



HYDRARITE[®]

High Pressure Hydraulic Tools & Equipment



PRODUCT CATALOG

HH2024E



HYDRAULIC TOOLS COMPANY OVERVIEW

HYDRARITE®



HYDRARITE, the most dependable name of Hydraulic Tools

Welcome to the world of HYDRARITE Hydraulic Tools

Established in 1997, Taizhou Ruiqi Tools Co.,Ltd. is a professional manufacturer of high pressure hydraulic tools for various sectors, like electrical maintenance , manufacturing, construction, energy, oil & gas, shipbuilding, railroads, and mining, etc. HYDRARITE is committed to providing superior quality hydraulic tools for various industries. At HYDRARITE, we have the resource, the capabilities to meet your rigorous requirements. The flexibility of our organization. outstanding know-how in hydraulic tools, rigorous quality assurance system, and strong commitment to customer service, has earned us a reputation of dependability. When you require dependable quality of hydraulic tools at very competitive price, just ask for HYDRARITE. We will offer you the best only products.

The Reasons to Work with HYDRARITE

- Very broad product range
- Over 27 years manufacturing experience
- Guaranteed quality
- Highly competitive price
- Commitment to customer service
- Professional sales and technical teams
- Able to customize hydraulic tools for your special need





Advanced manufacturing facilities, strong technical forces and well-trained employees enable us to offer first class products to the markets.



Our entire production is carried out internally, without third party intervention, to enable optimum control of quality, cost and service.





HYDRAULIC TOOLS COMPANY OVERVIEW

HYDRARITE®



Win-Win Cooperation Your Satisfaction is Our Goal

We have high professional sales team, able to provide optimum service for customer satisfaction.





**HYDRARITE Hydraulic Tools:
A Choice with No Regrets**





HYDRAULIC TOOLS COMPANY OVERVIEW

HYDRARITE®



Test and Inspection

Before leaving our manufacturing plant, each and every HYDRARITE product is individually tested and inspected for proper function.





HYDRARITE®

Applications

The presence of HYDRARITE Hydraulic Tools

HYDRARITE Hydraulic Tools are manufactured to suit the needs of various industries, such as electrical maintenance, manufacturing, construction, energy, oil & gas, shipbuilding, railroads, power plants, petrochemical plants, steel plants, and mining, etc.





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HYDRARITE®

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Lifting Tools

Pipe Tools

Bolting Tools

Electrical Installation Tools

Pulling Tools

Hydraulic Pumps

Hydraulic Accessories



LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

We offer hydraulic cylinders in hundreds of different configurations, whatever the industrial application, lifting, pushing, pulling, bending, lifting... whatever the force capacity, stroke, length, or size restrictions... single- or double-acting, solid or hollow plunger, you can be sure that you can get the right cylinder at an affordable price from us.

Guide Ring Design

The guide ring design is for absorbing eccentric load stresses to protect your cylinder from abrasion, overextending or plunger blow-outs, or top-end mushrooming. As a result, Guide Ring cylinders provide long time, trouble-free operation.

The assembling and testing of hydraulic cylinders must only be performed by qualified hydraulic technician.

Dust Wiper reduces contamination

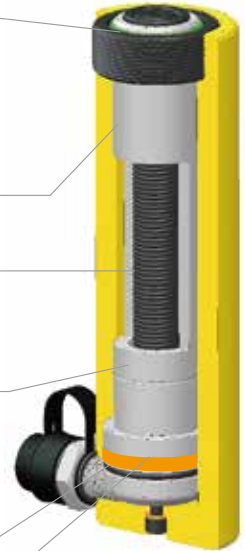
Stop ring withstands full dead-end load

Return spring enables fast retraction on single-acting cylinders

Chrome plated plunger resists wear and rust

Tough urethane seal possess excellent wear and abrasion resistance

Composite ring prevents metal-to-metal contact and absorbs eccentric load stresses



Note: the cut-away drawing is representative of typical cylinder construction, and may not represent all cylinders in this section.





Choosing The Right Cylinder

- Step 1: Select the hydraulic cylinder that best suits the application
- Step 2: Select the hydraulic pump that best matches the cylinder and application
- Step 3: Select the hydraulic accessories that you need.

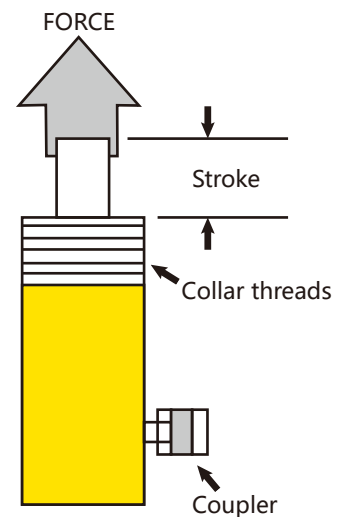
Considerations:

1. What push or pull force is required per cylinder in your application? (Rule of thumb: Always choose a cylinder with a tonnage rating of 20% or more than what is required to lift the load.)
2. What is the push or pull stroke length required?
3. Does the cylinder need to push, pull or both?(Single acting cylinders extend the piston under hydraulic pressure; double-acting cylinders extend and retract the piston under hydraulic pressure)
4. Does the application require multiple cylinders?
5. Is the application stationary, or must the components be light in weight for easy portability?
6. Do you need to extend a rod or cable through the center of the cylinder for the application, as in a tensioning operation?
7. Does the application require that the cylinder fit within limited-clearance work areas?
8. Does the application require that the cylinder be "dead-ended" at the end of it's work stroke?
9. Will the cylinder need to withstand off-center loads? Cylinders with tilt saddles are available.
10. Does the application require that the lifted load be supported for extended periods of time? Cylinders with lock nuts are ideal for such jobs.
11. Is corrosion resistance required?
TLP hydraulic cylinders have baked enamel finish for increased corrosion resistance.

WHAT TYPE OF CYLINDER DO YOU NEED?

1. To determine a cylinder's force capacity:	$FORCE (kg) =$	Cylinder Effective Area (cm ²)	\times	Pressure from Pump (bar)
2. To determine oil capacity of a cylinder	$OIL CAPACITY (cm^3) =$	Cylinder Effective Area (cm ²)	\times	Cylinder Stroke (cm)
3. To determine reservoir capacity needed for a multiple cylinder system:	$OIL CAPACITY (cm^3) =$	Cylinder Effective Area (cm ²)	\times	Cylinder Stroke (cm)

Note: For double-acting cylinders, oil in rod end of cylinder must be subtracted to determine capacity.



Think safety
Manufacturer's rating of load and stroke are maximum safe limits.
Good practice encourages using only 80% of these ratings.

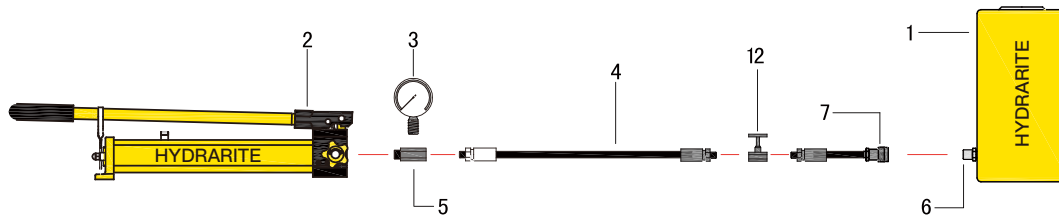


LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

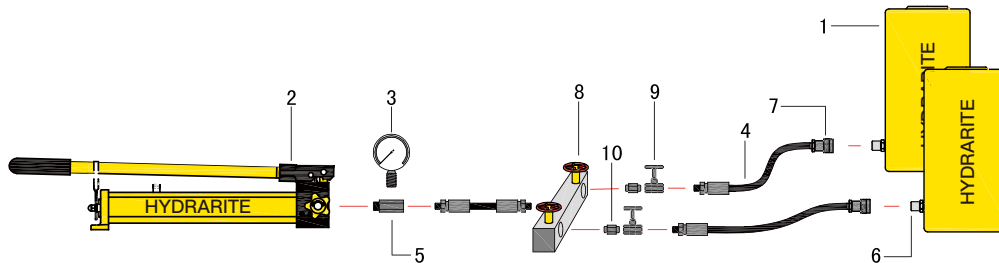
Hydraulic cylinder set-ups

- | | |
|-------------------|--------------------------|
| 1. Cylinder | 7. Female coupler |
| 2. Head pump | 8. Manifold |
| 3. Pressure gauge | 9. Throttle valve |
| 4. Hose | 10. Connector |
| 5. Gauge adaptor | 11. Electric pump |
| 6. Male coupler | 12. Safety holding valve |



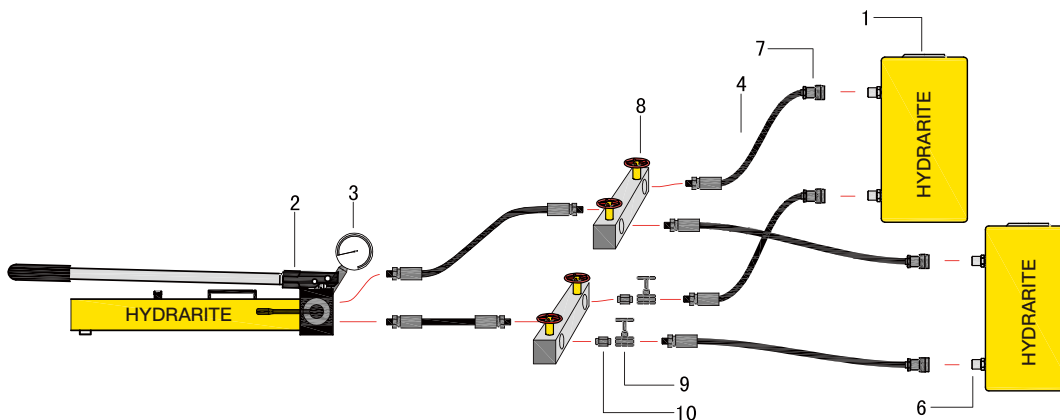
Set-up one: One-way hand pump+Hose+Single acting hydraulic cylinder

It is the basic system set-up. The oil reservoir of pump must be larger than the oil capacity of cylinder, so as to offer full cylinder stroke.



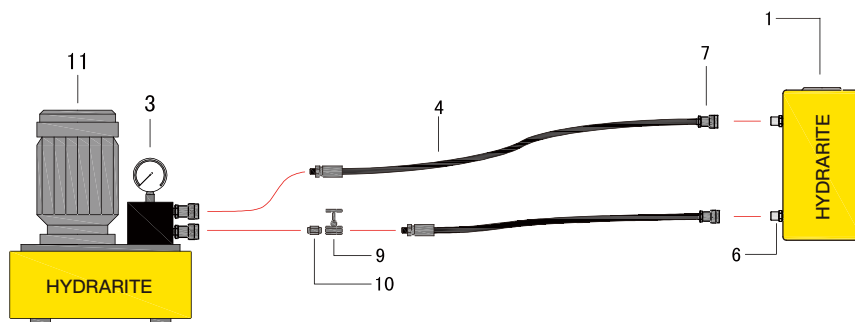
Set-up Two: One-way hand pump+Manifold +Three hoses+Two single acting hydraulic cylinders

With 2- or more-port manifold. The system allows simultaneous lift of several single acting cylinders. Throttle valve installed on the outlet port of manifold regulates the flow of hydraulic fluid to or from the cylinders, so as to control the lifting height of each cylinder and maintain horizontal movement of load.



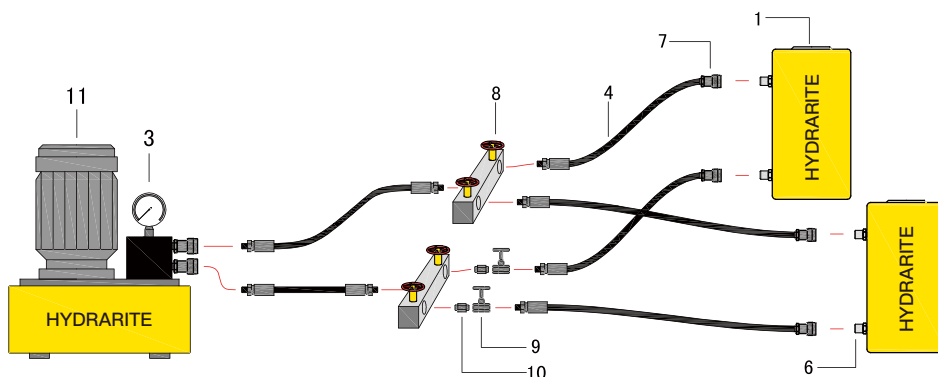
Set-up three: Two-way hand pump + Two manifolds + Six hoses + Two double acting hydraulic cylinders

With 2- or more-port manifold, the system allows simultaneous lift and descent of several double acting cylinders. Throttle valve installed on the outlet port of manifold regulates the flow of hydraulic fluid to or from the cylinders, so as to control the lift and descent of each cylinder and maintain horizontal movement of load.



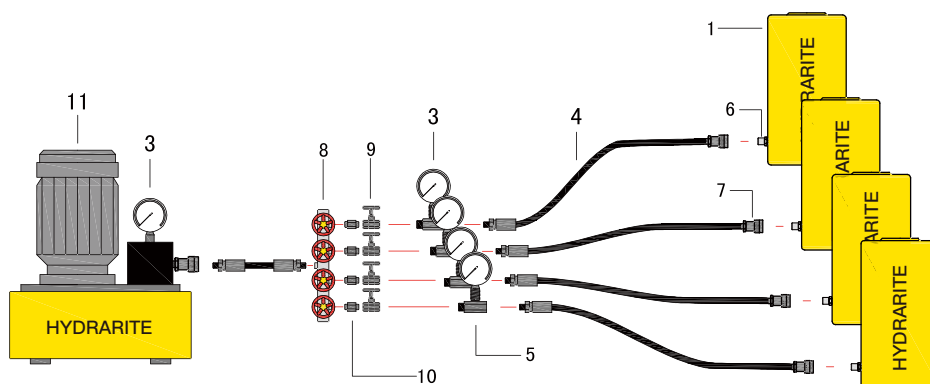
Set-up four: Two-way electric pump + Two hoses + Double acting hydraulic cylinder

Double-acting cylinder set-up used for lifting application where a slow controlled descent of the load must be maintained. Throttle valve and one-way valve could be installed for regulating the flow of hydraulic fluid and controlling load descent.



Set-up five: Two-way electric pump + Two manifolds + Six hoses + Two double acting hydraulic cylinders

With 2- or more-port manifold, the system allows simultaneous lift and descent of several double acting cylinders. Throttle valve installed on the outlet port of manifold regulates the flow of hydraulic fluid to or from the cylinders, so as to control the lift and descent of each cylinder and maintain horizontal movement of load.



Set-up six: One-way electric pump + Manifold + Five hoses + Four single acting cylinder

With 4- or more- port manifold, the system allow simultaneous lift of several single acting cylinders. Throttle valve regulates the flow of hydraulic fluid to or from the cylinders. One- way valve allows safety holding of load in lifting applications.



LIFTING TOOLS HYDRAULIC CYLINDERS



Single-acting General Purpose Cylinders

Working pressure: 700bar

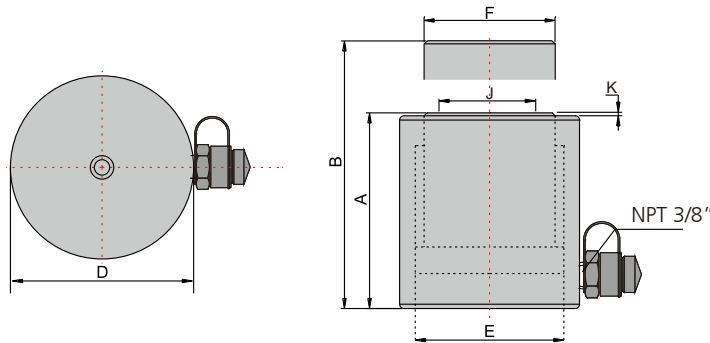


Characteristics:

- Designed for use in all positions.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Dust wiper on piston rod reduces contamination.
- Baked enamel finish for increased corrosion resistance.
- All cylinders are proof tested to 125% of capacity before leaving our factory.
- 10-100 ton cylinder bores are roller burnished to harden the surface and make it smoother.
- 10-200 ton cylinder models are spring return, 250-1000 ton cylinder models are load return.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.
- Each cylinder has a flat grooved saddle.
- Tilt saddle is available on request.

Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)	Oil capacity (cm ³)	Closed height A (mm)
	Ton	KN				
HHYG-1050	10	111	50	15.9	85	122
HHYG-10100			100		169	172
HHYG-10150			150		254	222
HHYG-2050	20	198	50	28.3	157	126
HHYG-20100			100		311	176
HHYG-20150			150		465	226
HHYG-3050	30	309	50	44.2	237	137
HHYG-30100			100		471	187
HHYG-30150			150		705	237
HHYG-5050	50	496	50	70.8	389	147
HHYG-50100			100		768	197
HHYG-50150			150		1147	247
HHYG-10050	100	1077	50	153.9	833	182
HHYG-100100			100		1584	232
HHYG-100150			150		2335	282
HHYG-15050	150	1496	50	213.7	1133	184
HHYG-150100			100		2237	234
HHYG-150150			150		3342	284
HHYG-20050	200	1984	50	283.4	1500	204
HHYG-200100			100		2953	254
HHYG-200150			150		4406	304
HHYG-25050	250	2540	50	362.9	1815	248
HHYG-250150			150		5446	348
HHYG-250300			300		10892	498
HHYG-30050	300	3165	50	452.2	2262	267
HHYG-300150			150		6786	367
HHYG-300300			300		13572	517
HHYG-40050	400	4006	50	572.3	2863	315
HHYG-400150			150		8588	415
HHYG-400300			300		17177	565
HHYG-50050	500	5111	50	730.2	3653	345
HHYG-500150			150		10959	445
HHYG-500300			300		21918	595
HHYG-60050	600	5984	50	854.9	4276	371
HHYG-600150			150		12829	471
HHYG-600300			300		25659	621
HHYG-80050	800	8358	50	1194	5973	424
HHYG-800150			150		17919	524
HHYG-800300			300		35838	674
HHYG-100050	1000	10161	50	1451.5	7261	477
HHYG-1000150			150		21783	577
HHYG-1000300			300		43566	727





HYDRARITE General Purpose Cylinders with tilt saddles are lifting the bridge deck in pier reconstruction.

Extended Height B (mm)	Outside Dia. D (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Standard Saddle Dia. J (mm)	Saddle Protr. From Plgr. K (mm)	Handle	Recommended pump	Model	
172	68	45	36	3.1	27.5	2	No	HHB-700C	HHYG-1050	
272				4.4			Yes		HHYG-10100	
372				5.7			Yes		HHYG-10150	
176	83	60	45	4	37.5	2	No	HHB-700	HHYG-2050	
276				5.3			Yes		HHYG-20100	
376				6.6			Yes		HHYG-20150	
187	103	75	65	7.9	48.5	2	No	HHB-700C	HHYG-3050	
287				10.7			Yes		HHB-700	HHYG-30100
387				13.5			Yes		HHB-700A	HHYG-30150
197	123	95	70	11.6	57.5	2	No	HHB-700	HHYG-5050	
297				14.9			Yes		HHYG-50100	
397				18			Yes		HHYG-50150	
232	178	140	100	30.4	83	2	Yes	HHB-700A	HHYG-10050	
332				36.1			Eye bolts		HHYG-100100	
432				42.4			Eye bolts		HHYG-100150	
232	205	165	115	43	89	4	Eye bolts	HHB-630A	HHYG-15050	
332				53			Eye bolts		HHYG-150100	
432				63			Eye bolts		HHYG-150150	
252	228	190	135	60	109	4	Eye bolts	HHB-700A	HHYG-20050	
352				71			Eye bolts		HHYG-200100	
452				83			Eye bolts		HHYG-200150	
298	270	215	180	105	16.3	1	Eye bolts	HHB-630A	HHYG-25050	
498				142			Eye bolts		HHYG-250150	
798				196			Eye bolts		HHYG-250300	
317	295	240	200	126	177	1	Eye bolts	HHB-630A	HHYG-30050	
517				165			Eye bolts		HHYG-300150	
817				224			Eye bolts		HHYG-300300	
365	325	270	220	195	198	2	Eye bolts	HHB-630M	HHYG-40050	
565				245			Eye bolts		HHYG-400150	
865				318			Eye bolts		HHYG-400300	
395	373	305	250	283	228	2	Eye bolts	HHB-630M	HHYG-50050	
595				349			Eye bolts		HHYG-500150	
895				451			Eye bolts		HHYG-500300	
421	402	330	270	354	247	2	Eye bolts	HHB-630M	HHYG-60050	
621				431			Eye bolts		HHYG-600150	
921				546			Eye bolts		HHYG-600300	
474	472	390	320	560	293	2	Eye bolts	HHB-630M	HHYG-80050	
674				665			Eye bolts		HHYG-800150	
974				825			Eye bolts		HHYG-800300	
527	530	430	360	799	326	2	Eye bolts	HHB-630M	HHYG-100050	
727				937			Eye bolts		HHYG-1000150	
1027				1145			Eye bolts		HHYG-1000300	

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS

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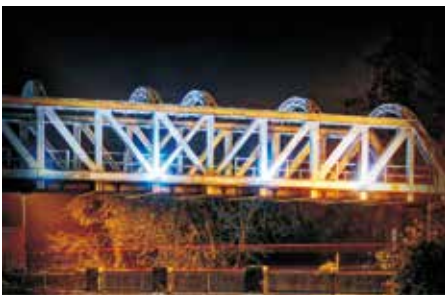
Single-acting Low Height Cylinders

Working pressure: 700bar



Characteristics:

- Compact, flat design for use in confined spaces.
- Single acting, spring return.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Baked enamel finish for increased corrosion resistance
- Grooved piston rods require no saddle.
- Mounting holes permit easy fixturing.
- Cylinder bores are roller burnished to harden the surface and make it smoother.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.

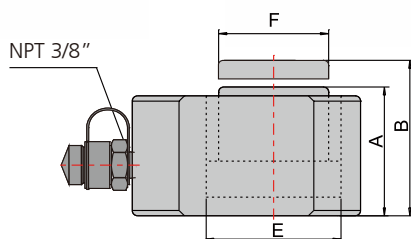
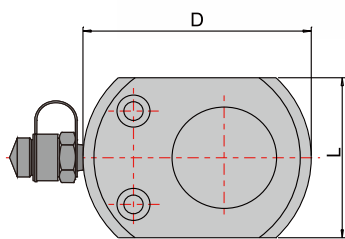
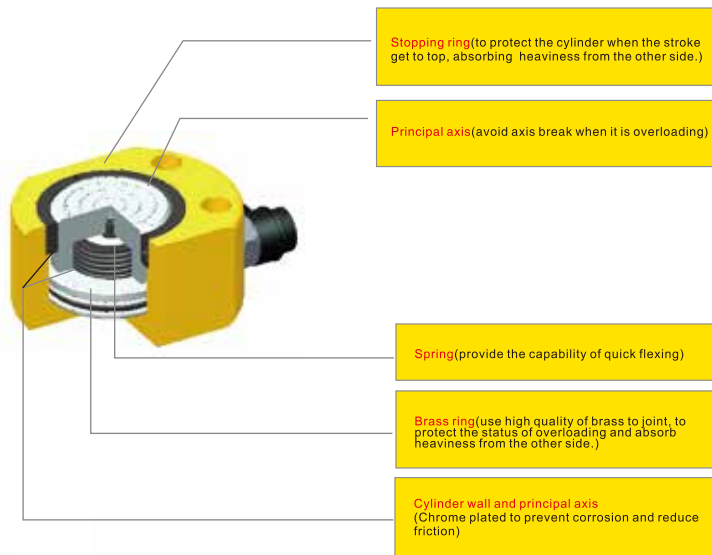
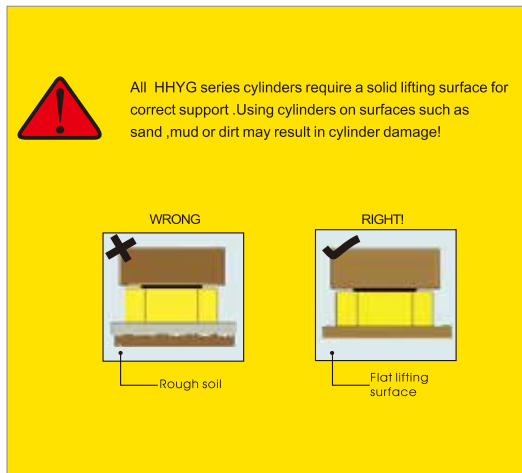


HHYG cylinders are able to lift a large steel structure in very limited space.



Only the low height HHYG cylinders are suitable for use in this confined space.

Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)
	Ton	KN		
HHYG-5B	5	67	7	9.6
HHYG-10B	10	111	10	15.9
HHYG-20B	20	198	11	28.3
HHYG-30B	30	309	13	44.2
HHYG-50B	50	496	16	70.8
HHYG-100B	100	1002	16	143.1
HHYG-150B	150	1496	16	213.7
HHYG-200B	200	1984	20	283.4



Oil capacity (cm ³)	Closed height A (mm)	Extended Height B (mm)	Outside Dia. DXL (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Recommended pump	Model
7	40	47	64×45	35	25	0.75	HHB-700C	HHYG-5B
16	48	58	83×60	45	38	1.6		HHYG-10B
34	56	67	99×76	60	50	2.7		HHYG-20B
55	62	75	123×98	75	64	4.6		HHYG-30B
101	72	88	148×120	95	70	7.8		HHYG-50B
200	92	108	188×160	135	100	16.8	HHB-700	HHYG-100B
342	100	116	215×190	165	115	27		HHYG-150B
567	110	130	255×244	190	135	42		HHYG-200B

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS



Double-acting General Purpose Cylinders

Working pressure: 700bar



Versatile, rugged cylinders for tough job site uses and high-cycle industrial uses

Characteristics:

- Double-acting for rapid piston retraction.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Baked enamel finish for increased corrosion resistance.
- Dust wiper on piston rod reduces contamination.
- Grooved piston rods require no saddle.
- Each cylinder has two HC7002M NPT 3/8" male half couplers and dust caps.

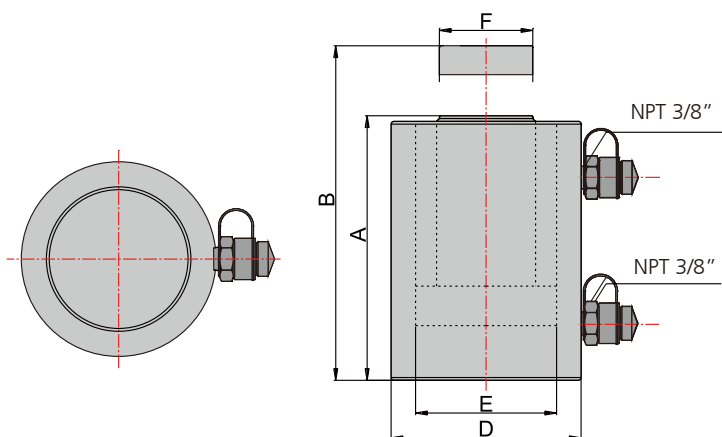
Model	Cylinder Capacity @700 bar			Stroke (mm)	Effective area (cm ²)	
	Ton	Push (KN)	Pull (KN)		push	pull
HHYG-10250S	10	137	70	250	19.6	10
HHYG-10300S				300		
HHYG-20250S	20	198	110	250	28.3	15.7
HHYG-20300S				300		
HHYG-30200S	30	309	172	200	44.2	24.6
HHYG-30300S				300		
HHYG-50200S	50	496	227	200	70.8	32.4
HHYG-50300S				300		
HHYG-100200S	100	1002	557	200	143.1	79.5
HHYG-100300S				300		
HHYG-20050S	200	1984	982	50	283.4	140.3
HHYG-200150S				150		
HHYG-200300S	250	2540	760	300	362.9	108.5
HHYG-25050S				50		
HHYG-250150S	300	3165	967	150	452.2	138.2
HHYG-250300S				300		
HHYG-30050S	400	4006	1346	50	572.3	192.3
HHYG-300150S				150		
HHYG-300300S	500	5111	1677	300	730.2	239.6
HHYG-40050S				50		
HHYG-400150S	600	5984	1978	150	854.9	282.6
HHYG-400300S				300		
HHYG-50050S	800	8358	2731	50	1194	390.1
HHYG-500150S				150		
HHYG-500300S	1000	10161	3039	300	1451.5	434.1
HHYG-60050S				50		
HHYG-600150S	1000	10161	3039	150	1451.5	434.1
HHYG-600300S				300		
HHYG-80050S	1000	10161	3039	50	1451.5	434.1
HHYG-800150S				150		
HHYG-800300S	1000	10161	3039	300	1451.5	434.1
HHYG-100050S				50		
HHYG-1000150S	1000	10161	3039	150	1451.5	434.1
HHYG-1000300S				300		



↑ HHYG cylinder is the best solution to precise c



↑ HHYG hydraulic synchronous lifting system are being used to separate the reducer and rolling press.



Pump Selection

A double-acting cylinder must be powered by a two-way hydraulic pump

Oil capacity (cm ³)		Closed height A (mm)	Extended Height B (mm)	Outside Dia. D (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Handle	Recommended pump	Model
push	pull									
491	250	380	630				10	No	HHB-630B	HHYG-10250S
589	300	430	730	70	50	35	11	No		HHYG-10300S
707	393	390	640	80	60	40	13	No		HHYG-20250S
848	471	440	740				15	No		HHYG-20300S
884	492	364	564	95	75	50	17	No		HHYG-30200S
1325	738	464	764				21	No		HHYG-30300S
1418	648	374	574	120	95	70	29	No		HHYG-50200S
2126	971	474	774				35	No		HHYG-50300S
2863	1590	389	589	175	135	90	60	No		HHYG-100200S
4294	2384	489	789				73	No		HHYG-100300S
1418	702	229	279				63	Eye bolts		HHYG-20050S
4253	2105	329	479	228	190	135	84	Eye bolts		HHYG-200150S
8506	4210	479	779				146	Eye bolts		HHYG-200300S
1815	543	261	311				102	Eye bolts		HHYG-25050S
5446	1628	361	511	270	215	180	135	Eye bolts		HHYG-250150S
10892	3256	511	811				184	Eye bolts		HHYG-250300S
2262	691	280	330				133	Eye bolts		HHYG-30050S
6786	2072	380	530	295	240	200	173	Eye bolts		HHYG-300150S
13572	4145	530	830				231	Eye bolts	HHYG-300300S	
2863	962	341	391				211	Eye bolts	HHYG-40050S	
8588	2885	441	591	325	270	220	262	Eye bolts	HHYG-400150S	
17177	5770	591	891				336	Eye bolts	HHYG-400300S	
3653	1198	376	426				309	Eye bolts	HHB-630B-III	
10959	3594	476	626	372	305	250	360	Eye bolts	HHYG-50050S	
21918	7189	626	926				460	Eye bolts	HHYG-500150S	
4276	1413	397	447				381	Eye bolts	HHYG-500300S	
12829	4239	497	647	402	330	270	458	Eye bolts	HHYG-60050S	
25659	8478	647	947				575	Eye bolts	HHYG-600150S	
5973	1951	438	488				583	Eye bolts	HHYG-600300S	
17919	5852	538	688	472	390	320	681	Eye bolts	HHYG-80050S	
35838	11704	688	988				850	Eye bolts	HHYG-800150S	
7261	2171	493	543				830	Eye bolts	HHYG-800300S	
21783	6512	593	743	530	430	360	970	Eye bolts	HHYG-100050S	
43566	13023	743	1043				1177	Eye bolts	HHYG-1000150S	
									HHYG-1000300S	

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

General Purpose Telescopic Cylinders

Working pressure: 700bar



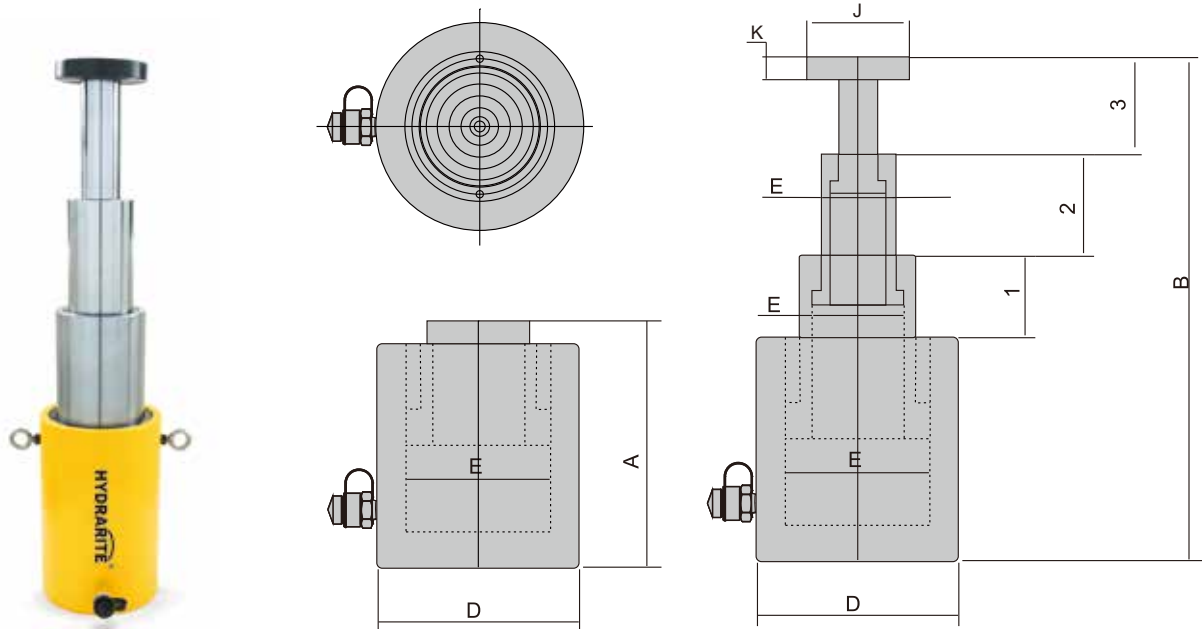
Combination of long piston stroke and small retracted height.

Characteristics:

- For use where there is a minimum clearance for the insertion of cylinder and a very high lift is necessary.
- Single acting, load return.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Baked enamel finish for increased corrosion resistance.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.
- Each cylinder has a flat grooved saddle.



