HYDRASTARK OFFICIAL ENGINEERING CATALOG (VECTOR PDF)

FLANGE TOOLS, NUT SPLITTERS & RIGGING CATALOG

Hydraulic Flange Wedges, Alignment Tools, Angled & Tri-Blade Nut Splitters, Toe Jacks & Heavy Moving Skates

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Flange Bolting & Torque Calculator ->

OEM Cross-Reference Matrix ->

FACTORY DIRECT
HANGZHOU, CHINA

- Since 2008 OEM/ODM
- 700 to 4,000 Bar Rated
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INCLUDED PRODUCT SERIES DIRECTORY (14 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HNC Series Tri-Blade Heavy-Duty Flange Nut Cutters
02. HNS Series Compact Angled Hydraulic Nut Splitters
03. HFS-S Series Classic Stepped Flange Spreaders
04. HFS-W Series Hydraulic & Mechanical Flange Wedges
05. HFS-I Series Stepped Hydraulic Flange Spreaders
06. HFA Series Mechanical & Hydraulic Flange Alignment Tools
07. HLW Series Vertical Hydraulic Lifting Wedges
08. HTJ Series Heavy-Duty Hydraulic Toe Jacks
09. HMS-C Series Fixed Machinery Moving Roller Skates
10. HCJ Series Self-Contained Hydraulic Jacks
11. HMS-T Series Turntable Heavy Machinery Skates
12. HTM-P Series Precision Planetary Torque Multipliers
13. HTM-H Series Heavy Planetary Torque Multipliers
14. HBB Series Off-The-Road Tire Bead Breakers

HYDRAULIC NUT SPLITTERS | OEM CROSS-REFERENCE: ENERPAC TRI-BLADE CUTTERS EQUIVALENT

HNC Series Tri-Blade Heavy-Duty Flange Nut Cutters

Heavy-tonnage hydraulic flange nut cutters rated for 700 Bar delivering 103 to 193 Ton cutting force across 70 to 130 mm hex nuts (M45-M90), featuring 3-edge indexable Tri-Blade geometry, metric and imperial preset scales, and 3/8"-18 NPTF porting.



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CUTTING CAPACITY
103 to 193 Metric Tons Force

NUT RANGE (HEX AF)
70 - 130 mm Across Flats

BOLT THREAD SIZE
M45 to M90 Metric Thread Range

BLADE ARCHITECTURE
Tri-Blade 3 Indexable Edges with Metric & Imperial Scale

FLANGE COMPLIANCE
Standard ANSI B16.5 / BS1560 Flanges

CYLINDER OPERATION
Single/Double-Acting, 3/8"-18 NPTF Port & Relief Valve

Model	Nut Size [mm]	Bolt Size [Metric]	Cutting Force [Ton]	Oil Cap. [cm³]	Dimensions							Weight [kg]
					A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	
HNC-001	70-80	M45-M52	103	377	132	28	180	8	81	186	412	37
HNC-002	70-85	M45-M56	103	377	145	30	180	8	81	196	422	37
HNC-003	70-95	M45-M64	103	377	160	32	180	8	81	201	432	38.5
HNC-004	70-105	M45-M72	103	377	174	35	180	9	81	209	443	39.5
HNC-005	110-115	M76-M80	193	819	189	36	234	3.7	111	234	472	69
HNC-006	110-130	M76-M90	193	819	219	41	234	2.5	111	242	493	71.5

HNS Series Compact Angled Hydraulic Nut Splitters

Compact angled hydraulic nut splitters delivering 5 to 90 Ton cutting force across 13 to 75 mm hex sizes with single-acting spring return.



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CUTTING CAPACITY	NUT RANGE (HEX AF)	BOLT STUD SIZE
5 to 90 Metric Tons Force	13 to 75 mm Across Flats	M8 to M48 Metric Thread Range
HEAD GEOMETRY	**RETURN MECHANISM**	**BLADE SERVICEABILITY**
Angled Head Design for Increased Clearance	Single-Acting Spring Return for Fast Retraction	Quick-Replace Heavy-Duty Tool Steel Blade

