

ENGINEERED FOR PERFORMANCE

OUR STORY BEGAN WITH A VISION

Engineered for Integrity. Built for Reliability.

At **ABS**, we bring three decades of proven expertise in hydraulic bolting systems—establishing ourselves as a trusted manufacturer of high-performance solutions and a comprehensive Joint Integrity Solutions provider. Our integrated portfolio spans hydraulic bolting systems, flange management solutions, and in-situ machining systems—enabling us to deliver complete, end-to-end solutions for critical industrial applications.

Our focus is clear: to ensure leak-proof, safe, and reliable joint performance across the life cycle of industrial assets. Through precision engineering, deep application knowledge, and a relentless commitment to quality, we don't just meet industry standards—we set new benchmarks for performance and reliability.

With a state-of-the-art manufacturing facility aligned to the **Make in India** vision, and strong in-house design and manufacturing capabilities, **ABS** combines mechanical excellence with intelligent digital integration. Our solutions incorporate **Industry 4.0**-driven traceability, documentation, and analytics—empowering customers with enhanced control, compliance, and operational insight.

Beyond products, **ABS** delivers value through a solution-led approach—covering controlled bolting, on-site machining, and comprehensive joint integrity management services. This enables our customers to optimize uptime, improve safety, and achieve consistent operational excellence across their facilities.

With an expanding multinational footprint, **ABS** operates with the scale, capability, and vision of a global joint integrity solutions partner—serving diverse industries across geographies with a unified commitment to quality, trust, and long-term value creation.



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HYDRAULIC TORQUE WRENCH

ABS Hydraulic Torque Wrenches are engineered to deliver accurate torque, high breakaway force, and reliable performance for critical bolting applications. Constructed from lightweight, **aircraft-grade aluminum** and **high-strength steel alloys**, these wrenches are built for unmatched durability, minimal weight, and the endurance to withstand long bolting cycles and continuous heavy wear.

CNX SERIES

ABS CNX - Square Drive Torque Wrench : Precision Power for the Toughest Bolting Jobs.

Engineered to excel, the **ABS CNX series** delivers precision torque during bolt tightening and maximum breakaway power for the toughest bolt break-out challenges. Their compact design is specifically optimized for use in applications with tight radial clearances.



TORQUE RANGE **118-59995 ft.lbs.**

160-81338 Nm

Ex / CE conformity

One-Way Ratcheting Mechanism

Provides efficient fastening and accuracy.

Ratchet Freeing Mechanism

Ensures quick release of tool from the job without getting stuck.

Multi-Axis 360°-180° Swivel

Offers unmatched versatility and access in confined spaces.

Coarse teeth Ratchet

Ensure high durability and accuracy.

ATEX & CE certified

ATEX & CE certified for global safety compliance.

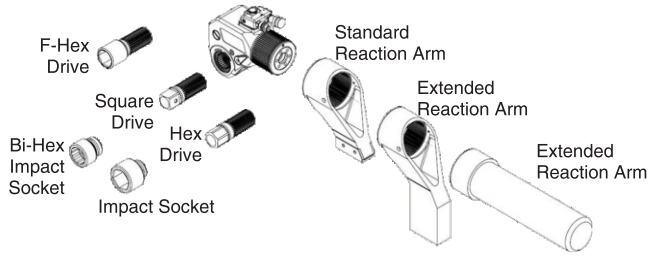
Torque Accuracy

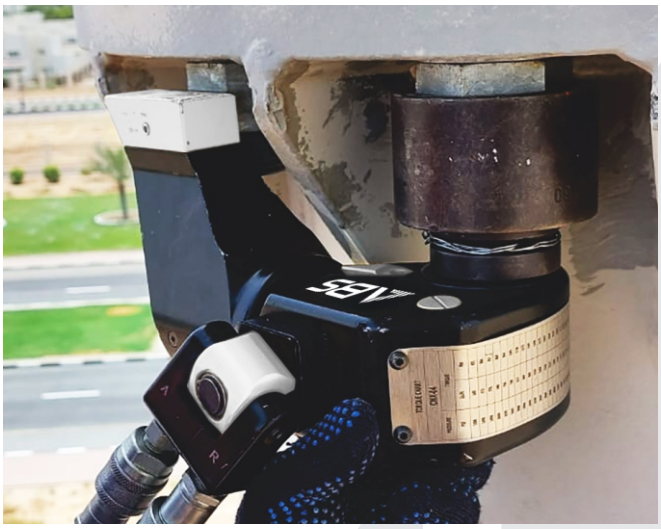
Delivers precision torque with ±3% accuracy.

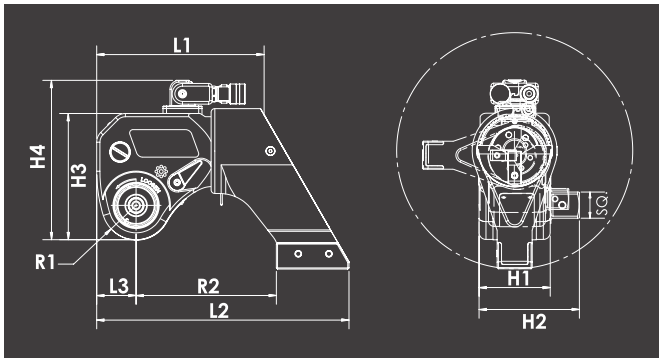
CNX SERIES

HYDRAULIC TORQUE WRENCH

Tool Accessories & Components









MODEL	L1 (inch/ mm)	L2 (inch/ mm)	L3 (inch/ mm)	H1 (inch/ mm)	H2 (inch/ mm)	H3 (inch/ mm)	H4 (inch/ mm)	R1 (inch/ mm)	R2 (inch/ mm)	DRIVE SIZE	WEIGHT (lbs/ kg)	TORQUE (ft.lbs./Nm)	
												MIN.	MAX.
CNX-01	3.94 100.3	5.96 151.6	0.9 23	1.62 41.2	2.47 62.9	2.95 75	4.3 109.4	0.8 20.5	3.30 84	3/4″	4.41 2	118 160	822 1114
CNX-02	4.9 124	7.3 186.5	1.1 28.8	2.0 51.6	2.9 72.6	3.7 93.3	4.9 124.4	1.0 25	4.1 104.3	3/4″	4.85 2.2	200 271	1339 1816
CNX-04	6.4 161.9	9.7 245.5	1.5 39.1	2.7 68.8	3.7 94.4	4.8 121.2	6.4 162.1	1.3 33.3	5.3 135.2	1″	11.46 5.2	479 650	3228 4377
CNX-07	7.7 195.8	11.7 296.1	1.9 48.5	3.3 82.6	5.0 126.9	5.7 143.7	7.3 185.1	1.6 39.9	6.4 161.6	1-1/2″	18.08 8.2	834 1131	5587 7575
CNX-11	7.7 195.6	12.6 319.3	2.2 55.2	3.6″ 90.7	5.1 129.3	6.5 165.1	8.5 215.9	1.7 44.7	6.9 176.8	1-1/2″	24.25 11	1200 1627	8000 10846
CNX-15	9.6 243	14.4 366.2	2.3 57.2	4.1 103.3	5.7 145.7	7.2 183.2	9.1 231.4	2.0 49.8	8.0 203.5	1-1/2″	33.07 15	1754 2378	11513 15610
CNX-20	10.54 267.8	15.5 392.9	2.5 63.3	4.4 113	7.1 180.6	8.1 206	10.2 258.7	2.2 55.5	8.8 223.8	2-1/2″	50.27 22.8	2012 2728	14082 19093
CNX-30	11.4 289.8	17.3 438.7	2.7 68.8	4.7 120.1	7.1 180.3	8.8 223	10.2 260.1	2.4 59.9	9.6 243.3	2-1/2″	59.30 26.9	2958 4011	19748 26775
CNX-35	11.8 299.7	18.5 470.4	3.1 78.4	5.2 133.3	7.5 190	9.6 243.8	11.5 292.1	2.6 66.0	10.2 260.3	2-1/2″	73.19 33.2	3883 5265	25890 35102
CNX-50	14.0 356.3	21.2 539.2	3.3 84.6	5.8 147.8	8.3 211.3	10.8 274.1	12.4 313.9	2.9 73.7	11.7 298.2	2-1/2″	104.72 47.5	5397 7317	37078 50271
CNX-72	15.5 393.7	23 584	3.7 94	6.6 166.9	9.4 237.7	11.0 279.4	12.8 325.1	3.3 82.6	12.8 325.6	2-1/2″	147.27 66.8	7875 10677	59995 81338

*Minimum and maximum torque output data may vary.

CNZ SERIES

HYDRAULIC TORQUE WRENCH

ABS CNZ Series: The Ultimate Low-Profile Torque Wrench

When the job demands full power in a fraction of the space, turn to **ABS CNZ**. Engineered for the most space-restricted bolting tasks, the sleek, ultra-compact design delivers unmatched accessibility.

The **CNZ series** effortlessly slips into applications with tight overhead clearances, providing precision torque for tightening and maximum breakaway power for the toughest bolt break-out challenges.



Secondary Pawl for Faster Tightening

Tighten bolts with blazing speed thanks to the secondary pawl that accelerates tightening cycles while simultaneously preventing unwanted rollback, ensuring both efficiency and reliability.

360° x 360°Hose Uniswivel

Experience unmatched maneuverability with the 360° x 360° hose uniswivel, granting you the freedom to reach any angle without compromising control.

Ratchet Freeing Mechanism

Ensures quick release of tool from the job without getting stuck

Multipurpose Accessories

Enhance your versatility with a range of multipurpose accessories (not included) that cater to your specific bolting needs.

ATEX & CE certified

ATEX & CE certified for global safety compliance

Torque Accuracy

Delivers precision torque with ±3% accuracy.

TORQUE RANGE **74-59120 ft.lbs.**

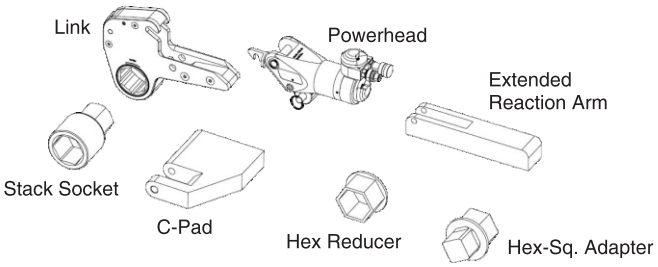
100-80150 Nm

Ex / CE conformity

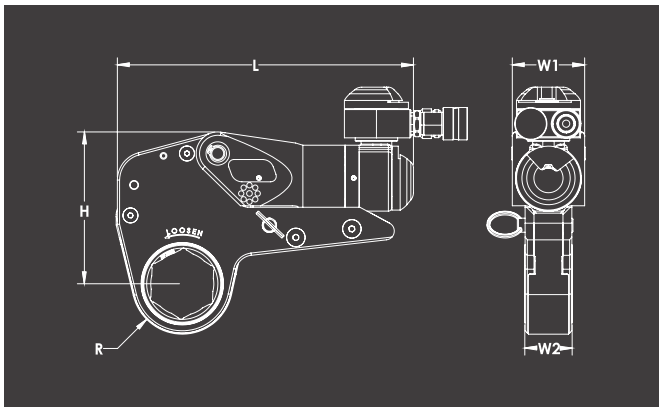
CNZ SERIES

HYDRAULIC TORQUE WRENCH

Tool Accessories & Components









MODEL	H (inch/ mm)	W1 (inch/ mm)	W2 (inch/ mm)	L (inch/ mm)	R (inch/ mm)	HEX (inch/mm)	WEIGHT (lbs/kg) (Without Link)	TORQUE (ft.lbs./Nm)	
								MIN.	MAX.
CNZ-01	3.36 85.5	1.50 38.3	1.10 28	6.28 159.7	0.80 20.38	3/4" - 1 5/8" 19-41	1.8 0.8	74 100	723 980
CNZ-02	4.02 102.1	1.97 50	1.25 31.8	7.5 190.4	0.95 - 1.79 24.1 - 45.5	3/4" - 2 3/8" 19 - 60	1.98 0.9	243 329	1686 2286
CNZ-05	5.37 136.4	2.59 65.8	1.67 42.4	10.16 266	1.30 - 2.30 34 - 58.9	1 5/16" - 3 1/8" 34 - 80	4.41 2	580 786	3853 5224
CNZ-10	6.7 170.3	3.23 82.15	2.09 53	12.29 312.1	1.78 - 2.90 45 - 73.9	2" - 3 7/8" 50 - 100	7.50 3.4	1142 1549	8146 11045
CNZ-18	8.04 204.1	3.87 98.4	2.49 63.2	14.66 372.4	2.31 - 3.48 58.9 - 88.4	2 3/4" - 4 5/8" 70 - 120	12.13 5.5	2009 2724	13392 18157
CNZ-25	9.09 231	4.41 112	2.83 72	16.57 421	2.47 - 4.21 62.8 - 107	2 3/4" - 5 3/4" 70 - 145	14.85 6.7	2790 3780	19100 25881
CNZ-42	10.71 272.1	5.18 131.5	3.33 84.6	19.46 494.25	3.03 - 4.72 77 - 120	3 1/2" - 6 1/2" 90 - 165	24.03 10.9	4577 6205	30967 41986
CNZ-80	13.39 340.1	6.46 164.1	4.16 105.8	21.14 573	4.26 - 5.79 108 - 147	4-5/8" - 7-1/2" 120 - 190	48 21.7	8887 12020	59120 80150

*Minimum and maximum torque output data may vary.

CNZ LINK SELECTION

HYDRAULIC TORQUE WRENCH

- Cassette links with precision ratcheting mechanism compatible with CNZ Power Heads.
- Multiple cassette link options available for each Power Head in both INCH and METRIC sizes, ensuring versatile application.
- Designed for enhanced reliability, accuracy, and ease of use,enabling smooth operations even in confined areas.

