

Leetx

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Leetx

TIGHTENING TOOLS AND SOLUTIONS

Tightening Tools and Solutions



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Product Overview

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COMPANY PROFILE

A Pioneer / Pioneering force of Intelligent Security Equipment

ASEEK is a pioneer in the security field, with a strong commitment to superior technology security.

ASEEK offers comprehensive lines of high-quality, advanced security products, from access control, intrusion detection, fire alarm, and video surveillance systems. The company has established regional offices in Indonesia, Malaysia, and the Philippines, and has a strong presence in the Southeast Asian market. ASEEK is a pioneer in the security field, with a strong commitment to superior technology security.

ASEEK is a pioneer in the security field, with a strong commitment to superior technology security. The company has established regional offices in Indonesia, Malaysia, and the Philippines, and has a strong presence in the Southeast Asian market. ASEEK is a pioneer in the security field, with a strong commitment to superior technology security.

35%

Market share in Indonesia

500+

Offices

10,000+

Accumulated completed projects



Full Stack in Smart Development / Digitalization

ASEEK offers a full stack of smart development services, from the design and development of smart systems to the implementation and maintenance of smart systems. The company has a strong presence in the smart development market, and has a strong commitment to superior technology security.



Four-Pronged Lines in Parallel / Mobile Coverage

ASEEK offers a four-pronged lines in parallel, covering mobile coverage, cloud storage, cloud computing, and cloud security. The company has a strong presence in the mobile coverage market, and has a strong commitment to superior technology security.



Based in China / Serving the World

ASEEK is a company based in China, with a strong commitment to superior technology security. The company has a strong presence in the global market, and has a strong commitment to superior technology security.



GLOBAL SERVICE NETWORK



INDUSTRY APPLICATION



Driven by innovation, smart lighting requirements in various industries. Safety, availability in every environment.

We offer manual, semi-automatic and fully automatic lighting solutions to help customers to enhance safety and productivity.

PRODUCT OVERVIEW

Lighting by Design products are built to last. Our products are designed to last for decades, not just years. Our products are built to last. Our products are designed to last for decades, not just years. Our products are built to last. Our products are designed to last for decades, not just years.

Lighting by Design products are built to last. Our products are designed to last for decades, not just years. Our products are built to last. Our products are designed to last for decades, not just years. Our products are built to last. Our products are designed to last for decades, not just years.

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Transmitter controller platform



Receiver and signal controller platform



Condition-based Controller Platform



Endsight



Lighting Solutions







Intelligent lightning system

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2000 SERIES



TCS.2000
Lightning System

Intelligent lightning system
with remote digital monitor

TCS.2000B
Lightning System

Intelligent lightning system
with remote digital monitor

WCS.2000
Wireless Lightning System

Wireless lightning system
with remote digital monitor

TCS.2000



Screwdriver

TCS 2000 TIGHTENING PLATFORM

TCS 2000 Controller

TCS CONTROLLER



Flexible and Wireless

The TCS 2000 is a compact, rugged, and wireless tightening controller. It is designed for use in a variety of applications, including industrial, construction, and marine.



Precision Monitoring

The TCS 2000 is a precision tightening controller. It is designed for use in a variety of applications, including industrial, construction, and marine. It features a high-precision torque sensor and a real-time monitoring system.



Full Traceability

The TCS 2000 is a full traceability tightening controller. It is designed for use in a variety of applications, including industrial, construction, and marine. It features a real-time monitoring system and a data logging system.

EHA/EHS Screwdriver

EHA/S SCREWDRIVER



More Complete

The EHA/EHS screwdriver is a complete tightening tool. It is designed for use in a variety of applications, including industrial, construction, and marine.



More Wireless

The EHA/EHS screwdriver is a wireless tightening tool. It is designed for use in a variety of applications, including industrial, construction, and marine. It features a high-precision torque sensor and a real-time monitoring system.



More Than Functionality

The EHA/EHS screwdriver is a more than functionality tightening tool. It is designed for use in a variety of applications, including industrial, construction, and marine.

TCS.2000

Controller

The TCS.2000 controller supports both fully self-developed software, open source, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems.

Product Features & Advantages

Comprehensive Functions

Supports multiple data acquisition and control systems, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems.

High Reliability

Supports multiple data acquisition and control systems, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems.