Model Number	Nut Range (AF) [mm]	Bolt Range	Cutting Force [Ton]	Oil Capacity [cm³]	Dimensions (mm)						Weight [kg]
					A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	
HNS-001	13-19	M8-M12	5	15	40	190	10.5	19	30	48	1.2
HNS-002	19-24	M12-M16	10	20	53	215	12.5	25	42	62	2.0
HNS-003	24-32	M18-M22	15	60	66	245	15.5	30	54	80	3.2
HNS-004	32-41	M22-M27	20	80	75	285	17.0	36	66	92	5.0
HNS-005	41-50	M27-M33	35	155	93	340	25.0	43	80	110	9.0
HNS-006	50-60	M33-M39	50	240	106	370	26.5	52	98	128	13.9
HNS-007	60-75	M39-M48	90	492	156	450	35.0	70	117	190	35.0

FLANGE SPREADERS & ALIGNMENT TOOLS | OEM CROSS-REFERENCE: EQUALIZER SW / ENERPAC EQUIVALENT

HFS-S Series Classic Stepped Flange Spreaders

Classic stepped wedge flange spreaders delivering 9 to 15 Ton mechanical and hydraulic spreading with an interlocking 6 mm tip for friction-free joint opening to 81 mm.



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SPREADING CAPACITY **9 Ton (Mechanical) & 15 Ton (Hydraulic)**	MIN ACCESS GAP **6 mm Ultra-Thin Tip Clearance**	MAX SPREAD DISTANCE **Up to 81 mm Opening Travel**
DRIVE CONFIGURATION **700 Bar Hydraulic Coupler & 200 N·m Ratchet**	WEDGE ARCHITECTURE **Interlocking Stepped Arms (Zero Slip-Out)**	SAFETY COMPLIANCE **Full-Load Stepped Spread & Safety Blocks**

Model Number	Type	Spreading Force [Ton]	Tip Clearance [mm]	Max. Spread [mm]	Oil Capacity [cm³]	Weight [kg]
HFS-S15TE	Hydraulic	15	6	81	79	14.0
HFS-S9TM	Mechanical	9	6	81	-	7.5

HFS-W Series Hydraulic & Mechanical Flange Wedges

Single-acting hydraulic and mechanical ratchet stepped wedge flange spreaders rated for 700 Bar (10,000 PSI), engineered for pipeline maintenance, shutdowns, testing, and valve change-outs with a 6 mm access gap and 8 to 14 Ton spreading capacities.



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MAX PRESSURE	CAPACITY RANGE	TIP CLEARANCE
700 Bar (10,000 PSI) Rating	8 to 14 Ton Spreading Force	6 mm Access Gap (A)
MAX SPREAD	**DRIVE MECHANISM**	**SAFETY SYSTEM**
Up to 81 mm Opening (B)	Hydraulic (700 Bar) & Mechanical Ratchet	Interlocking Wedges with Safety Block

Model Number	Drive Mechanism	Spreading Force [ton]	Wedge Stroke [mm]	Tip Thickness (A) [mm]	Max. Spread (B) [mm]	Cyl. Area [mm²]	Weight [kg]	Dimensions (mm)		
								C (Length) [mm]	D (Width) [mm]	E (Handle) [mm]
HFS-W-14	Hydraulic (700 Bar)	14	121	6	81	1,451	7.5	290	66	133
HFS-W-8	Mechanical (Ratchet)	8	121	6	81	-	6.0	290	66	-

HFS-I Series Stepped Hydraulic Flange Spreaders

Mechanical ratchet, external hydraulic, and integral pump stepped flange spreaders rated for 700 Bar (10,000 PSI), engineered for pipeline overhaul, gasket replacement, and valve maintenance with 6 mm access gap across 140 to 240 kN spreading force.



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SPREADING FORCE	MAX WORKING PRESSURE	MIN ACCESS GAP (A)
140 - 240 kN (14 - 24 Metric Tons)	700 Bar (10,000 PSI)	6.0 mm (0.24 in) Ultra-Slim Clearance
MAX SPREADING DISTANCE	**ACTUATION OPTIONS**	**SAFETY & ERGONOMICS**
6.0 - 103.5 mm (4.07 in) with Stepped Blocks	Mechanical Ratchet, External 700 Bar & Integral Pump	360° Revolving Grip, Zero Pinch & Safety Lanyard

