tester to computer
- Put data directly into spreadsheet
- Compatible with Excel® or Lotus®

COMPUTER INTERFACE SPECIFICATIONS

Part No.	Description
64002	Input Tool

Note: Interface cable required to connect computer interface to torque tester

Interface Cable

- From tester to printer or computer interface

INTERFACE CABLE SPECIFICATIONS

Part No.	Description
66032	1 meter length
66034	2 meter length

Optional Printer Available. Contact ASG for Information.

Repair & Calibration

Repair Services

Full-service repair for many automated assembly tools including:

- Hios torque controlled screw drivers and torque testers
- Quicher & Nejicco precision screw feeders
- ASG automated tape dispensers and torque testers
- Note: Please contact ASG for a return authorization number prior to shipping an item for repair. Call us at 888-486-6163 or email us at service@asg-jergens.com.

Calibration Services

- Certified calibrations for Hios, ASG, Mountz, CDI, and other torque testers.
- Calibration of Hios screw drivers to specific torque settings.
- Our procedures comply with ISO 10012-1, with weights traceable to N.I.S.T.

Repairs

Should a product be returned for Service or Warranty, contact ASG at 888-486-6163 for a Service Order Number (SO#). No items will be received without prior authorization. Be sure to include a brief written description of the problem, your company name, address, phone number, and a contact name.

An ASG technician will notify you by phone with information regarding your repair.

Customer Benefits

- Repairs turnaround in 5 to 10 days, rush service available upon request.
- Large stock of common service and consumable parts.
- Technical support, product recommendation, and custom/modifications for assembly applications.

Assembly Tool Warranty

ASG warrants to the original purchaser buying an ASG Assembly Tool product with the intention of use rather than for resale, for a period of:

Two years: BL-Series*; CL-Series Tools*; SS-Series*; Torque Testers; A-Series*; CLT & T-Series

One year: VZ-Series*; VB-Series, ES-Series, ED-Series, TLB-Series, AC-Series, Manual Drivers; Process Qualifiers, Screw Counters; Smart Torq Devices; Pneumatic Series; TL-Series, PS-Series, X-PAQ

Six months: Screw Feeders; Tape and Label Dispensers

ASG will repair and replace those items found to be defective or otherwise fail to conform or at ASG's option, repay the price paid for the item. The Buyer's remedies with respect to any item found to be defective or otherwise not conforming shall be limited EXCLUSIVELY to the right of replacement. In no event shall ASG be liable for any incidental special or consequential damages or for damages in the nature of penalties.

Disclaimer: Seller makes no other warranty whatever, expressed or implied, and all implied warranties of merchantability and fitness for a particular purpose are disclaimed and excluded from this transaction and shall not apply to the goods sold hereunder.

*Excludes driver and power pack used in automated applications.

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Reference Values

TORQUE VALUES FOR VARIOUS FASTENER MATERIALS *(LBF•IN EXCEPT WHERE NOTED)*

Screw Size	Threads per inch	Phillips Bit Size	Mild Steel	18-8 Stainless Steel	316 Stainless Steel	Brass	Silicon Bronze	2024-T Aluminum	Monel	Socket Head Cap Screw	Flat Head Cap Screw	Set Screw	Button Head Cap Screw
0	80	0	1	14 ozf•in	16 ozf•in	11 ozf•in	13 ozf•in	8 ozf•in		2.6	2.0	8 ozf•in	1.5
1	64	0	1.5,	1.5	1.5	1.2	1.5	9 ozf•in		4.5	4.2	1.8	2.0
	72	0	2							4.8			
2	56	1	2.2	2.5	2.6	2.0	2.3	1.4	2.5	7.5	4.2	1.8	4.0
	64	1	2.7	3.0	3.2	2.5	2.8	1.7	3.1	8.0			
3	48	1	3.5	3.9	4.0	3.2	3.6	2.1	4.0	11.0	7.0	5.0	5.5
	56	1	4.0	4.4	4.6	3.6	4.1	2.4	4.5	12.0			
4	40	1	4.7	5.2	5.5	4.3	4.8	2.9	5.3	16.0	9.5	5.0	7.5
	48	1	5.9	6.6	6.9	5.4	6.1	3.6	6.7	18.0			
5	40	2	6.9	7.7	8.1	6.3	7.1	4.2	7.8	24.0	19.0	9.5	11.0
	44	2	8.5	9.4	9.8	7.7	8.7	5.1	9.6	24.0			
6	32	2	8.7	9.6	10.1	7.9	8.9	5.3	9.8	30.0	19.0	9.5	12.5
	40	2	10.9	12.1	12.7	9.9	11.2	6.6	12.3	34.0			
8	32	2	17.8	19.8	20.7	16.2	18.4	10.8	20.7	55.0	30.5	19.4	23.0
	36	2	19.8	22.0	23.0	18.0	20.4	12.0	22.4	58.0			
10	24	2	20.8	22.8	23.8	18.6	21.2	13.8	25.9	79.0	65.0	33.5	45.0
	32	2	29.7	31.7	33.1	25.9	29.3	19.2	34.9	90.0			
1/4"	20	3	65.0	75.2	78.8	61.5	68.8	45.6	85.3	200.0	140.0	77.9	105.0
	28	3	90.0	94.0	99.0	77.0	87.0	57.0	106.0	230.0			