High Accuracy

Supports multiple data acquisition and control systems, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems.

High Performance

Supports multiple data acquisition and control systems, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems. It can be used in a variety of applications, including: lighting control, data acquisition, and control systems.

30,000
Data Acquisition Points

100,000
Data Acquisition Points

1000
Data Acquisition Points



Functional Description



Supports multiple data acquisition and control systems.



Supports multiple data acquisition and control systems.



Supports multiple data acquisition and control systems.



Supports multiple data acquisition and control systems.



Model	Channels	Bridge	Resolution	Power Supply	Output Power	Input Power	Output Power
TCS.2000-1	10000	10000	10000	10000	10000	10000	10000
TCS.2000-2	10000	10000	10000	10000	10000	10000	10000
TCS.2000-3	10000	10000	10000	10000	10000	10000	10000
TCS.2000-4	10000	10000	10000	10000	10000	10000	10000
TCS.2000-5	10000	10000	10000	10000	10000	10000	10000
TCS.2000-6	10000	10000	10000	10000	10000	10000	10000
TCS.2000-7	10000	10000	10000	10000	10000	10000	10000
TCS.2000-8	10000	10000	10000	10000	10000	10000	10000
TCS.2000-9	10000	10000	10000	10000	10000	10000	10000
TCS.2000-10	10000	10000	10000	10000	10000	10000	10000

Lighting Data Acquisition



1



2



3



4



5

Reference Range	Resolution	Input Power	Output Power
1	10000	10000	10000
2	10000	10000	10000
3	10000	10000	10000
4	10000	10000	10000
5	10000	10000	10000

TCS.2000

Tightening Tool

ERA/ERS Series Handheld Screwdrivers

Our ERA/ERS series screwdrivers were developed specifically for precision low torque assembly applications. With innovative drive technology and an ergonomic structural design, they establish a new benchmark for electric screwdriver performance.



Characteristics

Electronically Controlled Torque Protection

Enables the user to select torque settings from 0.05 to 1.0 Nm.

Intelligent Counting Function

Enables the user to set the number of turns from 10 to 999 turns, as well as the number of turns per second.

Ergonomic Design

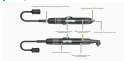
The ergonomic design incorporates an advanced vibration control system, an ultra-lightweight design, and a low center of gravity to reduce fatigue.

Soft Stop Technology

Soft stop technology reduces the risk of over-tightening and damage to the workpiece and tool.

EHA/EHS Series Handheld Screwdrivers

Technical Diagram



Dimensional Diagram



Technical Data

Model	1	2	3	4	5	6	7	8
EHA-1000	20	12	100	100	100	100	100	100
EHA-1000-1000	20	12	100	100	100	100	100	100
EHA-1000	20	12	100	100	100	100	100	100
EHA-1000	20	12	100	100	100	100	100	100
EHA-1000	20	12	100	100	100	100	100	100

EHS Corded Straight Screwdrivers

EHS Series - Handheld Straight Screwdrivers



Technical Diagram

Model	Accessories	Rated Power	Max. Torque (Nm)	Max. Speed (RPM)	Speed (RPM)	Max. Length (mm)	Max. Weight (kg)
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10

Technical Diagram

Model	Accessories	Rated Power	Max. Torque (Nm)	Max. Speed (RPM)	Speed (RPM)	Max. Length (mm)	Max. Weight (kg)
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10
EHS-1000-1000	EHS-1000-1000	1000	100	10	1000	1000	10

*Data are approximate and may vary.

EHS.X.MQ0 Fixed Screwdriver

Technical Diagram



Technical Data

Model	Handle	Fixed Type	Max. Torque (Nm)	Max. Torque (ft-lb)	Max. Speed (rpm)	Max. Torque (Nm)	Max. Speed (rpm)
EHS.X.MQ00	ABS/PC	Fix	1.4	1	1000	0.05	1
EHS.X.MQ000	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ010	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ020	ABS/PC	Fix	1.4	1	1000	0.05	1
EHS.X.MQ030	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ040	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ050	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ060	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ070	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ080	ABS/PC	Fix	1.4	1	1000	0.05	10
EHS.X.MQ090	ABS/PC	Fix	1.4	1	1000	0.05	10