Model	Cylinder Capacity @700 bar			Stroke (mm)	Total stroke (mm)
	Ton	stage number	KN		
HHYG-10270D	10	2	111	135	270
		1	309	135	
HHYG-10435D	10	3	111	145	435
		2	309	145	
		1	665	145	
HHYG-15300D	15	2	166	150	300
		1	445	150	
		3	166	170	
HHYG-15510D	15	2	445	170	510
		1	1002	170	
		2	309	150	
HHYG-30300D	30	1	665	150	300
		3	309	200	
		2	665	200	
HHYG-30600D	30	1	1496	200	600
		2	496	150	
		1	1002	150	
HHYG-50300D	50	2	496	200	300
		1	1002	200	
		3	496	200	
HHYG-50600D	50	2	1002	200	600
		1	1984	200	
		3	496	200	



Effective area (cm ²)	Oil capacity (cm ³)	Closed height A (mm)	Outside Dia. D (mm)	Inside Dia. E (mm)	G.W. (Kg)	Standard Saddle Dia. J (mm)	Saddle Protr. From Plgr. K (mm)	Handle	Recommended pump	Model
15.9 44.2	810	250	110	45 75	18	48	19	Eye bolts	HHB-700A	HHYG-10270D
15.9 44.2	2250	280	153	45 75	40	78	19	Eye bolts		HHYG-10435D
95.0 23.7 63.6	1308	280	125	55 90	28	63	19	Eye bolts		HHYG-15300D
23.7 63.6 143.1	3543	320	175	55 90 135	60	112	19	Eye bolts	HHB-630A	HHYG-15510D
44.2 95.0	2088	304	152	75 110	45	85	23	Eye bolts	HHB-700A	HHYG-30300D
44.2 95.0 213.7	6803	366	220	75 115 165	106	142	23	Eye bolts	HHB-630A	HHYG-30600D
70.8 143.1	3800	350	170	95 135	68	105	29	Eye bolts		HHYG-50300D
70.8 143.1 283.4	9500	390	230	95 135 190	152	160	29	Eye bolts		HHYG-50600D

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRAULIC CYLINDERS

HYDRARITE®

Low Height Telescopic Cylinders

Working pressure: 700bar



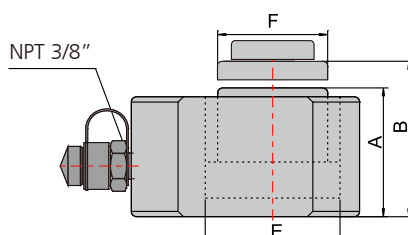
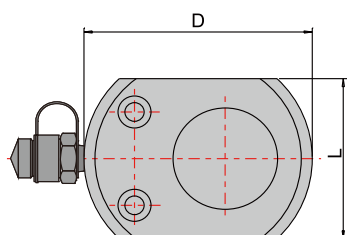
Very low retracted height
Long lifting stroke

Characteristics:

- For use in confined spaces: machinery positioning, tool fastening, etc.
- Single acting, load return.
- High strength alloy steel for durability.
- Baked enamel finish for increased corrosion resistance
- Cylinder bores are roller burnished to harden the surface and make it smoother.
- Grooved piston rods require no saddle.
- Mounting holes permit easy fixturing.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.



Model	Cylinder Capacity @700 bar			Stroke (mm)	Total stroke (mm)
	Ton	stage number	KN		
HHYG-10D	10	2	49	15	25
		1	111	10	
HHYG-20D	20	2	67	16	27
		1	198	11	
HHYG-30D	30	3	50	20	54
		1	309	12	
HHYG-50D	50	3	50	25	66
		2	137	26	
		1	496	15	
HHYG-100D	100	3	111	24	69
		2	309	30	
		1	1002	15	



Effective area (cm ²)	Oil capacity (cm ³)	Closed height A (mm)	Extended Height B (mm)	Outside Dia. D×L (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Recommended pump	Model
7 15.9	30	49	74	83×60	30 45	26 38	1.6	HHB-700C	HHYG-10D
9.6 28.3	51	57	84	99×76	35 60	31 50	2.7		HHYG-20D
7.1 19.6 44.2	123	64	118	123×98	30 50 75	26 46 64	4.7		HHYG-30D
7.1 19.6 70.8	188	74	140	148×120	30 50 95	26 46 70	7.9		HHYG-50D
15.9 44.2 143.1	418	93	162	188×160	45 75 135	38 69 100	16.9	HHB-700	HHYG-100D

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

Single-acting Hollow Plunger Cylinders

Working pressure: 700bar



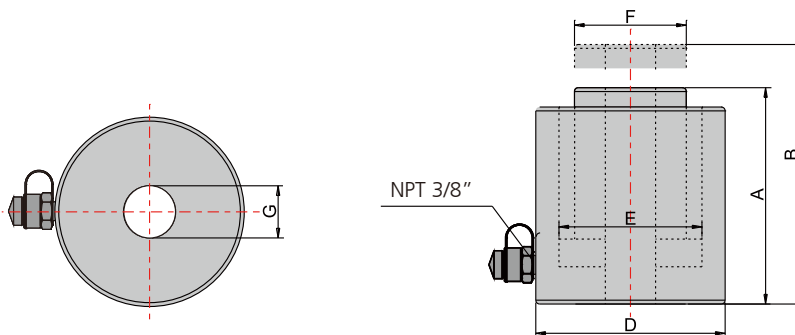
For use in Testing,
Maintenance
and Tensioning
Applications

Characteristics:

- Hollow plunger design allows for both push and pull forces.
- Single acting, spring return.
- High strength alloy steel for durability.
- Baked enamel finish for increased corrosion resistance
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.



Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)
	Ton	KN		
HHYG-2050K	20	205	50	29.3
HHYG-20100K			100	
HHYG-3050K	30	334	50	47.7
HHYG-30100K			100	
HHYG-6050K	60	562	50	80.3
HHYG-60100K			100	
HHYG-10075K	100	946	75	135.2



Oil capacity (cm ³)	Closed height A (mm)	Extended Height B (mm)	Outside Dia. D(mm)	Centre hole G (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Handle	Recommended pump	Model
146	161	211	98	27	73	54	7.5	No	HHB-700	HHYG-2050K
292	223	323					10	No		HHYG-20100K
239	180	230	114	33	90	9	No	HHYG-3050K		
477	246	346				14.5	No	HHYG-30100K		
402	247	297	158	54	123	30.2	Removable carrying handles	HHB-700A		HHYG-6050K
803	304	404				36.2				HHYG-60100K
1015	276	351	212	80	165	57			HHYG-10075K	

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

Double-acting, Hollow Plunger Cylinders

Working pressure: 700bar



For use in Testing,
Maintenance
and Tensioning
Applications

Characteristics:

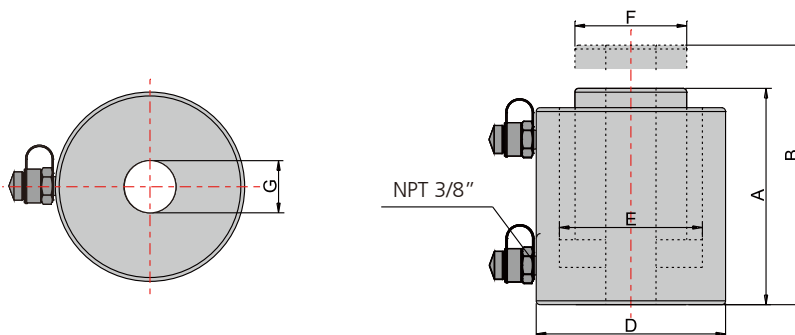
- Hollow plunger design allows for both push and pull forces.
- Double acting, hydraulic return.
- High strength alloy steel for durability.
- Baked enamel finish for increased corrosion resistance.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.



Pump Selection

A double-acting cylinder must be powered by a two-way hydraulic pump

Model	Cylinder Capacity @700 bar			Stroke (mm)	Effective area (cm ²)		Oil capacity (cm ³)	
	Ton	Enter trace (KN)	Return trace (KN)		Enter trace	Return trace	Enter trace	Return trace
HHYG-6050KS	60	562	377	50	80.3	53.8	402	269
HHYG-60100KS				100				
HHYG-10050KS	100	965	642	50	137.8	91.7	689	459
HHYG-100100KS				100				
HHYG-15050KS	150	1495	909	50	213.5	129.9	1118	650
HHYG-150100KS				100				
HHYG-20050KS	200	1929	1161	50	275.5	165.8	1436	829
HHYG-200100KS				100				



Closed height A (mm)	Extended Height B (mm)	Outside Dia. D (mm)	Centre hole G (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Handle	Recommended pump	Model
202	252	158	54	123	91	24.5	Removable carrying handles	HHB-700S	HHYG-6050KS
252	352					31.3			HHYG-60100KS
207	257	208	80	165	126	44.7			HHYG-10050KS
257	357					56.6			HHYG-100100KS
217	267	258	100	210	166	69.7		HHB-630B	HHYG-15050KS
267	367					87.2			HHYG-150100KS
237	287	288	120	240	191	90.9			HHYG-20050KS
287	387					112.0			HHYG-200100KS

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRAULIC CYLINDERS



Single-acting, Lock Nut Cylinders

Working pressure: 700 bar



Characteristics:

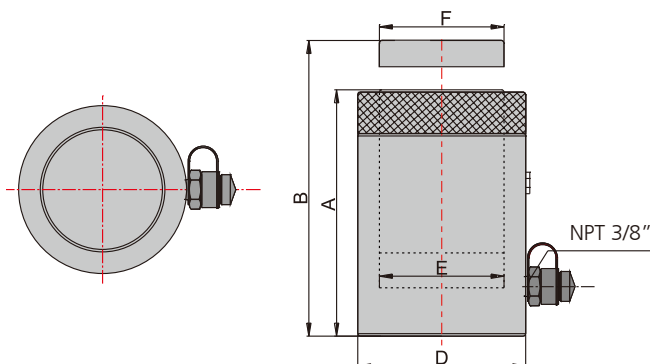
- Safety lock nut for mechanical load holding.
- Single-acting, 10-200 ton cylinder models are spring return, 250-1000 ton cylinder models are load return.
- Overflow port functions as a stroke limiter.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Baked enamel finish for increased corrosion resistance.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.
- Each cylinder has a flat grooved saddle. Tilt saddle is available on request.

To secure loads mechanically

Mechanical lock to support load.
Overflow port prevents piston from being overextended.



Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)	Oil capacity (cm ³)
	Ton	KN			
HHYG-1050LS	10	111	50	15.9	90
HHYG-10100LS			100		171
HHYG-10150LS			150		255
HHYG-2050LS	20	198	50	28.3	168
HHYG-20100LS			100		316
HHYG-20150LS			150		467
HHYG-3050LS	30	309	50	44.2	248
HHYG-30100LS			100		475
HHYG-30150LS			150		706
HHYG-5050LS	50	496	50	70.8	406
HHYG-50100LS			100		773
HHYG-50150LS			150		1147
HHYG-10050LS	100	1002	50	143.1	797
HHYG-100100LS			100		1548
HHYG-100150LS			150		2299
HHYG-15050LS	150	1496	50	213.7	1168
HHYG-150100LS			100		2273
HHYG-150150LS			150		3377
HHYG-20050LS	200	1984	50	283.4	1502
HHYG-200100LS			100		2955
HHYG-200150LS			150		4408
HHYG-25050LS	250	2540	50	362.9	1900
HHYG-250150LS			150		5566
HHYG-250300LS			300		11047
HHYG-30050LS	300	3165	50	452.2	2262
HHYG-300150LS			150		6786
HHYG-300300LS			300		13572
HHYG-40050LS	400	4006	50	572.3	2863
HHYG-400150LS			150		8588
HHYG-400300LS			300		17177
HHYG-50050LS	500	5111	50	730.2	3653
HHYG-500150LS			150		10959
HHYG-500300LS			300		21918
HHYG-60050LS	600	5984	50	854.9	4276
HHYG-600150LS			150		12829
HHYG-600300LS			300		25659
HHYG-80050LS	800	8358	50	1194	5973
HHYG-800150LS			150		17919
HHYG-800300LS			300		35838
HHYG-100050LS	1000	10161	50	1451.5	7261
HHYG-1000150LS			150		21783
HHYG-1000300LS			300		43566



Closed height A (mm)	Extended Height B (mm)	Outside Dia. D (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	Locknut height (mm)	G.W. (Kg)	Handle	Recommended pump	Model
144	194	68	45	45	28	4	No	HHB-700C	HHYG-1050LS
194	294					5.5	Yes		HHYG-10100LS
244	394					7	Yes		HHYG-10150LS
148	198	83	60	60	30	7	No	HHB-700	HHYG-2050LS
198	298					9	Yes		HHYG-20100LS
248	398					11.2	Yes		HHYG-20150LS
156	206	103	75	75	32	9.5	Yes	HHB-700C	HHYG-3050LS
206	306					12.7	Yes	HHB-700	HHYG-30100LS
256	406					15.5	Yes	HHB-700A	HHYG-30150LS
164	214	123	95	95	36	14.5	Yes	HHB-700	HHYG-5050LS
214	314					19	Yes		HHYG-50100LS
264	414					23.5	Yes		HHYG-50150LS
186	236	168	135	135	44	30.5	Eye bolts	HHB-700A	HHYG-10050LS
236	336					39	Eye bolts		HHYG-100100LS
286	436					47.5	Eye bolts		HHYG-100150LS
209	259	208	165	165	44	54	Eye bolts	HHB-630A	HHYG-15050LS
259	359					66.5	Eye bolts		HHYG-150100LS
309	459					79.5	Eye bolts		HHYG-150150LS
243	293	238	190	190	50	80.5	Eye bolts	HHB-630A	HHYG-20050LS
293	393					97.5	Eye bolts		HHYG-200100LS
343	493					113.5	Eye bolts		HHYG-200150LS
249	299	275	215	215	56	115	Eye bolts	HHB-630M	HHYG-25050LS
349	499					163	Eye bolts		HHYG-250150LS
499	799					233	Eye bolts		HHYG-250300LS
276	326	295	240	240	60	136	Eye bolts	HHB-630M	HHYG-30050LS
376	526					185	Eye bolts		HHYG-300150LS
526	826					258	Eye bolts		HHYG-300300LS
321	371	325	270	270	70	207	Eye bolts	HHB-630M	HHYG-40050LS
421	571					270	Eye bolts		HHYG-400150LS
571	871					366	Eye bolts		HHYG-400300LS
356	406	372	305	305	80	301	Eye bolts	HHB-630M	HHYG-50050LS
456	606					385	Eye bolts		HHYG-500150LS
606	906					511	Eye bolts		HHYG-500300LS
376	426	402	330	330	85	370	Eye bolts	HHB-630M	HHYG-60050LS
476	626					470	Eye bolts		HHYG-600150LS
626	926					616	Eye bolts		HHYG-600300LS
441	491	472	390	390	100	603	Eye bolts	HHB-630M	HHYG-80050LS
541	691					736	Eye bolts		HHYG-800150LS
691	991					941	Eye bolts		HHYG-800300LS
491	541	530	430	430	110	847	Eye bolts	HHB-630M	HHYG-100050LS
591	741					1017	Eye bolts		HHYG-1000150LS
741	1041					1273	Eye bolts		HHYG-1000300LS

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE CYLINDERS

HYDRARITE®

Ultra-Flat Cylinders

Working pressure: 700 bar

Characteristics:

- Single-acting, gravity-return.
- Extremely low collapsed height.
- Each cylinder comes with a NPT 3/8" female coupler (optional HC7002M).



Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)
	Ton	KN		
HHYG-3515CCB	35	35.16	15	50.2
HHYG-7015CCB	70	72.67	15	103.8
HHYG-10015CCB	100	107.7	15	153.5

Ultra-High Pressure Ultra-Flat Cylinders

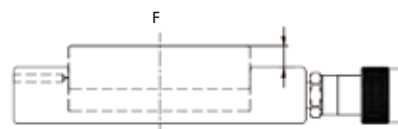
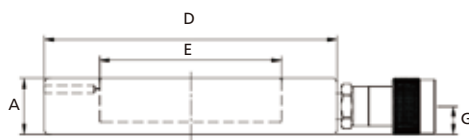
Working pressure: 1500 bar

Characteristics:

- Single-acting, gravity-return.
- Extremely low collapsed height.
- Each cylinder comes with an ultra-high pressure male coupler HC15001M.

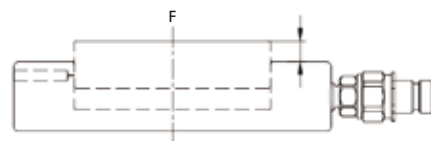
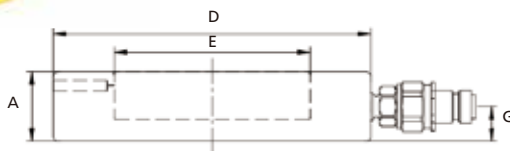


Model	Cylinder Capacity @1500 bar		Stroke (mm)	Effective area (cm ²)	Oil capacity (cm ³)
	Ton	KN			
HHYG-510CGB	5	51.9	10	3.46	3.5
HHYG-1010CGB	10	105.9	10	7.06	7.1
HHYG-2510CGB	25	260.1	10	17.34	17.3
HHYG-5010CGB	50	576.9	10	38.46	38.5
HHYG-10010CGB	100	1040.4	10	69.36	69.4
HHYG-15010CGB	150	1584.4	10	105.62	105.6
HHYG-20010CGB	200	2051.6	10	136.77	136.8



Oil capacity (cm ³)	Closed height A (mm)	Extended Height B (mm)	Outside Dia. DXL (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	Bottom to Advance Port G (mm)	G.W. (Kg)	Model
75	35	50	150	80	80	17.5	5	HHYG-3515CCB
156	35	50	185	115	115	17.5	7.5	HHYG-7015CCB
231	41	56	210	140	140	19	11.2	HHYG-10015CCB

See pages 181-198 for ordering of hydraulic pumps



Closed height A (mm)	Extended Height B (mm)	Outside Dia. DXL (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	Bottom to Advance Port G (mm)	G.W. (Kg)	Recommended pump	Model
30	40	60	21	21	15	0.74	HHB-180	HHYG-510CGB
30	40	70	30	30	15	1.1		HHYG-1010CGB
30	40	90	47	47	15	1.5		HHYG-2510CGB
30	40	118	70	70	15	2.6		HHYG-5010CGB
33	43	152	94	94	16.5	4.3		HHYG-10010CGB
34	44	180	116	116	17	6.8		HHYG-15010CGB
35	45	204	132	132	17	9		HHYG-20010CGB

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRAULIC CYLINDERS



Single-acting Aluminum Cylinders

Working pressure: 700bar



Half the weight of steel cylinders of comparable capacity

Aluminum body resists sparking in explosive environment.

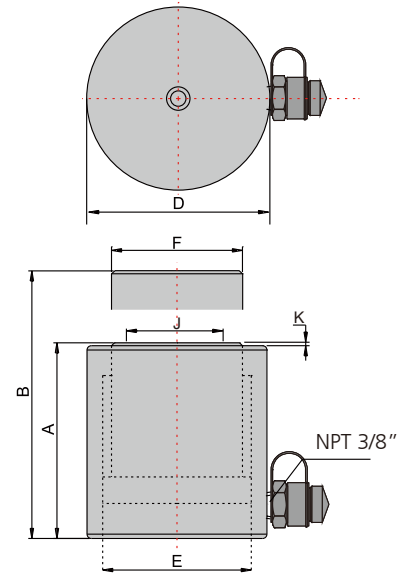
Hard-coated aluminum piston rod and cylinder bore resist wear and corrosion.

Characteristics:

- Lightweight for maximum portability.
- Hard-coat finish on all surfaces resists damage and extends cylinder life.
- Single acting, spring return.
- Each cylinder has an HC7002M NPT 3/8" male half coupler and dust cap.
- Each cylinder has a flat grooved saddle. Tilt saddle is available on request.



Model	Cylinder Capacity @700 bar		Stroke (mm)	Effective area (cm ²)	Oil capacity (cm ³)	Closed height A (mm)
	Ton	KN				
HHYG-1050L	10	111	50	15.9	85	142
HHYG-10100L			100		169	192
HHYG-10150L			150		254	242
HHYG-2050L	20	198	50	28.3	157	162
HHYG-20100L			100		311	212
HHYG-20150L			150		465	262
HHYG-3050L	30	309	50	44.2	240	172
HHYG-30100L			100		474	222
HHYG-30150L			150		707	272
HHYG-5050L	50	496	50	70.8	391	182
HHYG-50100L			100		770	232
HHYG-50150L			150		1149	282
HHYG-10050L	100	1002	50	143.1	783	208
HHYG-100100L			100		1534	258
HHYG-100150L			150		2285	308
HHYG-15050L	150	1496	50	213.7	1136	233
HHYG-150100L			100		2241	283
HHYG-150150L			150		3345	333
HHYG-20050L	200	1984	50	283.4	1485	263
HHYG-200100L			100		2938	313
HHYG-200150L			150		4391	363
HHYG-200200L			200		5844	413
HHYG-200250L			250		7297	463



Extended Height B (mm)	Outside Dia. D (mm)	Inside Dia. E (mm)	Piston Rod Dia. F (mm)	G.W. (Kg)	Standard Saddle Dia. J (mm)	Saddle Protr. From Plgr. K (mm)	Handle	Recommended pump	Model
192	64	45	38	1.2	30	2	No	HHB-700C	HHYG-1050L
292				1.7			No		HHYG-10100L
392				2.1			No		HHYG-10150L
212	85	60	52	3	41	2	No	HHB-700	HHYG-2050L
312				3.8			No		HHYG-20100L
412				4.6			No		HHYG-20150L
222	110	75	62	5.1	49	2	No	HHB-700C	HHYG-3050L
322				6.4			No		HHYG-30100L
422				7.6			No		HHYG-30150L
232	140	95	80	8.6	67	2	No	HHB-700	HHYG-5050L
332				10.5			No		HHYG-50100L
432				12.5			No		HHYG-50150L
258	180	135	110	17	99	2	Eye bolts	HHB-700A	HHYG-10050L
358				20.5			Eye bolts		HHYG-100100L
458				23.3			Eye bolts		HHYG-100150L
283	230	165	135	30.9	114	3	Eye bolts	HHB-630A	HHYG-15050L
383				35.9			Eye bolts		HHYG-150100L
483				40.9			Eye bolts		HHYG-150150L
313	270	190	160	47.5	139	3	Eye bolts	HHB-700A	HHYG-20050L
413				51.6			Eye bolts		HHYG-200100L
513				61.2			Eye bolts	HHYG-200150L	
613				68			Eye bolts	HHYG-200200L	
713				74.8			Eye bolts	HHYG-200250L	

See pages 181-198 for ordering of hydraulic pumps



LIFTING TOOLS HYDRARITE TOE JACKS

HYDRARITE®

Hydraulic Toe Jacks

For machinery lifting and positioning with minimum available access.

Lifting points on toe and head offers much wider applications than a conventional hydraulic jack.



Lifting head



Low clearance lifting toe



Swivel pump handle

High strength return spring

Characteristics:

- Quick, simple and effortless operation by hand.
- Lifting points on toe and head provides added versatility.
- The toe structural part is made of alloy steel and casted from a mold without welding or bending process, which materializes great strength and durability.
- Low height lifting toe allows working in confined areas.
- High strength return spring enables rapid ram retraction.
- Swiveling pump handle assembly allows the operator to access and pump the unit from numerous positions.
- Built-in safety valve prevents overpressurization.
- Internal overflow valve functions as a stroke limiter.
- Convenient carry handle.

Model	Capacity(ton) Toe	Hydraulic lifting (mm)	Closed body height (mm)	Toe clearance (mm)	G.W. (Kg)	Packing size (mm)
HHQD-5	3	120	222	16	14.2	300×200×320
HHQD-10	5	130	265	18	20.7	330×220×320
HHQD-20	10	130	285	20	31	350×240×320
HHQD-30	15	140	305	20	46.4	380×270×340

Hydraulic Toe Jacks, HHQD-6-D



A small machine used for maintaining railway subgrades. Through manual operation, the hydraulic toe track can lift the rail a certain distance off the ground, allowing workers to maintain the subgrade.

- Built-in safety valve
- Operating environment: -10 degrees to 40 degrees

Capacity: 7ton
Stroke: 80mm



Air Hydraulic Toe Jacks

Air Hydraulic Toe Jacks are ideal for lifting applications where an air compressor is available.



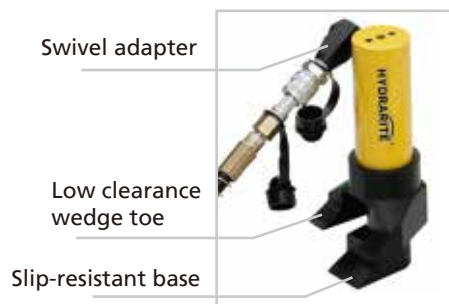
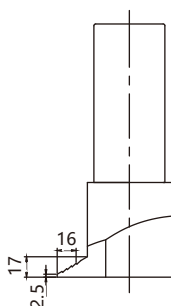
Model	Capacity(ton) Toe	Air pressure (kg/psi)	Hydraulic lifting (mm)	Closed body height (mm)	Toe clearance (mm)	G.W. (Kg)	Packing size (mm)
HHQD-5Q	3	8/120	120	222	16	15	300×200×310
HHQD-10Q	5	8/120	130	265	18	21.6	330×220×310
HHQD-20Q	10	8/120	130	285	20	32.2	350×240×320
HHQD-30Q	15	8/120	140	305	20	47.2	380×270×340

Hydraulic Toe Jack



Characteristics:

- Single acting, spring return.
- Grooved base provides added stability.
- Wedge toe requires very small ground clearance.
- Swivel adapter allows greater versatility in space restricted applications.
- Can be operated by any hydraulic pump with rated oil pressure 700 bar.



Model	Capacity(ton)		Hydraulic lifting (mm)	Closed height (mm)	Toe clearance (mm)	G.W. (Kg)	Packing size (cm)
	Toe	Head					
HHQD-8F	8	/	90	213	2.5-17mm	4	14×11×24



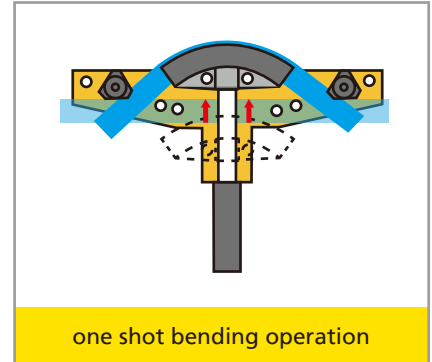
PIPE TOOLS **PIPE BENDERS**

HYDRARITE®

Manual Hydraulic Pipe Benders

The Manual Hydraulic Pipe Benders are designed for precision cold bending of thick-walled pipes (gas, water and steam pipes, non-heated black iron pipes, galvanized pipes, schedule 40 & 80) up to 90° following GB/T 3091, DIN 2440, EN 10255, BS1387 standards.

These benders are ideal for plumbing, sanitary and heating installation on construction sites, for apparatus and boiler making and for industrial applications.



one shot bending operation



Vented oil plug

Easy and simple operation
Fast piston return by turning the release knob anticlockwise.

Precision bend forming

High efficiency
Two-speed, heavy duty, low-maintenance hydraulic system

Quick detachable tripod stand provides comfortable working position



Do not run the bender without insertion of a pipe between the bending shoe and pivot shoes.



See page 40 for detailed specification of bending formers.



HHW-2J, HHW-3J, HHW-4J



Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 1/2" to 4".
- Cold bending, no pre-warming of pipe is required.
- Works quicker with the two-speed, heavy-duty hydraulic pumping system.
- Comfortable working position with the tripod stand.
- Longer piston stroke per pumping and optimized hand force minimizes operator fatigue.
- Supplied in a wooden case with a set of bending shoes and service pack.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Bending range(O.D.) (mm)	Bending shoes (inch)	G.W. (Kg)	Packing size (cm)
HHW-2J	13	250	Ø21.3-Ø60	1/2" 3/4" 1" 1¼" 1½" 2"	48.2	73×32×20
HHW-3J	20	290	Ø21.3-Ø88.5	1/2" 3/4" 1" 1¼" 1½" 2" 2½" 3"	100.5	94×40×21
HHW-4J	20	370	Ø21.3-Ø108	1/2" 3/4" 1" 1¼" 1½" 2" 2½" 3" 4"	156.8	118×46×25

HHW-1, HHW-2, HHW-3, HHW-4



Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 1/2" to 4".
- Cold bending, no pre-warming of pipe is required.
- Works quicker with the two-speed, heavy-duty hydraulic pumping system.
- Longer piston stroke per pumping and optimized hand force minimizes operator fatigue.
- Heavy duty casters provide mobility on jobsites.
- Supplied in a wooden case with a set of bending shoes and service pack.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Bending range(O.D.) (mm)	Bending shoes (inch)	G.W. (Kg)	Packing size (cm)
HHW-1	6	150	Ø13-Ø33	1/4" 5/16" 3/8" 1/2" 3/4" 1"	19	50×25×15
HHW-2	13	250	Ø21.3-Ø60	1/2" 3/4" 1" 1¼" 1½" 2"	53	73×32×20
HHW-3	20	290	Ø21.3-Ø88.5	1/2" 3/4" 1" 1¼" 1½" 2" 2½" 3"	117	93×40×21
HHW-4	20	370	Ø21.3-Ø108	1/2" 3/4" 1" 1¼" 1½" 2" 2½" 3" 4"	155	118×46×25

HHW-1A



Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 3/8" to 1".
- Cold bending, no pre-warming of pipe is required.
- Fast and easy setup on the jobsite.
- Simple to use.
- Steel storage box for easy carry from site to site.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Bending range(O.D.) (mm)	Bending shoes (inch)	G.W. (Kg)	Packing size (cm)
HHW-1A	6	150	Ø16-Ø33	3/8" 1/2" 3/4" 1"	17	43×38×13



PIPE TOOLS PIPE BENDERS

HYDRARITE®

Electric Hydraulic Pipe Benders

The Manual Hydraulic Pipe Benders are designed for precision cold bending of thick-walled pipes (gas, water and steam pipes, non-heated black iron pipes, galvanized pipes, schedule 40 & 80) up to 90° following GB/T 3091, DIN 2440, EN 10255, BS1387 standards.

These benders are ideal for plumbing, sanitary and heating installation on construction sites, for apparatus and boiler making and for industrial applications.

Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 1/2" to 4".
- Cold bending, no pre-warming of pipe is required.
- Effective work with the electric pump.
- Carry handle and casters ensure quick and easy move from site to site.
- All components supplied in a wooden case, including electric pump, the bender, bending shoes and service pack.

HHW-2D, HHW-3D, HHW-4D



HHW-2E



See page 40 for detailed specification of bending formers.



Do not run the bender without insertion of a pipe between the bending shoe and pivot shoes.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Bending range(O.D.) (mm)	Bending shoes (inch)	G.W. (Kg)	Packing size (cm)
HHW-2D	13	250	Ø21.3-Ø60	1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	66.9	96×35×28
HHW-3D	20	290	Ø21.3-Ø88.5	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3"	120.8	118×46×29
HHW-4D	20	370	Ø21.3-Ø108	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4"	163.8	118×46×33
HHW-2E	13	250	Ø21.3-Ø60	1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	56	59×37×69



Air Hydraulic Pipe Benders

The Air Hydraulic Pipe Benders can be operated by air compressor or by hand. These benders are for precision cold bending of thick-walled pipes (gas, water and steam pipes, non-heated black iron pipes, galvanized pipes, schedule 40 & 80) up to 90° following GB/T 3091, DIN 2440, EN 10255, BS1387 standards.

Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 1/2" to 4".
- Cold bending, no pre-warming of pipe is required.
- Works quicker with air compressor.
- Can be operated by hand when air compressor is not available.
- Rugged construction for use in tough work sites.
- Fast and easy setup, simple to use.
- Supplied in a wooden case with a set of bending shoes and service pack.

HHW-2Q, HHW-3Q, HHW-4Q



HHW-2Q



HHW-3Q



HHW-4Q



Do not run the bender without insertion of a pipe between the bending shoe and pivot shoes.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Air pressure (kg/psi)	Bending shoes (inch)	G.W. (Kg)	Packing size (cm)
HHW-2Q	13	250	8/116	1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	53	73×32×20
HHW-3Q	20	290	8/116	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3"	109	94×40×23
HHW-4Q	20	370	8/116	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4"	158	118×46×25



See page 40 for detailed specification of bending formers.



PIPE TOOLS

PIPE BENDERS

HYDRARITE®

Hydraulic Pipe Bender and Hand Pump set

These bender and hand pump sets are for precision cold bending of thick-walled pipes (gas, water and steam pipes, non-heated black iron pipes, galvanized pipes, schedule 40 & 80) up to 90° following GB/T 3091, DIN 2440, EN 10255, BS1387 standards.

Characteristics:

- Capable of bending angles from 0° to 90° on pipes ranging from 1/2" to 4".
- Cold bending, no pre-warming of pipe is required.
- Fast and easy setup on the jobsite.
- Hand pump with 1.8 meter hose allows operation from a distance, increasing flexibility and safety.
- Supplied in a wooden case with a set of bending shoes and service pack.

HHW-2F, HHW-3F, HHW-4F



HHW-2F



Do not run the bender without insertion of a pipe between the bending shoe and pivot shoes.

Model	Hydraulic Ram Output (Ton)	Ram stroke (mm)	Bending range(O.D.) (mm)	Bending shoes (inch)	Pump model	G.W. (Kg)	Packing size (cm)
HHW-2F	13	250	Ø21.3-Ø60	1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	HHB-700	50.6	73×32×20
HHW-3F	20	320	Ø21.3-Ø88.5	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3"	HHB-700	104.9	94×40×21
HHW-4F	20	370	Ø21.3-Ø108	1/2" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 4"	HHB-700A	156.4	118×46×25



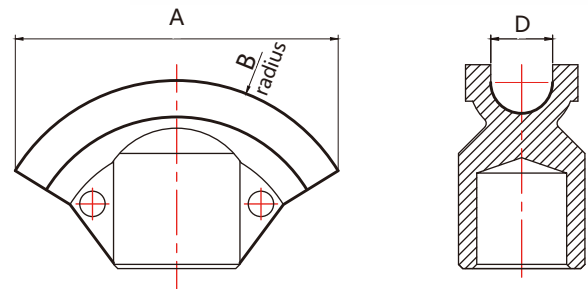
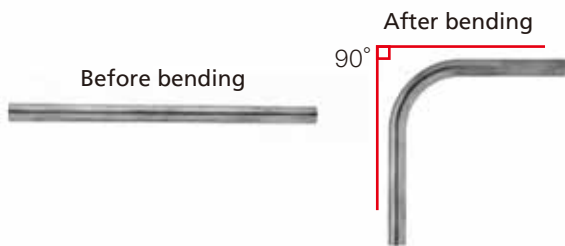
See page 40 for detailed specification of bending formers.