CNZ-02	HEX SIZE	
	IMPERIAL	METRIC
ZL-02-19	3/4"	19mm
ZL-02-20	13/16"	
ZL-02-21		21mm
ZL-02-22	7/8"	22mm
ZL-02-23	15/16"	
ZL-02-24		24mm
ZL-02-25	1'	
ZL-02-27	1-1/16"	27mm
ZL-02-28	1-1/8"	
ZL-02-30	1-3/16"	30mm
ZL-02-31	1-1/4"	
ZL-02-32		32mm
ZL-02-33	1-5/16"	
ZL-02-34	-	34mm
ZL-02-35	1-3/8"	35mm
ZL-02-36	-	36mm
ZL-02-37	1-7/16"	
ZL-02-38	1-1/2"	38mm
ZL-02-39	1-9/16"	
ZL-02-41	1-5/8"	41mm
ZL-02-42	1-11/16"	-
ZL-02-44	1-3/4"	-
ZL-02-46	1-13/16"	46mm
ZL-02-47	1-7/8"	
ZL-02-49	1-15/16"	49mm
ZL-02-50	-	50mm
ZL-02-51	2"	
ZL-02-52	2-1/16"	
ZL-02-54	2-1/8"	
ZL-02-55	2-3/16"	55mm
ZL-02-57	2-1/4"	
ZL-02-59	2-5/16"	
ZL-02-60	2-3/8"	60mm

CNZ-05	HEX SIZE	
	IMPERIAL	METRIC
ZL-05-33	-	-
ZL-05-34	1-5/16"	34mm
ZL-05-35		
ZL-05-36	1-3/8"	36mm
ZL-05-37	1-7/16"	
ZL-05-38	1-1/2"	38mm
ZL-05-39	1-9/16"	
ZL-05-41	1-5/8"	41mm
ZL-05-42	1-11/16"	
ZL-05-44	1-3/4"	
ZL-05-46	1-13/16"	46mm
ZL-05-47	1-7/8"	
ZL-05-49	1-15/16"	49mm
ZL-05-50		50mm
ZL-05-51	2"	
ZL-05-52	2-1/16"	
ZL-05-53	2-1/8"	
ZL-05-55	2-3/16"	55mm
ZL-05-57	2-1/4"	
ZL-05-58	2-5/16"	-
ZL-05-60	2-3/8"	60mm
ZL-05-61	2-7/16"	
ZL-05-63	2-1/2"	
ZL-05-65	2-9/16"	65mm
ZL-05-66	2-5/8"	
ZL-05-68	2-11/16"	
ZL-05-70	2-3/4"	70mm
ZL-05-71	2-13/16"	
ZL-05-73	2-7/8"	
ZL-05-75	2-15/16"	75mm
ZL-05-76	3'	
ZL-05-77	3-1/16"	
ZL-05-79	3-1/8"	
ZL-05-80	-	80mm



Ex / CE conformity

CNZ LINK SELECTION

HYDRAULIC TORQUE WRENCH

CNZ-10	HEX SIZE	
	IMPERIAL	METRIC
ZL-10-41	1-5/8"	41mm
ZL-10-42	1-11/16"	-
ZL-10-44	1-3/4"	-
ZL-10-46	1-13/16"	46mm
ZL-10-47	1-7/8"	-
ZL-10-49	1-15/16"	49mm
ZL-10-50	-	50mm
ZL-10-51	2"	-
ZL-10-52	2-1/16"	-
ZL-10-54	2-1/8"	-
ZL-10-55	2-3/16"	55mm
ZL-10-57	2-1/4"	-
ZL-10-58	2-5/16"	-
ZL-10-60	2-3/8"	60mm
ZL-10-61	2-7/16"	-
ZL-10-63	2-1/2"	-
ZL-10-65	2-9/16"	65mm
ZL-10-66	2-5/8"	-
ZL-10-68	2-11/16"	-
ZL-10-70	2-3/4"	70mm
ZL-10-71	2-13/16"	-
ZL-10-73	2-7/8"	-
ZL-10-75	2-15/16"	75mm
ZL-10-76	3'	-
ZL-10-77	3-1/16"	-
ZL-10-79	3-1/8"	-
ZL-10-80	-	80mm
ZL-10-81	3-3/16"	-
ZL-10-82	3-1/4"	-
ZL-10-84	3-5/16"	-
ZL-10-85	-	85mm
ZL-10-86	3-3/8"	-
ZL-10-87	3-7/16"	-
ZL-10-88	3-1/2"	-
ZL-10-90	-	90mm
ZL-10-91	3-9/16"	-
ZL-10-92	3-5/8"	-
ZL-10-93	3-11/16"	-
ZL-10-95	3-3/4"	95mm
ZL-10-96	3-13/16"	-
ZL-10-98	3-7/8"	-
ZL-10-100	3-15/16"	100mm
ZL-10-101	4'	-
ZL-10-103	4-1/16"	-
ZL-10-105	4-1/8"	105mm

CNZ-18	HEX SIZE	
	IMPERIAL	METRIC
ZL-18-50	-	50mm
ZL-18-51	2"	-
ZL-18-52	2-1/16"	-
ZL-18-53	2-1/8*	-
ZL-18-55	2-3/16"	55mm
ZL-18-57	2-1/4"	-
ZL-18-58	2-5/16"	-
ZL-18-60	2-3/8"	60mm
ZL-18-62	2-7/16"	-
ZL-18-63	2-1/2	-
ZL-18-65	2-9/16"	65mm
ZL-18-66	2-5/8"	-
ZL-18-68	2-11/16"	-
ZL-18-70	2-3/4"	70mm
ZL-18-71	2-13/16"	-
ZL-18-73	2-7/8"	-
ZL-18-75	2-15/16"	75mm
ZL-18-76	3'	-
ZL-18-77	3-1/16"	-
ZL-18-79	3-1/8"	-
ZL-18-80	-	80mm
ZL-18-81	3-3/16"	-
ZL-18-82	3-1/4*	-
ZL-18-84	3-5/16"	-
ZL-18-85	-	85mm
ZL-18-86	3-3/8"	-
ZL-18-87	3-7/16"	-
ZL-18-89	3-1/2	-
ZL-18-90	-	90mm
ZL-18-91	3-9/16"	-
ZL-18-92	3-5/8"	-
ZL-18-93	3-11/16"	-
ZL-18-95	3-3/4"	95mm
ZL-18-96	3-13/16"	-
ZL-18-98	3-7/8"	-
ZL-18-100	3-15/16"	100mm
ZL-18-101	4"	-
ZL-18-104	4-1/6"	-
ZL-18-105	4-1/8"	105mm
ZL-18-106	4-3/16"	-
ZL-18-107	4-1/4"	-
ZL-18-109	4-5/16"	-
ZL-18-110	-	110mm
ZL-18-111	4-3/8"	-
ZL-18-112	4-7/16"	-
ZL-18-114	4-1/2"	-
ZL-18-115	-	115mm
ZL-18-117	-	117mm

CNZ-25	HEX SIZE	
	IMPERIAL	METRIC
ZL-25-75	2-15/16"	75mm
ZL-25-76	3"	-
ZL-25-77	3-1/16"	-
ZL-25-79	3-1/8"	-
ZL-25-80		80mm
ZL-25-81	3-3/16"	-
ZL-25-82	3-1/4"	-
ZL-25-84	3-5/16"	-
ZL-25-85		85mm
ZL-25-86	3-3/8	-
ZL-25-87	3-7/16"	-
ZL-25-89	3-1/2	-
ZL-25-90		90mm
ZL-25-91	3-9/16"	-
ZL-25-92	3-5/8"	-
ZL-25-93	3-11/16"	-
ZL-25-95	3-3/4"	95mm
ZL-25-96	3-13/16"	-
ZL-25-98	3-7/8"	-
ZL-25-100	3-15/16"	100mm
ZL-25-101	4'	-
ZL-25-104	4-1/6"	-
ZL-25-105	4-1/8"	105mm
ZL-25-106	4-3/16"	-
ZL-25-107	4-1/4"	-
ZL-25-109	4-5/16"	-
ZL-25-110		110mm
ZL-25-111	4-3/8"	-
ZL-25-112	4-7/16"	-
ZL-25-114	4-1/2"	-
ZL-25-115		115mm
ZL-25-117		117mm
ZL-25-108	4-1/4"	-
ZL-25-109	4-5/16"	-
ZL-25-110		110mm
ZL-25-111	4-3/8"	-
ZL-25-112	4-7/16"	-
ZL-25-114	4-1/2"	-
ZL-25-115		115mm
ZL-25-116	4-9/16"	-
ZL-25-117	4-5/8"	117mm
ZL-25-119	4-11/16"	-
ZL-25-120		120mm
ZL-25-121	4-3/4"	-
ZL-25-122	4-13/16"	-
ZL-25-123	4-7/8"	-
ZL-25-125		125mm
ZL-25-126	4-15/16"	-
ZL-25-127	5'	127mm
ZL-25-128	5-1/16"	
ZL-25-130	5-1/8*	-
ZL-25-131	5-3/16"	
ZL-25-133	5-1/4"	-
ZL-25-134	5-5/16"	
ZL-25-136	5-3/8"	-
ZL-25-138	5-7/16"	
ZL-25-140	5-1/2"	140mm
ZL-25-141	5-9/16"	
ZL-25-142	5-5/8"	-
ZL-25-144	5-11/16"	
ZL-25-145		145mm

CNZ-42	HEX SIZE	
	IMPERIAL	METRIC
ZL-42-108	4-1/4"	-
ZL-42-109	4-5/16"	-
ZL-42-110	-	110mm
ZL-42-111	4-3/8"	-
ZL-42-112	4-7/16"	-
ZL-42-114	4-1/2"	-
ZL-42-115	-	115mm
ZL-42-116	4-9/16"	-
ZL-42-117	4-5/8"	117mm
ZL-42-119	4-11/16*	-
ZL-42-120	-	120mm
ZL-42-121	4-3/4"	-
ZL-42-122	4-13/16"	-
ZL-42-123	4-7/8"	-
ZL-42-125	-	125mm
ZL-42-126	4-15/16"	-
ZL-42-127	-	127mm
ZL-42-128	5-1/16"	-
ZL-42-130	5-1/8"	-
ZL-42-131	5-3/16"	-
ZL-42-133	5-1/4'	-
ZL-42-134	5-5/16"	135mm
ZL-42-136	5-3/8"	-
ZL-42-138	5-7/16"	-
ZL-42-140	5-1/2"	140mm
ZL-42-141	5-9/16"	-
ZL-42-142	5-5/8"	-
ZL-42-144	5-11/16	-
ZL-42-145	-	145mm
ZL-42-146	5-3/4"	-
ZL-42-147	5-13/16*	-
ZL-42-149	5-7/8"	-
ZL-42-150	-	150mm
ZL-42-151	5-15/16"	-
ZL-42-152	6	-
ZL-42-153	6-1/16"	-
ZL-42-155	-	155mm
ZL-42-156	6-1/8"	-
ZL-42-157	6-3/16"	-
ZL-42-158	6-1/4"	-
ZL-42-160	-	160mm
ZL-42-161	6-5/16"	-
ZL-42-162	6-3/8"	-
ZL-42-163	6-7/16"	-
ZL-42-165	6-1/2"	165mm
ZL-42-166	6-9/16"	-
ZL-42-168	6-5/8"	-
ZL-42-170	6-11/16*	170mm
ZL-42-171	6-3/4"	-
ZL-42-173	6-13/16"	-
ZL-42-174	6-7/8"	-
ZL-42-175	-	175mm

CNZ SERIES
SQUARE DRIVE ATTACHMENT

HYDRAULIC TORQUE WRENCH

ABS Square Drive Attachments provide a versatile solution for upgrading existing hydraulic torque wrenches without the need for complete tool replacement. Designed for seamless integration, these drive units enhance operational flexibility and extend the life of your current tools.

With the ability to easily switch between hex and square drives, they enable a single tool to handle a wide range of bolting applications—delivering greater efficiency, adaptability, and cost savings.



Secondary Pawl for Faster Tightening

Tighten bolts with blazing speed thanks to the secondary pawl that accelerates tightening cycles while simultaneously preventing unwanted rollback, ensuring both efficiency and reliability.

360° x 360°Hose Uniswivel

Experience unmatched maneuverability with the 360° x 360° hose uniswivel, granting you the freedom to reach any angle without compromising control.

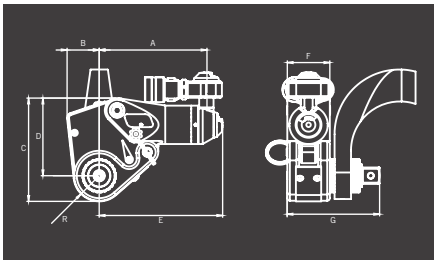
Ratchet Freeing Mechanism

Enjoy smooth and precise bolt loosening with the integrated ratchet freeing mechanism.

Reaction Arm Flexibility

Designed to provide versatile reaction point positioning, this attachment enables flexible reaction arm setup for improved accessibility and adaptability in challenging applications.





TORQUE RANGE

271-9247 Nm

SPECIFICATIONS

MODEL	SQUARE DRIVE (Inch)	TORQUE (Nm)		R (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	WEIGHT (Kg)**
		MIN.	MAX.									
CNZ-02-SQ	3/4	271	1925	30	125	38	120	90	143	50	108	3.5
CNZ-05-SQ	1	658	4379	40	177	40	160	119	202	66	145	6.7
CNZ-10-SQ	1 1/2	1338	9247	53	218	48	202	150	243	82	194	13.7

*Technical specifications may change without notice. ** Weight including Link, Reaction Arm and Square Drive.