Model Number	Actuation Mechanism	Max Spreading Force Per Tool [kN (Ton)]	Max Spread [mm]	Min Gap (A) [mm]	Jaw Width [mm]	Tool Weight [kg]	Kit Weight [kg]	Tool Head Model
HFS-I1214TM	Mechanical (Manual Ratchet)	140 (14 T)	103.5	6.0	60	6.2	17.0	HFS-I12/14TM
HFS-I2025TE	External Hydraulic (Tool Only)	240 (24 T)	103.5	6.0	60	6.4	15.0	HFS-I20/25TE
HFS-I2025TESTD	External Hydraulic (Standard Single Kit)	240 (24 T)	103.5	6.0	60	6.4	27.5	HFS-I20/25TE
HFS-I2025TEMAX	External Hydraulic (Twin Maxi Kit - 2x Tools)	240 (24 T)	103.5	6.0	60	6.4	38.8	HFS-I20/25TE (×2)
HFS-I2025TI	Integral Hydraulic (Built-in Hand Pump)	240 (24 T)	103.5	6.0	60	8.5	17.5	HFS-I20/25TI

HFS-I Series Stepped Hydraulic Flange Spreaders - Turnkey Flange Spreader Maxi Kit Contents

Qty	Included Component	Model / Technical Specification
2 ×	Stepped Flange Spreader Wedgehead	HFS-I20/25TE (240 kN / 24 Ton per Head, 6.0 mm Min. Access Gap)
2 ×	High-Pressure Hydraulic Cylinder	700 Bar (10,000 PSI) Single-Acting Hydraulic Cylinder
2 ×	Stepped Safety Block	Forged Alloy Steel Mechanical Load-Holding Safety Block
2 ×	Safety Lanyard	1.0 m (39.4 in) Heavy-Duty Structural Tethering Lanyard
2 ×	High-Pressure Hydraulic Hose	2.0 m (78.8 in), 700 Bar (10,000 PSI) Hose with 90° Elbow
1 ×	Twin-Port Sealed Hand Pump with Gauge	HPM-550D (700 Bar / 10,000 PSI Dual-Outlet Pump & Calibrated Gauge)
1 ×	Heavy-Duty Transport Case	930 × 600 × 180 mm (36.6 × 23.6 × 7.1 in)

Engineering Note: Kit Model: HFS-I2025TEMAX | Molded Case Dimensions: 930 × 600 × 180 mm (36.6 × 23.6 × 7.1 in) | Gross Kit Weight: 38.8 kg.

HFA Series Mechanical & Hydraulic Flange Alignment Tools

Mechanical screw-driven (1 to 10 Ton) and external 700 Bar hydraulic (10 Ton) linear and rotational flange alignment tools, engineered for pipe construction and maintenance across ANSI, API, BS, and DIN flanges with 16 to 31.5 mm minimum bolt holes.



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MAX ALIGNMENT FORCE	MINIMUM BOLT SIZE	FLANGE THICKNESS RANGE
1 to 10 Ton (10 to 90 kN)	16 mm to 31.5 mm (0.63" to 1.24")	14 mm to 228 mm (0.55" to 9.00")
ACTUATION TYPE	**FLANGE COMPATIBILITY**	**ALIGNMENT CAPABILITY**
Mechanical Screw (1-10T) & External 700 Bar Hydraulic (10T)	ANSI, API, BS, DIN Industrial Flanges	Dual Linear Offset & Rotational Twist Correction

Model Number	Drive Type	Alignment Force [Ton / kN]	Mini. Bolt Size [in / mm]	Flange Thickness Range [in / mm]	Weight [kg]
HFA-1TM	Mechanical (Screw)	1 / 10	0.63 / 16	0.55 - 3.29 / 14 - 82	2.0
HFA-4TM	Mechanical (Screw)	4 / 40	0.95 / 24	1.18 - 5.23 / 30 - 133	8.6
HFA-9TM	Mechanical (Screw)	10 / 90	1.24 / 31.5	3.66 - 9.00 / 93 - 228	16.5
HFA-9TE	Hydraulic (External 700 Bar)	10 / 90	1.24 / 31.5	3.66 - 9.00 / 93 - 228	16.5

LIFTING JACKS & MOVING SKATES | OEM CROSS-REFERENCE: ENERPAC LW-16 SERIES EQUIVALENT

HLW Series Vertical Hydraulic Lifting Wedges

Single-acting vertical hydraulic lifting wedges with a 10 mm access gap and 21 mm straight vertical stroke (up to 81 mm with stepped blocks), available in 16-Ton external 700 Bar pump-driven (HLW-16) and 18-Ton integral hand pump (HLW-18) models.