Bending Shoes

For bending pipes to 90° following GB/T 3091, DIN 2440, EN 10255, BS1387 standards.

Made of nodular cast iron, the bending shoes are strong and durable.



Bending shoe size (inch)	A (mm)	B (mm)	Minimum bend radius (mm)	D (mm)	Pipe Schedule	Wall thickness (mm)
1/4"	61	44	38	13.5	40	2
5/16"	76	56	48	16.5	40	2
3/8"	106	63	50	18	40	2.3
1/2"	115	67.5	50.2	22	40 80	2.8 3.7
3/4"	131	84.5	66	28	40 80	2.9 3.9
1"	147	96.5	75.4	34	40 80	3.4 4.5
1 1/4"	195	134	108.7	43	40	3.6
1 1/2"	242	162	133.5	50	40	3.7
2"	297	238	199.2	62	40	3.9
2 1/2"	380	257	209	79	40	5.2
3"	436	390	335	90	40	5.5
4"	555	450	400	110	40	6

• Pipe schedule : 40 = Standard, 80= Extra Heavy

HHW-1A, Specifications of bending shoes

Bending shoe size (inch)	A (mm)	B (mm)	Minimum bend radius (mm)	D (mm)	Pipe Schedule	Wall thickness (mm)
3/8"	104	63.5	50	18	40	2.3
1/2"	112	68.5	54.8	21.5	40	2.8
3/4"	131	87.5	68.5	28	40	2.9
1"	147	107	86	34	40	3.4

• Pipe schedule : 40 = Standard



PIPE TOOLS PIPE BENDERS

HYDRARITE®

Manual Tube Bender, HHW-25S

An ideal tool for accurate bending of mild steel tubes up to 180°, Ø10-25mm, wall thickness 0.8-2.0mm.

Characteristics:

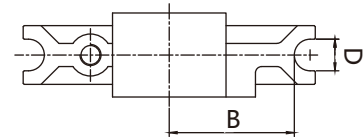
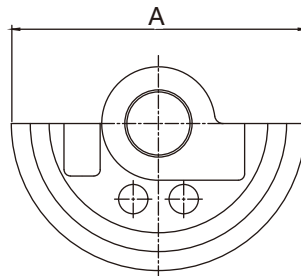
- It is mounted solidly onto the bench and comes with extension handle and 7 x 180° bending shoes included. The bending shoes can be changed in seconds and the small roller is adjustable for pressure by moving the thumb screw.
- All dies are made of steel and nearly unbreakable.
- Comes delivered in a heavy duty moulded plastic carry case with handle.
- Optimum bending results without deformation or ripples.
- Universal applications: U-bends, counter-bends, swan-neck bends and connecting bends possible at all levels.
- Top quality, precise and simple to use.



Sturdy plastic case

Model	Bending range(O.D.) (mm)	Bending shoes inch	G.W. (Kg)	Packing size (cm)
HHW-25S	Ø16-Ø33	3/8"(10mm), 1/2"(12mm), 9/16"(14mm), 5/8"(16mm), 3/4"(19mm), 7/8"(22mm), 1"(25mm)	27.6	67X19X42

Specifications of bending shoes



Bending shoe size (inch)	A (mm)	Minimum bend radius B(mm)	D (mm)	Wall thickness of Standard steel pipe, stainless steel pipe (mm)	Wallthickness of Standard copper tubes (mm)
3/8"	100	42	11	0.8	1.0
1/2"	119	50.5	13	1.0	1.2
9/16"	139	55.5	15	1.0	1.2
5/8"	159	68.5	17	1.0	1.2
3/4"	179	77	20	1.0	1.2
7/8"	225	98.5	23	1.2	1.5
1"	225	97	26	2.0	1.6



Manual Hydraulic Pipe Benders, HHW-22B

For accurate one handed bending up to 90°, R6-22mm(1/4" - 7/8")

Suitable for bending soft copper tubes, coated copper tubes and multi-layer composite tubes.

Universal use in sanitary, heating, air conditioning, refrigerating and hydraulic applications.

Saving on fittings, storage, procurement, soldering joints, pressing joints and working hours.

Characteristics:

- With hydraulic pressure the tool allows effortless and single hand operation.
- Accurate bending even in restricted spaces.
- Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels.
- Easy and rapid changing of the bending shoes.
- Fast release and removal of the bending shoes.
- Handy and lightweight, easy move to job site.



Plastic carry case



Efficient & reliable hydraulic system

Changeable aluminum formers

Effortless single hand operation

Changeable steel bars

Pressure release knob

Aluminum counterformer

Bottom cover



Various bends to soft copper, aluminium, brass tubes



Bender tool



Counterformers



Bending formers

Model	Bending range (mm)	Bending shoes (Inch)	Wall thickness of tubes (mm)	G.W. (Kg)	Packing size (cm)
HHW-22B	Ø6-Ø22	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(18mm), 7/8"(22mm)	1.5	6.35	57X41X12



PIPE TOOLS

PIPE BENDERS

HYDRARITE®

Battery Powered Hydraulic Pipe Benders, HHDW-16



Characteristics:

- Lithium-ion power tool, hydraulic output, easy to operate, easy to carry.
- Handheld pipe bender, suitable for various application scenarios, easy to use, high work efficiency.
- bending up to 90°, Ø6-22mm(1/4" - 7/8").
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- LED Display indicates operation temperature and times.

Model	Bending range (mm)	Bending shoes (Inch)	Wall thickness of tubes (mm)	G.W. (Kg)	Packing size (cm)
HHDW-16	Ø6-Ø22	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(18mm), 7/8"(22mm)	1.5	6.35	57X41X12

Manual Tube Benders, HHW-22 and HHW-22A

For accurate one handed bending up to 90°, Ø6-22mm(1/4" - 7/8")

Suitable for bending soft copper tubes, coated copper tubes and multi-layer composite tubes.

Universal use in sanitary, heating, air conditioning, refrigerating and hydraulic applications.

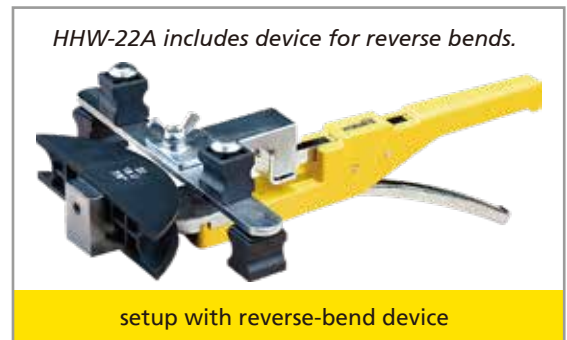
Saving on fittings, storage, procurement, soldering joints, pressing joints and working hours.

Characteristics:

- Accurate bending even in restricted spaces.
- Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels.
- Easy and rapid changing of the bending shoes.
- Fast release and removal of the bending shoes.
- Handy and lightweight, easy move to job site.



Sturdy plastic case



HHW-22A includes device for reverse bends.

setup with reverse-bend device

Model	Bending range (mm)	Bending shoes inch	Wall thickness of tube (mm)	G.W. (Kg)	Packing size (cm)
HHW-22	Ø6-Ø22	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(18mm), 7/8"(22mm)	1.0	4.5	55X32X9
HHW-22A	Ø6-Ø22	1/4"(6mm), 5/16"(8mm), 3/8"(10mm), 1/2"(12mm), 5/8"(16mm), 3/4"(18mm), 7/8"(22mm)	1.0	5.1	55×32X9



Section & Tube Rolling Machines, HHW-76B and HHW-G76

This specially designed section and tube rolling machine can be used on either side front or rear of machine, the front is designed to handle the larger tube as the rear is capable of rolling smaller tubes.

Toolings made of grey cast iron allows long service life.

Characteristics:

- For making quick work of large radius bends and doing complete circles.
- Especially applicable to the production of steel greenhouse frame.
- Capable of rolling bending thin-walled mild steel, stainless steel round & square tubes.
- Foot pedal with emergency stop available on request.
- Two driving rollers and one driven roller.
- Manual adjustment of top roll.



HHW-76B



HHW-G76



Model	HHW-76B	HHW-G76
Tooling for round tubes (mm)	16	
	19	
	22 & 63 (2-IN-1)	
	25 & 51 (2-IN-1)	
	32 & 38 (2-IN-1)	
Tooling for square tubes (mm)	76	
	30 & 50 (2-IN-1)	
	16 & 25 & 40 (3-IN-1)	
	19 & 22 & 38 (3-IN-1)	
Motor	220V or 380V, 1.5 KW, 1400 rpm	
G.W. (kgs)	260	250
Packing size (cm)	73×63×103	

	Tooling for round tubes (mm)									Tooling for square tubes (mm)							
	16	19	22	25	32	38	51	63	76	16	19	22	25	30	38	40	50
Wall thickness of stainless steel tube	0.5	0.8	1.0	1.0	1.2	1.2	1.5	1.6	2	0.5	0.8	1.0	1.0	1.2	1.2	1.5	1.5
Wall thickness of mild steel tube	0.8	1.0	1.2	1.2	1.5	1.5	1.8	1.8	2.3	0.8	1.0	1.2	1.2	1.5	1.5	1.8	1.8



Battery-operated pressing tool, HHYD-1532

Suitable for precise and reliable pressing of fittings DN15-DN25.

- High strength press jaw
- One-hand operation
- LED light
- Status indication with LED display
- Rotatable head
- Manual release valve
- Powerful battery for more cycles

Characteristics:

- Easy and simple operation, high efficiency and safety.
- Pressing jaws confirm to standard GB/T 19228.
- Pressing stainless steel fittings up to 35 mm.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Quick motor stop for higher user safety.
- Powerful 12V Li-ion battery with low battery warning.
- Ergonomic design, extremely light and easy to hold.



High strength press jaw, rotating 180°

Safety lock

One button operation

Shrouded battery hydraulic system

Easy-to-carry belt

LED light

Status indication with LED Display

Slip-proof rubberized housing

Manual retraction in case of need

High performance 12V Li-ion battery





Optional powerful 12V/3.0Ah Li-on battery



Compact and lightweight



Easy to carry from site to site



Easy use in confined spaces

Standard jaws:



DN15 DN20 DN25

Optional jaws:



DN15 DN18 DN22 DN28 DN35

Optional jaws:



TH16 TH20 TH25 TH32

Model	HHYD-1532
Output force	1.9 ton
Stroke	30mm
Battery capacity	120 times press cycles(DN 20 Stainless steel pipe)
Pressing times	5s-8s
Battery	12V/1.5Ah Li-ion
Mould type	round
Pressing jaws	DN15, DN20, DN25
Battery	2pcs
Charger	1pc
Seals	1set
Weight(Kg)	14
Packing size(mm)	585 × 500 × 170

Notes:

See page 54-58 for more details of pressing jaws.

Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.



Battery-operated pressing tool

Suitable for precise and reliable pressing of fittings DN15-DN50

- High strength press jaw
- One-hand operation
- LED light
- Rotatable head
- Manual release valve
- Powerful battery for more cycles

Characteristics:

- Easy and simple operation, high efficiency and safety.
- Pressing jaws confirm to standard GB/T 19228.
- Pressing stainless steel fittings up to 54 mm.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic design, extremely light and easy to hold.

HHYD-1550A, HHYD-1550B, HHYD-1550CX



HHYD-1550A



HHYD-1550B



HHYD-1550CX



Press the button to put on & take off the battery

Powerful 1.8V/4.0Ah Battery Pack

Charger for Li-on battery



Strong force, low dissipation, long standby time



Notes:

See page 54-58 for more details of pressing jaws.

Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.

Model	HHYD-1550A	HHYD-1550B	HHYD-1550CX
Output force	3.2 ton	3.2 ton	3.2 ton
Stroke	40mm	40mm	40mm
Battery capacity	300 times press cycles(DN 20 Stainless steel pipe)		
Pressing times	5s-8s		
Battery	18V/4.0Ah Li-ion		
Mould type	round		
Pressing jaws	DN15, DN20, DN25, DN32, DN40, DN50		
Battery	2pcs		
Charger	1pc		
Seals	1set		
Weight(Kg)	25		
Packing size(mm)	585 × 500 × 170+210 × 200 × 120		



Battery-operated pressing tool, HHYD-15100

Suitable for precise and reliable pressing of fittings DN15-DN100.

New generation tool:
longer stroke and bigger
pressing range.

High strength press jaw,
rotating 180°



Characteristics:

- Easy and simple operation, high efficiency and safety.
 - Pressing jaws confirm to standard GB/T 19228.
 - Pressing stainless steel fittings up to 108 mm.
 - Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
 - 10000+ cycle service life.
 - Ram retracts to original position automatically when operation is complete.
 - Manual retraction in case of need.
 - LED Display indicates operation temperature and times.
 - Quick motor stop for higher user safety.
 - Powerful 18V Li-ion battery with low battery warning.
- Inline design, minimized weight and easy to hold, all the features make it the perfect tool in confined spaces.



Model	HHYD-15100
Output force	5 ton
Stroke	95mm
Battery capacity	300 times press cycles(DN 20 Stainless steel pipe)
Pressing times	8s-12s
Battery	18V/4.0Ah Li-ion
Mould type	round
Pressing jaws	DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100
Battery	2pcs
Charger	1pc
Seals	1set
Weight(Kg)	56
Packing size(mm)	585×500×170+680×420×145



Notes:

See page 54-58 for more details of pressing jaws.
Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.



Battery-operated pressing tool

HHYD-15100C



For press jointing of stainless steel pipes DN15-DN100.
Reliable and watertight press jointing.



Notes:

See page 54-58 for more details of pressing jaws.

Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.

Model	HHYD-15100C
Output force	5 ton
Stroke	95mm
Battery capacity	300 times press cycles(DN 20 Stainless steel pipe)
Pressing times	8s-12s
Battery	18V/4.0Ah Li-ion
Mould type	round
Pressing jaws	DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100
Battery	2pcs
Charger	1pc
Seals	1set
Weight(Kg)	56
Packing size(mm)	585×500×170+680×420×145

HHYD-65100

For press jointing of stainless steel pipes DN65-DN100.
Reliable and watertight press jointing.



Model	Output force	Stroke	Application	Mould type	Pressing jaws	Weight (Kg)	Packing size(mm)
HHYD-65100	7.5ton	95mm	Pressing Stainless steel pipe DN65-DN100	round	DN65 ,DN80, DN100	36	585×500×170



Cordless Radial Press, HHYD-1550

Suitable for precise and reliable pressing of fittings DN15-DN50



Characteristics:

- Pressing jaws conform to standard GB/T 19228.
- Pressing stainless steel fittings up to 54 mm.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.



Notes:
See page 54-58 for more details of pressing jaws.
Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.

Model	HHYD-1550
Output force	3.2 ton
Stroke	35mm
Battery capacity	300 times press cycles(DN 20 Stainless steel pipe)
Pressing times	5s-8s
Battery	18V/4.0Ah Li-ion
Mould type	round
Pressing jaws	DN15, DN20, DN25, DN32, DN40, DN50
Battery	2pcs
Charger	1pc
Seals	1set
Weight(Kg)	27
Packing size(mm)	585×500×170+210×200×120



Hydraulic Radial Press, HHF-1550

For press jointing of stainless steel pipes DN15-DN50.
Reliable and watertight press jointing.

Characteristics:

- Pressing jaws confirm to standard GB/T 19228.
- Pressing stainless steel fittings up to 54 mm.
- Aluminum pump lever and housing result in low weight.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual retraction in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.



Model	HHF-1550
Output force	6.5 ton
Stroke	35mm
Application	Pressing Stainless steel pipe DN15-DN50
Mould type	round
Pressing jaws	DN15, DN20, DN25, DN32, DN40, DN50
Weight(Kg)	28
Packing size(mm)	680 × 420 × 145



Notes:
See page 54-58 for more details of pressing jaws.
Please advise to HYDRARITE the corresponding pressfitting system before you order pressing tools.



Hydraulic Radial Press Head

HHF-1550F-D



For press jointing of stainless steel pipes DN15-DN50.
Reliable and watertight press jointing.

Characteristics:

- Pressing jaws conform to standard GB/T 19228.
- Pressing stainless steel fittings up to 54 mm.
- Each tool head has an NPT 3/8" quick coupling and dust cap.
- Requires an external hydraulic pump with rated oil pressure of 700 bar(10,000 psi).

Model	Output force	Stroke	Application	Mould type	Pressing jaws	Weight (Kg)	Packing size(mm)
HHF-1550F-D	6.5 ton	35mm	Pressing Stainless steel pipe DN15-DN50	round	DN15, DN20, DN25, DN32, DN40, DN50	26	680×420×145

HHF-65100F



For press jointing of stainless steel pipes DN65-DN100
Reliable and watertight press jointing.

Characteristics:

- Pressing collars conform to standard GB/T 19228.
- Pressing stainless steel fittings up to 60.3-108 mm.
- Each tool head has an NPT 3/8" quick coupling and dust cap.
- Requires an external hydraulic pump with rated oil pressure of 700 bar(10,000 psi).

Model	Output force	Stroke	Application	Mould type	Pressing jaws	Weight (Kg)	Packing size(mm)
HHF-65100F	6.5 ton	95mm	Pressing Stainless steel pipe DN65-DN100	round	DN65, DN80, DN100	34	680×420×145

HHF-15100F



For press jointing of stainless steel pipes DN15-DN100
Reliable and watertight press jointing.

Characteristics:

- Pressing collars conform to standard GB/T 19228.
- Pressing stainless steel fittings up to 60.3-108 mm.
- Each tool head has an NPT 3/8" quick coupling and dust cap.
- Requires an external hydraulic pump with rated oil pressure of 700 bar(10,000 psi).

Model	Output force	Stroke	Application	Mould type	Pressing jaws	Weight (Kg)	Packing size(mm)
HHF-15100F	6.5 ton	95mm	Pressing Stainless steel pipe DN15-DN100	round	DN15, DN20, DN25, DN32, DN40, DN50	54	680×420×145

Portable pumps as follows are recommended to work with the press heads.

Note: see page 187-189 for detailed specifications of the portable pumps.



Cordless Hydraulic Pump HHB-700LD, HHB-700LDA

Electric Hydraulic Pump HHB-700T





Radial Pressing Collars

One intermediate jaw can work with various pressing collars

Pressing collar

- Precision-manufactured contours For optimum and reliable pressings
- Made of forged, highly resilient special steel, corrosion-resistant surface treatment
- Special hardening process High degree of elastic force and expansion capacity

Intermediate jaw

- Gripping the pressing collar with intermediate jaws
- Made of forged, highly resilient special steel, corrosion-resistant surface treatment
- 3-bolt synchronised mechanism Highest precision by pressing Synchronised run of the jaw lever Increased stability and durability Easy open of the pressing jaw

The pressing jaws illustrated below are made to press stainless steel pipe fittings conforming to standard GB/T 19228.



DN65



DN80



DN100

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.



Radial Pressing Jaws

Standard Radial Pressing Jaws

Specially hardened pressing ring
High degree of elastic force
and expansion capacity

3-bolt synchronised
mechanism
Highest precision by pressing
Synchronised run of the law
lever
Increased stability and
durability
Easy open of the pressing jaw



Precision-manufactured contours
For optimum and reliable pressings

Made of forged,
highly resilient
special steel,
corrosion-resistant
surface treatment

Optimised inlet contour

The pressing jaws illustrated below are made to press stainless steel pipe fittings conforming to standard GB/T 19228.



DN15



DN20



DN25



DN32



DN40



DN50

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.



Radial Pressing Jaws

Radial Pressing Jaws with interchangeable inserts.

Combine various interchangeable inserts with only one press jaw!

Guiding ridge
Safe admittance from interchangeable press jaws.

3-bolt synchronised mechanism
Highest precision by pressing
Synchronised run of the law lever
Increased stability and durability
Easy open of the pressing jaw

Made of forged, highly resilient special steel, corrosion-resistant surface treatment

Optimised inlet contour



The pressing jaws illustrated below are made to press stainless steel pipe fittings conforming to standard GB/T 19228.



DN15



DN20



DN25



DN32

DN40

DN50

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.



Radial Pressing Jaws

Radial Pressing Jaws with interchangeable inserts.

Combine various interchangeable inserts with only one press jaw!



TH16



TH20



TH25



TH32

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.

Radial Pressing Collars

One intermediate jaw can work with various pressing collars



DN40



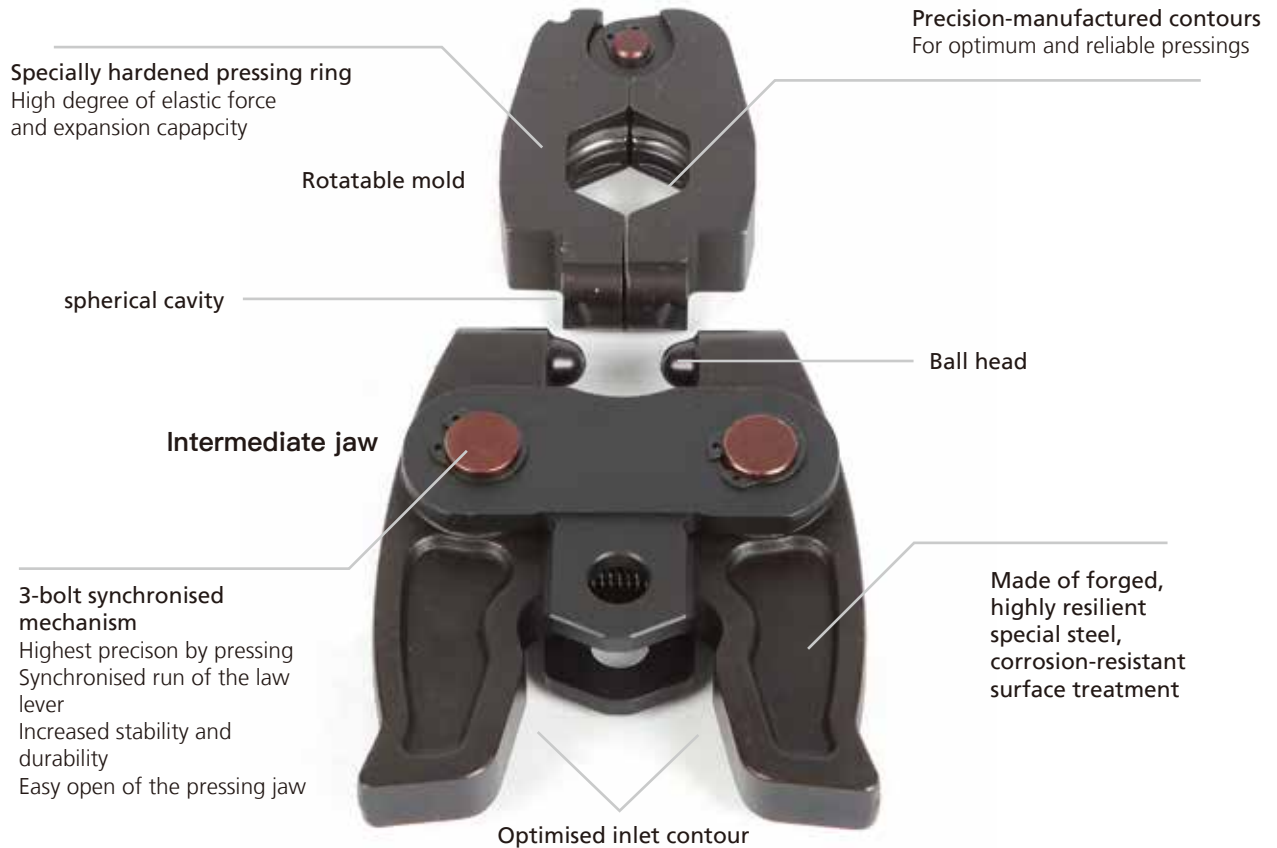
DN50

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.

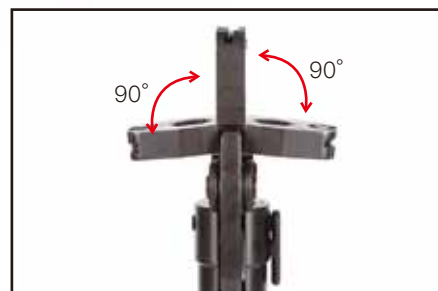


Rotatable Radial Pressing Jaws

Enables operation in more confined spaces,
serving as an excellent complement to conventional pressure piping



The pressing jaws illustrated below are made to press stainless steel pipe fittings conforming to standard GB/T 19228.



By combining the ball head and spherical cavity system, the mold can rotate $\pm 90^\circ$



Allow operation in a narrower space

Note: Special pressing jaws can be made on request, please contact HYDRARITE before ordering.



Cordless Radial Press , HHYD-1632

Pressing Aluminum Plastic Tubes, PEX Pipes, PB pipes with copper fittings, copper adapters.



Characteristics:

- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Powerful 18V Li-ion battery with low battery warning.



Model	HHYD-1632
Output force	3.2 ton
Stroke	35mm
Battery capacity	350 times press cycles(TH 20 PEX pipe)
Pressing times	5s-8s
Battery	18V/4.0Ah Li-ion
Mould type	round
Pressing jaws	TH16,TH20, TH26, TH32
Weight(Kg)	18
Packing size(mm)	585×500×170

Manual Hydraulic Radial Press , HHF-1632

Pressing Aluminum Plastic Tubes, PEX Pipes, PB pipes with copper fittings, copper adapters.



Characteristics:

- Aluminum pump lever and housing result in low weight.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual retraction in case of need.
- Faster operation with less force thanks to the 2-stage hydraulic system.

Model	HHF-1632
Output force	6.5 ton
Stroke	35mm
Crimp range(mm)	16-32
Mould type	round
Crimping dies	TH16,TH20, TH26, TH32
Weight(Kg)	19
Packing size(mm)	680×420×145

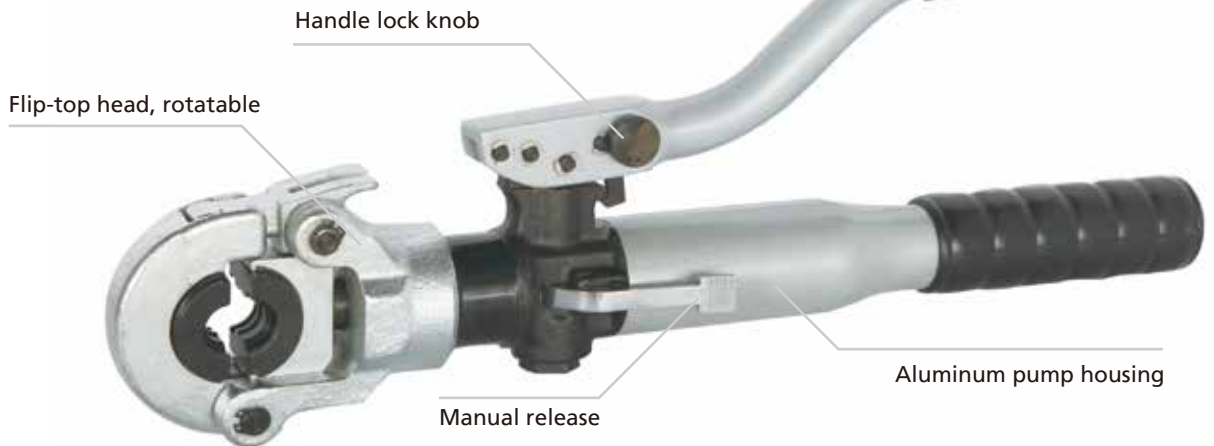


Manual Hydraulic Radial Press , HHF-32L

Pressing Aluminum Plastic Tubes, PEX Pipes, PB pipes with copper fittings, copper adapters.

Characteristics:

- Closed crimping head, flip top style, rotatable
- Aluminum pump lever and housing result in low weight.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual retraction in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Sturdy steel storage box



Model	HHF-32L
Output force	6.5 ton
Crimp range(mm)	16-32
Mould type	round
Crimping dies	16,20,25,32
Weight(Kg)	8.2
Packing size(mm)	610×210×110



Manual Hydraulic Radial Press , HHF-32Y

Pressing Aluminum Plastic Tubes, PEX Pipes, PB pipes with copper fittings, copper adapters.

with built-in safety valve



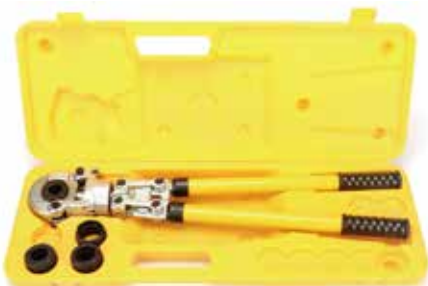
Characteristics:

- Rugged and durable
- Rotatable flip-top head
- Faster operation with less force thanks to the 2-stage hydraulic system
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.

Model	HHF-32Y
Output force	8 ton
Crimp range(mm)	16-32
Mould type	round
Crimping dies	16,20,25,32
Weight(Kg)	7
Packing size(mm)	550×130×240

Manual Radial Press , HHF-32S

Pressing Aluminum Plastic Tubes, PEX Pipes, PB pipes with copper fittings, copper adapters.



Characteristics:

- lip-top crimping head, totating 360°
- Telescopic lever handles
- Fast change of pressing dies
- Effort-saving and low maintenance mechanical drive
- Plastic carry case

Model	HHF-32S
Crimp range(mm)	16-32
Mould type	round
Crimping dies	16,20,25,32
Weight(Kg)	6.3
Packing size(mm)	610×210×110



Cordless Hydraulic Axial Press , HHZD-1632SA

2-in-1 battery powered hydraulic tool

Characteristics:

- Output force 1.3 ton
- Two usage
- Easy use, high performance
- High performance 18V/2.0Ah Li-ion battery



Two work heads: one for axial pressing, the other for expanding



Each tool kit includes:

- Cordless drive unit, 1 pc
- Pressing adapter, 1 pc
- Expanding adapter, 1 pc
- Pressing jaws, 4 pairs(16mm, 20mm, 25mm, 32mm)
- Expander heads, 3 pcs (16x2.2mm & 20x2.8mm, 25x3.5mm, 32x4.4mm)
- Manual pipe cutter, 1 pc
- 18V/2.0Ah Li-on battery, 2 pcs
- Charger, 1 pc
- Plastic carry case, 1 pc

Packing size(mm):700x310x115
Weight: 8Kg



Cordless Hydraulic Axial Press , HHZD-4050

2-in-1 battery powered hydraulic tool



Characteristics:

- Output force 1.3 ton
- Two usage
- Easy use, high performance
- High performance 18V/4.0Ah Li-ion battery



Each tool kit includes:

- Cordless drive unit, 1 pc
- Pressing adapter, 1 pc
- Expanding adapter, 1 pc
- Pressing jaws, 2 pairs(40mm, 50mm)
- Expander heads, 2 pcs (40x4.0mm, 50x4.5mm)
- Manual pipe cutter, 1 pc
- 18V/4.0Ah Li-on battery, 2 pcs
- Charger, 1 pc
- Plastic carry case, 1 pc

Packing size(mm):700x310x115

Weight: 9Kg

Cordless Hydraulic Axial Press , HHZD-1632



Characteristics:

- Output force 1.3 ton
- Lightweight and portable
- Easy use, One-hand operation
- High performance 12V/1.5Ah Li-ion battery
- LED light for illuminating working area



Each tool kit includes:

- Manual Hydraulic Axial Press, 1 pc
- Cordless pressing tool, 1 pc
- Manual expanding tool, 1 pc
- Pressing jaws, 2 pairs(16 & 20mm, 25 & 32mm)
- Expander heads, 3 pcs (16x2.2mm & 20x2.8mm, 25x3.5mm, 32x4.4mm)
- Manual pipe cutter, 1 pc
- 12V/15Ah Li-on battery, 2 pcs
- Charger, 1 pc
- Plastic carry case, 1 pc

Packing size(mm):500x400x150

Weight: 7Kg



Manual Hydraulic Axial Press, HHLG-1632M

Free of flame, heat, solder or solvent



Characteristics:

HHLG-1632M manual hydraulic axial press tool kit are specifically designed to press PEX pipe to ensure a simple effective joint. The tools are made from the highest quality materials and are designed to give years of trouble free service.

Each tool kit includes:

- Manual Hydraulic Axial Press
- Two sets of pressing jaws
- Manual expanding tool with 3 expander heads (16-20, 25, 32 mm)
- Manual pipe cutter
- Plastic carry case

Stroke: 45 mm

Crimp range: $\Phi 16-\Phi 32$ mm

Packing size (mm): 480x370x120

Weight: 5.5 kg



1. Cut the pipe to be joined cleanly and squarely, slip the jointing sleeve over the end of the pipe with the beveled end of the sleeve facing outwards and the grooved end of the sleeve at the furthest point from the end of pipe. Expand the pipe using the Manual Expand Tool in the tool kit.

2. Insert the fitting into the expanded end of the pipe until the fitting reaches the pipe stop. Slide the jointing sleeve towards the fitting. Position the jointing sleeve and the fitting squarely with the jaws of the Manual Hydraulic Axial Press. Draw the sleeve towards the fitting by closing the jaws until the sleeve reaches the shoulder of the fitting.

3. Inspect the joint to ensure the sleeves are drawn all the way to the fitting shoulder and the beveled end of the sleeve is towards the fitting.