CNZ SERIES

HYDRAULIC TORQUE WRENCH

CNZ Series: Hands-Free Bolting

The CNZ tool enables hands-free bolting operation. Its dedicated Tool Retainer securely attaches the tool to eachbolt, providing enhanced hand safety and eliminating the need for the operator tomanually hold the tool in position during bolting.



Secondary Pawl for Faster Tightening

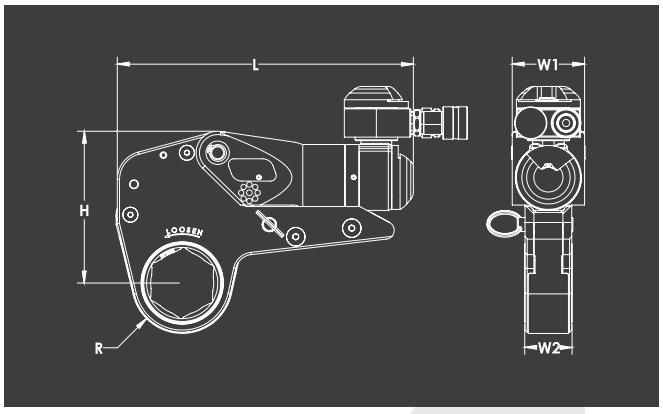
Tighten bolts faster with a secondary pawl that speeds cycles and prevents rollback for reliable performance.

360° x 360°Hose Uniswivel

Achive full control with a 360° x 360° hose uniswivel that reaches any angle with ease.

Ratchet Freeing Mechanism

Ensures quick release of tool from the job without getting stuck





TORQUE RANGE **74-59120 ft.lbs.**

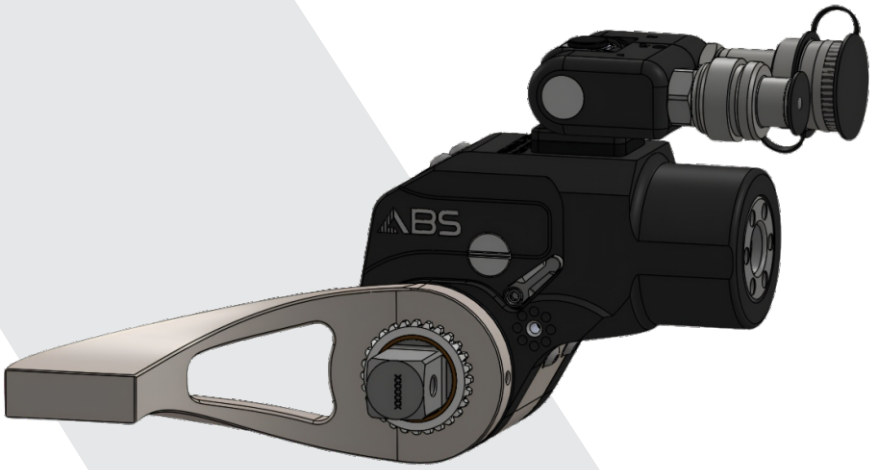
100-80150 Nm

CNF SERIES

HYDRAULIC TORQUE WRENCH

Front Reaction Square Drive Tool

Meet your go-to solution for demanding industrial bolting projects. The CNF Series Hydraulic Torque Wrench combines high torque output with a practical square-drive design for efficient socket-based bolting. Its range of drive sizes supports compatibility with different fasteners and application conditions, making it a dependable choice for controlled tightening and loosening.



+3% Torque Accuracy

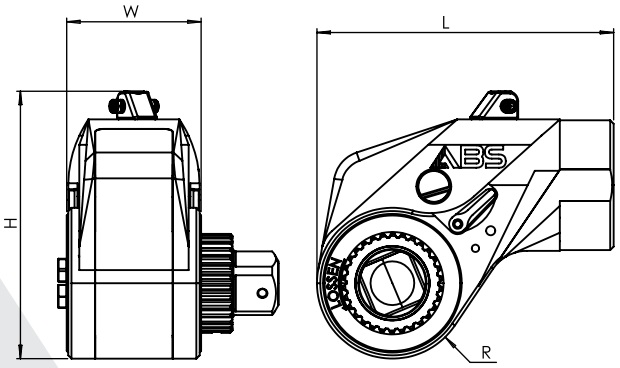
Delivers precise and repeatable torque with +3% accuracy for consistent bolting results.

Lock-Up Release Lever

Enables quick tool release after tightening, helping prevent the wrench from locking onto the application.

Slide / Coaxial Reaction Arm

Allows flexible positioning around the bolt, providing a secure reaction point regardless of the arm orientation.



TORQUE RANGE **74-59120 ft.lbs.**

266-15912Nm

MODEL	H (inch/mm)	W (inch/mm)	L (inch/mm)	R (inch/mm)	SQUARE DRIVE	WEIGHT (lbs/kg)	TORQUE MIN. (ft-lbs/Nm)	TORQUE MAX. (ft-lbs/Nm)
CNF-2	4.76 / 121	2.18 / 55	4.71 / 120	1.13 / 29	3/4"	4.50 / 2.05	196 / 266	1,284 / 1,740
CNF-4	6.20 / 157	2.90 / 74	6.15 / 156	1.52 / 39	1"	9.45 / 4.30	460 / 623	3,084 / 4,179
CNF-7	7.48 / 190	3.43 / 87	7.40 / 188	1.85 / 47	1-1/2"	15.87 / 7.2	599 / 812	5,310 / 7,200
CNF-10	7.90 / 201	3.86 / 98	8.24 / 209	1.94 / 49	1-1/2"	20.75 / 9.43	1,150 / 1,558	7,760 / 10,515
CNF-15	8.85 / 225	4.35 / 110	9.20 / 234	2.25 / 57	1-1/2"	29.20 / 13.27	1,800 / 2,439	11,743 / 15,912

CNO SERIES
ULTRA-THIN CASSETTE SYSTEM

HYDRAULIC TORQUE WRENCH

The **CNO series** of tools has a special, ultra-thin cassette system to operate efficiently in extremely limited spaces where traditional tools and standard cassette links cannot fit-such as areas with protruding studs or tight clearances.

This innovative system features specially designed attachment cartridge that accommodates multiple bit types-**open spanners, closed spanners**, and **ratchet spanners**-enabling precise and reliable bolting in narrow or hard-to-reach spaces.

The **Reaction Mechanism** is a unique roller design which eliminates scratches and dents on the flange surface.



Ultra-Thin Design
Replaces the conventional cassette or link with a compact attachment that is significantly slimmer, ideal for restricted areas.

Interchangeable Bits
Compatible with various bit types:
Ring Spanners - for nuts with a 12-sided recess.
Open Spanners - with a 12-sided female recess and threaded rod passage for tight-space applications.
Ratchet Spanners - featuring a resettable 6-sided female recess for quick, repeatable operation.

360° X 180° Hose Uniswivel Mechanism
Offers full 360-degree rotation combined with 180-degree swivel for unmatched flexibility and freedom of movement.

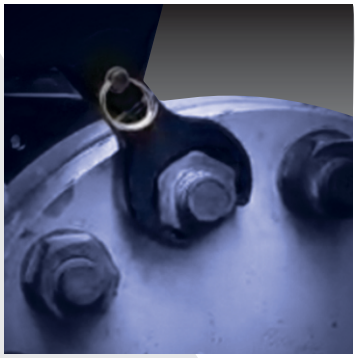
TORQUE RANGE **243-8146 ft.lbs.**

329-11045 Nm

Ex / CE conformity

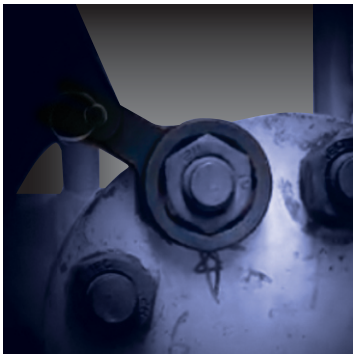
CNO SERIES
ULTRA-THIN CASSETTE SYSTEM

HYDRAULIC TORQUE WRENCH



OPEN SPANNER

Ideal for accessing exposed nuts and bolts in tight spaces.



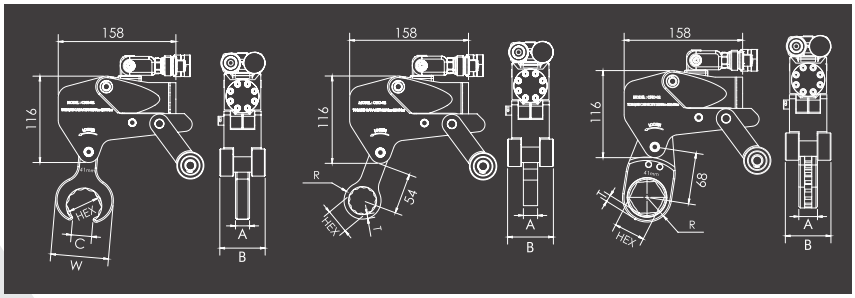
RING SPANNER

Offers superior grip and torque for even the most stubborn fasteners.



RATCHETING SPANNER

Enables fast, continuous operation, improving efficiency.



MODEL	HEX SIZE (mm)	TORQUE		OPEN SPANNER LINK (mm)				RING SPANNER LINK (mm)				RATCHET LINK (mm)			
		FT.LBS	NM	C	W	WIDTH		R	T	WIDTH		R	T	WIDTH	
						A	B			A	B			A	B
CNO-02	24	243 TO 1686	329 TO 2286	16.8	53.6	24	61	22.86	9.06	19	61	25.4	10.33	25.2	61
	27			18.8	58.05			22.86	7.34			25.4	9.88		
	32			22.9	64.8			24.65	6.25			27.43	9.03		
	36			24.9	71.5			27.43	6.73			29.97	9.27		
	41			27.9	79.8			31.24	7.67			32.77	9.20		
	46			30.7	93.5			34.8	8.35			35.56	9.11		
	50			36.8	94			38.61	9.29			41.15	11.83		
	55			37	109.8			38.61	6.99			41.15	9.53		
CNO-04	41	580 TO 3853	786 TO 5224	27.2	77.9	31	82.6	32.8	9.19	25.4	82.6	33.8	10.21	31	82.6
	46			30.2	92.9			35.6	9.11			36.8	10.32		
	50			33.5	90			38.4	9.60			39.2	10.44		
	55			36.1	108.9			41.1	9.52			42.3	10.63		
	6C			39.9	108.9			45.0	10.46			45.5	10.98		
	65			55.60	114.00			46.7	9.36			48.7	11.35		
	75			49.50	132.80			52.1	8.94			54.7	11.56		
CNO-08	50	1142 TO 8146	1549 TO 11045	33.1	110.4	38	83	40.13	11.38	32	83	44.2	15.45	37.2	83
	55			36.1	115.4			42.93	11.3			46.99	15.37		
	60			39.1	120.4			45.72	11.22			49.78	15.28		
	65			43.7	127			48.51	11.14			52.58	15.2		
	70			46.7	133.6			51.31	11.06			55.37	15.12		
	75			49.7	146			54.36	11.23			58.42	15.3		
	80			53.3	152.6			57.15	11.15			61.21	15.21		
	85			58.1	162			60.2	11.32			64.26	15.39		
	90			61.5	163.3			62.99	11.24			67.06	15.31		
	95			65.3	172.4			66.04	11.42			70.1	15.48		
	100			65.3	178			68.58	11.08			72.9	15.4		
	105			69.1	188.9			71.48	11.4			75.8	15.5		

*Minimum and maximum torque output data may vary.

CNS SERIES

HYDRAULIC TORQUE WRENCH

STANDARD



SLIM



For general maintenance that requires high torque values and repeatable results, the **CNS series** has a simple design created to meet the needs of the customers and proved to be most reliable tool with only 3 moving parts. The tool comes with option of Standard link to fit standard applications and slim links to fit in applications with low overhead and radial clearance. This tool is ideal for BOP (Blow-out Preventers), Manifold assemblies, Valve flanges, turbine hubs etc., with space constraints.

Streamlined 3-Part Design

A simple internal mechanism minimizes wear, is simple to service, and minimizes future maintenance costs.

Versatile Drive Compatibility

Compatible with Standard and Slim Link with screwless link pin connectivity to enable quick connection between power head and the link.

Uniswivel Hose Articulation

Uniswivel technology for free movement and positioning of tool and hoses and optional 360° swivel allows flexible hose positioning, reducing strain and improving ergonomics.

TORQUE RANGE **140-8998 ft.lbs.**

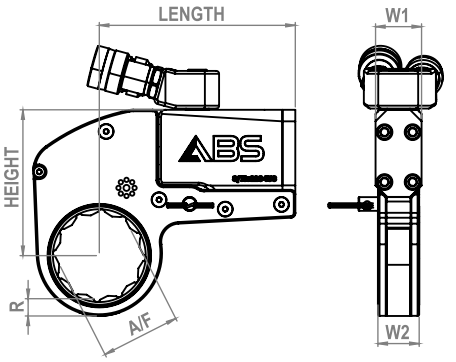
190-12200 Nm

CNS SERIES

HYDRAULIC TORQUE WRENCH







SPECIFICATIONS

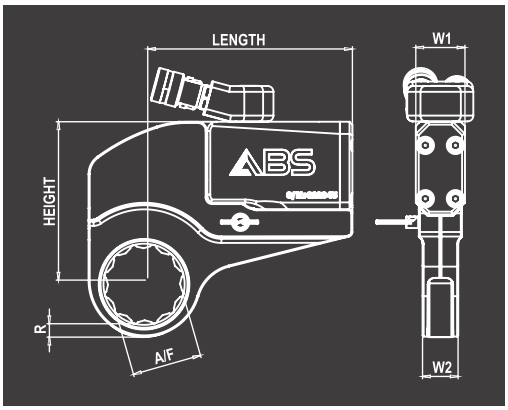
MODEL	HEX RANGE (A/F)	R	LENGTH	HEIGHT	W2	W1	Weight	Min Torque	Max Torque
		Inches/mm					Lbs./Kg	Ft. Lbs./Nm	
CNS-01	1"- 1-13/16" 24-46	0.30 8	4.230 107	3,42 87	0.94 24	1.06 27	2.80 1.41	140 190	1,000 1,356
CNS-02	1"- 2-3/8" /24-60	0.38 10	5.30 135	373 95	1.13 29	1.25 32	3.25 1.50	261 354	1,920 2,603
CNS-04	1-7/16"- 3-1/8" 36-80	0.51 13	7.07 180	5.51 140	1.5 38	1.67 42	7.35 3.27	654 887	4,502 6,104
CNS-08	2"-3-7/8" 50-100	0.72 18	8.60 218	6.53 166	1.89 48	2.10 53	11.85 5.41	1,350 1,830	8,998 12,200

*Minimum and maximum torque output data may vary.