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LIFTING CAPACITY	MIN ACCESS GAP	VERTICAL LIFT STROKE
16 to 18 Metric Tons Rated Force	**10 mm Ultra-Low Initial Clearance**	**21 mm Straight Vertical Rise**
MAX EXPANSION	**ACTUATION OPTIONS**	**SAFETY INTEGRITY**
Up to 81 mm Opening with Stepped Blocks	**External 700 Bar Pump (HLW-16) & Integral Hand Pump (HLW-18)**	**Interlocking Stepped Wedge & Safety Block**

Model Number	Actuation Type	Capacity [Ton]	Mini Width (Access Gap) [mm]	Stroke [mm]	Max. Spread [mm]	Weight [kg]
HLW-16	External 700 Bar Hydraulic	16	10	21	81	9
HLW-18	Integral Hand Pump & Handle	18	10	21	81	12

HTJ Series Heavy-Duty Hydraulic Toe Jacks

Heavy-duty hydraulic toe jacks (2 to 25 Ton toe / 3 to 50 Ton head) with a forged steel base and cylinder, 16 mm minimum toe clearance, built-in overload relief valve, spring-assisted return on 5T & 10T upright models, and 360° revolving housings on HTJ-20 models.



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LIFTING CAPACITY	MIN ACCESS CLEARANCE	MAX LIFTING HEIGHT
2 - 25 Ton (Toe) / 3 - 50 Ton (Head)	16.0 - 58.0 mm Ultra-Low Toe Access	128 - 720 mm Extended Travel
HOUSING ARCHITECTURE	**SAFETY COMPLIANCE**	**RETURN MECHANISM**
Forged Steel Base & Cylinder (360° Revolving Housing on HTJ-20)	ANSI/ASME B30.1 & CE/GS Certified with Relief Valve	Spring-Assisted Return & Over-Travel Stop (5T & 10T Upright)

Model	Housing Configuration	Capacity		Minimum Height		Maximum Height		Weight [kg]
		Toe [Ton]	Top [Ton]	Toe [mm]	Top [mm]	Toe [mm]	Top [mm]	
HTJ-102	Standard Upright	2	3	16	238	128	349	8
HTJ-105	Standard Upright	5	6	22	298	141	409	24
HTJ-110	Standard Upright	10	14	28	333	173	460	38
HTJ-115	Standard Upright	15	30	32	345	185	500	48
HTJ-125	Standard Upright	20	50	40	390	215	530	75
HTJ-205	360° Revolving Housing	5	-	25	368	230	572	25
HTJ-210	360° Revolving Housing	10	-	30	420	260	650	35
HTJ-225	360° Revolving Housing	25	-	58	505	272	720	102

LIFTING JACKS & MOVING SKATES | OEM CROSS-REFERENCE: HEAVY-DUTY FIXED ROLLER SKATES EQUIVALENT

HMS-C Series Fixed Machinery Moving Roller Skates

Heavy-duty fixed-direction machinery moving skates rated for 2 to 12 Metric Tons per skate, engineered with heavy-duty wear-resistant nylon / polyurethane load rollers (82 × 100 mm & 115 × 100 mm) and anti-slip vulcanized rubber pads for floor-safe straight-line transport.



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CAPACITY RANGE **2 to 12 Metric Tons per Skate**	ROLLER MATERIAL **82 × 100 mm & 115 × 100 mm Heavy-Duty Nylon / Polyurethane**	WHEEL CONFIGURATION **2, 4, 6, and 8 Roller Arrays**
TOP SURFACE PROTECTION **High-Grip Anti-Slip Heavy-Duty Rubber Pad**	BEARING ARCHITECTURE **Precision Heavy-Duty Load-Distributing Bearings**	CHASSIS CONSTRUCTION **Heavy-Gauge Welded Steel Box Frame with Pull Handles**