PIPE TOOLS
**EXPANDING
TOOLS**

HYDRARITE®

Cordless Hydraulic Expander, HHYD-38

For expanding soft copper tubings $\varnothing 10-38\text{mm}$
For efficient, fitting free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems

Characteristics:

- Lightweight and portable
- Easy use, One-hand operation
- LED light for illuminating working area
- Built-in safety device
- Fully intelligent chip control
- Can be operated in small spaces

Expanding range: $\varnothing 10-\varnothing 38\text{mm}$
Packing size(mm): $700 \times 310 \times 115$
Weight: 7 kg



- Each tool kit includes:**
Cordless expanding tool, 1 pc
Expander heads, 8 pcs
Manual pipe cutter, 1 pc
Deburrer, 1 pc
12V/1.5Ah Li-on battery, 2 pcs
Charger, 1 pc
Plastic carry case, 1 pc

Model	Expanding range (mm)	Expander heads (in.)	Wall thickness of copper tubing (mm)	Weight (kg)	Packing (cm)
HHYD-38	$\varnothing 10 \sim \varnothing 38$	$3/8", 1/2", 5/8", 3/4", 7/8", 1, 1\frac{1}{8}, 1\frac{3}{8}, 1\frac{5}{8}$	1.0	7	$70 \times 21 \times 11$



Cordless Hydraulic Expander, HHYD-32

For expanding Aluminum Plastic Tubes, PEX Pipes, PB pipes
Ø16-32mm
For efficient, fitting free installation of pipes in sanitary
heating, gas, refrigeration and air-conditioning systems

Characteristics:

- Lightweight and portable
- Easy use, One-hand operation
- LED light for illuminating working area

Expanding range: $\Phi 16-\Phi 32\text{mm}$
Packing size(mm): 700x310x115
Weight: 7 kg



Each tool kit includes:

- Cordless expanding tool, 1 pc
- Expander heads, 3 pcs (16x2.2mm & 20x2.8mm, 25x3.5mm, 32x4.4mm)
- Manual pipe cutter, 1 pc
- Deburrer, 1 pc
- 12V/1.5Ah Li-on battery, 2 pcs
- Charger, 1 pc
- Plastic carry case, 1 pc

Model	Expanding range (mm)	Expander heads (in.)	Wall thickness of copper tubing (mm)	Weight (kg)	Packing (cm)
HHYD-32	Ø16~Ø32	16x2.2, 20x2.8, 25x3.5, 32x4.4	1.0	7	70x21x11



PIPE TOOLS
**EXPANDING
 TOOLS**

HYDRARITE®

Manual Hydraulic Expanding Tool

For expanding soft copper tubings Ø10-38mm
 For efficient, fitting free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems

HHKG-38B



Characteristics:

- Easy setup, one hand operation and thumb release, minimizing on-the-job fatigue and increasing productivity.
- With its small pistol-shape design, the tool can fit in the smallest of spaces.
- With hydraulic pressure, this lightweight tool by a few strokes allows a perfect expansion of soft copper tubes.



Kit contents: hydraulic expanding tool with expander heads, deburrer, in a plastic carry case.



Model	Expanding range (mm)	Expander heads (in.)	Wall thickness of copper tubing (mm)	Weight (kg)	Packing (cm)
HHKG-38B	Ø10~Ø38	3/8", 1/2", 5/8", 3/4", 7/8", 1 1/8", 1 3/8", 1 5/8"	1.0	5.4	44×36×13



Manual Expanding Tool , HHKG-32D

For expanding soft copper tubings Ø6.5-28.5mm
For efficient, fitting free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems



Characteristics:

- Lightweight aluminum handles
- Long lever arm reduces effort required
- Ergonomic handles
- Durable expander heads



Model	Expanding range (mm)	Expander heads (in.)	Wall thickness of copper tubing (mm)	Weight (kg)	Packing (cm)
HHKG-32D	Ø6.5~Ø28.5	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1 1/8"	1.0	3.5	44×36×13

Manual Expanding Tool , HHKG-32

For expanding Aluminum Plastic Tubes, PEX Pipes, PB pipes Ø16-32mm
For efficient, fitting free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems



The tool kit include: manual expanding tool with expander heads, internal and external deburrer, tube cutter, in a plastic carry case.

Characteristics:

- Lightweight aluminum handles
- Long lever arm reduces effort required
- Ergonomic handles
- Durable expander heads



Model	HHKG-32
Expanding range(mm)	Ø16~Ø32
Expander heads	16×2.2, 20×2.8, 25×3.5, 32×4.4
Wall thickness of pipe(mm)	1.0
Weight(Kg)	3.5
Packing(mm)	500×220×65



PIPE TOOLS

PIPE PRESSURE TESTING

HYDRARITE®

Electric Pressure Testing Pumps

HHS-360, HHS-350, HHS-340

Testing of water lines & containers

Motor driven, time- and labour-saving, high portability/mobility for easy transport to job site

Electric pressure testing pump with wheels, HHS-360



Model	HHS-360
Voltage	220V/380V
Power	2.2KW/3KW
Pressure range	0-10Mpa
Nominal flow	10L/min
Frequency	50Hz
Motor rotation speed	1400r/min
G.W.	50kg
Packing size(mm)	730×650×400

Electric pressure testing pump with carrying handle, HHS-350



Model	HHS-350
Voltage	220V
Power	1.8KW
Pressure range	0-8Mpa
Nominal flow	9L/min
Frequency	50Hz
Motor rotation speed	2800r/min
G.W.	28kg
Packing size(mm)	550×500×320

Electric pressure testing pump with carrying handle, HHS-340



Model	HHS-340
Voltage	220V
Power	1.5KW
Pressure range	0-6Mpa
Nominal flow	8L/min
Frequency	50Hz
Motor rotation speed	2800r/min
G.W.	10kg
Packing size(mm)	400×320×200



Manual Pressure Testing Pumps

Testing of water lines & containers
Lightweight, easy and simple operation



HHS-2.5S



HHS-2.5T



HHS-2.5L



HHS-2.5G



HHS-10G

Model	Working pressure (Mpa)	Hub suction capacity
HHS-2.5S	2.5	10ml / stroke
HHS-4.0S	4.0	10ml / stroke
HHS-6.3S	6.3	10ml / stroke
HHS-2.5T	2.5	10ml / stroke
HHS-4.0T	4.0	10ml / stroke
HHS-6.3T	6.3	10ml / stroke
HHS-2.5L	2.5	10ml / stroke
HHS-4.0L	4.0	10ml / stroke
HHS-6.3L	6.3	10ml / stroke
HHS-2.5G	2.5	10ml / stroke
HHS-5G	5	25ml / stroke
HHS-6.3G	6.3	25ml / stroke
HHS-10G	10	25ml / stroke
HHS-15G	15	20ml / stroke
HHS-24G	24	20ml / stroke



BOLTING TOOLS

BOLTING THEORY

HYDRARITE®

Function of Bolts and Nuts

Threaded fasteners are used across industry to assemble products ranging from pipelines to heavy-duty earth movers and from cranes to bridges and many more. Their principle function is to create a clamping force across the joint which is able to sustain the operating conditions without loosening.

Correctly tightened bolts make use of their elastic properties, to work well they must behave like springs. When load is applied, the bolt stretches and tries to return to its original length. This creates compressive force across the joint members.

Behavior of Bolts and Nuts

Elasticity is defined in Hooke's Law of physics: The stress in a bolt is directly proportional to its strain. The stress-strain of a bolt has an elastic range and a plastic range. In the elastic range Hooke's Law is true.

All of the elongation applied within the elastic range is relieved when the load is removed. The amount of elongation increases when more load is applied. When a bolt is stressed beyond its proof load (maximum load under which a bolt will behave in an elastic manner), the elastic elongation changes to plastic deformation and the strain will no longer be proportional to the stress.

Tightening Methods

Principally there are two modes of tightening: "Uncontrolled" and "Controlled".

Uncontrolled tightening

Uses equipment and/or procedures that cannot be measured. Preload is applied to a bolt and nut assembly using a hammer and spanner or other types of impact tools.

Controlled tightening

Employs calibrated and measurable equipment, follows prescribed procedures and is carried out by trained personnel.

There are two main techniques:

1. Torque tightening

Achieves preload in a bolt and nut assembly via the nut in a controlled manner using a tool.

2. Bolt tensioning

Achieves preload in a bolt and nut assembly by stretching the bolt axially using a tool.

Tensioning requires longer bolts, and a seating area on the assembly around the nut.

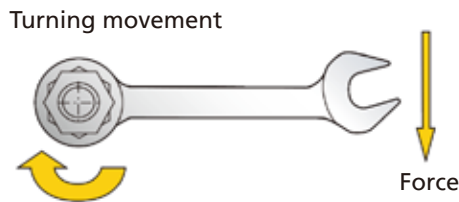


Manufacturer's rating of pressure and torque are maximum safe limits. Good practice encourages using only 80% of these ratings!



Torque Tightening

Torque tightening is the application of preload to a fastener by the turning of the fastener's nut. The force required to cause the nut to rotate is called the torque. It needs to overcome the friction in bolt and nut threads during tightening.



Torque Tightening and Preload

The amount of preload created when torquing is largely dependant on the effects of friction.

Principally there are three different "torque components":

- Torque to stretch the bolt
- Torque to overcome the friction in bolt and nut threads
- Torque to overcome friction at the nut spot face (bearing contact surface)

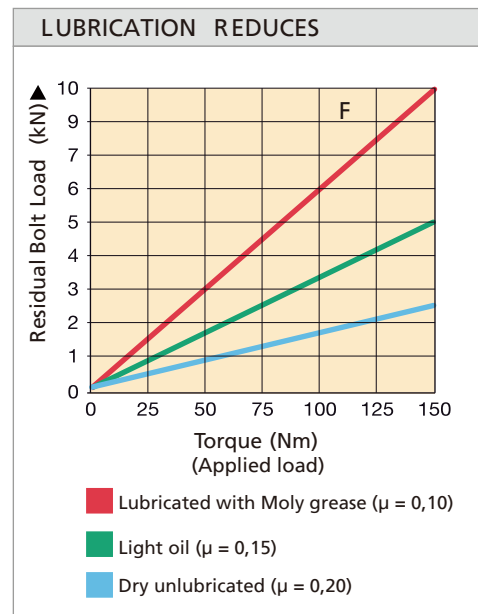
$$\text{Preload(Residual load)} = \text{Applied Torque} - \text{Frictional Losses}$$

Lubrication Reduces Friction

Lubrication reduces the friction during tightening, decreases bolt failure during installation and increases bolt service life. Variation in friction coefficients affect the amount of preload achieved at a specific torque. Higher friction results in less conversion of torque to preload. The value for the friction coefficient provided by the lubricant manufacturer must be known to accurately establish the required torque value.

Lubricant or anti-seizure compounds should be applied to both the nut bearing surface and the male threads.

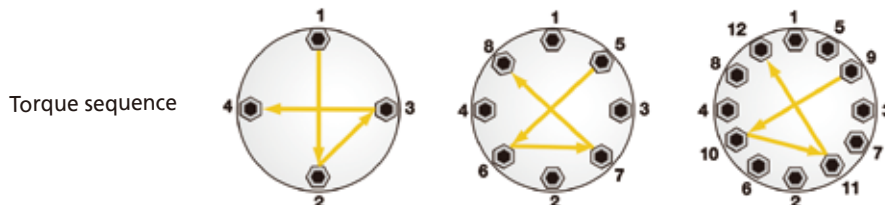
RICTION



Example of how a lubricant can reduce the effect of friction and convert more torque to bolt preload.

Torque procedure

When torquing it is common to tighten only one bolt at a time, which can result in point loading and load scatter. To avoid this situation, torque is applied in stages following a prescribed pattern:



Breakout Torque

When loosening bolts a torque value higher than the tightening torque is normally required. This is mainly due to corrosion and deformations in the bolt and nut threads.

Breakout torque cannot be accurately calculated, however, depending on conditions it can take up to 2-1/2 times the input torque to breakout.



BOLTING TOOLS

BOLTING

THEORY

HYDRARITE®

Square Drive Hydraulic Torque Wrench

Max working pressure: 700bar
 Aluminum-titanium alloy material, compact structure
 Conventional high power torque wrench

Characteristics:

- Working pressure 700 bar max.
- Designed to tighten and loosen nuts requiring high torque.
- 7 different models from 450 Nm up to 48600 Nm torque power.
- Constantly repeated accuracy $\pm 3\%$ across the full stroke.
- $360^\circ \times 180^\circ$ multi-positional swivel quick release couplings.
- Easy replaceable square and hexagon drive adapters.
- Body shroud engraved with torque pressure chart.
- Suitable for continuous operation at maximum pressure.
- High resistance with aluminium-titanium and light body.
- 360° adjustable reaction arm with safety lock feature.

The $360^\circ \times 180^\circ$ degree swivel is free to operation with no space limitation

The new locking coupler ensures the oil keep free access

Laser with the pressure-torque table enables convenient operation

Compact design with the raw material of advanced aluminum-titanium alloy, which intensifies the strength and toughness of the fuselage comprehensively

The reaction arm with 360° degree trimming style allows placing in any support point



Select the Right Torque

Choose the right torque wrench using the rule of thumb: Loosening torque equals about 250% of tightening torque.

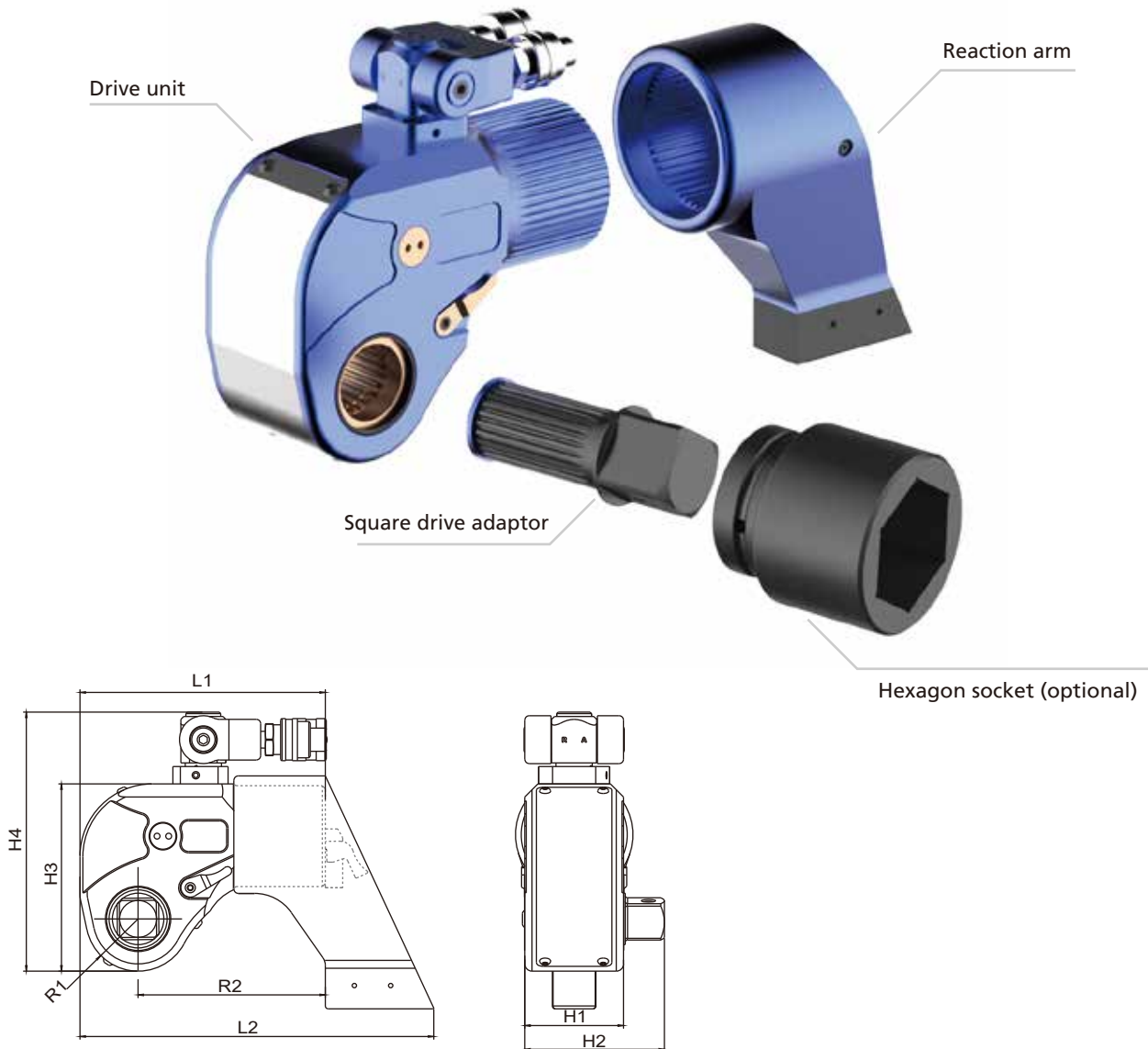


Torque Wreches Hoses

Use HYDRARITE Torque Wrech Pumps, Twin Hoses and Couplers to ensure the integrity of your hydraulic system.



Assembly Diagram of Square Drive Hydraulic Torque Wrench



How to order square drive hydraulic torque wrench:

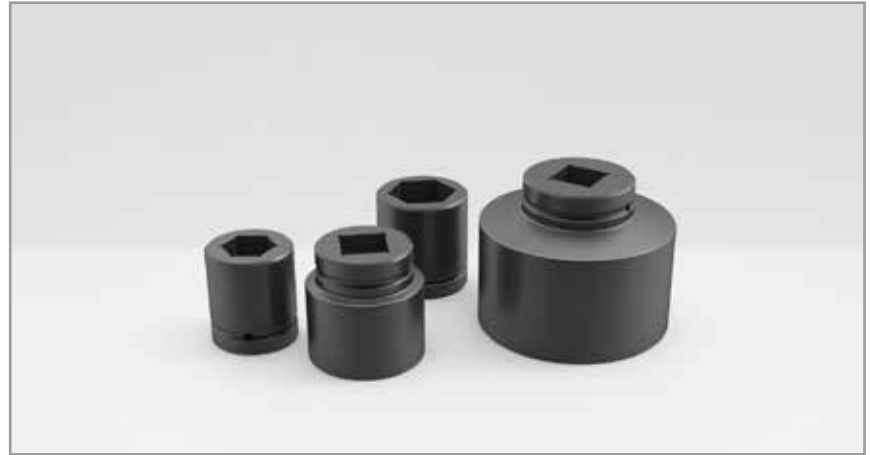
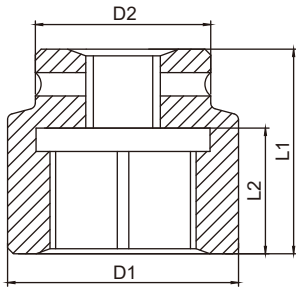
Taking HHBS-3-M22 for example, HHBS-3 is the model of wrench, M22 is the bolt size.

Type	Torque(Nm)		Bolt Size		Weight (kg)	Dimensions(mm)								Square Drive
	Min	Max	Min	Max		L1	L2	H1	H2	H3	H4	R1	R2	
HHBS-3	451	4512	M22	M48	4	169	242	68	95	127	176.5	34	134	1"
HHBS-5	752	7528	M27	M56	7	202.5	283.5	80	123	149	198.5	39	152	1½"
HHBS-8	1078	10780	M30	M64	9.1	216	309	90	134	167	216.5	47	171	1½"
HHBS-10	1551	15516	M36	M72	13.1	237.5	340.5	100	142	182	231.5	51	174	1½"
HHBS-20	2666	26664	M42	M90	25	299.5	466.5	120	183	220	269.5	59	250.5	2½"
HHBS-25	3472	34725	M48	M100	31	313	461	137	200	247	296.5	66	250.5	2½"
HHBS-35	4866	48666	M64	M120	45	361.5	496.5	153	216	282	331.5	77	271	2½"

Note: The prescribed wrench models do not include sockets. Please see page 73-74 for the selection chart of sockets.



High Strength Sockets for square drive hydraulic torque wrenches



Non-standard socket can be customized.

Standard sockets selection chart

Model	Bolt Size	Hexagon Nut A/F(mm)	Square drive	L1	L2	D1	D2
HHBS-3	M22	32	1"	59	32	58	58
	M24	36		62	32	59	59
	M27	41		65	38	67	54
	M30	46		65	38	74	54
	M33	50		70	43	79	60
	M36	55		80	52	84	60
	M39	60		85	57	89	60
	M42	65		85	58	98	70
	M48	70		90	62	104	70
HHBS-5	M27	41	1½"	85	44	74	74
	M30	46		85	44	74	74
	M33	50		90	45	79	79
	M36	55		90	45	84	84
	M39	60		100	45	94	94
	M42	65		100	45	98	80
	M45	70		105	50	104	80
	M48	75		110	50	118	85
	M52	80		115	55	118	90
M56	85	125	60	128	90		
HHBS-8	M30	46	1½"	85	44	74	74
	M33	50		90	45	79	79
	M36	55		90	45	84	84
	M39	60		100	45	94	94
	M42	65		100	45	98	80
	M45	70		105	50	104	80
	M48	75		110	50	118	85
	M52	80		115	55	118	90
	M56	85		125	60	128	90
	M60	90		125	60	139	90
	M64	95		130	65	139	90

- Carried over



Brought forward -

Model	Bolt Size	Hexagon Nut A/F(mm)	Square drive	L1	L2	D1	D2
HHBS-10	M36	55	1½"	90	45	84	84
	M39	60		100	45	94	94
	M42	65		100	45	98	80
	M45	70		105	50	104	80
	M48	75		110	50	118	85
	M52	80		115	55	118	90
	M56	85		125	60	128	90
	M60	90		125	60	139	90
	M64	95		130	65	139	90
	M68	100		135	70	144	90
	M72	105		135	70	149	90
HHBS-20	M42	65	2½"	100	52	119	119
	M45	70		120	67	128	128
	M48	75		120	67	128	128
	M52	80		130	71	128	128
	M56	85		130	71	129	129
	M60	90		140	73	139	139
	M64	95		140	73	139	139
	M68	100		140	81	148	130
	M72	105		150	89	149	130
	M76	110		150	90	158	130
	M80	115		150	98	168	130
HHBS-25	M48	75	2½"	120	67	128	128
	M52	80		130	71	128	128
	M56	85		130	71	129	129
	M60	90		140	73	139	139
	M64	95		140	73	139	139
	M68	100		140	81	148	130
	M72	105		150	89	149	130
	M76	110		150	90	158	130
	M80	115		150	98	168	130
	M85	120		150	98	178	130
	M90	130		170	98	188	130
HHBS-35	M64	95	2½"	140	73	139	139
	M68	100		140	81	148	130
	M72	105		150	89	149	130
	M76	110		150	90	158	130
	M80	115		150	98	168	130
	M85	120		150	98	178	130
	M90	130		170	98	188	130
	M95	135		170	114	198	130
	M100	145		170	122	210	152
	M105	150		190	140	216	152
	M110	155		190	140	229	152
M115	165	190	140	241	152		



BOLTING TOOLS

BOLTING

THEORY

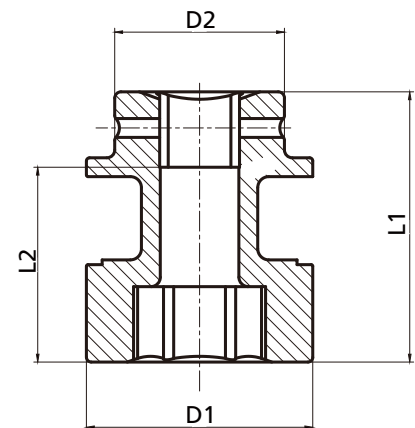
HYDRARITE®

Smart Sockets

The Smart Sockets DC series are capable of measuring the torque applied to the bolt during a torque cycle. It is a perfect audit tool for inspecting bolted joints and can function as a master calibration for various torque tools.



android app



Model	Bolt Size	Hexagon Nut A/F(mm)	Square drive	L1	L2	D1	D2	Torque Range(N.m)
DC-36A	M24	36	3/4"	86	62	72	50	150-1500
DC-36	M24	36	1"	86	62	72	54	150-1500
DC-41	M27	41		89	65	72	54	150-1500
DC-46	M30	46		89	65	72	54	150-1500
DC-50	M33	50		90	66	85	54	460-4600
DC-55	M36	55		95	71	85	54	460-4600
DC-60	M39	60		95	71	85	54	460-4600
DC-65	M42	65	110	73	99	54	460-4600	
DC-65A	M42	65	1 1/2"	110	73	99	80	660-6600
DC-70	M45	70		112	75	109	80	660-6600
DC-75	M48	75		114	77	109	80	830-8300
DC-80	M52	80		121	84	123	80	1100-11000
DC-85	M56	85		121	84	123	80	1100-11000
DC-90	M60	90		121	84	123	80	1600-16000
DC-95	M64	95	125	80	140	80	1600-16000	
DC-100	M68	100	2"	125	80	140	140	1600-16000



Low Profile Hydraulic Torque Wrench

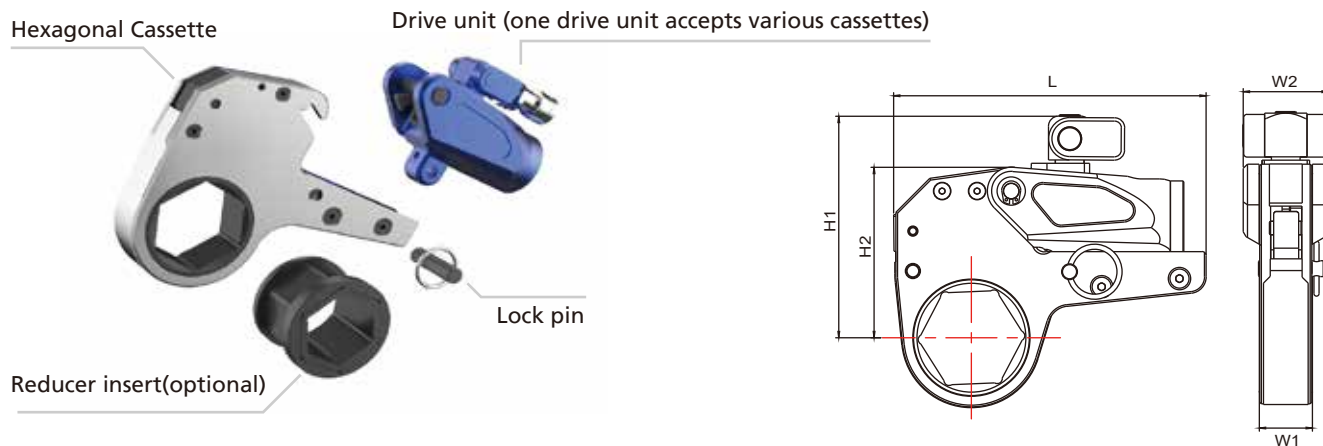
Max working pressure 700bar
 Low profile design fit in restricted access areas
 Drive Unit made of aluminum-titanium alloy
 Replaceable hexagon cassette

Characteristics:

- Repeatability $\pm 3\%$.
- 700 bar maximum operation pressure.
- 4 different models from 230 Nm to 18,500 Nm.
- Designed for tighten and loosen high torque applications.
- 360°×180° uni swivel quick release couplings.
- Maximum torque power with minimum wall thickness.
- Various cassettes, adaptors and reducers are available.
- Durable structure, aluminium-titanium alloy and light body.
- Suitable for continuous operations at maximum pressure.
- Pressure relief valve prevents over pressure.



Assembly Diagram of Low Profile Hydraulic Torque Wrench



How to order low profile hydraulic torque wrench:

Taking HHBS-K250 for example, K2 is the model of Drive Unit, K250 is the model of hexagon cassette for M50 bolt.

Model No. of drive unit	Torque(Nm)		Hexagon Nut A/F(mm)	Weight of drive unit(kg)	Weight of hexagon cassette(kg)	Dimensions(mm)				
	Min	Max				L	H1	H2	W1	W2
HHBS-K2	232	2328	19~55 60	1	1.6	196.4	125.9	102.3	32	51
	241	2414				196.4	128.5	105		
HHBS-K4	585	5858	34~65 70~80	2	4.4	245	177	135.7	42	66
	647	6474				246	187	145.7		
HHBS-K8	1094	10941	41~95 100~105	3.3	8	300	207	169	53	83
	1177	11774				301	216	178		
HHBS-K14	1852	18521	50~117	5.5	11.6	361	239	204	64	99

Note: The models in above table are Drive Units. For selection chart of hexagon cassette see Page 77.



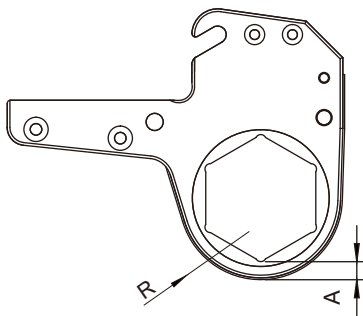
Hexagon Cassettes for Low Profile Hydraulic Torque Wrenches



Every model of low profile hydraulic torque wrench has a choice of cassettes that cover all nut sizes.

Before ordering a hexagon cassette, it is important to consider the nut-to-nut or nut-to-wall distance. Please make sure is big enough to accept the cassette.

The value of R and A in below diagram can help you to select the right cassette.



Hexagon cassette selection chart

Hexagon cassette for HHBS-K2				Hexagon cassette for HHBS-K4				Hexagon cassette for HHBS-K8				Hexagon cassette for HHBS-K14			
Model No.	R	A	Max Torque	Model No.	R	A	Max Torque	Model No.	R	A	Max Torque	Model No.	R	A	Max Torque
K219	27	16	2328	K434	36	16	5858	K841	46	22	10941	K1450	60	31	18521
K222	27	14	2328	K436	36	15	5858	K846	46	19	10941	K1455	60	28	18521
K227	27	11	2328	K441	39	15	5858	K850	46	17	10941	K1460	60	25	18521
K230	29	12	2328	K446	42	15	5858	K855	50	18	10941	K1465	60	22	18521
K232	29	11	2328	K450	44	15	5858	K860	52	17	10941	K1470	60	19	18521
K234	31	11	2328	K455	46	14	5858	K865	55	17	10941	K1475	63	19	18521
K236	31	10	2328	K460	50	15	5858	K870	58	17	10941	K1480	66	19	18521
K241	34	10	2328	K465	53	15	5858	K875	60	17	10941	K1485	69	19	18521
K246	37	10	2328	K470	56	15	6474	K880	63	16	10941	K1490	72	20	18521
K250	40	11	2328	K475	59	15	6474	K885	66	16	10941	K1495	74	19	18521
K255	43	11	2328	K480	61	15	6474	K890	69	7	10941	K14100	77	19	18521
K260	46	11	2414					K895	71	16	10941	K14105	80	19	18521
								K8100	75	17	11774	K14110	83	19	18521
								K8105	78	17	11774	K14115	87	20	18521
												K14117	87	19	18521

Reducer inserts



Reducer inserts are designed to work with hexagon cassettes. One cassette with various reducer inserts greatly increase the adaptability.

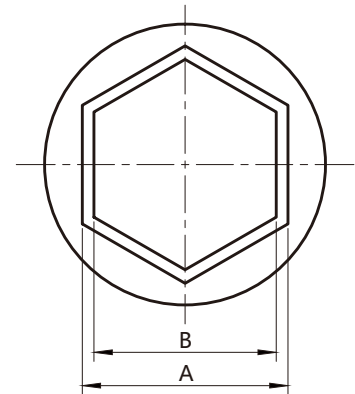
See page 78 for details of reducer inserts.



High Strength Reducer Inserts



Non-standard reducer insert can be customized



Standard reducer inserts selection chart

Model No. of drive unit	Model No. of Hexagon Cassette	Edge (S)	Reducer Inserts						Lock Ring Model No.
			Model No.	A/B (mm)	Model No.	A/B (mm)	Model No.	A/B (mm)	
HHBS-K2	K250	50	K25041	50/41	K25036	50/36	K25032	50/32	SH-50
	K246	46	K24636	46/36	K24632	46/32	K24630	46/30	SH-46
	K241	41	K24132	41/32	K24130	41/30	K24127	41/27	SH-41
	K236	36	K23630	36/30	K23627	36/27			SH-36
	K232	32	K23227	32/27					SH-32
HHBS-K4	K465	65	K46555	65/55	K46550	65/50	K46546	65/46	SH-65
	K460	60	K46050	60/50	K46046	60/46	K46041	60/41	SH-60
	K455	55	K45546	55/46	K45541	55/41	K45536	55/36	SH-55
	K450	50	K45041	50/41	K45036	50/36	K45032	50/32	SH-50
	K446	46	K44636	46/36	K44632	46/32	K44630	46/30	SH-46
	K441	41	K44132	41/32	K44130	41/30	K44127	41/27	SH-41
HHBS-K8	K436	36	K43630	36/30	K43627	36/27			SH-36
	K890	90	K89080	90/80	K89075	90/75	K89070	90/70	SH-90
	K885	85	K88575	85/75	K88570	85/70	K88565	85/65	SH-85
	K880	80	K88070	80/70	K88065	80/65	K88060	80/60	SH-80
	K875	75	K87565	75/65	K87560	75/60	K87555	75/55	SH-75
	K870	70	K87060	70/60	K87055	70/55	K87050	70/50	SH-70
	K865	65	K86555	65/55	K86550	65/50	K86545	65/45	SH-65
HHBS-K14	K860	60	K86050	60/50	K86046	60/46			SH-60
	K855	55	K85546	55/46	K85541	55/41			SH-55
	K14115	115	K14115105	115/105	K14115100	115/100	K1411595	115/95	SH-115
	K14110	110	K14110100	110/100	K1411095	110/95	K1411090	110/90	SH-110
	K14105	105	K1410595	105/95	K1410590	105/90	K1410585	105/85	SH-105
	K14100	100	K1410090	100/90	K1410085	100/85	K1410080	100/80	SH-100
	K1495	95	K149585	95/85	K149580	95/80	K149575	95/75	SH-95
	K1490	90	K149080	90/80	K149075	90/75	K149070	90/70	SH-90
	K1485	85	K148575	85/75	K148570	85/70	K148565	85/65	SH-85
K1480	80	K148070	80/70	K148065	80/65			SH-80	
K1475	75	K147565	75/65					SH-75	



The Choosing Of Hydraulic Torque Wrench

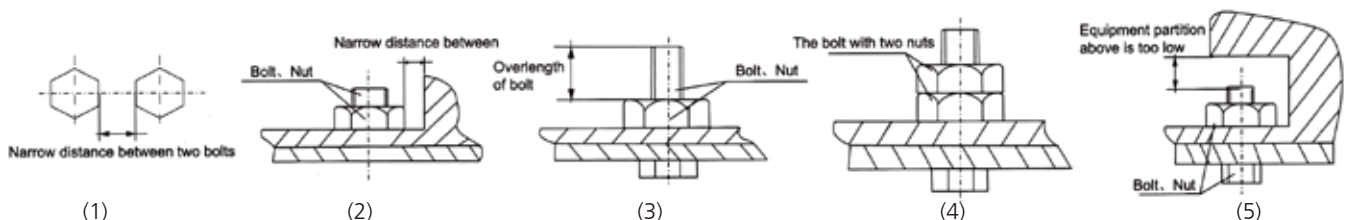
The bolt and nut pretightening force recommended chart

Strength Grade		4.8		6.8		8.8		10.9		12.9	
Minimum Breaking Strength		392Mpa		588Mpa		784Mpa		941 Mpa		1176Mpa	
Material		Q235(SS41)		35(S35C)		35CrMo(SCM3)		42CMo(SCM4)		40GrNiMoA(SNCM)	
Bolt	Diameter	Torque		Torque		Torque		Torque		Torque	
M	mm	KGM	N.M	KGM	N.M	KGM	N.M	KGM	N.M	KGM	N.M
14	22	7	69	10	98	14	137	17	165	23	225
16	24	10	98	14	137	21	206	25	247	36	363
18	27	14	137	21	206	39	284	35	341	49	480
20	30	18	176	28	296	41	402	58	569	69	680
22	32	23	225	34	333	55	539	78	765	93	911
24	36	32	314	48	470	70	686	100	981	120	1176
27	41	45	441	65	637	105	1029	150	1472	180	1764
30	46	60	588	90	882	125	1225	200	1962	240	2352
33	50	75	735	115	1127	150	1470	210	2060	250	2450
36	55	100	980	150	1470	180	1764	250	2453	300	2940
39	60	120	1176	180	1764	220	2156	300	2943	370	3626
42	65	155	1519	240	2352	280	2744	390	3826	470	4606
45	70	180	1764	280	2744	320	3136	450	4415	550	5390
48	75	230	2254	350	3430	400	3920	570	5592	680	6664
52	80	280	2744	420	4116	480	4704	670	6573	850	8330
56	85	360	3528	530	5149	610	5978	860	8437	1050	10290
60	90	410	4018	610	5978	790	7742	1100	10791	1350	13230
64	95	510	4998	760	7448	900	8820				
68	100	580	5684	870	8526	1100	10780				
72	105	660	6468	1000	9800	1290	12642				
76	110	750	7350	1100	10780	1500	14701				
80	115	830	8143	1250	12250	1850	18130				
85	120	900	8820	1400	13720	2250	22050				
90	130	1080	10584	1650	16170	2500	24500				
100	145	1400	13720	2050	20090						
110	155	1670	16366	2550	24990						
120	175	2030	19894	3050	29890						

- This is Germany standard (DIN) above, the figure in the form is the max torque of the bolt, and the recommended torque is 80% of chart figure
- The recommended tightening torque equals the figure in the form*(80~90%). For instance : M52, strength grade is 8.8, the torque is $4704 * 90\% = 4233.6 \text{ N.m}$
- It is recommended that loosening torque equals about 150% of tightening torque. For instance, the tightening torque is $4233.6 * (1.5 \sim 2) = 6350.4 \sim 8467.2 \text{ N.m}$

The Space

Because of the space restriction, please notice the location. For example:



If you meet the above conditions, the square driven Torque Wrench cannot be used., you may use the Low Profile Wrench.