1. Blank area indicates that no torque values are available for fasteners in these sizes and material.
2. Some fastener types only have one torque value for two different threads per inch.

TORQUE CONVERSION FACTORS

Units to be Converted	Imperial			Metric			International System		
	ozf•in	lbf•in	lbf•ft	gf•cm	kgf•cm	kgf•m	mN•m	cN•m	N•m
1 ozf•in =	1.0	0.0625	0.005	72.0	0.072	0.0007	7.062	0.706	0.007
1 ozf•in =	16.0	1.0	0.083	1152.1	1.152	0.0115	113.0	11.3	0.113
1 ozf•in =	192.0	12.0	1.0	13826.0	13.83	0.138	1356.0	135.6	1.356
1 gf•cm =	0.014	0.0009	0.00007	1.0	0.001	0.00001	0.098	0.01	0.0001
1 kgf•cm =	13.89	0.868	0.072	1000.0	1.0	0.01	98.07	9.807	0.098
1 kgf•m =	1389.0	86.8	7.233	100000.0	100.0	1.0	9807.0	980.7	9.807
1 mN•m =	0.142	0.009	0.0007	10.2	0.01	0.0001	1.0	0.1	0.001
1 cN•m =	1.416	0.088	0.007	102.0	0.102	0.001	10.0	1.0	0.01
1 N•m =	141.6	8.851	0.738	10197.0	10.20	0.102	1000.0	100.0	1.0

TORQUE VALUES FOR SMALL METRIC FASTENERS (KGF•CM)

Type of Screw Head	Metric Screw Size									
	M2.0	M2.3	M2.6	M3.0	M3.5	M4.0	M4.5	M5.0	M6.0	M8.0
Pan Head	1.4	2.3	3.3	4.9	8.2	12.0	17.0	24.0	42.0	104.0
Truss Head	1.5	2.5	3.6	5.3	9.1	13.0	19.0	26.0	47.0	113.0
Binding Head	1.5	1.5	3.6	5.1	8.8	13.0	18.0	25.0	45.0	110.0
Flat or Oval Head	1.8	3.9	4.2	6.1	10.4	15.0	23.0	30.0	53.0	132.0