CNS SLIM SERIES







SPECIFICATIONS

MODEL	HEX RANGE (A/F)	R	W2	W1	Length	Height	Weight	Min Torque	Max Torque
	Inches/mm						Lbs./Kg	Ft. Lbs./Nm	
CNS-02 SLIM	1-1/4" TO 1-13/16" / 32-46	0.35/ 8.9	1.00/ 25.4	1.25 /32	5.63/ 143.0	4.30/ 109.2	2.80/ 0.129	280/380	1,800/ 2,440
CNS-04 SLIM	1-13/16"TO 3-1/8" / 46-80	0.43/ 10.9	1.20/ 30.5	1.67 /42	7.17/ 182.1	5.51/ 140	3.25/ 0.150	640/868	4,300/ 5,830
CNS-08 SLIM	2-3/8" TO 3-1/2" / 60-89	0.55/ 14	1.45/ 36.8	2.10 /53	8.89/ 225.8	7.12/ 180.8	7.35/ 0.340	1,270/ 1,722	8,500/ 11,524

*Minimum and maximum torque output data may vary.

HYDRAULIC PUMPS - ELECTRIC *for* TORQUE TOOLS

ABS Hydraulic Electric Pumps are engineered to deliver precise pressure control and consistent performance for torque tool applications. Designed for efficiency and ease of use, they ensure accurate tightening, smooth operation, and reliable output in workshop and site environments.

Electric Pump



Electric Documentation Pump (Torque & Angle)



SERIES	**HFEL- 230 / HFEL-230-DOC**	
SOURCE V/bar	220V - 50Hz	700 Bar
POWER (kW)	1.1	
OIL FLOW (lpm)	8 (LP) x 2 (MP) x 0.8(HP)	
WEIGHT (kg)	With Oil: 29	
DIMENSIONS (cm)	32 (L) x 45 (W)x 49 (H)	
OIL COOLER	YES	
NO. OF PORTS	2/4	

HYDRAULIC PUMPS - PNEUMATIC *for* TORQUE TOOLS

ABS Hydraulic Pneumatic Pumps are designed for **safe and reliable operation in field and hazardous environments.** Air-driven and highly durable, they provide **efficient torque application and dependable performance** where electrical power is limited or unsuitable.

SERIES	**HFPN**	
SOURCE Air/Bar	5-10 Bar	700 Bar
POWER (kW)	2.8	
OIL FLOW (lpm)	7.5 (LP) × 2.5 (MP) ×0.9 (HP)	
WEIGHT (kg)	Without Oil: 26	
DIMENSIONS (cm)	50 (L) x 26 (W) x 38 (H)	



HFST SERIES
STANDARD TENSIONER

Achieving Unrivaled Joint Integrity and Precision

In the demanding world of critical bolted connections-from subsea pipelines and power generation turbines to massive construction projects-the reliable integrity of every joint is paramount. Traditional tightening methods, constrained by the unpredictable variable of friction, often compromise the accuracy and uniformity essential for joint longevity and operational safety.

At **ABS**, we engineered our line of **Hydraulic Bolt Tensioning Systems** to eliminate these compromises and introducing a superior method of bolting that ensures predictable, precise, and repeatable load application every single time.

Why Tensioning is the Critical Difference

Our hydraulic tensioners apply a pure, axial force to stretch the bolt in its elastic region. By bypassing frictional resistance entirely, we guarantee that the calculated hydraulic pressure translates directly into the specified bolt preload.

We provide a comprehensive range of tensioning tools:

- **Single-stage**
- **Multi-stage**
- **Spring Return**
- **Hydraulic Nut**
- **Direct Fit and customized**

ABS Tensioning Systems are designed for optimal performance across the widest spectrum of bolt sizes and application clearances. We are committed to delivering not just a tool, but a complete bolting solution that elevates your standards of safety, quality, and operational uptime.

Secure Your World with ABS Precision Tensioning Tools.



BOLT SIZE RANGE **3/4" -5 3/4"**

M16-M150

Ex / CE conformity

With the ABS Tensioners, you gain:

Unmatched Accuracy

Achieved by eliminating the friction factor inherent in torque-based tightening.

Uniform Clamping Force

The ability to tension 50% or 100% of bolts simultaneously ensures even gasket compression around point closure.

Enhanced Safety and Efficiency

Incorporating the latest safety features, these tensioners prioritize user safety during operations and minimizes tightening time on critical assets.

Long Stroke Design

Enables efficient and precise bolt tensioning across a wider range of applications.

HFST SERIES
STANDARD TENSIONER



MODEL	Bolt Size		MAX. LOAD		HYDRAULIC PRESSURE AREA (MM2	MAX. PRESSURE (bar)	STROKE (mm)	DIMENSIONS					
	in	mm	kN	tonf				A	B	C	D	E	F
HFST-11		M16	233	23.8	1555	1500	12	74	31	64	78.2	45.2	63.9
	3/4"	M20											
	7/8"	M22											
	1"	M24											73/63.9
	1-1/8"	M27											73
HFST-12	1-1/8"	M27	433	44.0	2884	1500	15	105	42	89	101.2	58.1	89.8
		M30											
	1-1/4"	M33											
	1-3/8"	M36											94
	1-1/2"	M39											105
HFST-13	1-1/2"	M39	791	80.0	5271	1500	15	136	54	89	116	58.2	124.6
	1-5/8"	M42											
	1-3/4"	M45											
	1-7/8"	M48											130
	2"	M52											135
HFST-14	2"	M52	1267	129.0	8445	1500	15	172	65.5	102	119	58	149.7
	2-1/4"	M56											
	2-1/2"	M64											182
HFST-15	2-1/2"	M64	1830	186.0	12197	1500	15	200	76	98	139.6	64	182
	2-3/4"	M72											185
	3"	M76											187
HFST-16	3"	M76	2502	255.0	16682	1500	15	235	94	125	163	68	197
	3-1/4"	M80											210/197
	3-1/2"	M90											218
HFST-17	3-1/2"	M90	2629	268.0	17530	1500	15	245	102	125	174	66.2	234
	3-3/4"	M95											
	4"	M100											
HFST-18	4"	M100	3802	387.7	25349	1500	15	286	122	133	191	73	241
	4-1/2"	M110											
	5"	M125									220		270/241
HFST-19	5"	M125	4903	500	32688	1500	15	335	143	165	217	78	309
	5-1/4"	M130									217		
	5-3/4"	M150									240		325

*2500 bar design are available on request.
*Tool dimensions and load value are subject to design specification.
*Nut height is assumed 1 x Bolt Diameter.
*All tools are 15 mm stroke except BST-11 which is 12 mm.
*Thread pitch for metric bolt sizes will be metric coarse.
*Thread pitch for imperial bolt sizes will be UNC up to 1 inch and UN8 for 1-1/8 inch upwards.

HFSRT SERIES
SPRING RETURN TENSIONER

Spring Return Tensioner is a hydraulic bolt tensioning tool equipped with an automatic, spring-activated piston return mechanism, ensuring fast, safe, and reliable operation. Designed to enhance productivity and minimize downtime, it utilizes advanced materials and modern technology for efficient, time-saving performance.

Durable
Operational performance does not degrade during the life of the tool. Extensive in-house tests at full stroke and full pressure have shown that it far out performs current HFSRT load cells.

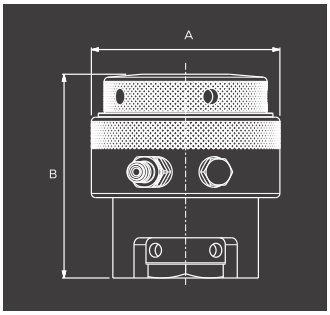
Increased Safety
HFSRT Load cells have a relief valve to prevent accidental overstroke of the tool. This safety mechanism prevents seal blowouts and the user's exposure to ejected oil.

Improved Seal Technology
Latest design eases seal change outs and enhances general performance throughout high cycle usage.

BOLT SIZE RANGE **3/4" - 4"**

M20 - M100





MODEL	BOLT DIAMETER		MAXIMUM TENSIONER LOAD		HYDRAULIC PRESSURE AREA	MAX. PRESSURE	STROKE		DIMENSIONS (mm)	
	inch	mm	kN	lbf	mm^2	bar	inch	mm	A	B
HFSRT-O*	3/4"	M20	160	35,970	1,070	1500	0.315"	8	66	93
	7/8"	M22								93
HFSRT-1	1"	M24	280	62,950	1,870	1500	0.375"	10	87	117
	11/8"	M27								117
	-	-								120
HFSRT-2	1"	M24	450	101,160	3,000	1500	0.375"	10	103	117
	11/8"	M27								117
	11/4"	M30								120
	13/8"	M33								123
	-	M36								126
HFSRT-3	11/4"	M33	660	148,370	4,400	1500	0.375"	10	118	123
	13/8"	M36								126
	11/2"	M39								130
	15/8"	M42								133
HFSRT-4	11/2"	M39	1,000	224,810	6,670	1500	0.375"	10	141	132
	15/8"	M42								135
	13/4"	M45								139
	17/8"	M48								142
	2"	-								145
HFSRT-5	2"	M52	1,500	337,210	10,000	1500	0.375"	10	176	148
	2 1/4"	M56								154
	2 1/2"	M60								161
	2 3/4"	M64								161
	-	M68								167
HFSRT-6	2 3/4"	M72	2,500	562,020	16,670	1500	0.375"	10	219	167
	3"	M76								171
	3 1/4"	M80								180
	3 1/2"	M85								180
	-	M90								186
HFSRT-7	3 1/2"	M90	3,200	719,390	21,340	1500	0.375"	10	252	186
	3 3/4"	M95								186
	4"	M100								192
	-	-								199

*HFSRT-0 is not an spring return tensioner.

HFDF SERIES
DIRECT FIT TENSIONER

When space is tight and loads are heavy, our Direct Fit tensioners step up to conquer the challenge. This ingenious one-piece design delivers a perfect fit for confined environments, eliminating the need for bulky adapters and simplifying setup. Gone are the days of frequent maintenance hassles. The streamlined design minimises wear and tear, keeping your bolting operations running smoothly. Plus, its versatility allows for customisation to specific requirements, ensuring optimal performance for any task.

Don't let limited clearance hold you back. The compact design packs a powerful punch, tackling even the most demanding high-load applications with ease.



BOLT SIZE RANGE **3/4" - 4"**

M20-M100

Compact Design
Allows the operator easy usage and smooth process flow.

Increased Safety & Speed
Designed to boost safety and speed for operators.

Customizable Design
Can be customized to fit all applications.

Hassle Free Operations
Preferred tool for confined spaces.



BOLT SIZE RANGE **1" - 2-1/2"**

M24 - M64

HFMT SERIES
MULTI STAGE TENSIONER

The ABS Multi Stage bolt tensioners exemplify versatility and reliability, making them ideal hydraulic bolt tensioners for demanding applications, especially in high-load and confined- space scenarios. Designed for various applications, these hydraulic bolt tensioners are crafted to withstand prolonged usage while demanding minimal maintenance.

- **Minimal Maintenance:** Invest in reduced downtime and lower operating costs with the tensioner's minimal maintenance requirements.
- **User-Friendly Design:** Intuitive controls and a smooth operation ensure efficient and error-free bolting, minimizing user fatigue.
- **Handle the Toughest Jobs:** Engineered for exceptional strength and durability, these tensioners withstand demanding applications and prolonged use.

MODEL	BOLT DIA		MAX. LOAD		TENSIONER DIA		TENSIONER HEIGHT		TENSIONER STROKE	
	inch	mm	kN	ibf	inch	mm	inch	mm	inch	mm
HFMT-24	1"	M24	288	64,742	2.36	60	7.40	185	0.28	7
HFMT-27	1-1/8"	M27	375	84,300	2.60	66	7.62	193.5	0.28	7
HFMT-30	1-1/8"	M30	462	103,858	2.83	72	7.9	201	0.28	7
HFMT-33	1-1/4"	M33	572	128,586	3.07	78	8.50	216	0.31	8
HFMT-36	1-3/8"	M36	670	150,616	3.25	82.5	9.04	229.5	0.39	10
HFMT-39	1-1/2"	M39	802	180,290	3.62	92	10.31	263	0.39	10
HFMT-42	1-5/8"	M42	920.5	206,928	3.86	98	10.31	262	0.39	10
HFMT-45	1-3/4"	M45	1082	243,234	4.13	105	10.91	281.5	0.39	10
HFMT-48	1-7/8"	M48	1222	274,706	4.37	111	11.56	293.5	0.39	10
HFMT-52	2"	M52	1452	326,410	4.72	120	12.80	327	0.39	10
HFMT-56	2-1/4"	M56	1675	376,540	5.04	128	12.99	330	0.39	10
HFMT-64	2-1/2"	M64	2244	494,560	5.83	146	14.23	376	0.47	12

*For low radial clearance applications

HFSS SERIES
SUBSEA TENSIONER

Subsea Tensioning Solution

ABS HFSS Subsea Hydraulic Tensioners are purpose-built for controlled bolt tensioning in offshore and underwater applications. The HFSS range delivers accurate and repeatable bolt preload across ANSI/ASME, API, MSS, and selected NORSOK/OSS flange applications.