Electric Hydraulic Torque Wrench Pump, HETW

Portable smart design
 Pressure control accuracy: $\pm 1\text{MPa}$
 Maximum pressure: 70MPa
 Oil: ISO VG46
 Motor Power: 1.1-1.5KW
 Voltage: 230VAC/50HZ or 115VAC/60HZ

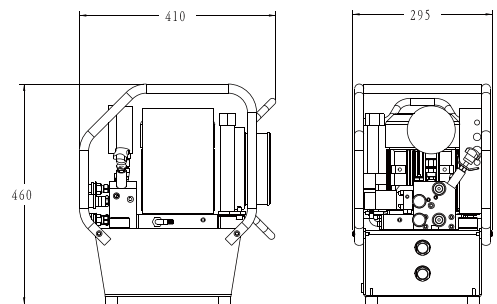
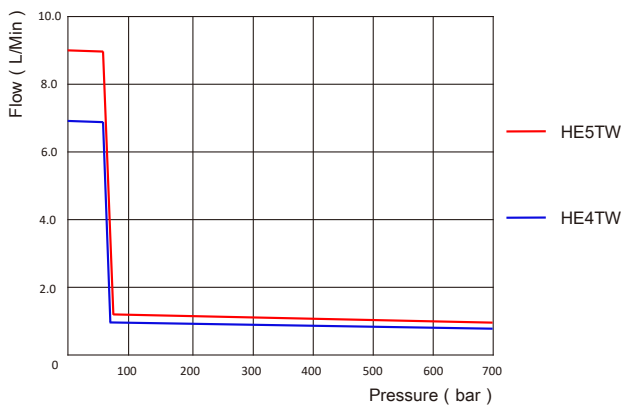
Characteristics:

- Brushless motor
- 2 stage pump head
- 24VDC control handle
- Cooling fan
- Aluminum oil tank
- Inside safety valve
- 2 sets torque wrench couplers
- Quick change pressure gauge
- HAWE electric control valve



6 meter twin hoses with couplers

HE4TW flow and pressure characteristics



Model	Motor Power (KW)	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure(L/min)	Oil available(L)	Coupler (sets)	Pressure gauge range(MPa)	Weight without oil (KG)
HE4TW	1.1	70	7	0.8	5	1	100	27
HE4TW-2	1.1	70	7	0.8	5	2	100	28
HE5TW	1.5	70	9	1	5	1	100	29
HE5TW-2	1.5	70	9	1	5	2	100	30



BOLTING TOOLS

BOLTING

THEORY

HYDRARITE®

Electric Hydraulic Torque Wrench Pump, HC4TW

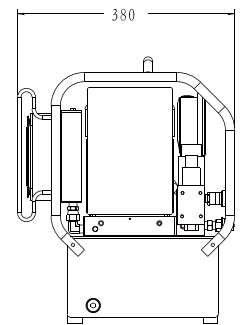
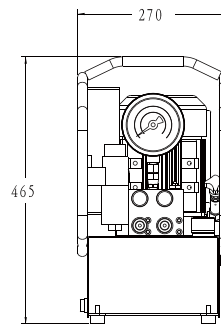
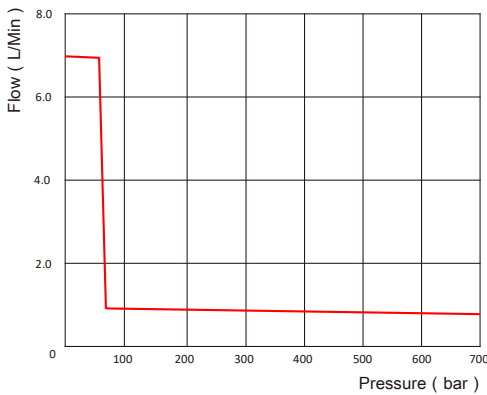
Portable smart design
 Pressure control accuracy: $\pm 1\text{MPa}$
 Maximum pressure: 70MPa
 Oil: ISO VG46
 Motor Power: 1.1KW
 Voltage: 230VAC/50HZ or 115VAC/60HZ

Characteristics:

- Brushless motor
- 2 stage pump head
- 24VDC control handle
- Cooling fan
- Inside safety valve
- 2 sets torque wrench couplers
- Quick change pressure gauge



HC4TW flow and pressure characteristics



Model	Power	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler (sets)	Pressure gauge range(MPa)	Weight without oil (KG)
HC4TW	220VAC/50HZ	70	7	0.7	5	2	100	29
HC4TW-115/60	115VAC/60HZ	70	7	0.7	5	2	100	29

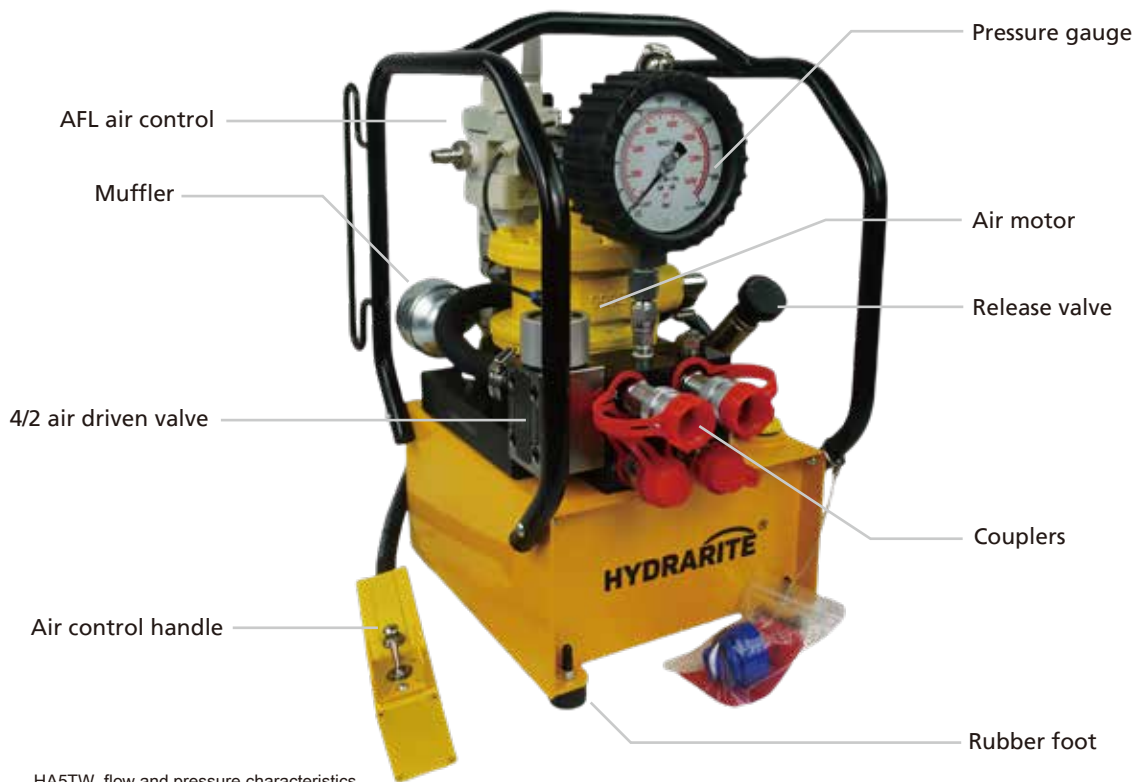


Air Powered Hydraulic Torque Wrench Pump, HA5TW

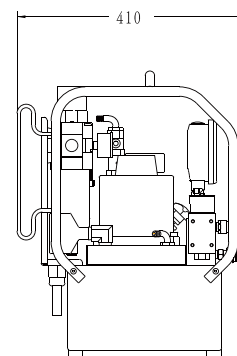
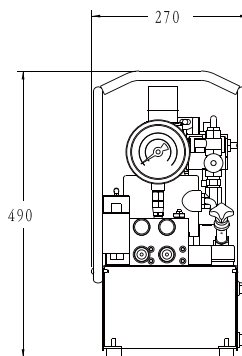
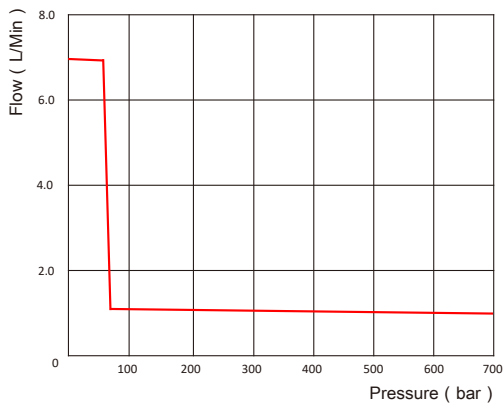
Smart and heavy-duty
Pressure control accuracy: $\pm 1\text{MPa}$
Maximum pressure: 70MPa
Oil: ISO VG46
Air control handle: 6 meters

Characteristics:

- AFL air control
- 2 stage pump head
- Rubber cover air control handle
- Air Cooling tube inside
- 2 bar low pressure air driven valve
- Inside safety valve
- 2 sets torque wrench couplers
- Quick change pressure gauge



HA5TW flow and pressure characteristics



Model	Air Consumption (M ³ /H)	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler (sets)	Pressure gauge range(MPa)	Weight without oil (KG)
HA5TW	220	70	7	1	5	2	100	27



BOLTING TOOLS TENSION TIGHTENING



Tension Tightening

Tensioning is axially stretching the bolt to achieve preload. Inaccuracies created through friction are eliminated. Massive mechanical effort to create torque is replaced with simple hydraulic pressure. A uniform load can be applied by tensioning multiple studs simultaneously. Tensioning requires longer bolts, and a seating area on the assembly around the nut.

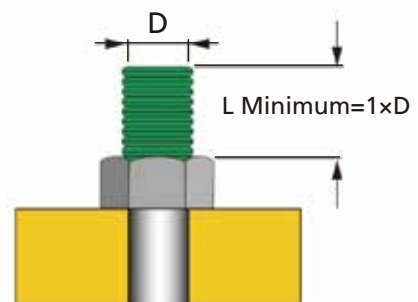
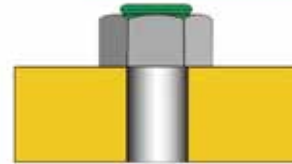
$$\text{Preload (residual load)} = \text{Applied Load} - \text{Load Losses}$$

What is Load Loss?

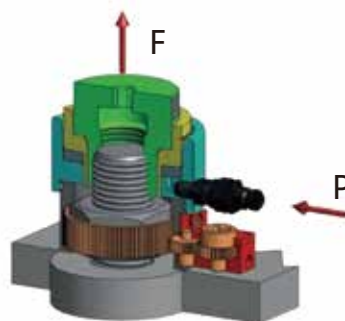
Load loss is a loss of bolt elongation depending on factors such as thread deflections, radial expansion of the nut, and embedding of the nut into the contact area of the joint. Load loss is accounted for in calculation and is added to the preload value to determine the initial Applied Load.

Tensioning Operation

Tensioning permits the simultaneous tightening of multiple bolts; the tools are connected in sequence via a high-pressure hose assembly to a single pump unit. This ensures each tool develops the exact same load and provides a uniform clamping force across the joint. This is especially important for pressure containing vessels requiring even gasket compression to affect a seal.



The change bushing of the bolt tensioning cylinder is threaded onto the projecting thread. The turning sleeve encloses the nut.



The desired pressure is generated by an external high pressure pump. This creates an elongation in the bolt. The pressure is calculated beforehand using the initial tensioning force of the bolt and the effective piston surface.



When the pressure has been achieved, the nut is threaded onto the support surface without friction by the turning sleeve. The bolt tensioning cylinder can be removed once the pressure is released.



Manufacturer's rating of pressure and torque are maximum safe limits. Good practice encourages using only 80% of these ratings!



Two-stage Bolt Tensioners



HHLS-TT36

Max working pressure: 1500bar
Specially designed for wind generator set
Two-stage cylinder design with smaller outside diameter

Characteristics:

- Two-stage cylinder design increases the tensioning length.
- Made of special high strength steel, rust-proof and corrosion resistant surface treatment.
- Smaller outside diameter permits use in narrow space .
- Spring return and overtravel protection suits frequent operation.
- Operated by ultra-high pressure hand pump or electric pump.



Model	Max working pressure (Bar)	Load capacity (KN)	Stroke (mm)	Effective area (cm ²)	Number of load cells	Thread size	A/F	Closed height (mm)	Outside diameter (mm)
HHLS-TT36	1500	728	8	49.5	2	M36×4	55	379	88
HHLS-TT42	1500	878	10	59.7	2	M42×4.5	65	273	98
HHLS-TT48	1500	1148	10	78.2	2	M48×5	75	299	111

P.S.: The above bolt tensioners were tailored to customer's needs for bolt quality 10.9. The specifications are for your reference only. Please contact HYDRARITE if you need Bolt Tensioner suits to your needs.

Ultra-high Pressure Hand Pumps



Max working pressure: 2000bar
Hydraulic bolt tensioner pumps

Characteristics:

- Lightweight and portable high-pressure hand pump.
- Two-speed operation displaces a larger volume of oil per stroke, reducing cycle times for many testing applications.
- Built-in pressure relief valve to prevent overpressurization.
- Includes a pressure gauge, coupler and 2-meter long high pressure hose.

Model	Working pressure(bar)		Oil displacement per stroke(cc)		Output connector	Pressure gauge connector	Oil capacity (cc)	G.W. (Kg)	Packing size (cm)
	1 st stage	2 nd stage	1 st stage	2 nd stage					
HHB-180	15	1800	32	1.3	1/4BSP	1/2BSP	2200	11	59×12×17
HHB-280	20	2800	32	1.3	1/4BSP	1/2BSP	2200	11	59×12×17



BOLTING TOOLS TENSION TIGHTENING

HYDRARITE®

Electric Tensioner Pumps, EPL

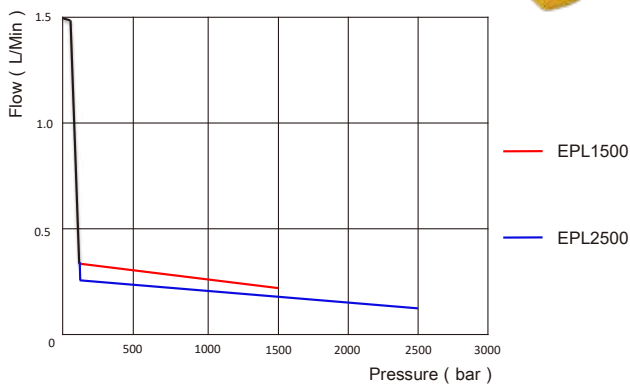
Low weight and portable
 Pressure control accuracy: ± 2 MPa
 Maximum pressure: 150-250MPa
 Oil: ISO VG46
 Motor power: 1KW
 Voltage: 230VAC/50HZ

Characteristics:

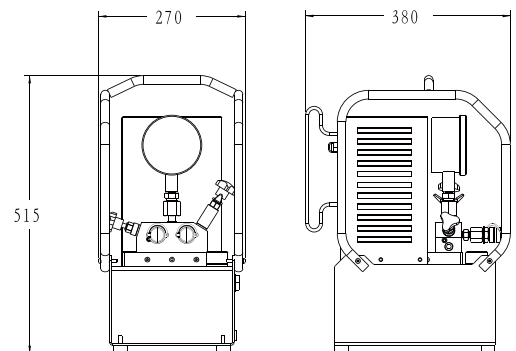
- Servo motor
- 2 stage pump head
- Aluminum oil tank
- Adjustable relief valve
- 2 outlet quick couplers
- 24VDC control handle
- Cable collector



EPL flow and pressure characteristics



Please contact HYDRARITE to order ultra-high pressure hoses and couplers to work with the Tensioner Pumps.



Model	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler	Pressure gauge range(MPa)	Weight without oil (KG)
EPL1500	150	1.5	0.25	5	116	200	23
EPL2500	250	1.5	0.15	5	125	300	23



Electric Tensioner Pumps, EP1500F5

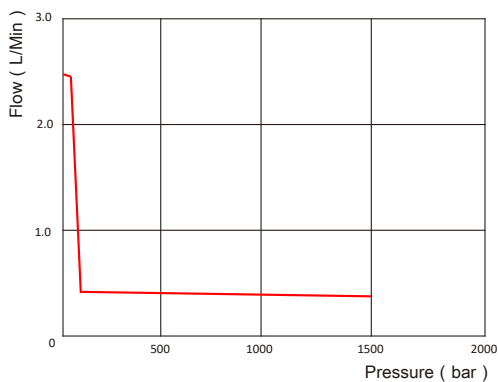
Heavy-duty design
 Pressure control accuracy: $\pm 2\text{MPa}$
 Maximum pressure: 150MPa
 Oil: ISO VG46
 Motor power: 1.1KW
 Voltage: 230VAC/50HZ or 115VAC/60HZ

Characteristics:

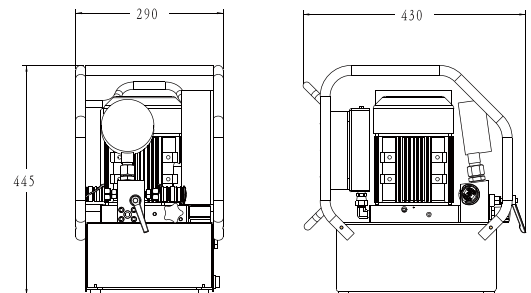
- Brushless motor
- 2 stage pump head
- Cooling fan
- Adjustable relief valve
- outlet quick couplers
- 24VDC control handle
- Cable collector
- Quick change pressure gauge



EP1500F5 flow and pressure characteristics



Please contact HYDRARITE to order ultra-high pressure hoses and couplers to work with the Tensioner Pumps.



Model	Voltage	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler	Pressure gauge range(MPa)	Weight without oil (KG)
EP1500F5	230VAC/50HZ	150	2.5	0.3	5	116	200	28
EP1500F5-115/60	115VAC/60HZ	150	2.5	0.3	5	116	200	28



BOLTING TOOLS TENSION TIGHTENING

HYDRARITE®

Electric Tensioner Pumps, EPW

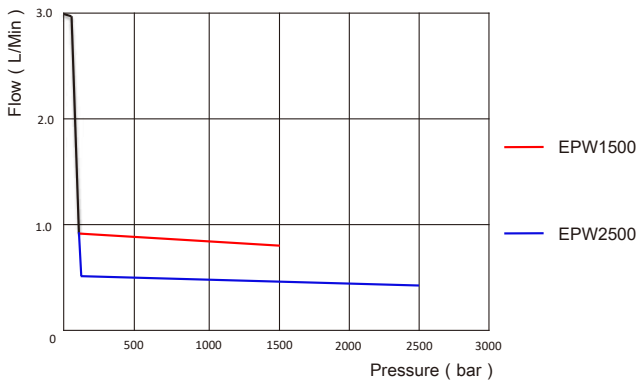
Heavy-duty and High Efficiency
 Pressure control accuracy: $\pm 2\text{MPa}$
 Maximum pressure: 150-250MPa
 Oil: ISO VG46
 Motor power: 2.2KW/380VAC

Characteristics:

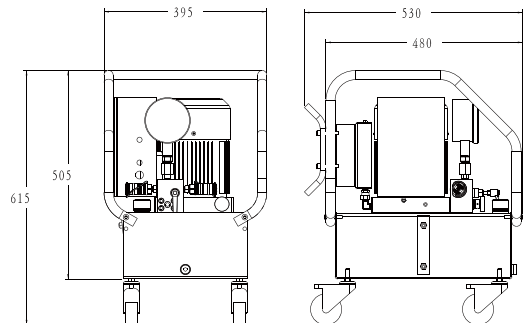
- IEC brushless motor
- 2 stage pump head
- Colling fan
- Adjustable relief valve
- 2 outlet quick couplers
- 24VDC control handle
- Cable collector
- Lock wheels and frame
- Quick change pressure gauge



EPW flow and pressure characteristics



Please contact HYDRARITE to order ultra-high pressure hoses and couplers to work with the Tensioner Pumps.



Model	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler	Pressure gauge range(MPa)	Weight without oil (KG)
EPW1500	150	3	0.8	10	116	200	46
EPW2500	250	3	0.45	10	125	300	47



Electric Tensioner Pumps, EPA

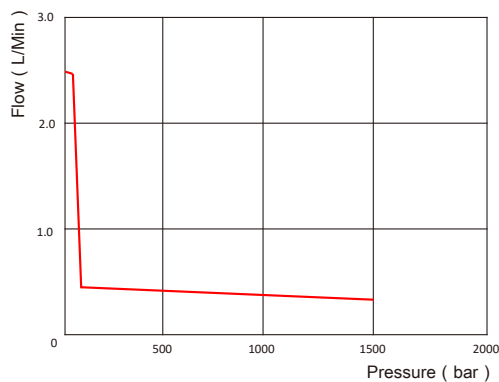
Heavy-duty and High Efficiency
 Pressure control accuracy: $\pm 2\text{MPa}$
 Maximum pressure: 150MPa
 Oil: ISO VG46
 Motor power: 1.1KW
 Voltage: 230VAC/50HZ or 115VAC/60HZ

Characteristics:

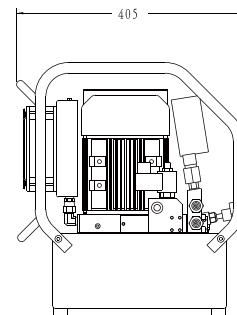
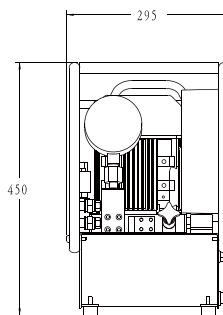
- Hand control pump and relief
- IEC brushless motor
- 2 stage pump head
- Colling fan
- Adjustable relief valve
- 2 outlet quick couplers
- 24VDC control handle
- Cable collector
- Quick change pressure gauge



EPA1500 flow and pressure characteristics



Please contact HYDRARITE to order ultra-high pressure hoses and couplers to work with the Tensioner Pumps.



Model	Voltage	Rated Pressure (MPa)	Flow rate @ 0 pressure (L/min)	Flow Rate @ rated pressure (L/min)	Oil available (L)	Coupler	Pressure gauge range(MPa)	Weight without oil (KG)
EPA1500	230VAC/50HZ	150	2.5	0.3	5	116	200	30
EPA1500-115/60	115VAC/60HZ	150	2.5	0.3	5	116	200	30



BOLTING TOOLS TENSION TIGHTENING

HYDRARITE®

Air Powered Tensioner Pumps, HAP

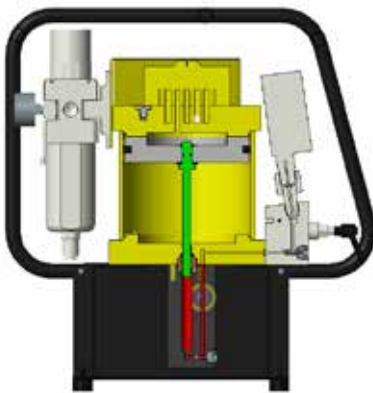
Air driven piston pump
 Pressure control accuracy: ± 2 MPa
 Maximum pressure: 150-250MPa
 Oil: ISO VG46
 Air source: 7bar

Characteristics:

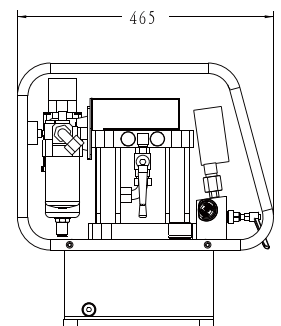
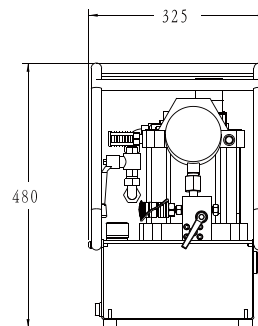
- AFL air control
- Easy control air switch
- High efficiency muffler
- Inside safety valve
- Steel oil tank
- Air-Hydraulic balance pressure control
- Highly integrated design without tubes or connectors
- Quick change pressure gauge



HAP Structural diagram



Please contact HYDRARITE to order ultra-high pressure hoses and couplers to work with the Tensioner Pumps.



Model	Ratio	Rated Pressure (MPa)	Displacement (mL)	Air(bar)	Oil available (L)	Coupler	Pressure gauge range(MPa)	Weight without oil (KG)
HAP1500	250:1	150	6.3	3-7	5	116	200	25
HAP2500	370:1	250	4.2	3-7	5	125	300	25



Battery Powered Hydraulic Nut Splitter

HHYD-24B, HHYD-1924



Surface electroplating treatment,
360 ° rotatable cutting head



HHYD-24B

Unique angle head design



HHYD-1924

Characteristics:

- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Ram retracts to original position automatically when applied force exceeds rated capacity.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.



Model	HHYD-24B	HHYD-1924
Output force	11 ton	8.0 ton
Hexagonal nut range	14-36mm	19-24mm
Battery capacity	90 cutting cycles	
Battery	18V/4.0Ah Li-ion	
Battery	2pcs	
Charger	1pc	
Seals	1set	
Weight(Kg)	16	
Packing size(mm)	585×500×170	



BOLTING TOOLS

HYDRAULIC NUT SPLITTERS

HYDRARITE®

Self-contained Hydraulic Nut Splitter, HHQ-27

Suitable for various applications: truck maintenance, pipeline industry, tank cleaning, petrochemical, iron and steel construction, mining, etc.



Characteristics:

- Unique angled head design.
- Heavy duty cutting head made of special steel.
- Rugged and durable.
- Easy and simple operation.
- Comes in plastic carry case.

Model	HHQ-27
Output force	20 ton
Bolt range	M8-M27
Hexagonal nut range	13-41mm
G.W.(kg)	6.8
Packing size(cm)	54 × 10 × 17

Self-contained Hydraulic Nut Splitter, HHQ-24

Suitable for various applications: truck maintenance, pipeline industry, tank cleaning, petrochemical, iron and steel construction, mining, etc.



Characteristics:

- Unique angled head design.
- Heavy duty cutting head made of special steel.
- Rugged and durable.
- Easy and simple operation.
- Comes in plastic carry case.

Model	HHQ-24
Output force	14 ton
Bolt range	M8-M24
Hexagonal nut range	14-36mm
G.W.(kg)	7
Packing size(cm)	62 × 10 × 16



Hydraulic Nut Splitter

Suitable for various applications: truck maintenance, pipeline industry, tank cleaning, petrochemical, iron and steel construction, mining, etc.

Characteristics:

- Compact and ergonomic design, easy to use.
- Unique angled head design.
- Heavy duty cutting head made of special steel.
- Sing acting, spring return.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.



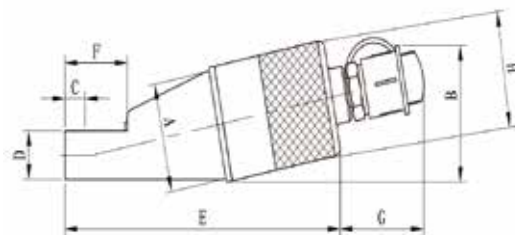
HHQ-24B



HHQ-1924

HHQ-3241

HHQ-1319



Model	Output force (ton)	Bolt range (mm)	Hexagonal nut range (mm)	A	B	C	D	E	F	G	H	Oil capacity (ml)	G.W. (Kg)	Packing size (mm)
HHQ-24B	14	M8-M24	14-36	68	50	9.5	23	185	88	44	68	40	3.6	160×120×235
HHQ-1319	5	M6-M12	10-19	45	56	10	20	138.5	32	43	48	11	1.6	210×60×60
HHQ-1924	10	M12-M16	19-24	52	60	10	26	160	40	45	54	23	2.4	240×65×65
HHQ-2432	15	M16-M22	24-32	67	72	13	30	195	55	38	68	31	4.1	260×80×80
HHQ-3241	20	M22-M27	32-41	77	77	17	34	220	65	37	79	63	5.6	285×90×90
HHQ-4150	35	M27-M33	41-50	93	86	21	45	252.5	75	35	94	130	10	230×105×105
HHQ-5060	50	M33-M39	50-60	106	91	22.5	54	290	90	33	108	213	14	360×115×115
HHQ-6070	90	M39-M48	60-75	156	124	26	72	371	110	28	157	505	36	420×175×175



BOLTING TOOLS

FLANGE

SPREADERS



Flange Spreaders

Separation of stubborn joints for inspection and maintenance particularly those fitted with ring grooves or those with external forces acting on them are often difficult to separate. The use of hammers and wedges, chain blocks and lever bars can damage joint components and present a potential safety risk. HYDRARITE Wedge Spreaders and Flange Spreader are the ideal solutions.

Hydraulic and Mechanical Wedge Spreaders

Wedge Spreaders

Friction-free, smooth and parallel wedge movement with unique interlock wedge design. Eliminates flange damage and risk of spreading arm failure.

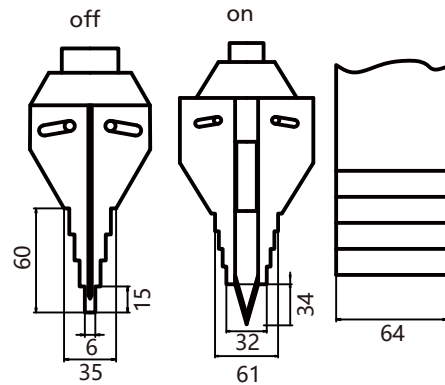
Stepped spreader arm design - each step can spread under full load
Requires very small access gap of only 6 mm
Includes safety block and stepped blocks



Self-contained Hydraulic Wedge Spreader, HHP-10

Characteristics:

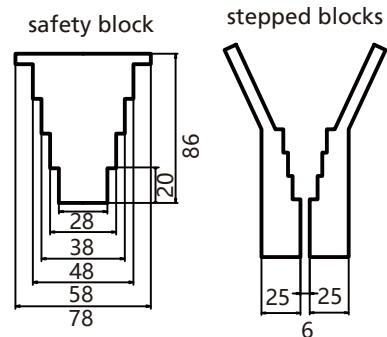
- Manual hydraulic operation.
- Use stepped blocks to increase wedge opening up to 81 mm.
- Safe and reliable hydraulic system.



Hydraulic Wedge Spreader, HHP-1481

Characteristics:

- Operated by hydraulic pump with rated pressure of 700 bar.
- Use stepped blocks to increase wedge opening up to 81 mm.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.





Hydraulic Wedge Spreader, HHP-15F



Characteristics:

- Operated by hydraulic pump with rated pressure of 700 bar.
- Use stepped blocks to increase wedge opening up to 21 mm.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.

Mechanical Wedge Spreader, HHP-8



Characteristics:

- Manual mechanical design
- Use stepped blocks to increase wedge opening up to 81 mm.

Model	Max.spreading force (Ton)	Tip clearance (mm)	Max.spread (mm)	Type	G.W. (Kg)	Packing size (cm)
HHP-10	11.1	6	81	Hydraulic type	11.5	53×17×11
HHP-1481	12.7	6	81	Hydraulic type	10.2	31×16×12
HHP-15F	14.9	10	21	Hydraulic type	11	40×16×16
HHP-8	7.2	6	81	Mechanical type	10.4	31×16×12

Note: use stepped blocks to increase wedge opening up to 81 mm, HHP-15F can up to 21mm.

Mechanical Flange Alignment Tool, HHP-FA4TM



Characteristics:

- The body is made of high-strength alloy.
- No need for slings, hooks or lifting gears, absolutely safe and precise.
- Can be installed and used in any position (horizontal or vertical)
- Lightweight, integrated mechanical solution, easy to transport, suitable for remote and restricted access areas.