Model Number	Capacity [Ton]	Wheels [Pcs]	Wheel Size [mm]	Size (W x L x H) [mm]	Weight [kg]
HMS-C002	2	2	82 x 100	115 x 270 x 110	7
HMS-C004	4	4	82 x 100	230 x 270 x 110	17
HMS-C006	6	6	82 x 100	345 x 270 x 110	25
HMS-C012	12	8	115 x 100	400 x 345 x 145	40

LIFTING JACKS & MOVING SKATES | OEM CROSS-REFERENCE: HI-FORCE JCS / JSC SERIES EQUIVALENT

HCJ Series Self-Contained Hydraulic Jacks

Single-acting spring-assisted return compact hydraulic jacks rated for 700 Bar (10,000 PSI), engineered with a 360° revolving pump mechanism for precision machinery leveling and narrow clearance lifting across 10 Ton capacity.



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RATED CAPACITY	MAX WORKING PRESSURE	STROKE TRAVEL
10 Metric Tons (100 kN)	700 Bar (10,000 PSI)	35 mm (Extended Height 111 mm)

COLLAPSED HEIGHT	PUMPING MECHANISM	PORTABILITY & WEIGHT
76 mm Ultra-Low Profile Clearance	360° Fully Revolving Manual Pump Body	4.2 kg All-Steel Monobloc Body with 240 mm Detachable Handle

Model Number	Capacity [Ton]	Pressure [Bar]	Oil Vol. [ml]	Closed Ht. [mm]	Stroke [mm]	Ht. w/ Handle [mm]	Length [mm]	Width [mm]	Weight [kg]	Hand Force [kg]
HCJ-10	10	700	127.2	76	35	255	234	70	4.2	15

LIFTING JACKS & MOVING SKATES | OEM CROSS-REFERENCE: ENERPAC MLS / MLSS SERIES EQUIVALENT

HMS-T Series Turntable Heavy Machinery Skates

Heavy-duty steerable machinery moving skates delivering 6 to 30 Ton capacity with 180° swivel turntables, pulling handles, and floor-protective polyurethane wheels.



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RATED LOAD CAPACITY	STEERING MOBILITY	WHEEL MATERIAL
6 to 30 Metric Tons Working Load	180° Swivel Turntable & Tow Handle	Heavy-Duty Wear-Resistant Polyurethane
ROLLER SPECIFICATION	**WORKING PROFILE**	**CHASSIS STRUCTURE**
80 x 70 mm High-Load Wheels (4-20 Pcs)	Ultra-Low 110 mm Overall Height	Heavy-Duty Welded Reinforced Steel Frame

Model Number	Capacity [Ton]	Wheels [Pcs]	Wheel Size [mm]	Wheel Material	Size (L x W x H) [mm]	Weight [kg]	OEM Cross-Ref [ENERPAC®]
HMS-T006	6	4	80 x 70	PU	385 x 265 x 110	21	Enerpac MLS-6
HMS-T008	8	6	80 x 70	PU	440 x 265 x 110	27	Enerpac MLS-8
HMS-T012	12	8	80 x 70	PU	550 x 275 x 110	36	Enerpac MLS-12
HMS-T018	18	12	80 x 70	PU	590 x 320 x 110	56	Enerpac MLS-18
HMS-T024	24	16	80 x 70	PU	680 x 410 x 110	82	Enerpac MLS-24
HMS-T030	30	20	80 x 70	PU	770 x 410 x 110	100	Enerpac MLS-30

HTM-P Series Precision Planetary Torque Multipliers

Precision planetary torque multipliers delivering 1,000 to 2,000 N·m across 4.5:1 to 25:1 gear ratios (±4% accuracy) with anti-backlash safety, featuring alloy steel reaction arms on HTM-P52 (0.85 kg) and lightweight aluminum arms with sensor compatibility on HTM-P72 (0.66 kg).