Designed to minimise the number of load cells required, the system provides an efficient solution for a wide variety of subsea bolting challenges. It is suitable for pipeline flanges, BOPs, Christmas trees, risers, clamps, and other critical offshore equipment.

The tensioners can be supplied with solid or split reaction nuts and various hydraulic connection configurations to meet specific application requirements.

- Ultra-quick tool installation/removal
- Compliant with 2014/68/EU
- 100% FAT pressure testing prior to dispatch
- CE Marked by an ISO 9001 OEM



HFSS Subsea Tensioner Features

Quick-Install Split Reaction Nut

Achieved by eliminating the friction factor inherent in torque-based tightening.

Composite Seal Technology

Advanced sealing system extends service life and deliver reliable performance in demanding subsea environments.

Corrosion-Resistant Construction

Advanced plating and premium materials provide exceptional resistance to wear and harsh offshore environments.

Extended Operating Stroke

20 mm stroke reduces reset cycles, improving productivity and efficiency during subsea bolting operations.

Precision Hydraulic Connections

CEN hydraulic connections ensure a secure, leakfree interface for consistent pressure transmission and environments.

BOLT SIZE RANGE 3/4" -4"

M20 - M100

HFSS SERIES
SUBSEA TENSIONER



MODEL	Bolt size (Imperial)	Bolt size (Metric)	Max OD (mm)	Max OD (in)	Max height incl. nut (mm)	Max height incl. nut (in)	Max load (kN)	Max load (lbf)	Max stroke (mm)	Max stroke (in)	Max weight incl. nut (kg)	Max weight incl. nut (lb)
HFSS1	-	M20 × 2.5	90	3.54	174	6.85	361	81.2	30	1.181	5.6	12.3
	3/4" UNC	M22 × 2.5										
	7/8" UNC	M24 × 3										
	1" UNC	M27 × 3										
	1 1/8" 8UN	M30 × 3.5										
	1 1/4" 8UN	M33 × 3.5										
HFSS2	1 3/8" 8UN	M36 × 4	109	4.29	180	7.09	544	122.3	30	1.181	7.9	17.4
	1 1/2" 8UN	M39 × 4										
	1 5/8" 8UN	M42 × 4.5										
HFSS3	1 3/4" 8UN	M45 × 4.5	130	5.12	202.5	7.97	813	182.8	30	1.181	11.5	25.4
	1 7/8" 8UN	M48 × 5										
	2" 8UN	M52 × 5.5										
HFSS4	2 1/4" 8UN	M56 × 5.5	173	6.81	241.5	9.51	1551	348.7	30	1.181	23.1	50.9
		M60 × 5.5										
	2 1/2" 8UN	M64 × 6										
	2 3/4" 8UN	M72 × 6										
HFSS5	3" 8UN	M76 × 6	215	8.46	292	11.5	2562	576	30	1.181	41.4	91.2
	3 1/4" 8UN	M80 × 6										
	3 1/2" 8UN	M85 × 6										
		M90 × 6										
HFSS6	3 3/4" 8UN	M95 × 6	243	9.57	316.5	12.5	3233	726.8	30	1.181	60	132.2
	4" 8UN	M100 × 6										

HFSS is available in a range of inlet/outlet combinations, including:

- Male-Male (standard, and easiest for operators)
- Male-Female (as per many topside counterparts)
- Male-Blank (for when 3-way hoses are utilised)
- Swivel connections where required

Designed with a number of standout features: best-in-class ergonomics, lightweight design,easy-on, easy off interfacing and alsosafety sleeves wherever used on smaller sizes, the HFSS range truly is the world leader in subsea hydraulic tensioning technology.

HFHN SERIES

HYDRAULIC NUT

ABS introduces the next-generation fastening solution - THE HYDRAULIC NUT.

Designed as a direct replacement for conventional hexagon nuts, our hydraulic nuts are self-contained tensioningsystems. By integrating the hydraulic cylinder and locking mechanism directly into the nut structure, we offer a compact, permanent solution that delivers the pure, axial bolt tensioning benefits of a bolt tensioner-but remains fixed on the stud.

Precision Bolt Load

Accurate pre-set bolt tension using simple hydraulic pressure, eliminating thread friction errors.

Compact Design

Ideal for applications with limited radial or height clearance, enabling installation in confined spaces.

BOLT SIZE RANGE **7/8" - 6"**

M22 - M150

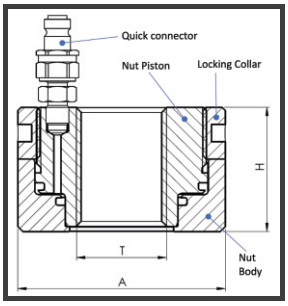
Quick Removal

Fast and non-destructive tension release for easy maintenance, reducing downtime during servicing.

Long Stroke Capability

Efficient bolt tensioning across a wide range of applications, ensuring uniform bolt load distribution.





HFHN-15 RANGE - MAX 1500 BAR

MODEL		BOLT THREAD SIZE		MAX LOAD		PRESSURE AREA	NUT OD	NUT HEIGHT	NUT STROKE	WEIGHT
		T		F		HPA	A	H		
METRIC	IMPERIAL	METRIC	IMPERIAL	Kn	tonf	mm2	mm	mm	mm	Kg
HFHN-1500-M022	HFHN-1500-0750	M22 x 2.5	3/4in UNC	152.1	15.50	1014	56.0	64	6	1.3
HFHN-1500-M024	HFHN-1500-0875	M24 x 3	7/8in UNC	176.1	17.95	1174	58.0	64	6	1.36
HFHN-1500-M027	HFHN-1500-1000	M27 x 3	1in UNC	229.8	23.42	1532	65.0	64	6	1.6
HFHN-1500-M030	HFHN-1500-1125	M30 x 3.5	1-1/8in 8UN	279.6	28.50	1864	72.0	69	6	2.1
HFHN-1500-M033	HFHN-1500-1250	M33 x 3.5	1-1/4in 8UN	346.3	35.30	2309	78.0	69	6	2.4
HFHN-1500-M036	HFHN-1500-1375	M36 x 4	1-3/8in 8UN	409.3	41.72	2729	85.0	70	6	2.9
HFHN-1500-M039	HFHN-1500-1500	M39 x 4	1-1/2in 8UN	488.5	49.79	3257	92.0	70	6	3.3
HFHN-1500-M042	HFHN-1500-1625	M42 x 4.5	1-5/8in 8UN	576.0	58.71	3840	100.0	75	6	4.2
HFHN-1500-M045	HFHN-1500-1750	M45 x 4.5	1-3/4in 8UN	676.0	68.90	4507	107.0	75	6	4.7
HFHN-1500-M048	HFHN-1500-1875	M48 x 5	1-7/8in 8UN	783.5	79.85	5223	117.0	79.7	8	5.9
HFHN-1500-M052	HFHN-1500-2000	M52 x 5	2in 8UN	896.8	91.40	5979	125.0	79.7	8	6.7
HFHN-1500-M056	-	M56 x 5.5	-	1016.1	103.56	6774	133.0	80.2	8	7.6
HFHN-1500-M060	HFHN-1500-2250	M60 x 5.5	2.25in 8UN	1180.4	120.30	7869	141.0	80.2	8	8.8
HFNN-1500-M064	HFHN-1500-2500	M64 x 6	2.5in 8UN	1438.4	146.60	9590	155.0	80.2	8	10.1
HFHN-1500-M068	HFHN-1500-2750	M68 x 6	2-3/4in 8UN	1755.5	178.92	11704	172.0	90.2	10	14
HFHN-1500-M072	-	M72 x 6	-	1729.1	176.23	11527	172.0	90.2	10	14.1
HFHN-1500-M076	HFHN-1500-3000	M76 x 6	3in 8UN	2106.5	214.70	14044	188.0	93.7	10	17.6
HFHN-1500-M080	-	M80 x 6	-	2171.8	221.35	14479	192.0	95.2	10	18.4
HFHN-1500-M085	HFHN-1500-3250	M85 x 6	3-1/4in 8UN	2488.1	253.58	16587	204.0	95.2	10	20.7
HFHN-1500-M090	HFHN-1500-3500	M90 x 6	3-1/2in 8UN	2898.9	295.46	19326	219.0	95.2	10	24
HFHN-1500-M095	HFHN-1500-3750	M95 x 6	3-3/4in 8UN	3345.4	340.96	22302	235.0	97.2	10	28
HFHN-1500-M100	HFHN-1500-4000	M100 x 6	4in 8UN	3820.7	389.40	25471	254.0	116.8	15	39.5
HFHN-1500-M110	HFHN-1500-4250	M110 x 6	4-1/4in 8UN	4326.8	440.99	28846	269.0	116.8	15	44.2
HFHN-1500-M115	HFHN-1500-4500	M115 x 6	4-1/2in 8UN	4869.4	496.29	32463	284.0	116.8	15	49.2
HFHN-1500-M120	HFHN-1500-4750	M120 x 6	4-3/4in 8UN	5439.6	554.40	36264	300.0	119.7	15	56.2
HFHN-1500-M125	HFHN-1500-5000	M125 x 6	5in 6UN	5946.0	606.02	39640	314.0	125	15	64.2
HFHN-1500-M130	HFHN-1500-5250	M130 x 6	5-1/4in 6UN	6574.4	670.07	43829	329.0	132	15	74.6
HFHN-1500-M140	HFHN-1500-5500	M140 x 6	5-1/2in 4UN	7094.1	723.03	47294	343.0	138.1	15	84.9
HFHN-1500-M145	HFHN-1500-5750	M145 x 6	5-3/4in 4UN	7708.2	785.62	51388	358.0	145	15	97
HFHN-1500-M150	HFHN-1500-6000	M150 x 6	6in 4UN	8421.5	858.32	56143	375.0	150	15	110.1

TENSIONING PUMPS

ABS Tensioning Pumps redefine bolting operations by delivering precise and controlled force for consistent and accurate bolt tensioning. Available in manual, electric, and pneumatic models, these pumps are designed to meet diverse operational requirements across various industries. Their advanced precision minimizes the risk of over- or under-tightening, effectively preventing joint failures and component damage—setting **ABS** apart from conventional tensioning methods.

Beyond conventional practices, ABS pumps enhance safety, versatility, and ease of use in every application. Ergonomically designed, lightweight, and compact, they ensure comfortable handling even in confined spaces. Their robust construction and compatibility with a wide range of hydraulic tensioners enable efficient operation across various bolt sizes and applications, delivering superior safety, reliability, and performance.

HYDRAULIC HAND PUMPS

MODEL	HF-HP16-1		HF-HP16-3	
PUMP TYPE	Double Speed		Double Speed	
MAX. PRESSURE CAPACITY (bar)	1600		1600	
USABLE OIL CAPACITY (CC)	1440		3240	
PRESSURE RATING (bar)	15 (1st Stage)	1600 (2st Stage)	15 (1st Stage)	1600 (2st Stage)
OUTPUT OIL VOLUME EACH STROKE (cm3)	32 (1st Stage)	2.5 (2st Stage)	32 (1st Stage)	2.5 (2st Stage)
HANDLE FORCE (N)	375		375	
OVER DIMENSION (MM)	577 (A) x 120 (B) x 170 ©		582 (A) x 200 (B) x 170©	
OUTPUT ADAPTER	G1/4"		G1/4"	
WEIGHT (Kg)	6.3		10	



- **CE Certified:** Complies with stringent safety and quality standards.
- **Precision Monitoring:** Equipped with a dual-scale (psi/bar) pressure gauge, ensuring clear and accurate pressure monitoring.
- **Efficient Design:** Two-stage operation for increased power and efficiency, requiring fewer pump strokes.
- **Variable Pressure Options:** Choose from **1500** and **2500** bar configurations based on your specific bolting needs.

Unwavering Reliability **Performance You Can Trust**

HYDRAULIC ELECTRIC PUMPS



*Representative Image

MODEL	HFTEL - 1500	
OIL FLOW (L/min)	0.35/0.37 HIGH	1.4/1.65 LOW
PRESSURE (bar)	1500/1500 HIGH	100/100 LOW
POWER (KW)	1.1/1.1	
USABLE OIL CAPACITY(Ltr.)	5	
INPUT POWER	1ph 110V-240V 50HZ / 1ph 100V-130V 60HZ	
WEIGHT (kg) (W/O Oil)	37 /37	
DIMENSIONS: L(mm) x W(mm) x H(mm)	490 x 310 x 500 / 490 x 310 x 500	582 (A) x 200 (B) x 170 (C)

- Withstands rough handling in workshops, mobile operations, and industrial settings.
- Input Supply of 230V / 50Hz.
- **Options: 1500 and 2500 Bar for specific bolting needs.**
- **Precise Pressure Monitoring:** a dual-scale gauge (Mpa gauge option).
- Safety Relief Valve to prevent exceedingsafe pressure limits.

Built to Endure **Performance and Control**

HYDRAULIC PNEUMATIC PUMPS

MODEL	HFTPN - 1500 - A
OIL FLOW (L/MIN) HIGH/ LOW	H0.37/L1.4
PRESSURE (BAR) HIGH/ LOW	H1500/L100
USABLE OIL CAPACITY L	5L
INPUT AIR PRESSURE	4-8 Bar
WEIGHT WITHOUT OIL	23Kg
OVER DIMENSION L x W x H(mm)	490 x 310 x 500mm

Hydraulic power tools professional manufacture



- Specifically designed for efficient pressurization of Hydraulic bolt tensioners, ensuring consistent and accurate bolt tightening.
- Input Air supply of 4-8 Bar
- FRL for clean, controlled and lubricated air supply.
- **Options: 1500 and 2500 Bar for specific bolting needs.**
- Precise Pressure Monitoring: a dual-scale gauge (Mpa gauge option).
- Safety Relief Valve to prevent exceeding safe pressure limits.