Model	HHP-FA4TM
Output force	4 ton
Flange thickness	30-133mm
Minimum size of bolt hole	24mm
G.W.(kg)	4.6
Packing size(cm)	37×23×10



BOLTING TOOLS

FLANGE

SPREADERS



Mechanical Flange Alignment Tool, HHP-FA1TM

It is suitable for the misalignment correction of medium-sized flanges and low-pressure flanges, providing simple solutions for traditional flanges with vertical and rotational misalignment conditions. It provides a simple, safe, and modern solution that can reduce risks and save significant labor costs. Provide a simple solution for the misalignment of small, low-pressure flanges.

Characteristics:

- The body is made of high-strength alloy.
- No need for slings, hooks or lifting gears, absolutely safe and precise.
- Can be installed and used in any position (horizontal or vertical)
- Lightweight, integrated mechanical solution, easy to transport, suitable for remote and restricted access areas.

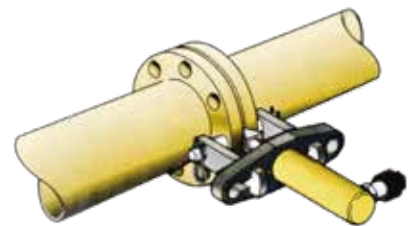


Model	HHP-FA1TM
Output force	1 ton
Flange thickness	14-82mm
Minimum size of bolt hole	16mm
G.W.(kg)	2.3
Packing size(cm)	29×15×3.5

Hydraulic Flange Spreaders, HHP-538, HHP-1054

Characteristics:

- Lightweight, ergonomic design for ease of use.
- Adjustable jaw widths from 70 to 216 mm for a wide range of applications.
- Single-acting, spring return.
- Supplied with R2 3/8 male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.



ASA rating (bar)	Pipe size(mm)	
	HHP-538	HHP-1054
10	127-508	558-1066
20	63-355	406-711
27	63-304	355-609
35	63-254	304-508
62	12-152	203-406
103	12-88	101-203
172	12-63	76-101

Model	Max Flange thickness (mm)	Stud Size (mm)	Standard Wedge (mm)	Output Force (ton)	Stroke (mm)	Packing size (cm)	G.W. (kg)
HHP-538	2×57	19-28	3-28	5	38	24×23×10	6
HHP-1054	2×92	31-41	3-28	10	54	32×31×14	13.2



Backpack Gasoline Pump, CRH.M80



Characteristics:

- Free hands for climbing over obstacles in buildings, over rough terrain or on ladders.
- Fast switching from one operation to the next.
- Allows operation in a distance with extended length of hoses.

Model	CRH.M80
Working pressure	720 bar
Engine type	4-stroke gasoline
Engine power	1.2Kw
Weight	13.9kg
Length of hose	3.5 mtrs
Dimensions	30×33×38cm

Universal Hand Pump, WHW.W815



Characteristics:

- Compact and lightweight design, easy to carry from site to site.
- Pump handle swivels 180 degrees for maximum access in confined areas.
- Compatible with all the types of rescue tools.

Model	WHW.W815
Working pressure	720 bar
Oil capacity	600cm ³
Weight	4kg
Dimensions	57×12×16cm

Gasoline Duo Pump, WHS.H3000-000



Characteristics:

- Ideal for use at rescue sites where electricity is unavailable.
- Able to operate two rescue tools at the same time.
- Flexible switching between fast & normal work modes:
- higher flow/speed for quicker rescue operations.
- lower flow/speed for more tool control.

Model	WHS.H3000-000
Working pressure	720 bar
Engine type	4-stroke gasoline
Engine power	1.2Kw
Weight	13.9kg
Length of hose	3.5 mtrs
Dimensions	30×33×38cm



Multi-purpose Spreader

COE.W800, COE.W800A



COE.W800



COE.W800A

Accessories COE.EA



Pulling chain set S300



Characteristics:

- Detachable workheads for multi purposes.
- Ergonomic handle design with comfort grip.
- Two LED lights for illumination in the night & at dark worksites.



Model	COE.W800	COE.W800A
Working pressure	720 bar	720 bar
Spreading distance	720mm	720mm
Spreading force	397kN	397kN
Pulling force	80kN	80kN
Dimensions	74×28×22cm	86×28×22cm
Weight	15.8kg	17.8kg



Description	Quantity	Weight
Cutting & Pulling attachment	1 set	1.7kg
Lifting attachment	1 set	2.4kg
Door opening attachment	1 set	2.4kg
Concrete crushing attachment	1 set	1.4kg
Spreading & Tearing attachment	1 set	1.4kg
Perforating attachment	1 pc	1.2kg

Description	Quantity	Weight
Pulling chain set	2.7 mtrs	4.8kg
Multipurpose chain clamp	2 pc	1.1kg
Universal hook	1 pc	0.8kg



Hydraulic Cutter

HS.DB.C380, HS.DB.C380A



HS.DB.C380



HS.DB.C380A

Characteristics:

- Ergonomic design, easy to hold, equipped with two LED lights for illumination in the night and at dark areas. Quickly and easily cut off highway guardrails, car steering wheel rotation shafts, etc.



Model	Working pressure	Cutting force	Max opening	Cutting capacity (Material Q235)	Weight (Kg)	Packing size(cm)
HS.DB.C380	720 bar	560kN	155mm	35mm	13.5	60×17×24
HS.DB.C380A	720 bar	560kN	155mm	35mm	15.5	73×17×24

Hydraulic Combi Tool

Cutting and Spreading

BE-KJI-20CB, GYJK-33/25



BE-KJI-20CB



GYJK-33/25

Characteristics:

- Lightweight aluminum cylinder.
- Cutter head rotates 360°.
- Built-in safety valve.

Model	Working pressure	Output force	Stroke	Cutting range (Material Q235)	Weight (Kg)	Dimensions (cm)
BE-KJI-20CB	720 bar	22.6Ton	57mm	steel bar ≤20mm	18kg	62×17×20
GYJK-33/25	720 bar	22.6Ton	57mm	steel bar ≤20mm	19kg	74×19×18



Hydraulic Combi Tool

Cutting and Spreading

WES.S800, WES.S800A

Characteristics:

- Ergonomic design, easy to hold, equipped with two LED lights for illumination in the night and at dark areas.



WES.S800



WES.S800A

Model	Working pressure	Spreading distance	Max spreading force	Cutting force	Cutting capacity (Material Q235)	Steel plate thickness (Material)	Pulling distance	Pulling force	Weight (Kg)	Packing size(cm)
WES.S800	720 bar	345mm	220kN	430kN	35mm	16mm	245mm	59kN	14	69×23×17
WES.S800A	720 bar	345mm	220kN	430kN	35mm	16mm	245mm	59kN	16	80×23×17

Hydraulic Cutter Jaw, RSM.R80



Characteristics:

- Suitable for demolition work in confined areas.

Model	RSM.R80
Working pressure	720 bar
Cutter tip opening	60mm
Steel plate thickness (Material Q235)	9mm
Dimensions	36×23×8cm
Weight	4.5kg



Hydraulic Cutter Jaw, RSM.R80A



Characteristics:

- Can rotate 180 degrees
- Single person can operate independently
- Can be used under pressure

Model	RSM.R80A
Working pressure	720 bar
Cutter tip opening	85mm
Steel plate thickness (Material Q235)	4mm
Dimensions	45 × 25 × 44cm
Weight	6.5kg

Hydraulic Rescue Ram, WCW.B800



Characteristics:

- Ergonomic handle design with comfort grip.
 - Two LED lights for illumination in the night and at dark areas.
- Various interchangeable accessories for use in different rescue occasions.

Model	WCW.B800
Working pressure	720 bar
Lifting force	141kN
Pulling force	90kN
Shoring length	935mm
Extended length	320mm
Dimensions	62 × 20 × 23cm
Weight	11.5kg

Hydraulic Rescue Ram, WCW.B800A



Characteristics:

- Dual stage hydraulic ram design.
- Strong lifting force and light weight.
- Can provide a maximum top force of 110kn.

Model	WCW.B800A
Working pressure	720 bar
First level stroke/ Output force	310mm/227kN
Second level stroke/ Output force	296mm/109kN
Shoring length	1082mm
Extended length	476mm
Dimensions	48 × 29 × 13cm
Weight	13.5kg



When you need to make reliable crimping to cable terminals, HYDRARITE crimping tools can always offer you efficient and satisfactory solutions.

Battery powered crimping tools

More intelligence.
More performance.
More ergonomic.

Battery powered crimping tools are the most efficient solution for crimping applications. Simply press a button to apply the required force. Two-stage hydraulic system automatically switches to power stroke after a fast speed. When the crimping is complete, the ram retracts automatically.

Hand-operated hydraulic crimping tools

Hand-operated hydraulic tools are the most convenient and safest types to generate precise and high operating forces by hand. All tools feature a two-stage hydraulic system with fast feed and power stroke upon reaching counter pressure.

Hydraulic crimping heads

Hydraulic crimping heads can be individually configured with hydraulic pumps for special applications. We offer an extensive range of crimping heads for your options, available with bigger output force and broader crimping range.

Mechanical crimping tools

The mechanical crimping tools are made from high quality materials, are rust-proof and surface-finished. The products are set apart by their extremely long service life.

Hexagonal crimping



For crimping tubular copper cable lugs and connectors "standard type", tubular cable lugs for switchgear connections, compression cable lugs and connectors to DIN 46235/DIN 46267, aluminum cable lugs and connectors

Other crimping types are available on request.





Battery Powered Universal Tool, HHZD-300Y

A new generation of electric hydraulic crimping tools, operated by one hand, are ultra light and convenient.



Characteristics:

- Flip-top head enables quick change of crimping dies.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHZD-300Y	7 Ton	17 mm	150 crimping cycles	16-300 mm ²	3s-6s (Depend on the size of cable)	18V/2.0 Ah Li-ion	16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 mm ²	10	690×305×115

Battery Powered Universal Tool, HHZD-240DY

A new generation of electric hydraulic crimping tools, operated by one hand, are ultra light and convenient.



Characteristics:

- Flip-top head enables quick change of crimping dies.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Weight (Kg)	Packing size(mm)
HHZD-240DY	7 Ton	30 mm	160 crimping cycles	16-240 mm ²	3s-6s (Depend on the size of cable)	18V/2.0Ah Li-ion	9.5	690×305×115



Battery Powered Universal Tool, HHZD-4H

4 in 1

- Crimping**
- Cutting**
- Punching**

One head for crimping, cutting and punching - one tool for all Lightweight and well-balanced. Interchangeable crimping dies, cutting blades and punching adapter. Only seconds of time is needed to switch crimping, cutting and punching functions.

Characteristics:

- One universal head to complete crimping, cutting and punching jobs.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Swivel head rotates 180°



Crimping head



Indent crimping head

One button operation

Manual retraction in case of need



Cutting head

Slip-proof housing



Knockout punching head

Status indication with LED Display

Powerful 18V/2.0Ah Li-ion battery





With crimping head



With indent crimping head



With cutting head



With knockout punch head



Model	HHZD-4H
Hydraulic Ram Output	7 Ton
Ram stroke	38mm
Battery capacity	40 cutting cycles 160 crimping cycles 50 punching cycles
Cutting range	Ø50mm(Cu/Al and armoured cable)
Crimping range	16-300 mm ²
Punching range	Ø22-Ø60mm
Battery	18V/2.0Ah Li-ion
Charging time	0.5 hours
ACCESSORIES	
Crimping dies	16,25,35,50,70,95,120,150,185,240, 300 mm ²
Punching dies	22,27,34,43,49,60 mm
Qty of battery	2 pcs
Charger	1 pc
Blade	1 set
Adapter for crimping	1 pc
Adapter for punching	1 pc
Draw stud M20×1.5	1 pc
Draw stud M10×1	1 pc
Spacer	1 pc
Seals	1set
Weight(Kg)	21.4
Packing size(mm)	440×320×260



Battery Powered Universal Tool, HHYD-60HL

3 in 1

- Crimping**
- Cutting**
- Punching**

One head for crimping, cutting and punching - one tool for all. Lightweight and well-balanced. Interchangeable crimping dies, cutting blades and punching adapter. Only seconds of time is needed to switch crimping, cutting and punching functions.

with continuous crimping function



Characteristics:

- One universal head to complete crimping, cutting and punching jobs.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.



Crimp copper lug
16-300mm² or
aluminum lug
10-240mm²



Cut Cu/Al wire or
armoured cable up
to Φ 40mm



Punch holes Φ
22- Φ 60mm



Model	HHYD-60HL
Hydraulic Ram Output	6 Ton
Ram stroke	42mm
Battery capacity	90 cutting cycles 320 crimping cycles 100 punching cycles
Cutting range	Φ 40mm(Cu/Al and armoured cable)
Crimping range	16-300 mm ²
Punching range	Φ 22- Φ 60mm
Battery	18V/4.0Ah Li-ion
Charging time	2 hours
ACCESSORIES	
Crimping dies	16,25,35,50,70,95,120,150,185,240, 300 mm ²
Punching dies	22,27,34,43,49,60 mm
Qty of battery	2 pcs
Charger	1 pc
Blade	1 set
Adapter for crimping	1 pc
Adapter for punching	1 pc
Draw stud M20×1.5	1 pc
Draw stud M10×1	1 pc
Spacer	1 pc
Seals	1set
Weight(Kg)	21.4
Packing size(mm)	585×500×170



Battery Powered Hydraulic Crimping Tool, HHYD-400L

- C-head with large 42 mm opening width
- Balanced centre of gravity for easy handling
- Very large crimping range up to 400 mm²
- Wide crimping

with continuous crimping function

Open C-crimping head with 42 mm width, rotating 330°

Characteristics:

- Open C-crimping head with 42 mm width, rotating 330°.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.



Model	HHYD-400L
Hydraulic Ram Output	11 Ton
Ram Stroke	42 mm
Battery capacity	150 crimping cycles
Crimping range	16-400 mm ²
Crimping times	6s-18s(Depend on the size of cable)
Battery	18V/4.0Ah Li-ion
Charging time	2 hours
ACCESSORIES	
Crimping dies	16,25,35,50,70,95,120,150,185,240,300,400 mm ²
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	17.3
Packing size(mm)	585×500×170



Battery Powered Universal Tool, HHYD-60H

3 in 1

- Crimping
- Cutting
- Punching



One head for crimping, cutting and punching - one tool for all
Lightweight and well-balanced.
Interchangeable crimping dies, cutting blades and punching adapter.

Only seconds of time is needed to switch crimping, cutting and punching functions.

Characteristics:

- One universal head to complete crimping, cutting and punching jobs.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Crimping range	Cutting range	Punching range	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-60H	6 Ton	42 mm	16-300 mm ²	Ø40mm(Cu/Al and armoured cable)	Ø22-Ø60mm	18V/4.0 Ah Li-ion	16,25,35,50,70,95,120,150,185,240,300 mm ²	21.4	585×500×170

Battery Powered Hydraulic Crimping Tool, HHYD-400E



Characteristics:

- Open C-crimping head with 42 mm width, rotating 330°.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-400E	11 Ton	42 mm	150 crimping cycles	16-400 mm ²	6s-18s (Depend on the size of cable)	18V/4.0 Ah Li-ion	16,25,35,50,70,95,120,150,185,240,300,400 mm ²	17.3	585×500×170



Battery Powered Hydraulic Crimping Tool, HHYD-400D



Characteristics:

- Open C-crimping head, rotating 330°.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-400D	11 Ton	32 mm	180 crimping cycles	16-400 mm ²	5s-15s (Depend on the size of cable)	18V/4.0 Ah Li-ion	16,25,35,50,70,95, 120,150,185,240, 300,400 mm ²	16.6	585×500 ×170

Battery Powered Hydraulic Crimping Tool, HHYD-400U



Characteristics:

- H-head for deep groove, rotating 350°.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-400U	11 Ton	20 mm	180 crimping cycles	16-400 mm ²	4s-12s (Depend on the size of cable)	18V/4.0 Ah Li-ion	16,25,35,50,70,95, 120,150,185,240, 300,400 mm ²	16.1	585×500 ×170

**Battery Powered Hydraulic Crimping Tool, HHYD-300H****Characteristics:**

- Flip-top head enables quick change of crimping dies.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-300H	6 Ton	18 mm	320 crimping cycles	16-300 mm ²	3s-6s (Depend on the size of cable)	18V/4.0 Ah Li-ion	16,25,35,50,70,95, 120,150,185,240, 300 mm ²	14.4	585×500 ×170

Battery Powered Hydraulic Crimping Tool, HHYD-300G**Characteristics:**

- Flip-top head enables quick change of crimping dies.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- LED Display indicates operation temperature and times.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Crimping range	Crimping times	Battery	Crimping dies	Weight (Kg)	Packing size(mm)
HHYD-300G	6 Ton	15 mm	320 crimping cycles	16-300 mm ²	3s-6s (Depend on the size of cable)	18V/4.0 Ah Li-ion	16,25,35,50,70,95, 120,150,185,240, 300 mm ²	13.7	585×500 ×170



Hand Operated Hydraulic Universal Tool, HHY-60H

3 in 1
Crimping
Cutting
Punching

Aluminum pump lever and housing result in low weight. One universal head for crimping, cutting and punching.

Built-in safety valve

Characteristics:

- Universal head, flip-top style, rotatable.
- Light weight due to high quality aluminum housing.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual release in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Closed work head, flip top style, rotatable.
- Sturdy steel storage box.



Crimp copper lug 16-300mm² or aluminum lug 10-240mm²

Cut Cu/Al wire or armoured cable up to Φ 40mm

Punch holes Φ 22- Φ 60mm



Model	HHY-60H
Hydraulic Ram Output	6.5 Ton
Ram Stroke	42 mm
Cutting range(mm)	Φ 40(Cu/Al and armoured cable)
Crimping range(mm ²)	16-300
Punching range(mm)	Φ 22- Φ 60
G.W.(kg)	14.5
Packing size(mm)	610x210x110
Accessories	
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
Punching dies(mm)	22,27,34,43,49,60
Blades	1 set
Crimping adapter	1 pc
Punching adapter	1 pc
Draw stud M20x1.5	1 pc
Draw stud M10 x 1	1 pc
Spacer	1 pc
Sealing ring of cylinder	1 set
Sealing ring of safety valve	1 set



Hand Operated Hydraulic Crimping Tool, HHY-400E

Aluminum pump lever and housing result in low weight

C-head with large 42 mm opening width
Very large crimping range up to 400 mm²
Wide crimping

Built-in safety valve



Characteristics:

- Open C crimping head with 42 mm width, rotatable.
- Large crimping area up to 400mm².
- Light weight due to high quality aluminum housing.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual release in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Sturdy steel storage box.



Model	HHY-400E
Hydraulic Ram Output	11 Ton
Ram Stroke	39.5 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	12.1
Packing size(mm)	610X210X110

Hand Operated Hydraulic Crimping Tool, HHY-400D

Aluminum pump lever and housing result in low weight

Open C head, large crimping area up to 400mm²

Built-in safety valve



Characteristics:

- Open C crimping head, rotatable, large crimping area up to 400mm².
- Light weight due to high quality aluminum housing.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual release in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Sturdy steel storage box.



Model	HHY-400D
Hydraulic Ram Output	11 Ton
Ram Stroke	30.5 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	11.9
Packing size(mm)	610X210X110



Hand Operated Hydraulic Crimping Tool, HHY-400U

Aluminum pump lever and housing result in low weight

Built-in safety valve



Characteristics:

- H-head for deep groove applications.
- Large crimping area up to 400mm².
- Light weight due to high quality aluminum housing.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual release in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Sturdy steel storage box.



Model	HHY-400U
Hydraulic Ram Output	11 Ton
Ram Stroke	20.5 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	9.3
Packing size(mm)	610X210X110

Hand Operated Hydraulic Crimping Tool , HHY-300G

Aluminum pump lever and housing result in low weight.

Extremely easy to handle, even with frequent operations in tight locations

Built-in safety valve



Characteristics:

- Compact flip-top crimping head, rotatable.
- Light weight due to high quality aluminum housing.
- Thanks to the automatic retraction function, poor crimps are avoided, more safety and shorter intervals between crimping operations.
- Manual release in case of need.
- The rotatable head permits to work in tight locations.
- Faster operation with less force thanks to the 2-stage hydraulic system.
- Sturdy steel storage box.



Model	HHY-300G
Hydraulic Ram Output	6.5 Ton
Ram Stroke	18 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	9
Packing size(mm)	610X210X110



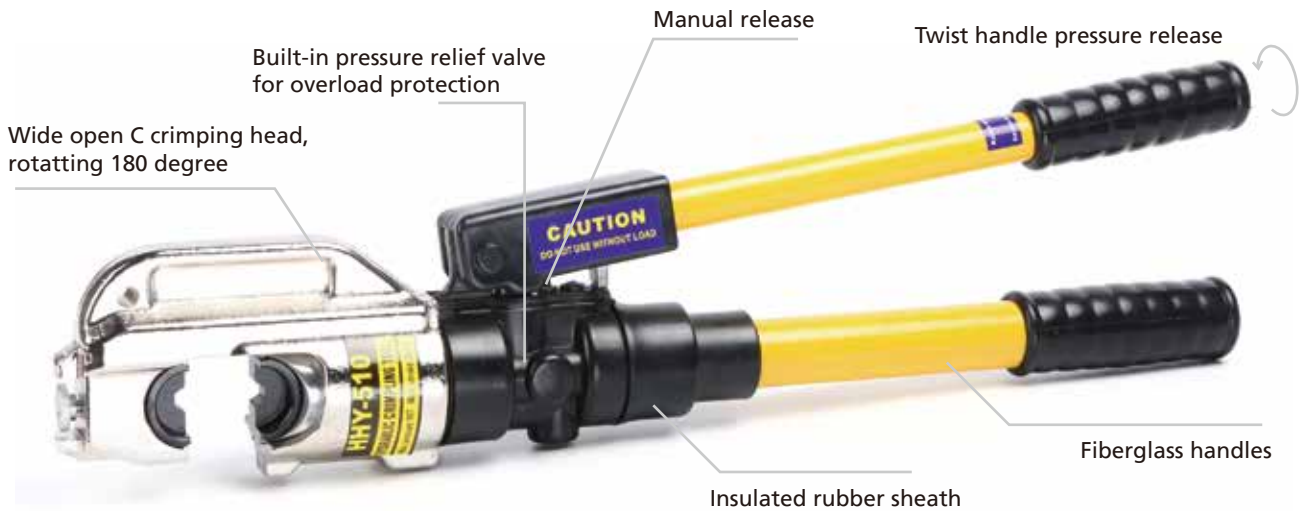
Hand Operated Hydraulic Crimping Tool, HHY-510

Designed for the electrical contractor and electric utility lineman who is confronted with larger cable diameter and larger connectors.

Characteristics:

- Strong, lightweight fiberglass handles.
- Wide open C crimping head, rotating 180 degree
- Twist handle pressure release
- Built-in pressure relief valve for overload protection
- Two-stage pumping action for rapid ram advance to the connector hold position with minimum pumping action.
- Molded plastic carry case.

Built-in safety valve



Model	HHY-510
Hydraulic Ram Output	11 Ton
Ram Stroke	38 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	11.9
Packing size(mm)	770X230X130



Hand Operated Hydraulic Crimping Tool, HHY-430

Designed for the electrical contractor and electric utility lineman who is confronted with larger cable diameter and larger connectors.

Built-in safety valve



Characteristics:

- Strong, lightweight fiberglass handles.
- Wide open C crimping head, rotating 180 degree
- Twist handle pressure release
- Built-in pressure relief valve for overload protection
- Two-speed ram advances fast and shifts to lower speed to complete the crimp.
- Molded plastic carry case.

Model	HHY-430
Hydraulic Ram Output	11 Ton
Ram Stroke	32 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	11
Packing size(mm)	770X230X130

Hand Operated Hydraulic Crimping Tool, HHY-35

Designed for the electrical contractor and electric utility lineman who is confronted with larger cable diameter and larger connectors.

Built-in safety valve



Characteristics:

- Strong, lightweight fiberglass handles.
- Wide open C crimping head, rotating 180 degree
- Twist handle pressure release
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Molded plastic carry case.

Model	HHY-35
Hydraulic Ram Output	11 Ton
Ram Stroke	30 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	10.9
Packing size(mm)	770X140X225

**Hand Operated Hydraulic Crimping Tools****HHY-400****Built-in safety valve****Characteristics:**

- Compact design, rugged and durable.
- Rotatable C crimping head.
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Sturdy steel storage box.

Model	HHY-400
Hydraulic Ram Output	11 Ton
Ram Stroke	30 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	10
Packing size(mm)	560X130X140

HHY-400B**Built-in safety valve****Characteristics:**

- Compact design, rugged and durable.
- Rotatable C crimping head.
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-400B
Hydraulic Ram Output	11 Ton
Ram Stroke	32 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	11.5
Packing size(mm)	770X135X240

HHY-400C**Built-in safety valve****Characteristics:**

- Compact design, rugged and durable.
- Rotatable C crimping head.
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-400C
Hydraulic Ram Output	11 Ton
Ram Stroke	30.5 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	11.3
Packing size(mm)	770X230X130



Hand Operated Hydraulic Crimping Tools

HHY-300D

Built-in safety valve



Characteristics:

- Compact design, rugged and durable.
- Rotatable flip top crimping head.
- Built-in pressure relief valve for overload protection
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-300D
Hydraulic Ram Output	8 Ton
Ram Stroke	13 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	7.7
Packing size(mm)	540X240X140

HHY-300B

Built-in safety valve



Characteristics:

- Compact design, rugged and durable.
- Rotatable H crimping head.
- Built-in pressure relief valve for overload protection
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-300B
Hydraulic Ram Output	11 Ton
Ram Stroke	18 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	8.4
Packing size(mm)	540X120X240

HHY-300

Built-in safety valve



Characteristics:

- Compact design, rugged and durable.
- Rotatable C crimping head.
- Built-in pressure relief valve for overload protection
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-300
Hydraulic Ram Output	11 Ton
Ram Stroke	17 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	9.5
Packing size(mm)	540X120X240

**Hand Operated Hydraulic Crimping Tools****HHY-300C****Built-in safety valve****Characteristics:**

- Compact design, rugged and durable.
- Rotatable C crimping head.
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-300C
Hydraulic Ram Output	11 Ton
Ram Stroke	26 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	11
Packing size(mm)	770X240X130

HHY-300E**Built-in safety valve****Characteristics:**

- Compact design, rugged and durable.
- Rotatable H crimping head.
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-300E
Hydraulic Ram Output	11 Ton
Ram Stroke	18 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	7.4
Packing size(mm)	540X120X240

HHY-400A**Characteristics:**

- Rugged, durable and affordable crimping tool.
- Molded plastic carry case.

Model	HHY-400A
Hydraulic Ram Output	14 Ton
Ram Stroke	16.5 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300,400
G.W.(kg)	15
Packing size(mm)	625X110X240



Hand Operated Hydraulic Crimping Tools

HHY-300A



Characteristics:

- Rugged, durable and affordable crimping tool.
- Molded plastic carry case.

Model	HHY-300A
Hydraulic Ram Output	9 Ton
Ram Stroke	16 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	6.4
Packing size(mm)	533X206X102

HHY-240B



Characteristics:

- Rugged, durable and affordable crimping tool.
- Molded plastic carry case.

Model	HHY-240B
Hydraulic Ram Output	11 Ton
Ram Stroke	18 mm
Crimping range(mm ²)	16-240
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240
G.W.(kg)	9.3
Packing size(mm)	640X140X160

HHY-240C



Characteristics:

- Rugged, durable and affordable crimping tool.
- Molded plastic carry case.

Model	HHY-240C
Hydraulic Ram Output	9 Ton
Ram Stroke	15.5 mm
Crimping range(mm ²)	16-240
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240
G.W.(kg)	6.3
Packing size(mm)	533X206X102

**Hand Operated Hydraulic Crimping Tools****HHY-240A****Characteristics:**

- Rugged, durable and affordable crimping tool.
- Comes in plastic carry case.

Model	HHY-240A
Hydraulic Ram Output	9 Ton
Ram Stroke	16 mm
Crimping range(mm ²)	16-240
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240
G.W.(kg)	6.3
Packing size(mm)	533X206X102

HHY-120A**Characteristics:**

- Rugged, durable and affordable crimping tool.
- Comes in plastic carry case.

Model	HHY-120A
Hydraulic Ram Output	7 Ton
Ram Stroke	12 mm
Crimping range(mm ²)	10-120
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	10,16,25,35,50,70,95,120
G.W.(kg)	4.5
Packing size(mm)	430X190X90

HHY-70A**Characteristics:**

- Rugged, durable and affordable crimping tool.
- Comes in plastic carry case.

Model	HHY-70A
Hydraulic Ram Output	5 Ton
Ram Stroke	11 mm
Crimping range(mm ²)	6-70
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	6,10,16,25,35,50,70
G.W.(kg)	2.8
Packing size(mm)	355X173X83



Hand Operated Hydraulic Crimping Tools, HHY-150

Built-in safety valve



Characteristics:

- For non-Insulated terminals and sleeves up to 150mm².
- Rotatable indentors 14-22, 38-60,70-80 and 100-150mm²
- Built-in pressure relief valve for overload protection.
- Two-speed pump to reduce cycle time.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	HHY-150
Hydraulic Ram Output	11 Ton
Ram Stroke	18 mm
Crimping range(mm ²)	14-150
Crimp pattern	Indent type
Crimping dies(mm ²)	14,22,38,60,70,80,100,150
G.W.(kg)	6.7
Packing size(mm)	560X140X230

Hydraulic Crimping Heads, HHY-200

Double-acting, 200 Tons

Crimping Range:

- Copper sleeve up to 86 mm O.D.
- Aluminum sleeve up to 100 mm O.D.
- Steel sleeve up to 50 mm O.D.



Characteristics:

- Sturdy construction for safe working.
- Simple design for easy maintenance.
- Ram retracts hydraulically, the retracting time is 1/3 of spring return.
- Removable die cap design helps operator an easy insertion and removable of the connector.
- Functional handles for easy carrying and repositioning.
- Wide crimping area reduces crimping cycles and minimizes curving and tensioning of conductors.
- Requires an external double acting hydraulic pump with rated oil pressure of 700 bar.
- Designed as a portable tool for installing compression sleeves and terminals for transmission construction and maintenance work.
- Comes delivered in sturdy wooden box.



Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	G.W. (kg)	Packing size (mm)
HHY-200	200	34.5	150-1440	630,800,1000,1140,1440	Hexagonal type	110	280×380×500

**Hydraulic Crimping Heads, HHY-100TF**

Double-acting, 100 Tons

**Characteristics:**

- Sturdy construction for safe working.
- Simple design for easy maintenance.
- Ram retracts hydraulically, the retracting time is 1/3 of spring return.
- Removable die cap design helps operator an easy insertion and removable of the connector.
- Functional handles for easy carrying and repositioning.
- Requires an external double acting hydraulic pump. with rated oil pressure of 700 bar.
- Designed as a portable tool for installing compression sleeves and terminals for transmission construction and maintenance work.
- Comes delivered in sturdy wooden box.

Crimping Range:

Copper sleeve up to 76 mm O.D.

Aluminum sleeve up to 76 mm O.D.

Steel sleeve up to 50 mm O.D.

Model	Max.Pressure (T)	Max.stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	G.W. (kg)	Packing size (mm)
HHY-100TF	100	22.5	240-1000	240,630	Hexagonal type	50	230×320×450

Hydraulic Crimping Heads, HHY-60TF**Characteristics:**

- Requires an external hydraulic pump with rated oil pressure of 700 bar.
- Single action cylinder with spring return.
- Detachable ground stand as a standard accessory.
- Large handle for easy carrying.
- Removable die cap for easy connector positioning.
- Solid metal loop at base for hoist work.
- Compression head is designed as a portable tool for installing compression sleeves and terminals for transmission construction and maintenance work

Crimping Range:

Copper and aluminum sleeve up to 60 mm O.D.

Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	G.W. (kg)	Packing size (mm)
HHY-60TF	55	32	150-1000	400,500,630,800,1000	Hexagonal type	23.5	210×210×435



Hydraulic Crimping Heads

For use in indoor and outdoor power distribution and transmission projects, splicing fittings, overhead and underground conductors.

HHY-1000F, HHY-630F

Characteristics:

- Yoke-type head design is solid and durable.
- Convenient handle makes handling and hoisting easier.
- Positive die locking mechanism holds dies firmly in place.
- Supplied with NPT 3/8" male coupler and dust cap.
- Requires an external hydraulic pump with rated oil pressure of 700 bar.
- Single action cylinder with spring return.



HHY-1000F



HHY-630F



Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	G.W. (kg)	Packing size (mm)
HHY-1000F	35	30	240-1000	400,500,630,800,1000	Hexagonal type	23.7	200×200×370
HHY-630F	23	21	150-630	240,300,400,500,630	Hexagonal type	15	185×170×300



Hydraulic Universal Tool Head, HHY-60HF

3 in 1

- Crimping
- Cutting
- Punching



Crimp copper lug
16-300mm² or
aluminum lug
10-240mm²



Cut Cu/Al wire or
armoured cable up
to Φ 40mm



Punch holes Φ
22- Φ 60mm



Characteristics:

- Rotatable flip top head.
- One universal head for crimping, cutting and punching.
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible crimping, cutting and punching results.

Model	HHY-60HF
Hydraulic Ram Output	6.5 Ton
Ram Stroke	42 mm
Cutting range(mm)	Φ 40(Copper,Aluminum/armored cable)
Crimping range(mm ²)	16-300
Punching range(mm)	Φ 22.5- Φ 61.5
G.W.(kg)	13.6
Packing size(mm)	610×210×110

Accessories

Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
Punching dies(mm)	22.5,28.3,34.6,43.2,49.6,61.5
Blades	1 set
Crimping adapter	1 pc
Punching adapter	1 pc
Draw stud M20x1.5	1 pc
Draw stud M10 x 1	1 pc
Spacer	1 pc
Sealing ring of cylinder	1 pc
Sealing ring of safety valve	1 pc

Hydraulic Crimping Head, HHY-510F



Characteristics:

- Wide open C crimping head, rotatable.
- Large crimping area up to 400 mm².
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure.
- Steel storage box.

Model	HHY-510F
Hydraulic Ram Output	11 Ton
Ram Stroke	38 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	10
Packing size(mm)	380X190X120



Hydraulic Crimping Heads

HHY-430F



Characteristics:

- Wide open C crimping head, rotatable.
- Large crimping area up to 400 mm².
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure.
- Steel storage box.