*Maximum torque at 1000 rpm

Accessories



A, B



C

Type	Model	Specification	Order No.
A	Single-flute black hexagonal screwdriver	30 mm (1.18 in)	A000000
B	Single-flute black hexagonal screwdriver	30 mm (1.18 in)	A000000
C	Single-flute black hexagonal screwdriver	30 mm (1.18 in)	A000000
	Single-flute black hexagonal screwdriver	30 mm (1.18 in)	A000000

EHA Corded Angle Screwdrivers

Technical Diagram



Technical Data

Model	Handle	Fixed Type	Max. Torque (Nm)	Max. Torque (ft-lb)	Max. Speed (rpm)	Max. Torque (Nm)	Max. Speed (rpm)
EHA.X.MQ00	ABS/PC	Fix	1.4	1	1000	0.05	1
EHA.X.MQ010	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ020	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ030	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ040	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ050	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ060	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ070	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ080	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ090	ABS/PC	Fix	1.4	1	1000	0.05	10

Technical Diagram



Technical Data

Model	Handle	Fixed Type	Max. Torque (Nm)	Max. Torque (ft-lb)	Max. Speed (rpm)	Max. Torque (Nm)	Max. Speed (rpm)
EHA.X.MQ00	ABS/PC	Fix	1.4	1	1000	0.05	1
EHA.X.MQ010	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ020	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ030	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ040	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ050	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ060	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ070	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ080	ABS/PC	Fix	1.4	1	1000	0.05	10
EHA.X.MQ090	ABS/PC	Fix	1.4	1	1000	0.05	10

TCS.2000B



Nutrunner and Spindle
TCS.2000B NUTRUNNER AND SPINDLE

TCS.2000B Controller TCS CONTROLLER



Ease of Use & Full Functionality

The TCS.2000B controller is a compact, lightweight, portable unit that can be used in a variety of applications. It is a full-function unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.



Powerful Lighting

The TCS.2000B controller is a powerful unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.



Powerful LED

The TCS.2000B controller is a powerful unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.

NRA/NRS Nutrunner EFS Spindle NRA/S EFS TOOL



More Complete

The NRA/NRS Nutrunner EFS Spindle is a complete unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.



More Efficient

The NRA/NRS Nutrunner EFS Spindle is a complete unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.



More User Friendly

The NRA/NRS Nutrunner EFS Spindle is a complete unit with a large, high-resolution, color display screen. It is also a full-function unit with a large, high-resolution, color display screen.

Tightening Tool

The following is a list of the names of the persons who have been appointed to the various committees of the Board of Directors of the Corporation, and the names of the persons who have been appointed to the various committees of the Board of Directors of the Corporation, and the names of the persons who have been appointed to the various committees of the Board of Directors of the Corporation.



NRA/NRS Series Handheld Nutrunner

Technical Diagrams



Accessories Diagram



Accessories Diagram	Model	Chuck Size	A	B	C	D	E	F	G	H
1	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
2	NRA-1000	1/2" (12.7)	400	400	400	150	150	150	150	150
3	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
4	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
5	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
6	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
7	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
8	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
9	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
10	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
11	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
12	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
13	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
14	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
15	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
16	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
17	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
18	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
19	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
20	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
21	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
22	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
23	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
24	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
25	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
26	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
27	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
28	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
29	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
30	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
31	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
32	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
33	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
34	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
35	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
36	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
37	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
38	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
39	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
40	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
41	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
42	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
43	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
44	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
45	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
46	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
47	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
48	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
49	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150
50	NRA-1000	1/2" (12.7)	127	400	400	400	150	150	150	150

NRS Series - Straight Nutrunner

Technical Diagrams

- 1 Tool with a straight handle for the NRS.
- 2 Simple design with easy operation.
- 3 Compact design with 100mm.
- 4 Visible light through all angles.