Engineered for Excellence **Built-in Safety and Control**

MECHANICAL FLANGE ALIGNER

The **ABS Mechanical Flange Aligner** is a compact and rugged tool designed for the safe and precise correction of misaligned flanges. Built for demanding industrial environments, it enables accurate flange alignment during installation, maintenance, and repair of pipeline connections. Its robust mechanical design ensures reliable performance in both onshore and offshore applications.

Compact Mechanical Design

Lightweight and easy to deploy in field operations.

High Alignment Force

Provides controlled force for precise flange positioning.

Wide Bolt Range

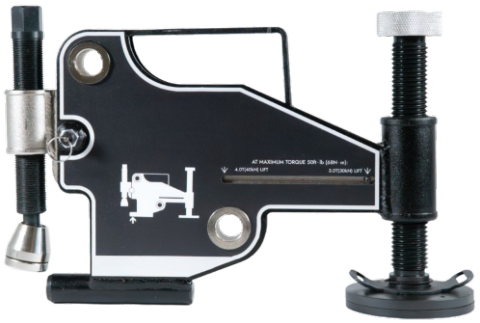
Suitable for multiple flange bolt sizes.

Single-Operator Setup

Hand-adjustable base allows easy positioning.

Secure Operation

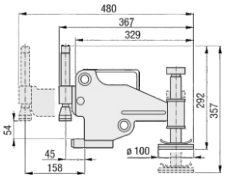
Safety strap enables stable horizontal or vertical use.



SPECIFICATION

MODEL	Capacity	Min Bolt Size	Flange Thickness	Bolt Hole Diameter	Weight
HF-FA-M-4T	4 Ton (40kN)	24 mm	30-133 mm	25 mm	9 kg





HYDRAULIC FLANGE ALIGNER

The **ABS Hydraulic Flange Aligner** is a heavy-duty alignment tool designed for fast and controlled flange correction. Equipped with a hydraulic pump and hose system, it delivers powerful and precise alignment for large-diameter and high-pressure flange connections. Ideal for demanding industrial applications where accuracy, safety, and efficiency are critical.

Hydraulic Alignment System

Provides controlled and powerful alignment force.

Fast & Precise Operation

Enables accurate flange positioning with minimal effort.

Heavy-Duty Construction

Designed for harsh offshore and onshore environments.

Complete Kit Option

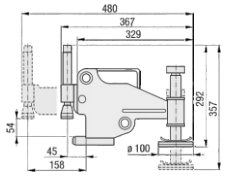
Available with pump, hose, and carrying case.

Reliable Performance

Suitable for installation, maintenance, and repair work.

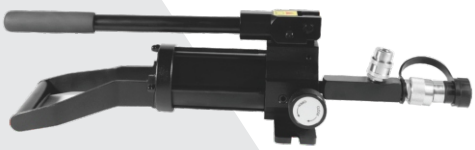






SPECIFICATION

MODEL	Capacity	Min Bolt Size	Flange Thickness	Bolt Hole Diameter	Weight
HF-FA-H-9T	9 Ton (90 kN)	31.5 mm	93–228 mm	35.5 mm	16 kg



Hydraulic Pump

HFFS SERIES

FLANGE SPREADERS

The **ABS Flange Spreaders** are designed to provide safe and controlled separation of flange joints during maintenance, inspection, and repair operations. These tools eliminate the need for traditional methods such as hammers, chisels, or wedges, delivering precise spreading force without damaging flange faces or gaskets.

Compact and easy to operate, the spreaders require minimal access clearance and are ideal for pipeline maintenance, shutdown operations, and confined working environments. Available in mechanical and hydraulic configurations, the tools provide reliable and efficient flange separation across a wide range of industrial applications.

Minimal Access Requirement

Requires only 6 mm tip clearance for insertion.

Compact & Portable Design

Lightweight tools suitable for field operations.

Multiple Configurations

Available as mechanical, hydraulic, integrated pump, and complete kit options.

Safe Flange Separation

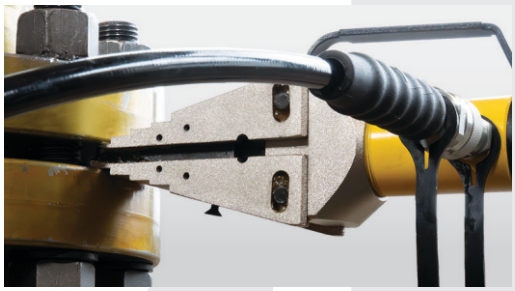
Controlled spreading prevents damage to flange surfaces.

Durable Construction

Low-maintenance design built for demanding environments.

Complete Tool Kits Available

Supplied with stepped blocks, safety block, hydraulic hose, pump, and carrying case depending on configuration.





Hydraulic Pump



8 Ton Flange Spreaders



14 Ton Flange Spreaders



24 Ton Flange Spreaders

MODEL	Max Force (tons)	Max. Spread (mm / in	Tip Clearance (mm / in)	Spreader Type	Oil Cap (cm^3 / in^3)	Weight (kg / lbs)
HF-FS-M-8	8	81 / 3.16	6 / 0.24	Mechanical	N/A	8 / 17.6
HF-FS-H-14	14	81 / 3.16	6 / 0.24	Hydraulic	N/A	6.2 / 13.7
HF-FS-H-14-TI	14	81 / 3.16	6 / 0.24	Hydraulic (Integrated Pump)	N/A	7.2 / 15.9
HF-FS-H-24	24	81 / 3.16	6 / 0.24	Hydraulic	N/A	6.4 / 14.1
HF-FS-H-24-TI	24	81 / 3.16	6 / 0.24	Hydraulic (Integrated Pump)	N/A	8.5 / 18.7

HFNS SERIES

NUT SPLITTERS

The **ABS Hydraulic Nut Splitters** are designed for the fast and safe removal of seized, corroded, or damaged nuts in industrial maintenance applications. These tools provide reliable cutting performance without the risks associated with grinders or flame cutting methods.

Featuring a compact design and an angled head, the nut splitter allows easy access in tight working spaces. The single-acting spring return cylinder enables quick operation and automatic reset, making it an efficient solution for demanding maintenance environments.

Angled Head Design

Provides excellent access to nuts in confined spaces.

Single-Acting Spring Return Cylinder

Enables quick cutting and automatic reset.

Complete Tool Kit

Supplied with spare chisel, spare set screw, Allen keys, and rugged carrying case.

Compact & Ergonomic Construction

Ensures easy handling during operation.

Heavy-Duty Cutting Chisel

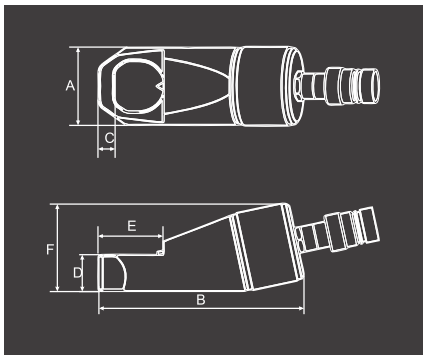
Durable blade that can be reground for extended service life.

Safe Nut Removal

Eliminates risks associated with grinding or flame cutting.







MODEL	HEXAGON NUT RANGE (mm)	BOLT RANGE (mm)	CAPACITY (TON)	OIL CAPACITY (c.c.)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	WEIGHT (Kg)
HFNS-1924	19-24	M12-M16	10	18	60	171.5	10	25	40	68	2.2
HFNS-2432	24-32	M16-M22	15	40	70	192	13	30	52	79	3.3
HFNS-3241	32-41	M22-M27	20	48	80	230	16	36	65	92	4.4
HFNS-4150	41-50	M27-M33	35	150	100	286	21	45	76	116	8.2
HFNS-5060	50-60	M33-M39	50	250	117	321	24	54.5	92	134	11.7
HFNS-6075	60-75	M39-M48	90	492	156	393	26	72	-	110	34.1

*The hardness of nut material must not exceed HRc-44. Should not be used on stainless steel nuts and/or square shaped nuts.
*Higher Sizes available on request.

HFTW SERIES

MANUAL TORQUE WRENCHES

ABS Manual Torque Wrenches are specialized tools featuring a calibrated mechanism that allows you to apply controlled and measurable torque to a fastener. They typically consist of a handle, a body with a scale displaying torque values, and an attachment for sockets or other drives.



RATCHET TYPE				
TORQUE (Nm)		SQ. DRIVE (inch)	WEIGHT (kg)	OAL (mm)
MIN.	MAX.			
2.5	1900	3/8" - 1"	0.73 - 24	390 - 1340

RATCHET TYPE				
TORQUE (Ft.lbs)		SQ. DRIVE (inch)	WEIGHT (lbs)	OAL (inch)
MIN.	MAX.			
1.84	1401.36	3/8" - 1"	1.60 - 52.91	15.35 - 52.75

*Ring Jaw is also available

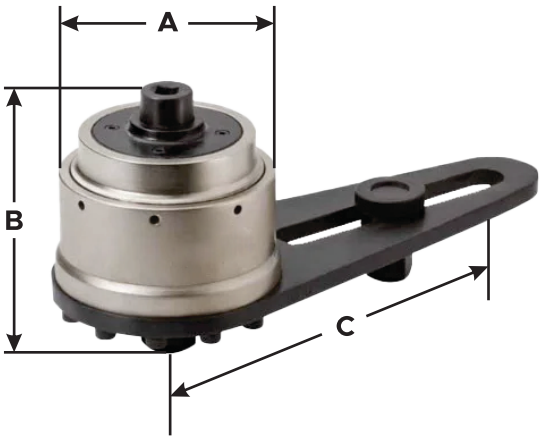
*Detailed list of models shall be provided on request.

HFTM SERIES

TORQUE MULTIPLIER

STANDARD INDUSTRIAL TORQUE MULTIPLIER

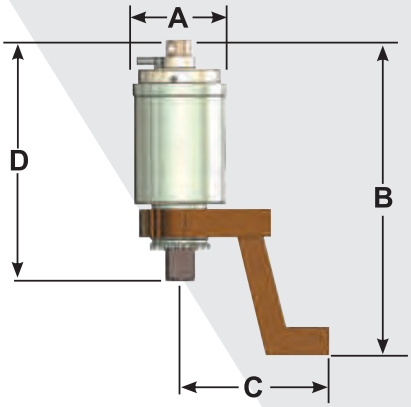
- The ratio stated is the true torque multiplication factor.
- Accuracy better than ± 5%.
- Precision tightening and loosening of all heavy duty fasteners.
- Higher capacity multipliers are furnished with strong ratchets (Anti-wind up mechanism) allowing jobs to be performed easily, efficiently, and safely.
- Precision manufacturing ensures long life and premier quality.
- A groove on output square breaks if over loaded in excess of 20% of its capacity.



TORQUE OUTPUT CAPACITY (MAX.)							
TORQUE (ft. lbs.)		TORQUE (Nm)		DIA. (mm)	HEIGHT (mm)	INPUT DRIVE FEMALE (INCH)	OUTPUT DRIVE MALE (INCH)
MIN.	MAX.	MIN.	MAX.				
1250	35000	1700	47500	115 - 315	87 - 550	1/2" - 3/4"	3/4" - 2-1/2"

HSFTM SERIES

COMPACT & LIGHT WEIGHT TORQUE MULTIPLIER



MODEL	HSFTM - 25	HSFTM - 32	HSFTM - 42
A	81	88	88
B	133-175	272	272
C	165	141	151
D	149	207	217

- Compact, Slim Body facilitates to be used in constrained areas.
- Strong, safe Anti Wind-Up Ratchet available on most models for safe and comfortable operation.
- A wide range of alternative reaction arms are available as per customers requirement, making the Torque Multiplier adaptable to many applications.

FEATURES:

- **Compact Size:** Compact in size hence can be used in constrained areas.
- **Ratio:** Higher reduction ratio for low input.
- **Safety:** Safety shear pin at the input provisioned to prevent overloading.
- **AWUR:** In built Anti-Windup Mechanism reduces operators effort. Can be used with non-ratchet type torque wrench.
- **Pin Lock:** Pin Lock mechanism at output Sq. Drive for positive locking of socket.
- **Reaction Arm:** Different type of reaction arm available as per user requirement.
- **Accuracy:** Better than + 4% with very high repeatability.

Model	Torque Capacity			Reduction Ratio	Sq. Drive		O.D.	Weight
	Nm	Lbft	Kgm		input	output	mm	kg
HSFTM - 25	2500	1845	255	1:8	1/2"F	1"	8	4.3
HSFTM - 32	3200	2362	326	1:10	1/2" F	1"	88	6.3
HSFTM - 42	4200	3100	428	1:10	3/4" F	1.1/2"	88	6.8

*HSFTM - 32 and HSFTM - 42 are fitted with Anti-Wind-Up Ratchet (AWUR) Mechanism. STM-1 can be provided with AWUR.

CBM SERIES
SPLIT-FRAME MACHINES

PIPE CUTTING & BEVELING MACHINES

The **ABS CBM Series Split Frame Machine** is a portable pipe machining system designed for accurate **cutting, beveling, facing, and counter boring** operations. Its split-frame design allows easy installation around in-line pipes, delivering fast and precise machining even in demanding industrial environments.

Split Frame Design

Easy installation on in-line pipes without dismantling.

High Precision Machining

Accurate cutting and beveling for welding preparation.



Lightweight & Portable

Compact design for convenient on-site operation.