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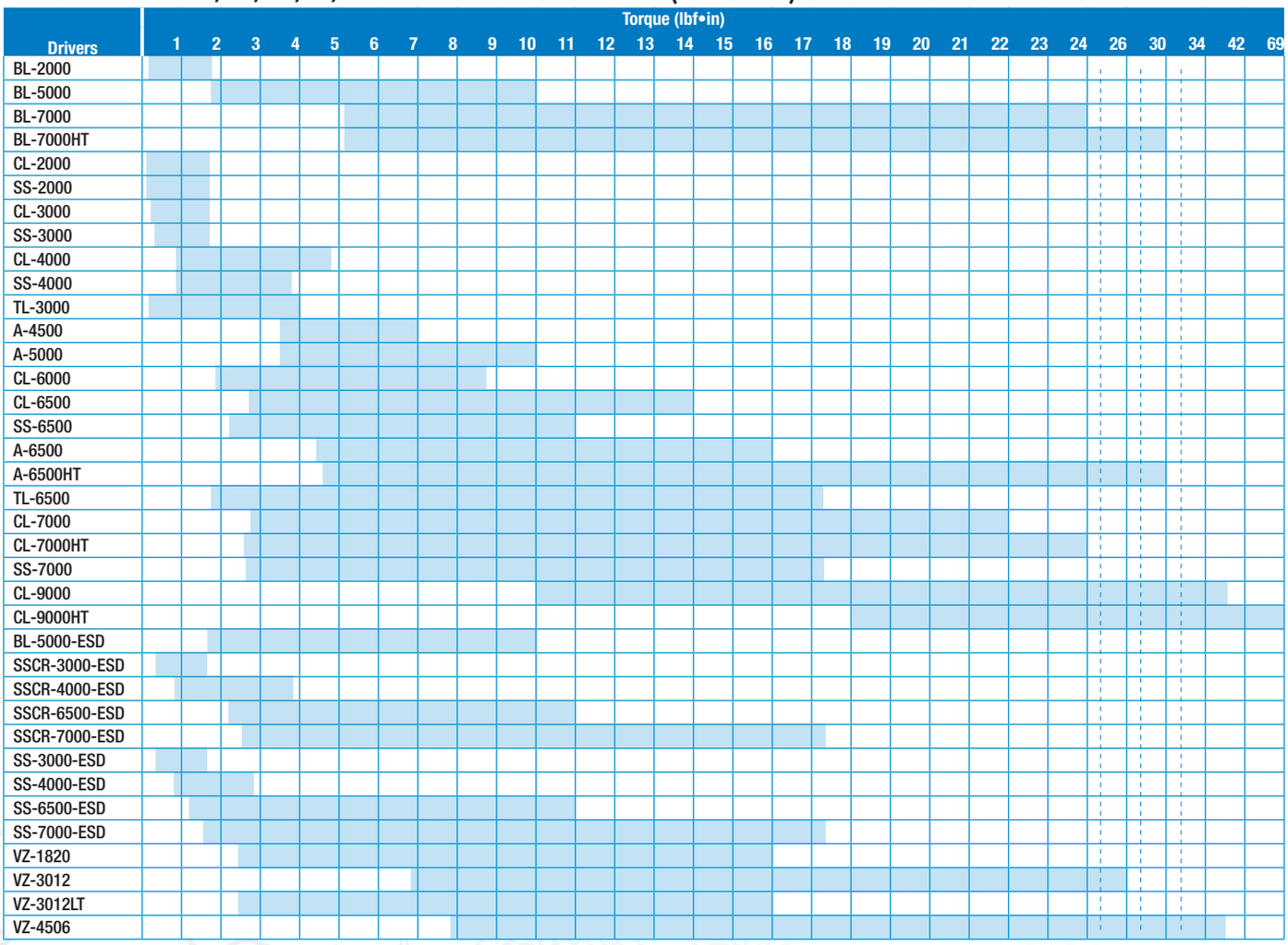
TORQUE CHART: BL, CL, SS, TL, VZ & ALPHA SERIES DRIVERS (IN LBF•IN)



RECOMMENDED SCREW SIZES BY DRIVER & RPM

Tool	Screw Sizes		RPM	
	(in)*	(mm)	30VDC	20VDC
BL-2000	000 to 2	1.0 to 2.3	990	650
BL-5000	1 to 4	2.0 to 3.0	900	590
BL-7000	3 to 10	2.6 to 5.0	1050	730
BL-7000-HT	3 to 10	2.6 to 5.0	740	500
CL-2000	000 to 2	1.0 to 2.3	680	490
SS-2000	000 to 2	1.0 to 2.3	680	490
CL-3000	00 to 1	1.0 to 2.0	1000	670
SS-3000	00 to 1	1.0 to 2.0	1000	670
CL-4000	0 to 3	1.4 to 2.6	1000	690
SS-4000	0 to 2	1.4 to 2.3	1000	690
TL-3000	0 to 3	1.4 to 2.6	1000	700
A-4500	1 to 4	2.0 to 3.0	1700	1200
A-5000	1 to 4	2.0 to 3.0	1000	700
CL-6000	1 to 4	2.0 to 3.0	800	500