Model	HHY-430F
Hydraulic Ram Output	11 Ton
Ram Stroke	32 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	8.9
Packing size(mm)	350X190X120

HHY-430F



Characteristics:

- H head for deep groove crimping.
- Large crimping area up to 400 mm².
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure.
- Steel storage box.

Model	HHY-400F
Hydraulic Ram Output	11 Ton
Ram Stroke	22 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	8.6
Packing size(mm)	380X190X120

HHY-430F



Characteristics:

- Flip-top crimping head, rotatable.
- Large crimping area up to 300 mm².
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure.
- Steel storage box.

Model	HHY-300F
Hydraulic Ram Output	6.5 Ton
Ram Stroke	14.5 mm
Crimping range(mm ²)	16-300
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	16,25,35,50,70,95,120,150,185,240,300
G.W.(kg)	9.7
Packing size(mm)	350X190X120

**Hydraulic Crimping Heads, HHY-35F****Characteristics:**

- Compact C head, rotatable, for use in restricted spaces.
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure.
- Steel storage box.

Model	HHY-35F
Hydraulic Ram Output	11 Ton
Ram Stroke	30 mm
Crimping range(mm ²)	16-400
Crimp pattern	Hexagonal type
Crimping dies(mm ²)	50,70,95,120,150,185,240,300,400
G.W.(kg)	8.9
Packing size(mm)	350X190X120

Hydraulic Crimping Tool for workbench mounting

For workbench mounting
Large crimping range

HHYF-240F, HHYF-400F

Characteristics:

- C opening head, easy to change crimping dies.
- Supplied with NPT 3/8" male coupler and dust cap.
- For connecting to hydraulic pumps with 700 bar operating pressure for best possible crimping results.



Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	G.W. (kg)	Packing size (mm)
HHYF-240F	9	20	16-240	16,25,35,50,70,95,120,150,185,240	Hexagonal type	8.5	190×120×320
HHYF-400F	11	30.5	16-400	50,70,95,120,150,185,240,300,400	Hexagonal type	16.7	190×120×320



Hydraulic Crimping Tool with hand pump, HHY-500

Characteristics:

- Yoke-type head design, solid and durable.
- Hand pump HHB-600A is lightweight and simple to use.
- High pressure hose 1.2 meters length.
- Positive die locking mechanism holds dies firmly in place.
- Retracts ram by turning anticlockwise the release knob on hand pump.
- Steel storage box.



Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	Pump model	G.W. (kg)	Packing size (mm)
HHY-500	20	16	16-500	70,95,120,150,185,240,300,400,500	Hexagonal type	HHB-600A	17.2	490×260×130

See page 184 for specifications of hand pump HHB-600A.

Hydraulic Crimping Tool with hand pump, HHY-400AF

Characteristics:

- Yoke-type head design, solid and durable.
- Hand pump HHB-600A is lightweight and simple to use.
- High pressure hose 1.2 meters length.
- Positive die locking mechanism holds dies firmly in place.
- Retracts ram by turning anticlockwise the release knob on hand pump.
- Steel storage box.



Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	Pump model	G.W. (kg)	Packing size (mm)
HHY-400AF	14	16.5	16-400	70,95,120,150,185,240,300,400	Hexagonal type	HHB-600A	14.5	490×260×120

See page 184 for specifications of hand pump HHB-600A.



Hydraulic Crimping Tool with hand pump

Characteristics:

- Hand pump HHB-600A is lightweight and simple to use.
- High pressure hose 1.2 meters length.
- Retracts ram by turning anticlockwise the release knob on hand pump.
- Steel storage box.



HHY-300BF



HHY-300CF

Model	Output force (ton)	Ram stroke (mm)	Crimping range (mm ²)	Crimping dies (mm ²)	Crimp pattern	Pump model	G.W. (kg)	Packing size (mm)
HHY-300BF	11	18.5	16-300	16,25,35,50,70,95,120,150,185,240,300	Hexagonal type	HHB-600A	11.6	490×260×130
HHY-300CF	11	28.5	16-300	16,25,35,50,70,95,120,150,185,240,300	Hexagonal type	HHB-600A	11.8	490×260×130

See page 184 for specifications of hand pump HHB-600A.

Mechanical Crimping Tools

Interchangeable hexagonal crimping dies 16-240 mm²

Characteristics:

- Flip-top crimping head, rotating 360°.
- Telescopic lever handles.
- Fast change of crimping dies.
- Effort-saving and low maintenance mechanical drive.



HHYJ-240



HHYJ-240H

Model	Crimping range(mm ²)	Crimp pattern	Crimping dies(mm ²)	G.W.(kg)	Packing size(mm)
HHYJ-240	16-240	Hexagonal type	16,25,35,50,70,95,120,150,185,240	5	280X140X60
HHYJ-240H	16-240	Hexagonal type	16,25,35,50,70,95,120,150,185,240	5	280X140X60



Mechanical Crimping Tools

HHYJ-80 Crimping Tool 8-80 mm²

Characteristics:

- Indent crimping tool with revolving dies.
- For tubular cable lugs and connectors, standard type.
- For tubular cable lugs and connectors for fine stranded conductors.
- For solderless terminals DIN 46234, pin terminal DIN 46230.
- Excellent leverage.



Model	HHYJ-80
Crimping range(mm ²)	8-80
Crimp pattern	indent type
Length (mm)	635
G.W.(kg)	3.2

Mechanical Crimping Tools

HHYJ-150 Crimping Tool 10-120 mm²

Characteristics:

- Indent crimping.
- For cable lugs from 10-120 mm².
- Adjusts the indenter by screw.
- Excellent leverage.



Model	HHYJ-150
Crimping range(mm ²)	10-120
Crimp pattern	indent type
Length(mm)	610
G.W.(kg)	3.1

Mechanical Crimping Tools



HHYJ-50

HHYJ-120

Characteristics:

- Rotatable hexagonal crimping jaws.
- Effort-saving and low maintenance mechanical drive.
- Exact cross-section assignment thanks to permanent marking on the jaws.
- HHYJ-50 is for tubular cable lugs and connectors 6-50 mm².
- HHYJ-120 is for tubular cable lugs and connectors 10-120 mm².

Model	HHYJ-50	HHYJ-120
Crimping range(mm ²)	6-50	16-120
Crimp pattern	Hexagonal type	Hexagonal type
Crimping jaws(mm ²)	6, 10, 16, 25, 35, 50	16, 25, 35, 50, 70, 95, 120
Length(mm)	390	615
G.W.(kg)	1.4	3.9
Packing size(mm)	400 X130 X50	625 X190 X60



When you need to make precise and effective cutting in cables, HYDRARITE cable cutters can always offer you the most convenient and satisfactory solutions.

Battery powered cable cutters

- More intelligence.
- More performance.
- More ergonomic.

Battery powered cable cutters are the most efficient solution for cable cutting applications. Simply press a button to apply the required force. Two-stage hydraulic system automatically switches to power stroke after a fast speed. When the crimping is complete, the ram retracts automatically. Built-in pressure relief valve prevents overloading, protecting the tool.

Hand-operated hydraulic cable cutters

Hand-operated hydraulic tools are the most convenient and safest types to generate precise and high operating forces by hand. All tools feature a two-stage hydraulic system with fast feed and power stroke upon reaching counter pressure. Built-in pressure relief valve prevents overloading, automatic pressure release when the required force exceeds rated capacity.

Hydraulic cable cutter heads

Hydraulic cutting heads can be individually configured with hydraulic pumps for special applications. We offer an extensive range of cutting heads for your options, available with bigger output force and broader cutting range.

Mechanical cable cutters

The mechanical cutting tools are made from high quality materials, are rust-proof and surface-finished. The products are set apart by their extremely long service life. This product group includes Hand Cable Cutters and Ratchet Cable Cutters.



To protect the cable cutters, please follow the specification on cutting capacity. Never exceed the tool capacity. Use the tool only in the applications it was designed for.



Battery Powered Hydraulic Cable Cutter , HHZD-50D

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.

High quality cutting blade, scissors cutting head, wider cutting range, faster operation, rotating 180°

Characteristics:

- Open cutting head allows larger cutting range.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-Ion battery with low battery warning.



Model	HHZD-50D
Hydraulic Ram Output	6 Ton
Ram Stroke	38 mm
Battery capacity	40 cutting cycles
Cutting range	Ø50mm(Copper, Aluminum and armored cable)
Battery	18V/2.0Ah Li-ion
Charging time	1 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	13
Packing size(mm)	690×305×115

**Battery Powered Hydraulic Cable Cutter , HHZD-40D**

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.

**Characteristics:**

- Closed cutting head with bolt interlock, rotatable, flip top style
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.

Model	HHZD-40D
Hydraulic Ram Output	6 Ton
Ram Stroke	42 mm
Battery capacity	60 cutting cycles
Cutting range	Ø40mm(Copper,Aluminum and armored cable)
Battery	18V/2.0Ah Li-ion
Charging time	1 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	11
Packing size(mm)	690×305×115

Battery Powered Hydraulic Cable Cutter , HHZD-30D

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.

**Characteristics:**

- Open cutting head allows larger cutting range.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.

Model	HHZD-30D
Hydraulic Ram Output	6 Ton
Ram Stroke	35 mm
Battery capacity	90 cutting cycles
Cutting range	Ø40mm(Copper,Aluminum and armored cable)
Battery	18V/2.0Ah Li-ion
Charging time	1 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	10
Packing size(mm)	690×305×115



Battery Powered Hydraulic Cable Cutter , HHYD-40D

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.

See page 97 for battery powered universal tool HHYD-60HL.

Characteristics:

- Flip-top head, rotatable
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Ram retracts to original position automatically when applied force exceeds rated capacity.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

High quality cutting blades
Flip-top head, rotating 330°



LED display working status

One-button operation

Ergonomic 2-component grip area
and balanced center of gravity

Manual reset button allows instant stop

High performance 18V Li-ion battery



Model	HHYD-40D
Hydraulic Ram Output	6 Ton
Ram Stroke	40 mm
Battery capacity	90 cutting cycles
Cutting range	Ø40mm(Copper, Aluminum and armored cable)
Battery	18V/4.0Ah Li-ion
Charging time	2 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	12.8
Packing size(mm)	585×500×170



Battery Powered Hydraulic Cable Cutter , HHYD-50A

Cuts armoured Al and Cu cables.
Special blades for cutting ACSR conductors are available on request.



Characteristics:

- Closed cutting head with bolt interlock, rotatable, flip top style
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Ram retracts to original position automatically when applied force exceeds rated capacity.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.

Model	Hydraulic Ram Output	Ram Stroke	Battery capacity	Cutting range	Battery	Weight(Kg)	Packing size(mm)
HHYD-50A	8.5 Ton	50 mm	70 cutting cycles	Ø50mm(Copper, Aluminum and armored cable)	18V/4.0Ah Li-ion	14.5	585×500×170

Battery Powered Hydraulic Cable Cutter , HHYD-85K

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.



Characteristics:

- Open cutting head allows larger cutting range.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Ram retracts to original position automatically when applied force exceeds rated capacity.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.

Model	Hydraulic Ram Output	Ram Stroke	Battery capacity	Cutting range	Battery	Weight(Kg)	Packing size(mm)
HHYD-85K	12.5 Ton	56 mm	70 cutting cycles	Ø85mm(Copper, Aluminum and armored cable)	18V/4.0Ah Li-ion	14	700×520×170



Battery Powered Hydraulic Cable Cutter

HHYD-105K, HHYD-120K, HHYD-135K

Characteristics:

- Open cutting head allows larger cutting range.
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Ram retracts to original position automatically when applied force exceeds rated capacity.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.



HHYD-105K



HHYD-120K



HHYD-135K

Model	HHYD-105K	HHYD-120K	HHYD-135K
Hydraulic Ram Output	16 Ton	18 Ton	18 Ton
Ram Stroke	45 mm	52 mm	52 mm
Crimping times	8s-20s(Depend on the size of cable)	8s-20s(Depend on the size of cable)	8s-20s(Depend on the size of cable)
Cutting range	Ø105mm(Copper, Aluminum and armored cable)	Ø120mm(Copper, Aluminum and armored cable)	Ø135mm(Copper, Aluminum and armored cable)
Battery	18V/4.0Ah Li-ion	18V/4.0Ah Li-ion	18V/4.0Ah Li-ion
Charging time	2 hours	2 hours	2 hours
Qty of battery	2 pcs	2 pcs	2 pcs
Charger	1 pc	1 pc	1 pc
Seals	1set	1set	1set
Weight(Kg)	14	15	16
Packing size(mm)	800×600×170	800×600×170	800×600×170



Battery-operated ratchet cable cutters, HHJD-50A

Cuts armoured Al and Cu cables.
Do not cut steel ropes or ACSR conductors.

Characteristics:

- Ratchet scissors head, wide cutting range.
- Mechanical structure, rechargeable electric design.
- 10000+ cycle service life.
- 4. Variable Afrequency speed switch can adjust the cutting speed at any time.
- Press the button, the blade forward quickly, release the button, the blade stop forward immediately.
- Press reversing switch to retract the ram in case of error.
- Release the button to reset the movable blade or adjust the reversing switch when cutting is completed. Press and hold the button, the movable blade backward, restore the original state.
- Turn the reversing switch to lock when in no use, prevent misoperation, ensure safety.
- High performance 18V Li-ion battery with imported cell.
- Match fast charger 6.5 110V-220V.
- Ergonomic 2-component grip area and balanced center of gravity.
- Light weight, easy take safety use.
- Sturdy plastic, storage box.

Fixed blade

Movable blade



Reverse switch: Forward safety lock backward

One- button operation

Comfortable non-slip when hold

High performance 18V Li-ion battery



Model	HHJD-50A
Cutting range	Ø50mm(Copper, Aluminum and armored cable)
Battery capacity	90 cutting cycles
Battery	18V/4.0Ah Li-ion
Charging time	1 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	7
Packing size(mm)	450×430×150

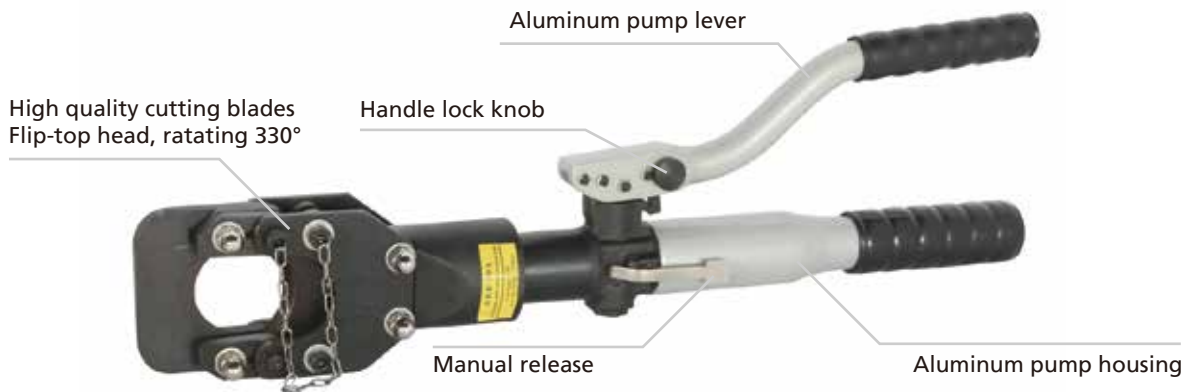


Hand-operated Hydraulic Cable Cutter, HHD-50A

Cuts armoured Al and Cu cables
Aluminum pump lever and housing result in low weight
with built-in safety valve

Characteristics:

- Closed cutting head with bolt interlock, rotatable, flip top style.
- Cuts armoured Al and Cu cables up to Ø 50 mm.
- Aluminum pump lever and housing result in low weight.
- Built-in pressure relief valve prevents overloading.
- Press manual release for fast retraction of the ram.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Steel storage box.



Model	Hydraulic Ram Output	Cutting range(mm)	G.W.(Kg)	Packing size(mm)
HHD-50A	9 Ton	Ø50mm(Copper,Aluminum/ armored cable)	9.5	610×121×110

Hand-operated Hydraulic Cable Cutter, HHD-40C

Cuts armoured Al and Cu cables
Aluminum pump lever and housing result in low weight
with built-in safety valve

Characteristics:

- Flip-top head, rotatable.
- Cuts armoured Al and Cu cables and ACSR conductors up to Ø40 mm.
- Aluminum pump lever and housing result in low weight.
- Built-in pressure relief valve prevents overloading.
- Press manual release for fast retraction of the ram.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Steel storage box.



Model	HHD-40C
Hydraulic Ram Output	6.5
Cutting range(mm)	Ø40mm (Copper,Aluminum and armored cable)
G.W.(Kg)	9.3
Packing size(mm)	610×120×110



Hand-operated Hydraulic Cable Cutter, HHD-40B

Cuts armoured Al and Cu cables
Aluminum pump lever and housing result in low weight
with built-in safety valve

Characteristics:

- Flip-top head, rotatable.
- Cuts armoured Al and Cu cables up to Ø40 mm.
- Aluminum pump lever and housing result in low weight.
- Built-in pressure relief valve prevents overloading.
- Press manual release for fast retraction of the ram.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Steel storage box.



Model	HHD-40B
Hydraulic Ram Output	6.5 Ton
Cutting range(mm)	Ø40mm (Copper, Aluminum and armored cable)
G.W.(Kg)	8
Packing size(mm)	610×210×110

Hand-operated Hydraulic Cable Cutter, HHD-40A

Cuts armoured Al and Cu cables and ACSR conductors
Insulated fiberglass handles
with built-in safety valve

Characteristics:

- Strong, lightweight fiberglass handles.
- Flip-top head, rotating 180 degree.
- Cuts armoured Al and Cu cables and ACSR conductors up to Ø 40mm.
- Twist handle pressure release.
- Built-in pressure relief valve for overload protectio.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Built-in pressure relief valve prevents overloading.
- Molded plastic carry case.



Model	Hydraulic Ram Output	Cutting range(mm)	G.W.(Kg)	Packing size(mm)
HHD-40A	9 Ton	Ø40mm(Copper, Aluminum/ armored cable/Aluminum conductors cable steel-reinforced)	9.3	770x120x220



Hand-operated Hydraulic Cable Cutter

HHD-85

with built-in safety valve
Cuts armoured Al and Cu cables



Characteristics:

- Closed cutting head with bolt interlock, rotatable, flip top style.
- Cuts armoured Al and Cu cables up to Ø85 mm.
- Carry handle for easy shift in job sites.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Built-in pressure relief valve prevents overloading.
- Turn the release knob anticlockwise to retract the ram when cutting is complete
- Plastic carry case.

Model	HHD-85
Hydraulic Ram Output	8.5 Ton
Cutting range(mm)	Ø85mm(Copper, Aluminum/ armored cable)
G.W.(Kg)	15.5
Packing size(mm)	880x190x110

HHD-50

with built-in safety valve
Cuts armoured Al and Cu cables



Characteristics:

- Closed cutting head with bolt interlock, rotatable, flip top style.
- Cuts armoured Al and Cu cables up to Ø50 mm.
- Carry handle for easy shift in job sites.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Built-in pressure relief valve prevents overloading.
- Turn the release knob anticlockwise to retract the ram when cutting is complete
- Plastic carry case.

Model	HHD-50
Hydraulic Ram Output	8.5 Ton
Cutting range(mm)	Ø50mm(Copper, Aluminum/ armored cable)
G.W.(Kg)	11.4
Packing size(mm)	860×200×100

HHD-40

with built-in safety valve
Cuts armoured Al and Cu cables



Characteristics:

- Flip-top head, rotatable.
- Cuts armoured Al and Cu cables up to Ø40 mm.
- Compact design and low weight permit use even in tight areas.
- Built-in pressure relief valve prevents overloading.
- Turn the release knob anticlockwise to retract the ram when cutting is complete.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Plastic carry case.

Model	HHD-40
Hydraulic Ram Output	8.5 Ton
Cutting range(mm)	Ø40mm(Copper, Aluminum/ armored cable)
G.W.(Kg)	7.9
Packing size(mm)	630x110x160



Hand-operated Hydraulic Cable Cutter, HHD-30

with built-in safety valve

Cuts armoured Al and Cu cables



Characteristics:

- Open cutting head with high quality blades.
- Cuts armoured Al and Cu cables up to $\Phi 30$ mm.
- Compact design and low weight permit use even in tight areas.
- Innovative 2-stage hydraulic system reduces operator fatigue and cycle time.
- Built-in pressure relief valve prevents overloading.
- Turn the release knob anticlockwise to retract the ram when cutting is complete.
- Plastic carry case.

Model	HHD-30
Hydraulic Ram Output	7 Ton
Cutting range(mm)	$\Phi 30$ mm(Copper,Aluminum/ armored cable)
G.W.(Kg)	5.7
Packing size(mm)	550×130×240

Hydraulic Cable Cutter Heads

with built-in safety valve

Cuts armoured Al and Cu cables

HHD-85F, HHD-100F, HHD-120F

Characteristics:

- Lock pin type cutter head, blades can be replaced easily.
- Carry handle for easy shift in job sites.
- More safety with remote operation.
- Operated by hydraulic pump with rated pressure 700 bar.



HHD-120F



HHD-100F



HHD-85F



Model	Output force (ton)	Cutting range (mm)	G.W. (Kg)	Packing size (mm)
HHD-85F	8.5	$\Phi 85$ mm(Copper,Aluminum/ armored cable)	12.1	535×260×110
HHD-100F	8.5	$\Phi 100$ mm(Copper,Aluminum/ armored cable)	14.5	610×210×110
HHD-120F	13.5	$\Phi 120$ mm(Copper,Aluminum/ armored cable)	14	630×270×100
HHD-132F	13.5	$\Phi 132$ mm(Copper,Aluminum/ armored cable)	15.8	680×280×100



Hydraulic Cable Cutter Heads

HHD-40F

with built-in safety valve

Cuts armoured Al and Cu cables



Characteristics:

- Flip-top latch for easy insertion of cutting material.
- Fast cutting and more safety with remote operation.
- Blades can be easily replaced.
- Carry handle for easy shift in job sites.
- Operated by hydraulic pump with rated pressure 700 bar.
- Steel storage box.

Model	HHD-40F
Hydraulic Ram Output	8.5 Ton
Cutting range(mm)	Ø40mm(Copper,Aluminum/ armored cable)
G.W.(Kg)	6.8
Packing size(mm)	380×190×120

HHD-50F

with built-in safety valve

Cuts armoured Al and Cu cables



Characteristics:

- Jaws slide open quickly to save time between cuts.
- Jaws are specially hardened.
- Lightweight and easy to use.
- Operated by hydraulic pump with rated pressure 700 bar.
- Steel storage box.

Model	HHD-50F
Hydraulic Ram Output	13.5 Ton
Cutting range(mm)	Ø50mm(Copper,Aluminum/ armored cable)
G.W.(Kg)	8
Packing size(mm)	350×180×110

HHD-85KF, HHD-105KF

with built-in safety valve

Cuts armoured Al and Cu cables



Characteristics:

- Jaws slide open quickly to save time between cuts.
- Jaws are specially hardened.
- Lightweight and easy to use.
- Operated by hydraulic pump with rated pressure 700 bar.
- Steel storage box.

Model	Hydraulic Ram Output	Cutting range (mm)	G.W. (Kg)	Packing size(mm)
HHD-85KF	6.5 Ton	Ø85mm(Copper,Aluminum/ armored cable)	10	535×260×110
HHD-105KF	8.5 Ton	Ø105mm(Copper,Aluminum/ armored cable)	11	610×210×110
HHD-120KF	10 Ton	Ø120mm(Copper,Aluminum/ armored cable)	12	610×360×160



Hand Cable Cutters

Hand-operated cutting tool for Cu and Al cables, also for multi-stranded cables

HHD-125L, HHD-250L, HHD-500L



Shown from top to bottom:
HHD-500L, HHD-250L, HHD-125L

Characteristics:

- Aluminum handle.
- Two-handed operation provides more leverage.
- Made of high quality materials.
- Rust-proof and surface-finished.

Model	Cutting range (mm ²)	G.W. (Kg)	Packing size(mm)
HHD-125L	120mm ² (copper and aluminum wire)	0.75	325×115×25
HHD-250L	240mm ² (copper and aluminum wre)	1.8	600×165×30
HHD-500L	400mm ² (copper and aluminum wire)	3	820×175×30

Hand Cable Cutters

Hand-operated cutting tool for Cu and Al cables, also for multi-stranded cables

HHD-125, HHD-250, HHD-500



Shown from top to bottom:
HHD-500, HHD-250, HHD-125

Characteristics:

- Two-handed operation provides more leverage.
- Large cutting range.
- Not suitable for cutting steel or steel wire.

Model	Cutting range (mm ²)	G.W. (Kg)	Packing size(mm)
HHD-125	120mm ² (copper and aluminum wire)	0.65	370×110×25
HHD-250	240mm ² (copper and aluminum wre)	2	620×210×30
HHD-500	400mm ² (copper and aluminum wire)	3.5	750×210×30








Ratchet Cable Cutters, HHD-130J

For cutting armoured Cu & Al cables



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Support bracket helps to increase efficiency and reduce operator fatigue.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.

Model	HHD-130J				
Cutting range	For cutting off copper & aluminium in armoured cable with a diameter smaller than Ø130mm				
Weight	9.3kg				
Size	560×370×55mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✓	✓	✗	✗	✗	






Ratchet Cable Cutters, HHD-100J

For cutting armoured Cu & Al cables



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.

Model	HHD-100J				
Cutting range	For cutting off copper & aluminium in armoured cable with is smaller than 3×300mm ² or Ø100mm				
Weight	6.5kg				
Size	530×310×50mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✓	✓	✗	✗	✗	








Ratchet Cable Cutters, HHD-95J

For cutting armoured Cu & Al cables



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Support bracket helps to increase efficiency and reduce operator fatigue.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.

Model	HHD-95J				
Cutting range	For cutting off copper & aluminium in armoured cable with is smaller than $3 \times 185\text{mm}^2$ or $\varnothing 95\text{mm}$				
Weight	5.2kg				
Size	480 × 290 × 40mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✓	✓	✗	✗	✗	






Ratchet Cable Cutters, HHD-75J

For cutting armoured Cu & Al cables



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.

Model	HHD-75J				
Cutting range	For cutting off copper & aluminium in armoured cable with is smaller than $3 \times 120\text{mm}^2$ or $\varnothing 75\text{mm}$. Also, it is cutting off 3600 pairs of communication cables				
Weight	3.7kg				
Size	460 × 240 × 40mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✓	✓	✗	✗	✗	








Ratchet Cable Cutters, HHD-52J

For cutting armoured Cu & Al cables



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.

Model	HHD-52J				
Cutting range	For cutting off copper & aluminium in cable with diameter smaller than 500mm ²				
Weight	3.2kg				
Size	380×150×50mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✓	✓	✗	✗	✗	






Ratchet Cable Cutters, HHD-40J

For cutting armoured Cu & Al cables, also for multi-stranded copper wires



Characteristics:

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for cutting steel or steel wire.
- Packed in wear-resistant fabric bag.






Model	HHD-40J				
Cutting range	For cutting off copper & aluminium cable with is smaller than 300mm ² .For cutting off 1000 pairs of communication cables				
Weight	1.2kg				
Size	380×160×50mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
✗	✓	✗	✗	✗	

**Ratchet Cable Cutters, HHD-30J**

For cutting ACSR conductors

**Characteristics:**

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for armoured Cu/Al cables and steel ropes.
- Packed in wear-resistant fabric bag.






Model	HHD-30J				
Cutting range	For cutting off prestressed steel with is smaller than 150 mm ² ,For cutting off ACSR(Aluminium conductors cable Steel-Reinforced)which is smaller than 720mm ²				
Weight	3.8 kg				
Size	450×240×45mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
x	x	✓	✓	x	

Ratchet Cable Cutters, HHD-13J

For cutting ACSR conductors

**Characteristics:**

- Heavy-duty forged steel blades provide long life.
- Easy and quick release of the blades.
- Blades release allows blades to be opened in mid-cut.
- High performance ratchet mechanism.
- Two-handed operation provides more leverage and makes cutting large cables easier.
- Not suitable for armoured Cu/Al cables and steel ropes.
- Packed in wear-resistant fabric bag.

Model	HHD-13J				
Cutting range	For cutting off steel wire ropes which is smaller than 100 mm ² ,For cutting off ACSR(Aluminium conductors cable Steel-Reinforced)which is smaller than 620mm ²				
Weight	1.95 kg				
Size	345×125×46mm				
					
Armored Cable	Cu-Al Cable	Prestressed steel wire	ACSR	Steel wire ropes	
x	x	✓	✓	x	



Stripping Tools for cable external insulation layer

HHBX-40A



Characteristics:

- Designed to strip outer sheath of Cu/Al cables Ø20-40mm.
- Circular and helical cuts.
- Operates by simply rotating it around the cable axis.
- Positioning by vice system, cutting depth can be adjusted precisely.
- Easy handling.
- Packed in plastic carry case.

Model	HHBX-40A
Stripping range(mm)	Ø20-40mm Cu-Al wire
G.W.(kg)	1.4
Packing size(mm)	345 x235 x75

HHBX-40



Characteristics:

- Designed to strip external insulation layer and semiconductor layer of Cu/Al cables Ø14-40mm.
- Circular and helical cuts.
- Operates by simply rotating it around the cable axis.
- Positioning by vice system, cutting depth can be adjusted precisely.
- Easy handling.

Model	HHBX-40
Stripping range(mm)	Ø14-40mm Cu-Al wire
G.W.(kg)	1.25
Packing size(mm)	290 x110 x60

HHBX-30



Characteristics:

- For stripping insulated layer of 70-300 mm² cables.
- Stripping depth adjustable.
- Keep the knife away from cable cores during stripping.
- Knives can be sharpened or replaced.

Model	HHBX-30
Stripping range(mm)	70-300mm ² Cu-Alu wire
G.W.(kg)	0.85
Packing size(mm)	295 x120 x60



Wire Pulling Grips

HHKX-1L, HHKX-2L, HHKX-3L



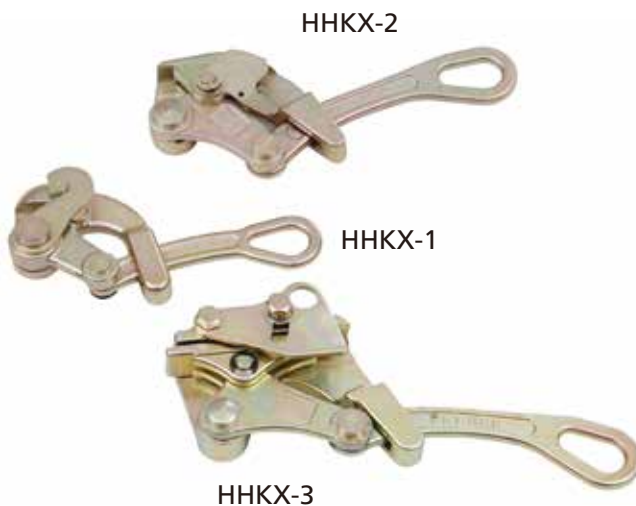
Characteristics:

- Made of high strength aluminum alloy.
- Heat treated for strength and durability.
- Precision machined jaws for proper alignment.
- Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks.

Model	Rated load (KN)	Application	G.W. (kg)	Packing size (mm)
HHKX-1L	10	LGJ25-70	1.3	230 x130 x65
HHKX-2L	20	LGJ25-120	1.7	260 x135 x65
HHKX-3L	30	LGJ150-240	3.6	300 x180 x120

Wire Pulling Grips

HHKX-1, HHKX-2, HHKX-3



Characteristics:

- Made of high strength aluminum alloy.
- Heat treated for strength and durability.
- Precision machined jaws for proper alignment.
- For grip with ACSR conductors.

Model	Rated load (KN)	Application	G.W. (Kg)	Packing size (mm)
HHKX-1	10	Ø2.5-16mm steel strands, copper strands	1.3	240 x100 x45
HHKX-2	20	Ø4-22mm steel strands, ACSR, insulated wires	1.9	280 x110 x50
HHKX-3	30	Ø16-32mm steel strands, ACSR, insulated wires	3.2	340 x140 x70



Wire Rope Pulling Hoist, HHJX-20

Versatile and portable hoist for lifting, pulling and tensioning purpose.

Various applications include:

tensioning cables, laying of large pipes, installation and adjustment of machines, loading and unloading heavy and bulky goods, heaping of forest products, obstacles removing etc.



- Rated load: 20 KN
- Pulling distance: 1300 mm
- Diameter and length of wire rope: 7.0×1500 mm
- Weight: 3.8 kg

Cable Tray Sheaves



HHHL-I



HHHL-III A



HHHL-III B



HHHL-IB



HHHL-III



Model	Pulley size (mm)	Weight (Kg)	Packing size (mm)
HHHL-I	Ø160×Ø140	13.4	230x210x217
HHHL-III	Ø160×Ø140	13.4	575×335×350
HHHL-IB	Ø160×Ø140	4.8	260×220×300
HHHL-III B	Ø160×Ø140	21	620x230x225
HHHL-III A	Ø160×Ø140	15.2	420x335x325



ELECTRICAL INSTALLATION TOOLS

HYDRAULIC BUSBAR TOOLS

HYDRARITE®

3-in-1 Busbar Processors

Three-in-one bus bar processor guarantees effortless cutting, bending and punching of aluminum and copper busbars. These tools are easy to use and most versatile for all in-plant and site work

Hydraulic Busbar Punchers

Suitable for on-site punching jobs as well as batch processing jobs. Punching holes in mild steels, copper and aluminum busbars.

Hydraulic Busbar Benders

Suitable for on-site bending jobs as well as batch processing jobs. Bending copper and aluminum busbars 0°-90° without marking the copper.

Hydraulic Busbar Cutters

Suitable for on-site cutting jobs as well as batch processing jobs. Cutting copper and aluminum busbars quickly and cleanly.





3-in-1 Busbar Processor, HHM-120H

The basic unit transforms into a cutting, bending or punching machine within seconds by changing the working parts.



Characteristics:

- Working pressure 700 bar, powerful yet quiet running.
- Robust and stiff frame, strong structure.
- High quality cutting, bending and punching, fast cycle time.
- High operating safety with the built-in safety system.
- Low-maintenance, long service life.