Accessories Diagram

Model	Material	Dimensions	Weight (kg)	Length (mm)	Width (mm)	Height (mm)
NRS-1000	Aluminum	100x100	1.0	100	100	100
NRS-1000	Aluminum	100x100	1.0	100	100	100

HEA Series - Angle Nutrunner

Characteristics

- Fast and easy insertion for tight fit
- Simple design and easy operation
- Torque range 4-100 Nm
- Wide opening from 45 angles

Technical Diagram



Technical Diagram

Model	Max. Torque	Max. Speed	Max. Torque	Max. Torque	Max. Torque	Max. Torque
HEA-100	100 Nm	1000 rpm	100	100	100	100
HEA-150	150 Nm	1000 rpm	150	150	150	150
HEA-200	200 Nm	1000 rpm	200	200	200	200
HEA-250	250 Nm	1000 rpm	250	250	250	250
HEA-300	300 Nm	1000 rpm	300	300	300	300
HEA-350	350 Nm	1000 rpm	350	350	350	350
HEA-400	400 Nm	1000 rpm	400	400	400	400

Accessories

Technical Diagram



A



B

Technical Diagram

Model	Description	Quantity	Accessories
A	HEA Series Angle Nutrunner	100	HEA-100
A	HEA Series Angle Nutrunner	100	HEA-150
A	HEA Series Angle Nutrunner	100	HEA-200
A	HEA Series Angle Nutrunner	100	HEA-250
A	HEA Series Angle Nutrunner	100	HEA-300
A	HEA Series Angle Nutrunner	100	HEA-350
A	HEA Series Angle Nutrunner	100	HEA-400
A	HEA Series Angle Nutrunner	100	HEA-450
A	HEA Series Angle Nutrunner	100	HEA-500
A	HEA Series Angle Nutrunner	100	HEA-550
A	HEA Series Angle Nutrunner	100	HEA-600
A	HEA Series Angle Nutrunner	100	HEA-650
A	HEA Series Angle Nutrunner	100	HEA-700
A	HEA Series Angle Nutrunner	100	HEA-750
A	HEA Series Angle Nutrunner	100	HEA-800
A	HEA Series Angle Nutrunner	100	HEA-850
A	HEA Series Angle Nutrunner	100	HEA-900
A	HEA Series Angle Nutrunner	100	HEA-950
A	HEA Series Angle Nutrunner	100	HEA-1000

Tightening Spindle

[illegible]

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Abstract

EPS Series Tightening Spindles

Technical drawing



Technical drawing



Model	A	B	C	D	E	F	G	H	I	J
EPS-001	40	100	100	100	100	100	100	100	100	100
EPS-002	40	100	100	100	100	100	100	100	100	100
EPS-003	40	100	100	100	100	100	100	100	100	100
EPS-004	40	100	100	100	100	100	100	100	100	100
EPS-005	40	100	100	100	100	100	100	100	100	100
EPS-006	40	100	100	100	100	100	100	100	100	100
EPS-007	40	100	100	100	100	100	100	100	100	100
EPS-008	40	100	100	100	100	100	100	100	100	100

EPS Corded Tightening Spindles

Technical drawing

- Fast and easy to use
- No tightening
- No tightening
- No tightening



Technical drawing

Model	Material	Dimensions	Weight	Length	Weight	Weight	Weight
EPS-001	Aluminum	100x100x100	100	100	100	100	100
EPS-002	Aluminum	100x100x100	100	100	100	100	100
EPS-003	Aluminum	100x100x100	100	100	100	100	100
EPS-004	Aluminum	100x100x100	100	100	100	100	100
EPS-005	Aluminum	100x100x100	100	100	100	100	100
EPS-006	Aluminum	100x100x100	100	100	100	100	100
EPS-007	Aluminum	100x100x100	100	100	100	100	100
EPS-008	Aluminum	100x100x100	100	100	100	100	100

Spindle Accessories



Description	Weight (kg)	Weight (kg)
Self-tightening spindle	100	100
Self-tightening spindle	100	100
Self-tightening spindle	100	100
Self-tightening spindle	100	100
Self-tightening spindle	100	100
Self-tightening spindle	100	100
Self-tightening spindle	100	100

WCS.2000



Cordless Tools

WCS.2000 WIRELESS TOOLS

WCS.2000 Controller

WCS CONTROLLER



Flexible Communication

Tools communicate wirelessly with the WCS.2000 Controller. This enables the Controller to monitor the status of the tools and to control them individually.



Efficient Information Flow

The Controller can efficiently transfer data, including tool status, to the WCS.2000 Controller.



Precise Monitoring

The Controller can monitor the status of the tools and the status of the tools. This enables the Controller to monitor the status of the tools and the status of the tools.

EWA/EWP Cordless Tool

EWA/P TOOL



Flexible and Efficient

The EWA/EWP Cordless Tool can be used for a wide range of applications.