Tool	Screw Sizes		RPM	
	(in)*	(mm)	30VDC	20VDC
CL-6500	1 to 6	2.0 to 3.5	900	600
SS-6500	1 to 6	2.0 to 3.5	900	600
A-6500	2 to 6	2.3 to 3.5	1700	-
A-6500HT	3 to 10	2.6 to 5.0	690	-
TL-6500	1 to 6	2.0 to 3.5	700	500
CL-7000	2 to 8	2.3 to 4.0	750	-
SS-7000	2 to 8	2.3 to 4.0	750	-
CL-7000HT	2 to 8	2.3 to 4.0	550	-
CL-9000	4 to 10	3.0 to 5.0	530	N/A
CL-9000HT	4 to 10	3.0 to 5.0	350	N/A
VZ-1820	3 to 8	2.6 to 4.0	2000†	2000†
VZ-3012	4 to 10	3.0 to 5.0	1200†	1200†
VZ-4506	2 to 10	2.0 to 5.0	600T	600T

*All fasteners are machine screws being placed into threaded holes. To determine self tapping screw sizes for a particular driver, use one screw size smaller than those listed above.

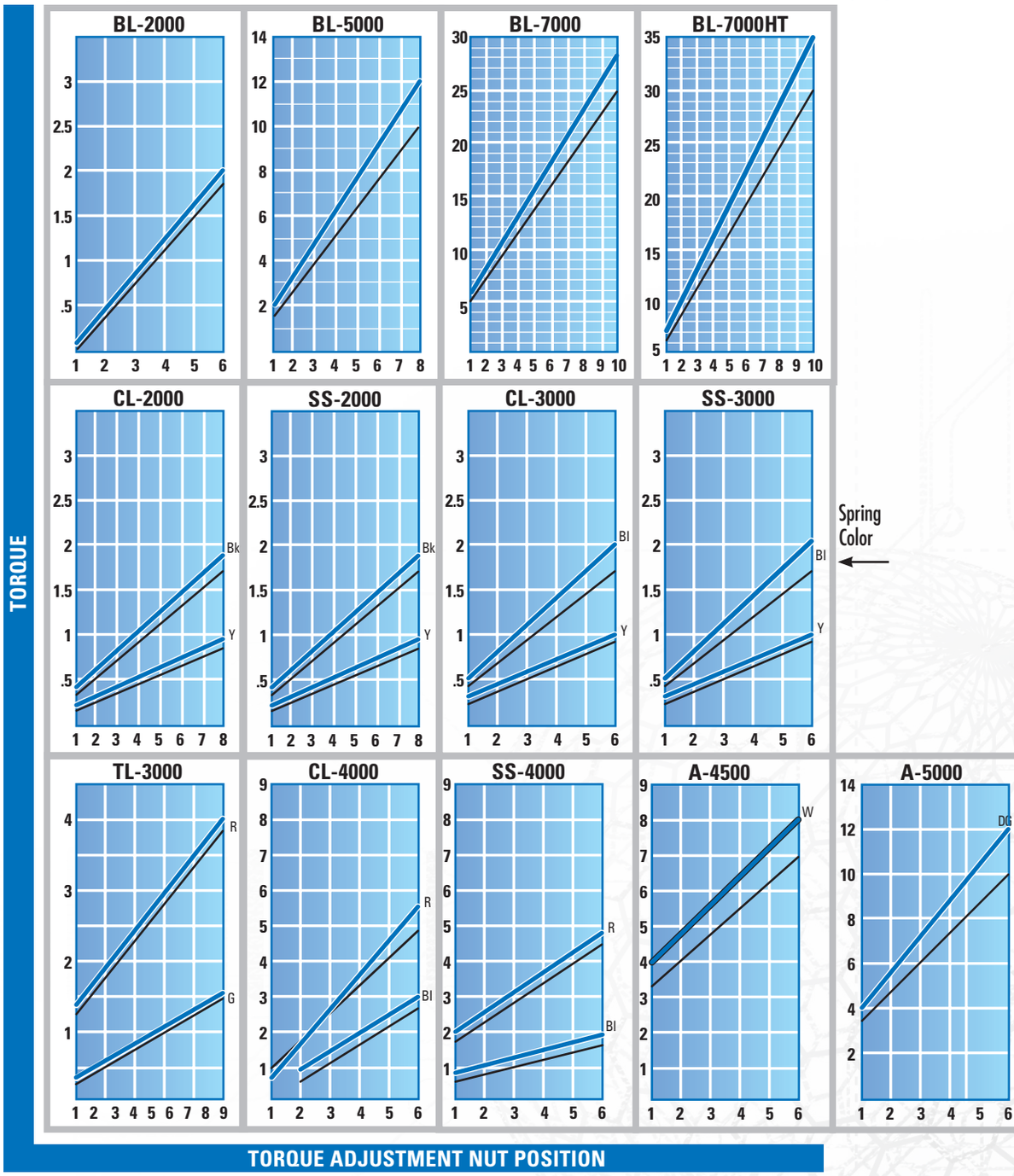
†At 110/120V, 120VAC

Quick Reference Torque Guide

These graphs are meant to be used as guidelines for setting the torque on the BL, CL, SS, TL, Alpha and VZ series drivers. The drivers have a torque scale on the torque adjusting bolt showing reference numbers.

These numbers determine the approximate torque setting. Refer to the graphs to determine the reference number setting for your torque requirement.

Torque Graph: BL, CL, SS, VZ, TL & Alpha Series Drivers *(Continued on next page)*



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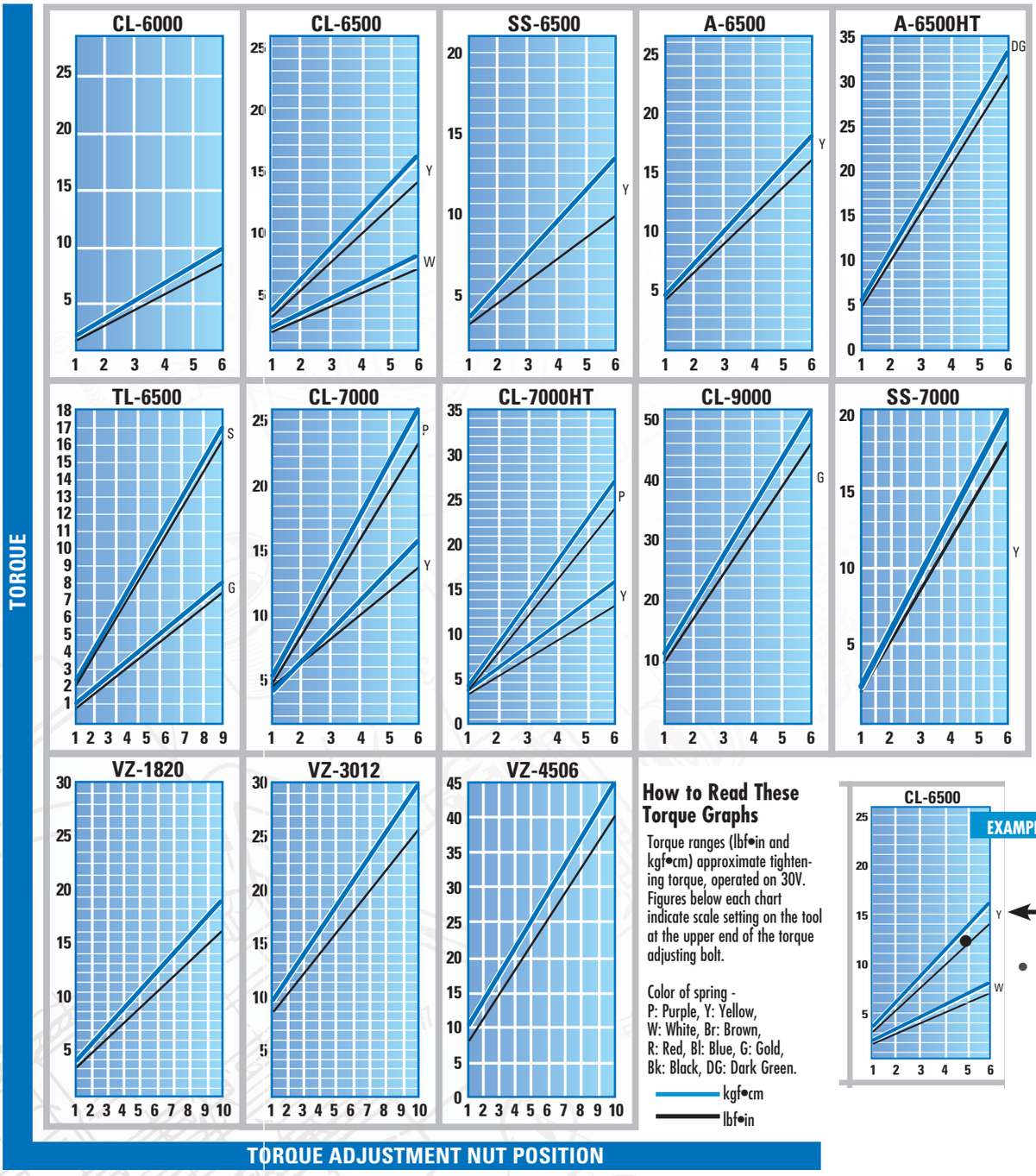
Torque Graph: BL, CL, SS, VZ, TL & Alpha Series Drivers *(Continued from previous page)*