Versatile Operation

Performs cutting, beveling, facing, and counter boring.

Multiple Drive Options

Available in electric, pneumatic, hydraulic, and servo drive versions.

Wide Pipe Range

Suitable for various pipe diameters and wall thicknesses.

APPLICATIONS

Fabrication Yards & Workshops

Enables precise pipe cutting and beveling with minimal material waste, ensuring high weld preparation quality.

Hazardous Areas

Suitable for machining pipes carrying flammable or explosive substances where safe cold cutting is required.

Pipeline Construction

Ensures consistent bevel preparation for reliable welding in pipeline installations.

Heavy Wall Pipe Processing

Capable of handling thick-wall pipes while maintaining accuracy and surface finish.

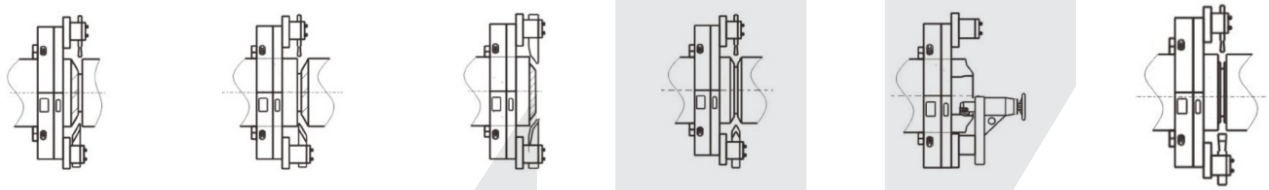
Plant Shutdown & Maintenance

Portable design allows quick installation and faster pipe processing during maintenance activities.

Versatile Material Compatibility

Suitable for machining carbon steel, stainless steel, alloy steel, and other pipe materials.

MACHINE CAPABILITIES



A - Cutting & Beveling (RH)

B - Cutting & Beveling (LH)

C - 37.5 & 10 Degree Compound Beveling

D - Double V Beveling

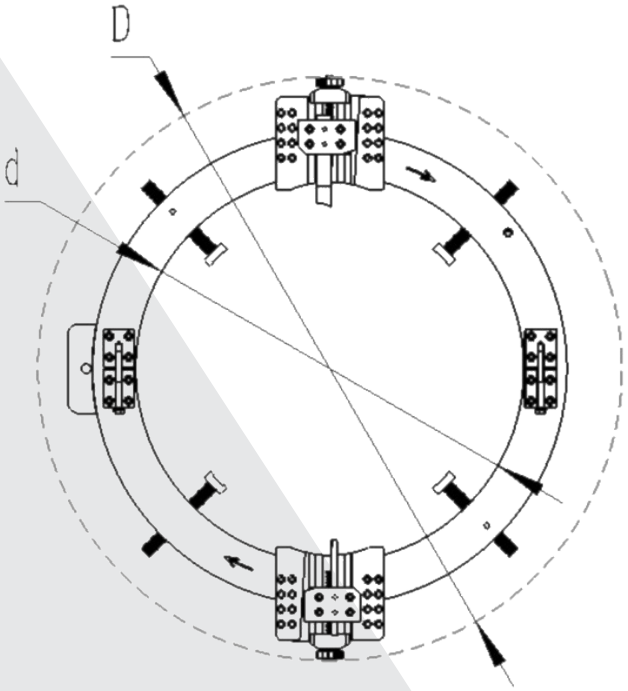
E - Counter Boring

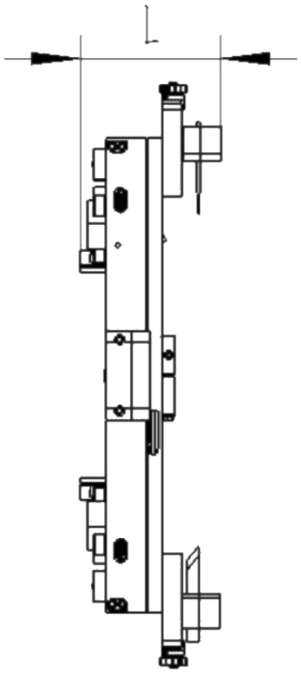
F - Cold Cutting

MODEL	SPECIFICATION	CAPACITY (OD)		WALL THICKNESS		ROTATION SPEED
		mm	in	STANDARD	HEAVY DUTY	
A-CBM-106	168	25-168	1-6	≤30	≤50	42
A-CBM-612	325	168-325	6-12	≤30	≤110	13
A-CBM-1218	457	300-457	12-18	≤30	≤110	12
A-CBM-1824	610	457-610	18-24	≤30	≤110	11
A-CBM-2430	762	610-762	24-30	≤30	≤110	10
A-CBM-3036	914	762-914	30-36	≤30	≤11C	10
A-CBM-3642	1066	914-1066	36-42	≤30	≤110	9
A-CBM-4248	1230	1066-1230	42-48	≤30	≤110	9
A-CBM-4856	1430	1219-1430	48-56	≤30	≤110	8

*Non-standard machines are available according to customers requirement.

OD MOUNTED PIPE CUTTING AND BEVELING MACHINE





MODEL SIZE	d (mm)	D (mm)	L (mm)
A-CBM-106	95	300	160
A-CBM-612	334	636	178
A-CBM-1218	466	772	180
A-CBM-1824	620	928	190
A-CBM-2430	772	1110	190
A-CBM-3036	928	1260	212
A-CBM-3642	1078	1513	212
A-CBM-4248	1248	1584	212
A-CBM-4856	1438	1784	220

ACCESSORIES

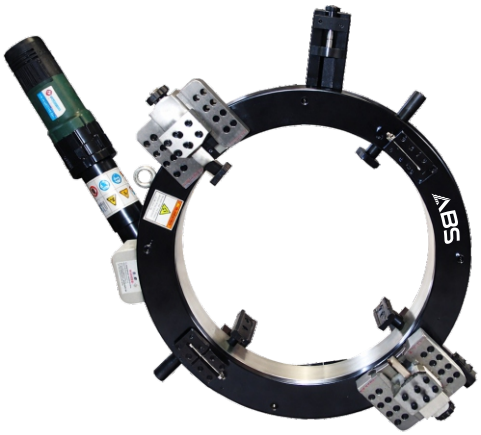
- **Standard Tool Slide**
- **Heavy Wall Tool Slide**
- **Bridge Tool Slide**
- **Tracking Tool Slide**
- **Universal Counter Boring Toolslide**
- **Tool Holder For Pipe Outer Wallmachining**

PIPE CUTTING & BEVELING MACHINES

ELECTRIC

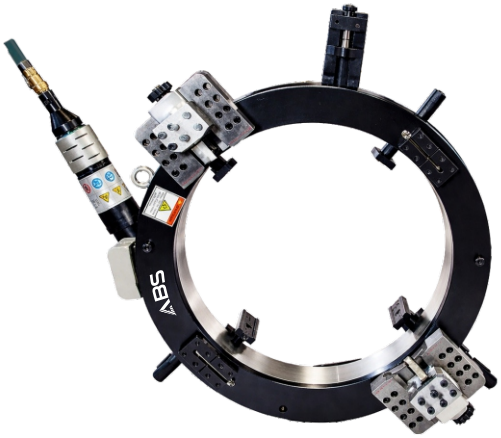
OD-Mounted Electric Series:

- Power Supply: 220-240V 1PH 50-60HZ
- Motor Power: 1.5-2KW



Electric (OCE):

- Motor Power: 1800W / 2000W.
- Working Voltage: 220-240V.
- Working Frequency: 50-60Hz.
- Working Current: 8-10A



PNEUMATIC

- Working Pressure: 0.8-1.0 mpa.
- Working Air Consumption: 1000-2000 l/min.
- Single/Double Motor Drive Available

HYDRAULIC

- Working Power of Hydraulic Station: 5.5kW, 7.5kW, 11kW
- Working Voltage: 380V 3 Phase 5 Wire
  (Other Voltages can be Customized)
- Working Frequency: 50Hz.
- Rated Pressure: 10MPa
- Rated Flow: 50-45 l/min (Stepless Speed Regulation)
- With 50 Meters Remote Control, PLC Control
- Available in PLC Type, Explosion Proof, and Diesel Power hydraulic stations to suit different site requirements.





SERVO

- Servo Motor Power: 2.3kW-4.0kW (Customizable Non-Standard)
- Working Voltage: 220V / 380V
- Working Frequency: 50-60Hz
- Equipped with Remote 50 Meter Remote Start Stop

OD MOUNTED FLANGE FACING AND SERRATION MACHINES

The machine adopts an external card clamping mechanism, providing high rigidity and stability. It can be used with both horizontal and vertical knife holders, and features a feed handwheel with a scale display for precise adjustments. This design makes it suitable for processing the inner holes of flanges as well as various types of sealing surfaces, including RF, RAT, and others.

FEATURES:

- The modular design allows for quick installation and disassembly, making it suitable even for demanding processing environments.
- Equipped with precision circular guide rails, the machine ensures long service life and excellent stability.
- Operates smoothly and without vibration, enhancing reliability and user comfort.
- A high-precision mechanical transmission system guarantees accurate horizontal, vertical, and inclined installations.
- The external card-type multi-angle support system provides greater stability during operation.
- A rotatable tool holder enables adaptability to different processing requirements.





SPECIFICATION

MODEL			CLAMPING RANGE	WORKING RANGE	TOOL TRAVEL	ROTATION
AFDP-610	AFDG-610	AFDH-610	Ø 150-610	Ø 0-610	95	0-24
AFDP-1000	AFDG-1000	AFDH-1000	Ø 500-1000	Ø 0-1000	95	0-20
AFDP-1500	AFDG-1500	AFDH-1500	Ø 1000-1500	Ø 0-1500	95	0-15
AFDP-2000	AFDG-2000	AFDH-2000	Ø 1500-2000	Ø 0-2000	95	0-13
AFDP-2500	AFDG-2500	AFDH-2500	Ø 2000-2500	Ø 0-2500	95	0-10
AFDP-3000	AFDG-3000	AFDH-3000	Ø 2500-3000	Ø 0-3000	95	0-8

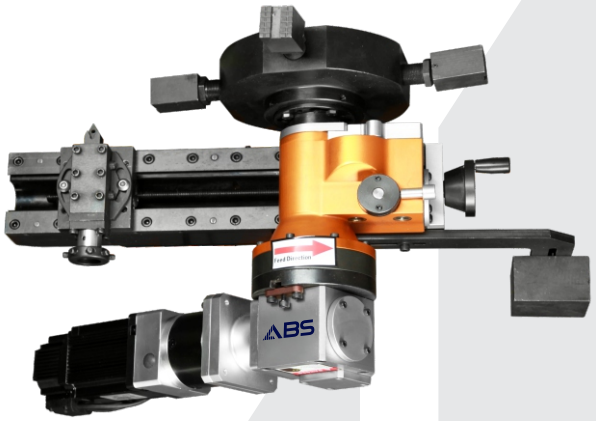
*Non-Standard machines are available according to customer's requirement

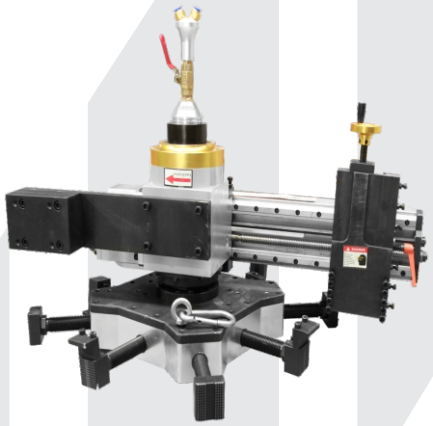
ID MOUNTED FLANGE FACING AND SERRATION MACHINES

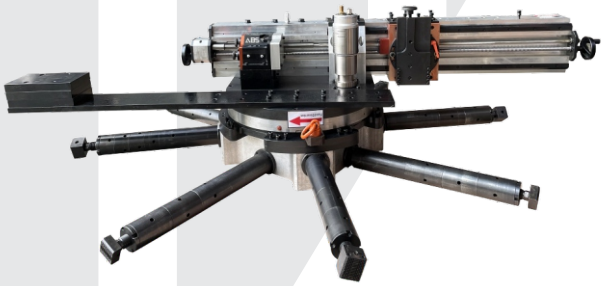
The flange facer is a multifunctional series machine composed of three parts and supported by four clamps. It features an internally mounted small working radius and a novel tool holder design that can rotate 360 degrees, providing high efficiency. This machine is suitable for various types of flange facing, seal groove machining, weld preparation, and counter boring. It is specially designed for pipe, valve, and pump flanges.

FEATURES:

- Compact and lightweight structure, making it easy to transport and operate.
- Equipped with a feed handwheel featuring a scale for improved feed accuracy.
- Automatic feeding in both axial and radial directions for enhanced efficiency.
- Capable of processing in multiple orientations including horizontal, vertical, inverted, and tilted.
- Can handle flat faces, water lines, continuous grooves, RTJ grooves, and more.
- Available with pneumatic, hydraulic, or CNC drives.







SPECIFICATION

MODEL	SPEC.	FACING RANGE (O.D)	MOUNTING RANGE (I.D)	TOOL FEED STROKE	TOOL HOLDER SWIVEL ANGLE	ROTATION SPEED
AFP	610	50-610 mm	50-508 mm	50 mm	+-30°	0-42r/min
	1000	160-1000 mm	158-820 mm	102 mm	+-360°	0-33r/min
AFH	1650	500-1650 mm	500-1500 mm	102 mm	+-360°	0-22r/min
AFS	2000	690-2200 mm	690-2000 mm	102 mm	+-360°	0-20r/min
	3000	1150-3000 mm	1120-2800 mm	102 mm	+-360°	3-12r/min

*Non-Standard machines are available according to customer's requirement

ABS Impact Sockets are engineered to transmit torque efficiently and securely, ensuring smooth tightening and loosening of fasteners. Designed for durability and precision, these sockets deliver reliable performance in demanding applications.