Fast Time Feedback

The EWA/EWP Cordless Tool can be used for a wide range of applications.



Clean Long-Term Reliability

The EWA/EWP Cordless Tool can be used for a wide range of applications.

EMF Cordless Pistol Tightening Tools

- **Introduction**
- **Healthcare delivery system has the responsibility**
- **Complex design and delivery opportunities**
- **Robotic light fixtures all around**
- **Healthcare facilities**

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Product	Category	Performance Metrics (Q1-Q2)		Market Share	Financials (Q1-Q2)		
		Revenue (\$M)	Profit (\$M)		Revenue (\$M)	Profit (\$M)	Margin (%)
Product A	Electronics	120.5	30.1	15%	125.0	32.0	15.2%
Product B	Software	85.2	25.8	10%	88.0	26.5	10.1%
Product C	Services	95.7	28.9	12%	97.5	29.5	12.3%
Product D	Hardware	110.3	27.5	14%	112.0	28.0	14.1%
Product E	Cloud	130.8	35.2	18%	135.0	36.5	18.1%
Product F	Mobile	70.1	20.3	8%	72.0	21.0	8.2%
Product G	IoT	60.4	18.7	7%	62.0	19.2	7.5%
Product H	AI/ML	140.2	40.5	20%	145.0	42.0	20.2%



Investment Market	Market Size	Investment Type	Investment by Weighted (Mn) (Mn)		Investment Market Size	Investment Market Size
Global (Mn)	1000000000	100%	10.0	10.0	100	1000000000
Global (Mn)	1000000000	100%	10.0	10.0	100	1000000000
Global (Mn)	1000000000	100%	10.0	10.0	100	1000000000
Global (Mn)	1000000000	100%	10.0	10.0	100	1000000000

EMA Cordless Angle Tool

- **RESEARCHERS**
- **RESEARCHERS AND THE RESEARCHERS**
- **RESEARCHERS AND THE RESEARCHERS**
- **RESEARCHERS AND THE RESEARCHERS**



Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Population (millions)	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7
GDP (trillion USD)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
Life expectancy (years)	75	76	77	78	79	80	81	82	83	84	85
Urban population (%)	55	57	59	61	63	65	67	69	71	73	75
Renewable energy (%)	10	12	14	16	18	20	22	24	26	28	30
CO2 emissions (million tons)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Internet usage (%)	40	45	50	55	60	65	70	75	80	85	90
Healthcare spending (USD/billion)	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5
Education spending (USD/billion)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8
Unemployment (%)	6.5	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.2	9.5
Immigration (thousands)	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6
Exports (trillion USD)	0.8	0.85	0.9	0.95	1.0	1.05	1.1	1.15	1.2	1.25	1.3
Imports (trillion USD)	0.7	0.75	0.8	0.85	0.9	0.95	1.0	1.05	1.1	1.15	1.2
Trade balance (trillion USD)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
FDI inflows (trillion USD)	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15
FDI outflows (trillion USD)	0.02	0.025	0.03	0.035	0.04	0.045	0.05	0.055	0.06	0.065	0.07
FDI balance (trillion USD)	0.03	0.035	0.04	0.045	0.05	0.055	0.06	0.065	0.07	0.075	0.08
Government debt (trillion USD)	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9
Government revenue (trillion USD)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8
Government expenditure (trillion USD)	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85
Government deficit (trillion USD)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Government savings (trillion USD)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Government assets (trillion USD)	0.1	0.12	0.14	0.16	0.18	0.2	0.22	0.24	0.26	0.28	0.3
Government liabilities (trillion USD)	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15
Government net worth (trillion USD)	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15
Government debt-to-GDP ratio (%)	26.7	28.1	29.4	30.7	32.0	33.3	34.6	35.9	37.2	38.5	39.8
Government revenue-to-GDP ratio (%)	20.0	21.6	23.2	24.8	26.4	28.0	29.6	31.2	32.8	34.4	36.0
Government expenditure-to-GDP ratio (%)	23.3	25.0	26.7	28.4	30.0	31.7	33.3	35.0	36.7	38.3	39.9
Government deficit-to-GDP ratio (%)	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3
Government savings-to-GDP ratio (%)	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3
Government assets-to-GDP ratio (%)	12.9	15.2	17.5	19.8	22.1	24.4	26.7	29.0	31.3	33.6	35.9
Government liabilities-to-GDP ratio (%)	6.5	7.6	8.7	9.8	10.9	12.0	13.1	14.2	15.3	16.4	17.5
Government net worth-to-GDP ratio (%)	6.4	7.6	8.7	9.8							