How to Read These Torque Graphs

Torque ranges (lbf•in and kgf•cm) approximate tightening torque, operated on 30V. Figures below each chart indicate scale setting on the tool at the upper end of the torque adjusting bolt.

Color of spring -
P: Purple, Y: Yellow,
W: White, Br: Brown,
R: Red, Bl: Blue, G: Gold,
Bk: Black, DG: Dark Green.

kgf•cm
lbf•in

- *EXAMPLE: Using a yellow spring, when the torque bolt is tightened to the #5 position, the CL-6500 will have an approximate tightening torque of 13 kgf•cm.*

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What is Torque and why is it important to my application?

1. **Torque is the moment of a force; the measure of a force's tendency to produce torsion and rotation about an axis, equal to the vector product of the radius vector from the axis of rotation to the point of application of the force and the force vector.**
2. **A turning or twisting force.**

- **Torque controlled assembly can reduce returns, re-work, and scrap**
- **Torque controlled assembly can make your product a winner in today's quality-conscious marketplace**
- **Torque control from ASG is available from electric inline to manual drivers . . . all designed to eliminate over- or under-tightening of fasteners in your product**

ASG has many Torque Driver models to choose from. What is the difference and how do I determine which driver is best for my application?

Determine your required torque. If you know the screw/fastener size and material, reference the torque value chart on page 97. If you do not know, our field representatives are available to assist you.

Brushless DC Electric Drivers: BL-Series

- Brushless motor with magnetic switches extends driver life
- Higher duty cycle results in minimal heat build-up
- For high production environments
- For vertical insertion of fasteners
- Also recommended wherever clean room assembly or static control is an issue
- Torques are adjusted externally. Tamper-proof torques are available
- Value-Engineered models available (TLB Series) *See page 17*

See Pages 10-11

DC Electric Drivers: CL, SS, A, TL, SSCR & ESD-Series

- For production environments
- For vertical insertion of fasteners
- Also recommended wherever clean room assembly or static control is an issue
- Torques are adjusted externally. Tamper-proof torques are available
- Can be wired for forward or reverse torque control

See Pages 12-16

Plug-In AC Electric Drivers: VB & VZ-Series

- For production environments
- For vertical insertion of fasteners
- Plugs directly into 110VAC; no transformer needed
- Torques are adjusted externally by turning the torque nut. Tamper-proof torques are available
- Torque control in both forward and reverse

See Pages 20-22

Manual Drivers: ASG-Series

- For lower volume assembly or where access is limited
- Two styles available: adjustable or pre-set torque

See Pages 79-81

Pneumatic: HP, HL, HBP, HA and HAW-Series

- Stop automatically when torque is reached
- Lever Start, Push-to-Start, Pistol Grip and Right Angle models

See Pages 39-45

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