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OUTPUT TORQUE
1,000 - 2,000 N·m (740 - 1,450 lbf·ft)

MULTIPLICATION RATIOS
4.5:1, 5:1, 22:1, and 25:1 Planetary

DRIVE INTERFACES
3/8", 1/2" & 3/4" In × 3/4" & 1" Out Square

TORQUE ACCURACY
Better than ±4% Repeatability

SAFETY MECHANISM
Integrated Anti-Backlash Safety Device

REACTION SYSTEM
Alloy Steel (HTM-P52, 0.85 kg) & Aluminum (HTM-P72, 0.66 kg)

Model	Torque Range		Ratio	Square Drive		Dimensions (mm)				Tool Wt. (kg)	Arm Wt. (kg)
	N.m	lbf.ft		Input	Output [in]	A [mm]	B [mm]	C [mm]	D [mm]		
HTM-P-52/22-01	1000	740	22:1	3/8"	3/4"	52	139	131	175	1.4	0.85
HTM-P-52/22-02	1000	740	22:1	1/2"	3/4"	52	139	131	175	1.4	0.85
HTM-P-52/22-03	1000	740	22:1	3/8"	3/4"	52	150.1	131	186.3	1.6	0.85
HTM-P-52/22-04	1000	740	22:1	1/2"	3/4"	52	150.1	131	186.3	1.6	0.85
HTM-P-52/4.5	1000	740	4.5:1	1/2"	3/4"	52	115	131	150.3	1.02	0.85
HTM-P-72/5-01	1000	740	5:1	1/2"	3/4"	72	144	165	188	2.4	0.66
HTM-P-72/5-02	1500	1100	5:1	1/2"	1"	72	144	165	188	2.4	0.66
HTM-P-72/5-03	2000	1450	5:1	3/4"	1"	72	144	165	188	2.4	0.66
HTM-P-72/25-01	1000	740	25:1	1/2"	3/4"	72	165	165	188	2.7	0.66
HTM-P-72/25-02	2000	1450	25:1	1/2"	1"	72	165	165	188	2.7	0.66
HTM-P-72/25-03	1000	740	25:1	1/2"	3/4"	72	174	165	218	3	0.66
HTM-P-72/25-04	2000	1450	25:1	1/2"	1"	72	174	165	218	3	0.66

TORQUE MULTIPLIERS & TIRE TOOLS | OEM CROSS-REFERENCE: ENERPAC E-SERIES MULTIPLIERS EQUIVALENT

HTM-H Series Heavy Planetary Torque Multipliers

Heavy manual planetary torque multipliers delivering 3,000 to 4,500 N·m with 15.5:1 and 26:1 reduction ratios, anti-backlash safety, and ±4% precision.



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TORQUE OUTPUT	GEAR REDUCTION RATIOS	DRIVE SQUARES (IN / OUT)
3,000 to 4,500 N·m (2,200 to 3,300 lbf·ft)	15.5:1 (HTM-H-3000) & 26:1 (HTM-H-4500)	1/2" Female Input × 1" Male Output
TORQUE PRECISION	**SAFETY MECHANISM**	**REACTION SYSTEM**
Repeatability Better than ±4%	Anti-Backlash Ratchet & Angle Indicator	450 mm Heavy Tubular Reaction Arm

Model Number	Max Torque Output		Gear Ratio	Input Drive	Output Drive	Dimensions (mm)			Tool Wt [kg]	Arm Wt [kg]
	N·m	lbf·ft				A [mm]	B [mm]	C [mm]		
HTM-H-3000	3000	2200	15.5:1	1/2"	1"	108	156	450	6.1	1.9
HTM-H-4500	4500	3300	26:1	1/2"	1"	108	173	450	7.0	1.9

HBB Series Off-The-Road Tire Bead Breakers

Heavy-duty 10-Ton hydraulic bead breakers delivering 700 Bar clamping force to safely unseat frozen beads across commercial and multi-piece OTR wheel rims.



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BEAD-BREAKING FORCE **10 Metric Ton Rated Thrust**	WORKING PRESSURE **700 Bar (10,000 PSI) Rating**	RETURN MECHANISM **Single-Acting Spring Auto-Return**
RIM APPLICABILITY **Commercial, Ag & Multi-Piece OTR**	HYDRAULIC COUPLER **High-Flow Quick-Connect Fitting**	SYSTEM HOOKUP **700 Bar Air-Hydraulic / Hand Pumps**

Model Number	Bead Breaking Force [Ton]	Max. Pressure [Bar]	Dimensions (mm)						Weight [kg]
			A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	
HBB-6220	10	700	325	256	150	95	131	456	16.5
HBB-6225	10	700	325	256	165	95	131	492	18.5
HBB-6110	10	700	106	258	131.5	95	138	449	13.5
HBB-6200	10	700	-	88	102	423	433	110	16.0