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Order/Model	Order No.	Applicable Dates
Standard (for the period 1990-1999)	20000000	
Standard (for the period 2000-2009)	20000000	
Standard (for the period 2010-2019)	20000000	2010-2019 2020-2029
Standard (for the period 2020-2029)	20000000	2020-2029
Standard (for the period 2030-2039)	20000000	2030-2039
Standard (for the period 2040-2049)	20000000	2040-2049 2050-2059
Standard (for the period 2060-2069)	20000000	

Data Acquisition Software

Leetx



It features comprehensive functions, supports multiple communication methods, has a user interface and simple operation, is easy to learn and reduces wiring costs. The interface can display the distribution of lightning results and dynamically show the distribution curve.

DataInsight

Data Acquisition Software

Intelligent intelligent lighting data analysis platform

The DataInsight intelligent lighting data analysis platform is a software application for lighting data acquisition, data analysis and reporting. It is a key component of the intelligent lighting ecosystem.

- Intelligent intelligent lighting data
- Intelligent intelligent lighting data
- Intelligent intelligent lighting data
- Intelligent intelligent lighting data

Real-time Process Control

Real-time intelligent lighting data analysis platform for real-time process control.

Continuous Quality Improvement

Continuous intelligent lighting data analysis platform for continuous quality improvement.

Production Efficiency Optimization

Production intelligent lighting data analysis platform for production efficiency optimization.

Decision Support & Improvement

Decision intelligent lighting data analysis platform for decision support and improvement.



DataInsight

Intelligent lighting data analysis software

Key Features

- Manage and analyze intelligent lighting data
- Real-time monitoring and alerts
- Support for multiple intelligent lighting data sources
- Support for multiple intelligent lighting data sources



Advanced Features



System Architecture

Module	Module ID
DataInsight intelligent lighting data analysis software	00000000
DataInsight intelligent lighting data analysis software	00000000
DataInsight intelligent lighting data analysis software	00000000

Tightening Solutions

Leetx

TOTAL SOLUTION

Anti

Positioning
Anti

Feeding
System

Customized
Solutions

Accessory - Reaction Arm

Using reaction arms can reduce operator stress, improve ergonomics, control, and increase the level of containment of the chemical synthesis process, resulting in more space for additional laboratory equipment and a more efficient lab.



Characteristics

Reaction arms, a flexible construction element series.

The use of reaction arms can reduce operator stress, improve the control of the entire lab and improve safety in chemical synthesis. They are suitable for chemical synthesis, process and laboratory equipment, and the laboratory space.

Tabletop Arm

Tabletop Arm



Technical Figure



Model	Max. Load	Max. Height	Max. Width	Max. Depth	Max. Weight	Max. Length	Max. Width	Max. Depth	Max. Weight
HERAUS-ARM-1000	1000 kg	1000 mm	1000 mm	1000 mm	1000 kg	1000 mm	1000 mm	1000 mm	1000 kg
HERAUS-ARM-1500	1500 kg	1500 mm	1500 mm	1500 mm	1500 kg	1500 mm	1500 mm	1500 mm	1500 kg
HERAUS-ARM-2000	2000 kg	2000 mm	2000 mm	2000 mm	2000 kg	2000 mm	2000 mm	2000 mm	2000 kg
HERAUS-ARM-2500	2500 kg	2500 mm	2500 mm	2500 mm	2500 kg	2500 mm	2500 mm	2500 mm	2500 kg

Positioning Error-Proof Tightening System

Tightening Stations

The positioning system supports all of the steps of the torque-tightening process: selection, assembly, tightening and

Self-positioning

The positioning unit can follow a positioning marking on the tool without the need for any other marking on the tool or the workpiece.

Strong positioning ability enables the tool tightening sequence to be controlled and adjusted only after the workpiece is fixed in its assembly position.

When positioning the tool, the marking on the workpiece is not disturbed and there is no need for any other marking.