- Available with square drives from 1/2" to 2-1/2" in 6-point and 12-point configurations, with standard and deep lengths.
- Offered in METRIC sizes (8mm to 225mm) and IMPERIAL sizes (9/16" to 9-1/4").
- Allen key sockets available from 1/2" to 1-1/2" square drives in both standard and custom A/F sizes.
- Manufactured from Chrome Molybdenum steel, ensuring exceptional strength, impact resistance, and long service life.

Customized socket solutions are available to meet specific application and performance requirements.

Material

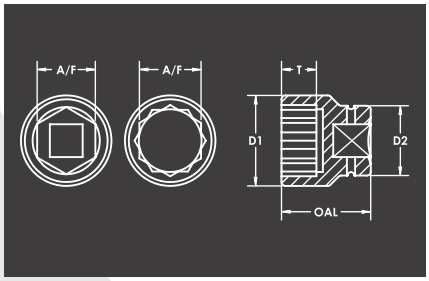
Typically manufactured using high-strength materials to ensure durability, reliability, and resistance to wear and tear.

Size Markings

Size Markings Clearly marked with their size for easy identification and selection.



SQ. DRIVE	IMPACT SOCKETS (A/F)		DEEP IMPACT SOCKETS (A/F)	
	mm	inch	mm	inch
1/2″	8 - 36	5/16″ - 1 3/8″	-	-
3/4″	17 - 50	9/16″ - 1 13/16″	17 - 50	9/16″ - 2″
1″	17 - 115	11/16″ - 4 1/2″	17 - 115	11/16″ - 4 1/2
1 1/2″	30 - 130	1 3/8″ - 5 1/8″	30 - 130	1 3/8″ - 5 1/8″
2 1/2″	43 - 225	1 5/8″ - 9 1/4″	43 - 225	1 5/8″ - 9 1/4″



*Bihexagon socket available in all sizes.

CE conformity

To reduce the female hexagon A/F size of the CNZ hex drive series, our customized low clearance hex insert offers convenient and optimum solution.

Low Clearance Hex Insert is customisable as per the requirement.

METRIC HEXAGON REDUCER

OUTSIDE A/F SIZE	INSIDE A/F SIZE	CNZ-02	CNZ-05	CNZ-10
		MODEL NUMBER	MODEL NUMBER	MODEL NUMBER
30	24	HXHR-02-30-24	-	-
32	24	HXHR-02-32-24	-	-
32	27	HXHR-02-32-27	-	-
36	30	HXHR-02-36-30	-	-
41	36	HXHR-02-41-36	HXHR-05-41-36	-
46	36	HXHR-02-46-36	HXHR-05-46-36	-
46	41	HXHR-02-46-41	HXHR-05-46-41	HXHR-10-46-41
50	41	HXHR-02-50-41	HXHR-05-50-41	HXHR-10-50-41
50	46	HXHR-02-50-46	HXHR-05-50-46	HXHR-10-50-46
55	41	HXHR-02-55-41	HXHR-05-55-41	HXHR-10-55-41
55	46	HXHR-02-55-46	HXHR-05-55-46	HXHR-10-55-46
55	50	HXHR-02-55-50	HXHR-05-55-50	HXHR-10-55-50
60	46	HXHR-02-60-46	HXHR-05-60-46	HXHR-10-60-46
60	50	-	HXHR-05-60-50	HXHR-10-60-50
60	55	-	HXHR-05-60-55	HXHR-10-60-55
65	50	-	HXHR-05-65-50	HXHR-10-65-50
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100	90	-	-	HXHR-10-100-90
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105	90	-	-	HXHR-10-105-90
105	95	-	-	HXHR-10-105-95
105	100	-	-	HXHR-10-105-100



IMPERIAL HEXAGON REDUCER	OUTSIDE A/F SIZE	INSIDE A/F SIZE	CNZ-02	CNZ-05	CNZ-10
			HEIGHT- 1.25"	HEIGHT- 1.625"	HEIGHT- 2.1"
			MODEL NUMBER	MODEL NUMBER	MODEL NUMBER
	11/4"	1 1/16"	HXHR-02-125-106	HXHR-05-125-106	-
	1 7/16"	1 1/16"	HXHR-02-143-106	HXHR-05-143-106	-
	1 7/16"	11/4"	HXHR-02-143-125	HXHR-05-143-125	-
	1 5/8"	11/4"	HXHR-02-162-125	HXHR-05-162-125	-
	1 5/8"	1 7/16"	HXHR-02-162-143	HXHR-05-162-143	-
	1 13/16"	1 7/16"	HXHR-02-181-143	HXHR-05-181-143	-
	1 13/16"	15/8"	HXHR-02-181-162	HXHR-05-181-162	HXHR-10-181-162
	2"	1 5/8"	HXHR-02-200-162	HXHR-05-200-162	HXHR-10-200-162
	2"	1 13/16"	HXHR-02-200-181	HXHR-05-200-181	HXHR-10-200-181
	2 3/16"	1 5/8"	HXHR-02-218-162	HXHR-05-218-162	HXHR-10-218-162
	2 3/16"	1 13/16"	HXHR-02-218-181	HXHR-05-218-181	HXHR-10-218-181
	2 3/16"	2"	HXHR-02-218-200	HXHR-05-218-200	HXHR-10-218-200
	2 3/8"	1 13/16"	HXHR-02-237-181	HXHR-05-237-181	HXHR-10-237-181
	2 3/8"	2"	HXHR-02-237-200	HXHR-05-237-200	HXHR-10-237-200
	2 3/8"	2 3/16"	HXHR-02-237-218	HXHR-05-237-218	HXHR-10-237-218
	2 9/16"	2"	-	HXHR-05-256-200	HXHR-10-256-200
	2 9/16"	2 3/16"	-	HXHR-05-256-218	HXHR-10-256-218
	2 9/16"	2 3/8"	-	HXHR-05-256-237	HXHR-10-256-237
	2 3/4"	2 3/16"	-	HXHR-05-275-218	HXHR-10-275-218
	2 3/4"	2 3/8"	-	HXHR-05-275-237	HXHR-10-275-237
	2 3/4"	2 9/16"	-	HXHR-05-275-256	HXHR-10-275-256
	2 15/16"	2 3/8"	-	HXHR-05-293-237	HXHR-10-293-237
	2 15/16"	2 9/16"	-	HXHR-05-293-256	HXHR-10-293-256
	2 15/16"	2 3/4"	-	HXHR-05-293-275	HXHR-10-293-275
	3 1/8"	2 9/16"	-	HXHR-05-312-256	HXHR-10-312-256
	3 1/8"	2 3/4"	-	HXHR-05-312-275	HXHR-10-312-275
	3 1/8"	2 15/16"	-	HXHR-05-312-293	HXHR-10-312-293
	3 1/2"	2 15/16"	-	-	HXHR-10-350-293
	3 1/2"	3 1/8"	-	-	HXHR-10-350-312
	3 7/8"	3 1/8"	-	-	HXHR-10-387-312
	3 7/8"	3 1/2"	-	-	HXHR-10-387-350
	4 1/8"	3 1/2"	-	-	HXHR-10-412-350
	4 1/8"	3 7/8"	-	-	HXHR-10-412-387

HFBW SERIES
BACKUP WRENCHES

ABS Backup Wrenches are designed to hold the stationary nut for fitting securely while a torque wrench tightens the opposing fastener. Available in various sizes and configurations, they ensure precise engagement with different nut and bolt setups, making them indispensable in torquing operations.

Why are they important?

- **Safety:** Prevents the stationary component from rotating during tightening, avoiding thread damage, component distortion, or operator injury.
- **Efficiency:** By holding the counter-nut firmly, backup wrenches allow the torque wrench to apply the required torque accurately and quickly, reducing setup time and improving workflow.
- **Joint Integrity:** Ensures the stationary side remains fixed, resulting in consistent preload and a secure, long-lasting bolted joint.

ABS Backup Wrenches — engineered for safety, accuracy, and reliability in every torquing operation.

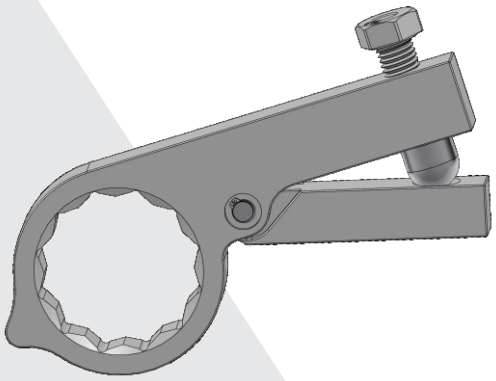


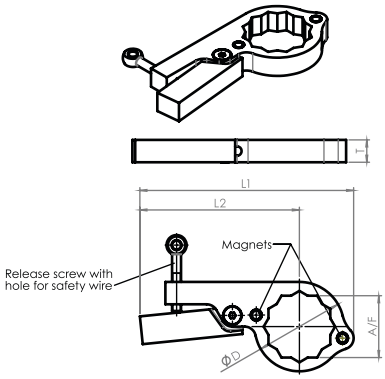
MODEL NO. (OPEN/CLOSE)	ACROSS FLAT		LOAD LIMITS	
	mm	inch	ft. lbs.	Nm
HFBW104	30	1-1/4"	2400	3254
HFBW107	36	1-7/16"	2500	3390
HFBW110	41	1-5/8"	3500	4745
HFBW113	46	1-13/16"	3500	4745
HFBW200	50	2"	4100	5559
HFBW203	55	2-3/16"	4200	5694
HFBW204	57	2-1/4"	4300	5830
HFBW206	60	2-3/8"	4300	5830
HFBW209	65	2-9/16"	4550	6169
HFBW212	70	2-3/4"	5600	7592
HFBW218	75	2-15/16"	6300	8542
HFBW302	80	3-1/8"	7000	9491
HFBW308	85	3-1/2"	7200	9762
HFBW311	90	3-11/16"	7300	9897
HFBW314	95	3-7/8"	9000	12202
HFBW400	100	4"	24000	32539
HFBW402	105	4-1/8"	24000	32539
HFBW404	110	4-1/4"	24000	32539
HFBW408	115	4-1/2"	25000	33895
HFBW410	120	4-5/8"	27000	36607
HFBW500	130	5"	27000	36607
HFBW506	135	5-3/8"	27000	36607
HFBW512	145	5-3/4"	28000	37962

HFBW SERIES
MAGNETIC BACKUP WRENCHES

Finger pinching is a common injury in industrial bolting, often caused by reaction arms or backup wrenches during tightening. **ABS Magnetic Backup Wrenches** provide hands-free solutions with advanced safety and productivity features to address this risk.

This wrench eliminates injury risks by stopping counter-nut rotation without manual intervention. Designed in both metric and imperial sizes, it uses high-strength magnets and corrosion-resistant steel to quickly secure the tool on steel surfaces, simplifying bolting tasks across diverse applications.





RANGE OF SIZES

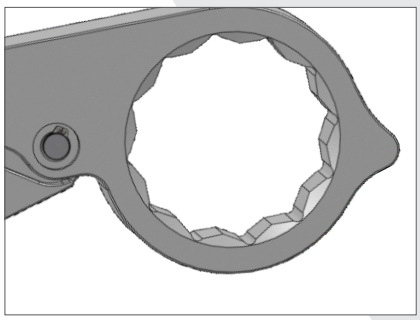
Engineered for rigorous industrial use, these wrenches come in multiple sizes with reliable 12-point cutouts to match a variety of bolting jobs. Heavy-duty applications are easily accommodated, ensuring each wrench fits precisely to the required hex size.

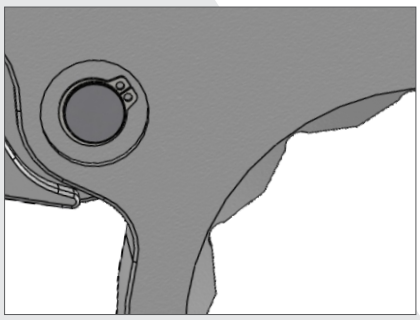
MAGNETIC LOCKS

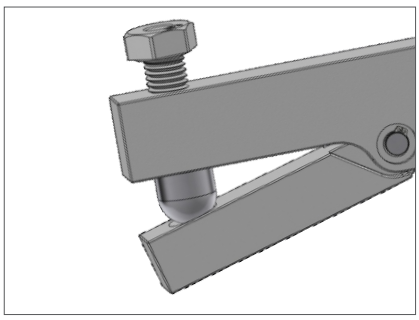
Equipped with high-strength magnets embedded in the body, the Magnetic Backup Wrenches enable fast installation and secure attachment to steel surfaces. This design speeds up setup and enhances safety by minimizing manual contact during bolting.

ADJUSTABLE ARM

The adjustable arm allows for flexible installation in diverse configurations. The eye-bolt mechanism is user-friendly—quick to lock and release after bolting—and can be fitted with a lanyard to prevent accidental drops or field hazards.







ABS Backup Wrench Quick Release:

- Provides the quickest and most reliable way to prevent counter-nut rotation during bolting.
- Effortless lock-on and rapid quick-release boost safety and overall productivity.
- Removes the need for hammers, reducing risk and saving valuable time.
- Complete wrench sets fit all standard heavy hex sizes used in industrial applications.

SPECIFICATIONS:

	A/F		L1		L2		D		T		Weight	
Range	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lb
min - max	27 - 120	9/16" - 6 1/2"	95 - 508	3.74 - 20	74.5 - 375	2.933 - 14.764	28 - 230	1.102 - 9.055	10 - 50	0.394 - 1.969	0.15 - 19.64	0.33 - 43.3

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ADVANCED BOLTING SOLUTIONS PVT. LTD.

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