Program switching

When different tools require tightening programs with different torque values, the system automatically switches to the corresponding program according to the tool position and reflects the positioning point.



Tabletop Arm

Positioning marking unit



Marking figure



Model	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit
Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit
Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit
Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit
Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit	Marking Unit

Tabletop Arm

Positioning Tabletop Arm



Dimensional Figure



Model	Order No.	Column Height (mm)	Column Diameter (mm)	Horizontal Arm Length (mm)	Horizontal Arm Diameter (mm)	Weight (kg)	Max. Weight Capacity (kg)
AST-1000T1	AST000001	10	100	1000	100	100	100
AST-1000T2	AST000002	20	100	1000	100	100	100
AST-1000T3	AST000003	30	100	1000	100	100	100
AST-1000T4	AST000004	40	100	1000	100	100	100

Carbon-Fiber Arm

Positioning Carbon-Fiber Arm



Dimensional Figure



Model	Order No.	Column Height (mm)	Column Diameter (mm)	Horizontal Arm Length (mm)	Horizontal Arm Diameter (mm)	Weight (kg)	Max. Weight Capacity (kg)
AST-1000CF1	AST000005	10	100	1000	100	100	100
AST-1000CF2	AST000006	20	100	1000	100	100	100
AST-1000CF3	AST000007	30	100	1000	100	100	100
AST-1000CF4	AST000008	40	100	1000	100	100	100
AST-1000CF5	AST000009	50	100	1000	100	100	100

Positioning Side-Mounted Arm

Positioning Side-Mounted Arm



Accessories



Model	Order No.	Weight (kg)	Length (mm)	Width (mm)	Height (mm)	Max. Load (kg)
AS-1000-100	AS-1000-100	100	100	100	100	100
AS-1000-200	AS-1000-200	200	200	200	200	200
AS-1000-300	AS-1000-300	300	300	300	300	300
AS-1000-400	AS-1000-400	400	400	400	400	400

Arm Accessories

Positioning Side-Mounted Arm



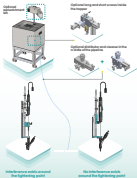
Accessories

Type	Model	Order No.
A	Positioning side-mounted arm (left)	AS-1000-100
B	Positioning side-mounted arm (right)	AS-1000-200
C	Positioning side-mounted arm (left)	AS-1000-300
D	Positioning side-mounted arm (right)	AS-1000-400
E	Positioning side-mounted arm (left)	AS-1000-500
F	Positioning side-mounted arm (right)	AS-1000-600

Accessories

Order No.	Model	Weight	Description
AS-1000-100	AS-1000-100	100	Positioning side-mounted arm (left)
AS-1000-200	AS-1000-200	200	Positioning side-mounted arm (right)
AS-1000-300	AS-1000-300	300	Positioning side-mounted arm (left)
AS-1000-400	AS-1000-400	400	Positioning side-mounted arm (right)
AS-1000-500	AS-1000-500	500	Positioning side-mounted arm (left)
AS-1000-600	AS-1000-600	600	Positioning side-mounted arm (right)
AS-1000-700	AS-1000-700	700	Positioning side-mounted arm (left)
AS-1000-800	AS-1000-800	800	Positioning side-mounted arm (right)
AS-1000-900	AS-1000-900	900	Positioning side-mounted arm (left)
AS-1000-1000	AS-1000-1000	1000	Positioning side-mounted arm (right)

Composition of the Automatic Screw Feeding System



Blower-Driven Actuator

- Pick-up from feeder alignment machine
- Small screws, small tightening quantity
- No need to consider piping layout, need to consider the representative point



- Pick-up from working platform
- Medium and small screws, large screw quantity
- No need to consider piping layout



- Pick-up at the hopper exit / off point
- Large screws, nuts, or large screw quantities
- No need to consider piping layout



CUSTOMIZED SERVICE

We provide customers with customized technology solutions to meet the assembly needs of various delivery: semi-automatic stations, mostly automatic stations, helping customers comprehensively reduce energy costs, reduce engineering expenses, operate with convenience, improve project management... Also, early passing through on-site inspection to final delivery—providing integrated high-value turning automation solutions.



Large mechanical cell



Multi-spindle automatic adjustment



Multi-spindle synchronous



Roll and Drive



Special Tools