Punch dies	Cutting dies	Bending dies
		

Model	HHM-120H
Voltage	220V/380V
Output force	23 ton
Cutting-Punching-Bending Bus Bars	120 x 10 mm
Punching dies	3/8" (11.1mm), 5/8" (17.5mm) 1/2" (14.3mm), 3/4" (20.6mm)
G.W.(kg)	140
Packing size	69 x 55 x 101 cm

3-in-1 Busbar Processor by hand, HHM-120HS

The basic unit transforms into a cutting, bending or punching machine within seconds by changing the working parts.



Characteristics:

- Easy and simple operation.
- Two-speed, heavy duty hydraulic system.
- Comfortable working position with the tripod stand.
- High quality cutting, bending and punching, fast cycle time.
- High operating safety with the built-in safety system.
- Low-maintenance, long service life.

Punch dies	Cutting dies	Bending dies
		

Model	HHM-120HS
Output force	23 ton
Cutting-Punching-Bending Bus Bars	120 x 10 mm
Punching dies	3/8" (11.1mm), 5/8" (17.5mm) 1/2" (14.3mm), 3/4" (20.6mm)
G.W.(kg)	62.9
Packing	63 x 27 x 29 cm



Hydraulic Busbar Puncher, HHM-60, HHM-70

HHM-60, HHM-70



HHM-60

HHM-70

Characteristics:

- Strong durable construction.
- Single acting, spring return.
- Quick set up punches & dies system.
- Flat and clean hole edge.
- Punch dies made of high strength steel.
- Carrying handle for easy transportation to the job site.
- Large flat base for added stability.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.



Model	Output force (ton)	Punch dies	Max. Thickness (mm)		Throat depth (mm)	G.W. (kg)	Packing size (cm)
			mild steel	copper/aluminum busbar			
HHM-60	31	3/8" (11.1mm), 1/2" (14.3mm) 5/8" (17mm), 3/4" (20.6mm)	6	10	70	23.3	40×25×15
HHM-70	35	3/8" (11.1mm), 1/2" (14.3mm) 5/8" (17mm), 3/4" (20.6mm)	8	12	110	37.4	33×20×39

Hydraulic Busbar Puncher, HHM-80



Characteristics:

- Strong durable construction.
- Double acting, hydraulic return.
- Quick set up punches & dies system.
- Flat and clean hole edge.
- Punch dies made of high strength steel.
- Top eye bolt for easy handling on the job site.
- Large flat base for added stability.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by double-acting hydraulic pump with rated pressure 700 bar.

Model	Output force (ton)	Punch dies	Max. thickness (mm)		Throat depth (mm)	G.W. (kg)	Packing size (cm)
			mild steel	copper/aluminum busbar			
HHM-80	50	16mm, 18mm 22mm, 25mm	14	16	125	80	37×15×44



Electro-hydraulic angle steel puncher

HHM-20-L, HHM-20-S



HHM-20-L

HHM-20-S

Characteristics:

- High strength alloy steel working head, durable.
- Fit for punching mild steel, steel plate, copper-aluminum busbar ect.
- The punching die is made of high carbon alloy steel.
- Portable handle, easy carry.
- Electro-Hydraulic design, small volume, light weight, easy operation.
- Th punching dies can be specialised made.



Model	Rated voltage	Rated power	punch speed	Throat depth	Max thickness	punch dies	Weight (Kg)	Packing size(mm)
HHM-20-L	220V	1200W 50-60HZ	2-3S	37.9mm	6mm	6.5,9,13,17,20.5	12	196.5X130X500
HHM-20-S	220V	1200W 50-60HZ	2-3S	37.9mm	6mm	6.5,9,13,17,20.5	11.91KG	196.5X135X410

Electro-hydraulic channel puncher

HHM-20B-L, HHM-20B-S



HHM-20B-L

HHM-20B-S

Characteristics:

- High strength alloy steel working head, durable.
- Fit for punching mild steel, steel plate, copper-aluminum busbar ect.
- The punching die is made of high carbon alloy steel.
- Portable handle, easy carry.
- Electro-Hydraulic design, small volume, light weight, easy operation.
- Th punching dies can be specialised made.



Model	Rated voltage	Rated power	punch speed	Throat depth	Max thickness	punch dies	Weight (Kg)	Packing size(mm)
HHM-20B-L	220V	1200W 50-60HZ	2-3S	52.5mm	6mm	6.5,9,13,17,20.5	13.93	196.5X130X520
HHM-20B-S	220V	1200W 50-60HZ	2-3S	52.5mm	6mm	6.5,9,13,17,20.5	14.17KG	196.5X135X430



Hydraulic Busbar Bender, HHM-125W

2-in-1 vertical and horizontal bending



Characteristics:

- Bending horizontally and vertically.
- Smooth bending without marking and kinking to the copper.
- Single acting, spring return.
- Robust and durable construction.
- Precise one-shot bending.
- Easy setup on work site.
- Low maintenance and longer service life.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.
- Packed in robust wooden box.



Model	Output force (ton)	Breadth of copper busbar(mm)	Thickness of copper busbar(mm)	G.W. (kg)	Packing size (cm)
HHM-125W	25	40,50,60,80,100,125	6,8,10,12.5	93.2	76×69×24

Standard bending dies

Thickness of copper busbar (mm)	Breadth of copper busbar (mm)	Bending dies for assembling	Bending angle	Bend radius (mm)
6	40,50,60	1	90°	110
8	80	1	90°	140
10	80	1	90°	140
8	100	1	90°	160
10	100	1	90°	160
10	125	1	90°	180
12.5	125	1	90°	180



Hydraulic Busbar Bender, HHM-10

2-in-1 vertical and horizontal bending



Characteristics:

- Bending horizontally and vertically.
- Smooth bending without marking and kinking to the copper.
- Single acting, spring return.
- Robust and durable construction.
- Precise one-shot bending.
- Easy setup on work site.
- Low maintenance and longer service life.



Model	Output force (ton)	Breadth of copper busbar(mm)	Thickness of copper busbar(mm)	G.W. (kg)	Packing size (cm)
HHM-10	13	40,50,60,80,100	4,5,6,8,10	50.2	73×32×20

Standard bending dies

Thickness of copper busbar (mm)	Breadth of copper busbar (mm)	Bending dies for assembling	Bending angle	Bend radius (mm)
6	40,50,60	1	90°	110
8	80	1	90°	140
10	80	1	90°	140
8	100	1	90°	160
10	100	1	90°	160



Hydraulic Busbar Benders, HHM-200W



Characteristics:

- Robust and durable construction.
- Single acting, spring return.
- Quick set-up on the work site.
- Etched degrees for bending precisely at a required angle.
- Low maintenance and longer service life.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.



Model	Output force (ton)	Breadth of copper busbar (mm)	Max. thickness of copper busbar (mm)	G.W. (kg)	Packing size (cm)
HHM-200W	16.6	200	12	27.7	28×31×38

Hydraulic Busbar Benders, HHM-150W



Characteristics:

- Robust and durable construction.
- Single acting, spring return.
- Quick set-up on the work site.
- Etched degrees for bending precisely at a required angle.
- Low maintenance and longer service life.
- Bar support on the bottom provides extra stability.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	Output force (ton)	Breadth of copper busbar (mm)	Max. thickness of copper busbar (mm)	G.W. (kg)	Packing size (cm)
HHM-150W	16.6	150	10	19.4	40×19×29



Hydraulic Busbar Cutters, HHM-150VQ



Characteristics:

- V shape cutting blade.
- Quick set-up on the work site.
- Etched ruler and lock loops for precise positioning of busbars.
- Flat and clean cut edge.
- Single acting, spring return.
- Bar support on the bottom provides extra stability.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.



Model	Output force (ton)	Breadth of copper busbar (mm)	Max. thickness of copper busbar (mm)	Weight (kg)	Packing size (cm)
HHM-150VQ	20	150	10	28.5	32×23×44

Hydraulic Busbar Cutters, HHM-200VQ



Characteristics:

- V shape cutting blade.
- Very large 210mm open for easy insertion of busbars.
- Etched ruler and lock loops for precise positioning of busbars.
- Flat and clean cut edge.
- Single acting, spring return.
- Quick set-up on the work site.
- Bar support on the bottom provides extra stability.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	Output force (ton)	Breadth of copper busbar (mm)	Max. thickness of copper busbar (mm)	Weight (kg)	Packing size (cm)
HHM-200VQ	20	200	12	33	38×24×46



Hydraulic Busbar Cutters, HHM-150Q



Characteristics:

- Clean cut without copper scrap.
- Adjustable positioning bolt prevents busbar from going upward during cutting.
- Single acting, spring return.
- Quick set-up on the work site.
- Bar support on the bottom provides extra stability.
- Low maintenance and longer service life.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	Output force (ton)	Breadth of copper busbar(mm)	Max.thickness of copper busbar (mm)	Weight (kg)	Packing size (cm)
HHM-150Q	20	150	10	33.6	32×23×44

Hydraulic Busbar Cutters, HHM-200Q



Characteristics:

- Clean cut without copper scrap.
- Adjustable positioning bolt prevents busbar from going upward during cutting.
- Single acting, spring return.
- Quick set-up on the work site.
- Bar support on the bottom provides extra stability.
- Low maintenance and longer service life.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	Output force (ton)	Breadth of copper busbar(mm)	Max.thickness of copper busbar (mm)	Weight (kg)	Packing size (cm)
HHM-200Q	35	200	12	37.6	38×24×46



Cordless Hydraulic Knockout Puncher, HHZD-60K

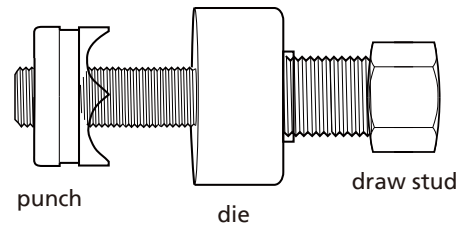
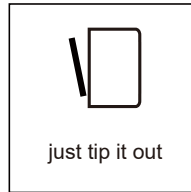
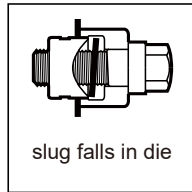
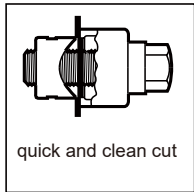
Ideal tools for on-site hole punching in electric control panels and metal plates. Simple operation and quick punching. Flat, clean and burr-free cut.



Characteristics:

- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.

Optional punches and dies
Punch kit includes punches, dies and draw studs



Die set A (mm)	Die set B (mm)	Die set C (mm)	Die set D(square type) (mm)
Ø16Ø20Ø26Ø32Ø39Ø51	Ø22Ø27Ø34Ø43Ø49Ø60	Ø63Ø76Ø80Ø89Ø100Ø114	32×32,46.5×46.5,76.5×76.5, 80.5×80.5,90.5×90.5,113×113, 151×151

Note: The punch and dies are optional.

Model	Hydraulic Ram Output	Ram stroke	Battery capacity	Max.thickness(mm)	Punch range (mm)	Battery	Punch dies (mm)	Weight (Kg)	Packing size(mm)
HHZD-60K	6 Ton	20 mm	50 Punching cycles	1.6mm Stainless steel / 3.2mm Mild steel	16-60	18V/2.0 Ah Li-ion	Ø22Ø27Ø34Ø43 Ø49Ø60	10	690×305×115



Cordless Hydraulic Knockout Puncher, HHYD-8F

Ideal tools for on-site hole punching in electric control panels and metal plates.
Simple operation and quick punching.
Flat, clean and burr-free cut.

Characteristics:

- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Ram retracts to original position automatically when operation is complete.
- Manual retraction in case of need.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.
- Ergonomic 2-component grip area and balanced center of gravity.
- Sturdy plastic storage box.



Model	HHYD-8F
Hydraulic Ram Output	8 Ton
Ram Stroke	12 mm
Battery capacity	90 cutting cycles
Max.thickness(mm)	1.6mm Stainless steel / 3.2mm Mild steel
Punch range(mm)	16-60
Punch dies(mm)	Ø22Ø27Ø34Ø43 Ø49Ø60
Battery	18V/4.0Ah Li-ion
Charging time	2 hours
Qty of battery	2 pcs
Charger	1 pc
Seals	1set
Weight(Kg)	12.8
Packing size(mm)	585×500×170



Self-contained Hydraulic Knockout Punchers

Punching capacity:
Stainless steel plate up to 1.6 mm thickness
Mild steel plate up to 3.2 mm thickness

Punching range:
Ø16-60mm

HHK-8A, HHK-8E



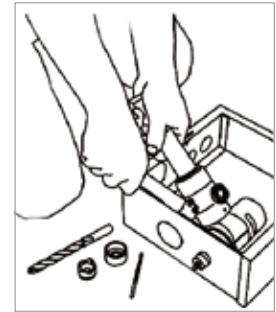
HHK-8A



HHK-8E

Characteristics:

- Made of aluminum, the tool features lightweight and high portability.
- The head of HHK-8A is right-angled and rotating 360°, which allows greater versatility in tight spaces.
- HHK-8E is perfect for fast, straight-on panel punching.



HHK-8C



HHK-8C

Characteristics:

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- Robust and durable.
- Ram rotates 360° for greatest versatility.
- Sturdy plastic carry case.



Model	Output force (ton)	Ram stroke (mm)	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
			Stainless steel	Mild steel				
HHK-8A	11	20	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	8.6	490×260×130
HHK-8E	8	21.5	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	6.4	350×190×120
HHK-8C	11	22	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	11.5	480×300×160



Hydraulic Knockout Punchers Ram and Hand Pump kits, HHK-8



Characteristics:

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- The kit is consists of hand pump, high pressure hose 0.8 meter and B set of punches and dies.
- Sturdy plastic carry case.

Model	Output force (ton)	Ram stroke (mm)	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
			Stainless steel	Mild steel				
HHK-8	9	16	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	10.9	450×390×165

Hydraulic Knockout Punchers Ram and Hand Pump kits, HHK-8B



Characteristics:

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- The kit is consists of hand pump, high pressure hose 0.8 meter, quick couplers and B set of punches and dies.
- Sturdy plastic carry case.

Model	Output force (ton)	Ram stroke (mm)	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
			Stainless steel	Mild steel				
HHK-8B	11	22	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	13	450×400×160



Hydraulic Knockout Punchers Ram and Hand Pump kits, HHK-8D

Characteristics:

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- The kit consists of hand pump, high pressure hose 0.8 meter and B set of punches and dies.
- Sturdy plastic carry case.



Model	Output force (ton)	Ram stroke (mm)	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
			Stainless steel	Mild steel				
HHK-8D	11	22	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	11.9	445×380×160

Hydraulic Knockout Punchers Ram and Hand Pump kits, HHK-15

Characteristics:

- Fast, easy and simple to operate.
- Compact design for field use on construction sites and maintenance jobs.
- The kit consists of hand pump, high pressure hose 1.5 meter and C set of punches and dies.
- Powerful 13-ton hydraulic ram.
- Sturdy steel storage box.



Model	Output force (ton)	Ram stroke (mm)	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
			Stainless steel	Mild steel				
HHK-15	13	25	1.6	3.2	16-114	Ø63Ø76Ø80Ø89Ø100Ø114	26.9	490×255×130



Electric Knockout Punch, HHK-163

Using with Electric dilling tool, ergonomic design for effortless operation operation.

Characteristics:

- Main body is made of high-strength lightweight alloy.



Matching Electric drilling tool with a maximum torque of 60Nm at 500-600r/min

Model	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
	Stainless steel	Mild steel				
HHK-163	1.6	3.2	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	3.8	310×230×65

Manual Knockout Kit, HHJK-60

For punching holes in mild steel, aluminum, brass, copper
Punch up to 2.0mm mild steel.



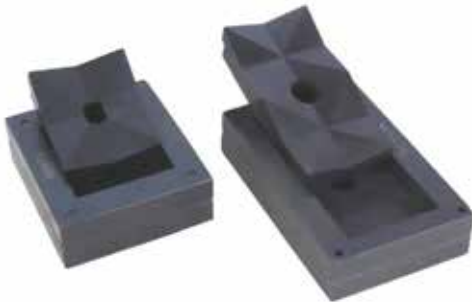
Model	Max.thickness(mm)		Punch range (mm)	Punch dies (mm)	G.W. (Kg)	Packing size (mm)
	Stainless steel	Mild steel				
HHJK-60	1.0	2.0	16-60	Ø22Ø27Ø34Ø43Ø49Ø60	3.8	310×230×65



Special punches and dies

Special punches and dies are available on request only.

Rectangular punches and dies



Hole size		Punching capacity (mm)
in	mm	
0.851 × 1.018	21.9 × 25.9	2.0
0.886 × 1.181	22.0 × 30.0	2.0
0.866 × 1.654	22.0 × 42.0	2.0
0.990 × 1.140	25.1 × 29.0	2.0
1.250 × 1.380	31.8 × 35.1	2.0
1.312 × 2.625	33.3 × 67.9	3.5
1.378 × 2.047	35.0 × 52.0	3.5
1.378 × 2.559	35.0 × 65.0	3.5
1.378 × 3.228	35.0 × 82.0	2.0
1.378 × 4.409	35.0 × 112.0	2.0
1.811 × 3.622	46.0 × 92.0	3.5
2.250 × 3.500	57.2 × 88.9	3.5
2.677 × 5.433	68.0 × 138.0	2.0

Square punches and dies



Hole size		Punching capacity (mm)
in	mm	
5/8" 0.625 × 0.625	15.9 × 15.9	2.0
3/4" 0.750 × 0.750	19.1 × 19.1	2.0
7/8" 0.882 × 0.882	22.4 × 22.4	2.0
1" 1.000 × 1.000	25.4 × 25.4	2.0
1.772 × 1.772	45.0 × 45.0	3.5
1-13/16" 1.811 × 1.811	46.0 × 46.0	3.5
2" 2.000 × 2.000	50.8 × 50.8	3.5
2-11/16" 2.677 × 2.677	68.0 × 68.0	3.5
3-5/8" 3.625 × 3.625	92.0 × 92.0	3.5
4-1/8" 4.125 × 4.125	104.8 × 104.8	3.5
5.433 × 5.433	138.0 × 138.0	2.0

Round punches and dies



Hole size		Punching capacity (mm)
Ø(INCH)	Ømm	
7/8	22.5	3.5
-	28.3	3.5
-	34.6	3.5
1-11/16	43.2	3.5
1-15/16	49.6	3.5
2-3/8	61.5	3.5
2-7/8	74	3.5
3-1/2	89.9	3.5
4	102.7	3.5
4-1/2	115.4	3.5
5-5/8	144.1	3.5



Manual Knockout Punch, HHJK-21



Characteristics:

- Made by high strength alloy steel, strong construction, lightweight and durable.
- Compact design, easy operation, requires no power supply, time and labour saving, ideal for overhead work.

Model	Output force (KN)	Punching capacity	Punching hole size Ø(mm)	G.W. (Kg)	Packing size (cm)
HHJK-21	300	Up through 10mm mild steel	11/13/17/19/21	15.8	38×31×10

Hydraulic Hole Punch, HHDK-8



Characteristics:

- Highly portable.
- Full cast iron construction.
- Powerful hydraulic ram.
- Quick release hydraulic coupling.
- High pressure hose 1.5 meters.
- Punch dies can be changed in seconds, which enables quick repetitive hole punching.
- 30cm benchtop stand enables the operator to leave the tool as a permanent workshop or take to the job site.
- Steel Carry Case Included.

Model	Tonnage (T)	Aperture (mm)	Punching capacity (mm)	G.W. (kg)	Packing size (cm)
HHDK-8	6.5	Ø26, Ø35	Stainless steel less than 1mm of thickness Mild steel less than 1.5mm of thickness Copper/Aluminum less than 2.0mm of thickness	15.7	48x26x13



Hydraulic Rebar Cutters

HYDRARITE Hydraulic Rebar Cutters are widely used in various industries where quick cutting of steel rebars is required, such as steel plants, railroads, construction fieds, oil & gas, mining, etc. The tools can make fast cut without generating any scraps or sparks, causing no harm to the enviroment and reducing the danger of personal injury. Characterised by lightweight and high portability, the tools are ideal for overhead work.

Electro-Hydraulic Rebar Cutters



Characteristics:

- Blades made of high strength steel, specially hardened for durability.
- Open head for easy insertion of rebars.
- Fast cutting speed, small cycle time.
- Ram automatically retracts when the cutting cycle is complete.
- Designed to cut one-time disposable locks, shipping container seals, small diameter bolts, construction rebars, threaded rods, etc.



HHG-25D



HHG-16D

Model	Voltage (V)	Wattage (W)	Cutting speed (S)	Max.rebar (mm)	Min.rebar (mm)	G.W. (Kg)	Packing size (mm)
HHG-16D	220/110	850/900	2.5-3	16	4	13	515×230×150
HHG-20D	220/110	950/1350	3-3.5	20	4	18.3	480×195×280
HHG-22D	220/110	1000/1350	3.5-4.5	22	4	21.5	485×190×330
HHG-25D	220/110	1600/1700	5	25	4	32	565×230×345
HHG-32D	220/110	2900/3000	6-7	32	4	40	630×240×350

Manual Hydraulic Rebar Cutter, HHG-22



Characteristics:

- Cutting steel rebars Ø4-22 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Robust and durable construction.
- Ram retracts by turning the release knob anticlockwise.
- Plastic carry case.

Model	HHG-22
Output force(ton)	16
Cutting range(mm)	4-22
G.W.(kg)	6.2
Packing size(mm)	550×130×245



Manual Hydraulic Rebar Cutters

HHG-20



Characteristics:

- Cuts steel rebars Ø4-20 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Robust and durable construction.
- Ram retracts by turning the release knob anticlockwise.
- Plastic carry case.

Model	HHG-20
Output force(ton)	9
Cutting range(mm)	4-20
G.W.(kg)	4.6
Packing size(mm)	520×195×200

HHG-16



Characteristics:

- Cutting steel rebars Ø4-16 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Robust and durable construction.
- Ram retracts by turning the release knob anticlockwise.
- Plastic carry case.

Model	HHG-16
Output force(ton)	7
Cutting range(mm)	4-16
G.W.(kg)	3.6
Packing size(mm)	430×190×190

HHG-10



Characteristics:

- Cutting steel rebars Ø4-10 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Robust and durable construction.
- Ram retracts by turning the release knob anticlockwise.
- Plastic carry case.

Model	HHG-10
Output force(ton)	5
Cutting range(mm)	4-10
G.W.(kg)	2.45
Packing size(mm)	355×170×85

**Hydraulic Rebar Cutting Heads****HHG-25F****Characteristics:**

- Cutting steel rebars \varnothing 4-25 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	HHG-25F
Output force(ton)	20
Cutting range(mm)	4-25
G.W.(kg)	5.5
Packing size(mm)	370×130×90

HHG-22F**Characteristics:**

- Cutting steel rebars \varnothing 4-22 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	HHG-22F
Output force(ton)	12
Cutting range(mm)	4-22
G.W.(kg)	3.7
Packing size(mm)	280×120×90

HHG-20F**Characteristics:**

- Cutting steel rebars \varnothing 4-20 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	HHG-20F
Output force(ton)	9
Cutting range(mm)	4-20
G.W.(kg)	2.5
Packing size(mm)	250×80×70



Hydraulic Rebar Cutting Head, HHG-16F



Characteristics:

- Cutting steel rebars Ø4-16 mm.
- Open head for easy insertion of rebars.
- Blades made of high strength and heat-treated steel.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.

Model	HHG-16F
Output force(ton)	7
Cutting range(mm)	4-16
G.W.(kg)	1.8
Packing size(mm)	220×70×60

Electro-Hydraulic Rebar Benders

HHG-16W, HHG-25W, HHG-32W

Characteristics:

- Open head for easy insertion of rebars.
- Fast cutting speed, small cycle time.
- Ram automatically retracts when the cutting cycle is complete.
- Convenient handle for easy transport to work site and one-man operation.
- Steel storage box.



HHG-16W



Model	Voltage (V)	Wattage (W)	Bending speed (s)	Max rebar (mm)	Min rebar (mm)	Bend angle	G.W. (Kg)	Packing size (mm)
HHG-16W	220/110	800/900	5	16	4	0-130°	16.5	670×250×245
HHG-25W	220/110	950/1350	5-8	25	4	0-110°	32	670×385×260
HHG-32W	220/110	1170	8-10	32	4	0-110°	32	670×385×260



Hydraulic Angle Steel Cutters

HYDRARITE Angle Steel Cutters are designed for cutting angle steels in power transmission and distribution projects.

HHJG-60, HHJG-100

Characteristics:

- Single acting, spring return.
- Able to make quick, quite, smooth cutting without scraps.
- Compact design allows easy transport to job site and site-to-site move.
- Bar support on the bottom provides extra stability.
- Adjustable positioning bolt prevents material from going upward during cutting.
- Supplied with NPT 3/8" male coupler and dust cap.
- Operated by hydraulic pump with rated pressure 700 bar.



HHJG-60



HHJG-100

Model	Output force (ton)	Breadth of angle steel(mm)	Max.thickness of angle steel(mm)	Weight (kg)	Packing size (cm)
HHJG-60	35	60×60	6	27.9	26×25×37
HHJG-100	55	100×100	10	43.6	32×23×44



Electric angle steel cutting tool, HHJD-60

The unit make angle cut and arc cut.

Characteristics:

- V shape cutting blade and U shape cutting blade able for different type cutting
- Automatic oil return, quick operation



Model	Voltage	Power	Cutting speed	Cutting max	Weight (Kg)	Packing size(mm)
HHJD-60	220V	1200W 50-60HZ	3-55	60X60mm	19.43	184×139.5×530

Battery Powered Hydraulic steel wire rope shear, HHZD-25D

Cuts ACSR conductors

Characteristics:

- Closed cutting head with bolt interlock, rotatable, flip top style
- Two-stage hydraulic system features fast feed and power stroke upon reaching counter pressure, saving time.
- 10000+ cycle service life.
- Press manual reset button to retract the ram when cutting is complete.
- Press manual reset button to retract the ram in case of error.
- Audible buzzer and red LED light in case of error.
- Quick motor stop for higher user safety.
- Powerful 18V Li-ion battery with low battery warning.



Model	Hydraulic Ram Output	Ram Stroke	Battery capacity	Cutting range	Battery	Weight(Kg)	Packing size(mm)
HHZD-25D	7.5 Ton	27 mm	50 cutting cycles	Ø25mm(ACSR conductors)	18V/2.0Ah Li-ion	11	690×305×115



PULLING TOOLS HYDRAULIC PULLERS

HYDRARITE®

HYDRARITE Hydraulic Pullers are ideal replacement of conventional pulling tools. These hydraulic pullers eliminate time-consuming and unsafe hammering, heating or prying. Damage to parts is minimized through the use of controlled hydraulic power.

When selecting a puller it is important to consider 3 basic specifications :

1. The capacity:

is the amount of force the puller is capable of producing. Typically, the capacity required for a job can be determined by using the shaft diameter of the part being pulled. For hydraulic pullers, the capacity in tons should be 0,28 to 0,4 times the shaft diameter in mm. Use the following chart:

Shaft dia	Puller Capacity
0-25mm	10ton
25-50mm	20ton
50-89mm	30ton
89-140mm	50ton



2. The reach

is the distance between the bottom of the base and the jaw flats. The puller's reach must equal or exceed the same distance of the part being pulled.

3. The spread

is the distance between the jaws. The puller's spread needs to be greater than the width of the part being pulled.



SAFETY FIRST!

Tons of force are being exerted with your pulling system. You must respect this force, and observe safety precautions at all times.

A few easy tips to remember:

1. Wear safety glasses at all times! You have only one pair of eyes, so protect them from possible flying parts.
2. Keep your pulling tools in shape! Clean and lubricate the puller's forcing screw frequently, from threads to tip, to assure long service life and proper operation.
3. Cover work with a protective blanket! With high forces being exerted on the part being pulled, breakage may sometimes result. By covering the work with a protective blanket, the mechanic reduces the danger of flying parts.
4. Apply force gradually! The component should give a little at a time. Do not try speed removal by using an impact wrench on the puller screw.
5. Use the right size puller! If you have applied maximum force and the part has not moved, go to a larger capacity puller. Resist sledging.
6. Align puller legs and jaws! Be sure the setup is rigid and that the puller is square with the work.
7. Mount puller so grip is tight! Tighten the adjusting strap-bolts when using a jaw type puller. Always use a 3-jaw puller whenever possible. A 3-jaw puller gives a more secure grip, more even pulling power. Apply force gradually. — Never use an extension on a wrench. — Never use an impact wrench. — Never strike the end of the forcing screw. Always cover work with a protective blanket.
8. Do not couple puller legs! The tonnage capacity of a puller is reduced when longer than standard legs are used, or when legs are in compression. The chance of breaking, bending or misaligning legs increases. Keep reach to a minimum. Use shortest legs possible to reach workpiece. Thread legs into workpiece, pulling attachment or adapters evenly. Uneven legs will cause greater pull or push on one side, creating a bending action which could cause damage to work piece or cause a leg to break. The sliding plates must always be on the opposite side of the cross block from the forcing screw nut or hydraulic cylinder. Always cover work with a protective blanket.



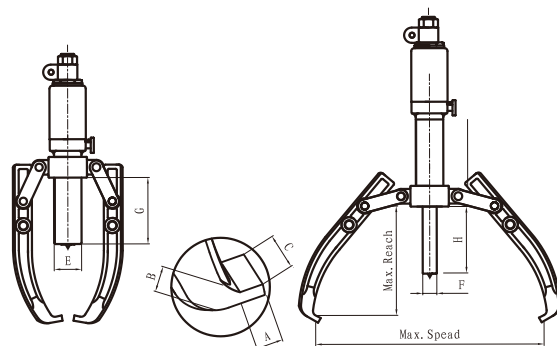
Self-Contained Hydraulic Pullers

These tools are designed for removing a wide variety of gears, bearings, bushings, pulleys and other press-fitted parts.



Characteristics:

- Use with 2 or 3 jaws.
 - High quality, forged steel jaws and crosshead provide superior reliability and service.
 - Precise hydraulic control allows fast, efficient and safe pulling.
 - High force hydraulic system for effortless pulling of large components.
 - More efficient pulling, as one man can do the job where manual pullers often require two operators.
 - Spring loaded live centering cone.
- 5, 10 and 20 ton sets all contained in a plastic carry case.
30 and 50 ton sets all contained in a robust wooden box.



Model	Output (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Dimensions(mm)						Weight (Kg)	Packing size (cm)
					E	F	G	A	B	C		
HHL-5	5	50-200	140	50	45	23	106	12.5	22.5	26	8	42×29×9
HHL-10	10	50-250	170	60	56	26	97	14	30	30	12	43×33×11
HHL-20	20	100-350	205	70	78	33	105	21	33.5	33	19	44×35×13
HHL-30	30	150-400	220	70	90	38	103	26	36	35	25	48×20×18
HHL-50	50	200-500	250	60	114	48	117	25	46	40	43	52×25×22

Self-contained Hydraulic Grip Pullers



Characteristics:

- Use with 3 jaws.
- High quality, forged steel jaws and crosshead provide superior reliability and service.
- Safety Cage' guides jaws, holding them securely onto the part.
- Built-in safety valve prevents overload.
- Precise hydraulic control allows fast, efficient and safe pulling.
- High force hydraulic system for effortless pulling of large components.
- More efficient pulling, as one man can do the job where manual pullers often require two operators.
- Spring loaded live centering cone.

Model	Output (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Weight (Kg)	Packing size (cm)
HHL-5B	5	20-200	160	60	8	42×29×9
HHL-10B	10	20-300	210	80	11	43×33×11
HHL-15B	15	20-360	240	100	19	44×35×13



PULLING TOOLS HYDRAULIC PULLERS

HYDRARITE®

Hydraulic Puller and Hand Pump sets

Easy and quick set-up.

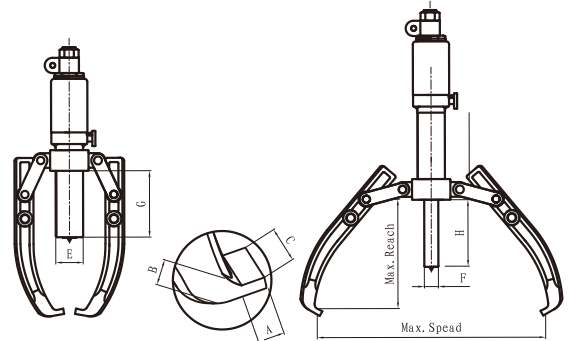
The hydraulic hand pump can be detached for other tanks requires dependable hydraulic power, assuring maximum return on your investment.

Hand pump with hose allows operation from a distance, which enhances safety and reduces operator fatigue.



Characteristics:

- Use with 2 or 3 jaws.
- High quality, forged steel jaws and crosshead provide superior reliability and service.
- Precise hydraulic control allows fast, efficient and safe pulling.
- High force hydraulic system for effortless pulling of large components.
- More efficient pulling, as one man can do the job where manual pullers often require two operators.
- Spring loaded live centering cone.



Model	Out put (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Dimensions(mm)						Pump model	Weight (Kg)	Packing size (cm)
					E	F	G	A	B	C			
HHL-5F	5	200	140	50	45	23	106	12.5	22.5	26	HHB-700C	10.2	48×26×13
HHL-10F	10	250	170	60	56	26	97	14	30	30	HHB-700	12.9	48×26×13
HHL-20F	20	350	205	70	78	33	105	21	33.5	33	HHB-700	15.7	48×20×18
HHL-30F	30	400	220	70	90	38	103	26	36	35	HHB-700	33	52×25×22
HHL-50F	50	500	250	60	114	48	117	25	46	40	HHB-700	37.8	52×25×22
HHL-100F	100	650	280	80	168	65	220	32	47	50	HHB-630	130	99×30×25

Hydraulic Grip Puller and Hand Pump sets



Characteristics:

- Use with 3 jaws.
- High quality, forged steel jaws and crosshead provide superior reliability and service.
- Safety Cage' guides jaws, holding them securely onto the part.
- Built-in safety valve prevents overload.
- Precise hydraulic control allows fast, efficient and safe pulling.
- High force hydraulic system for effortless pulling of large components.
- More efficient pulling, as one man can do the job where manual pullers often require two operators.
- Spring loaded live centering cone.
- Supplied with aluminum hydraulic hand pump HHB-700F.

Model	Output (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Weight (Kg)	Packing size (cm)
HHL-20BF	20	25-420	285	100	22	48×20×18
HHL-30BF	30	25-515	340	100	40	52×25×22



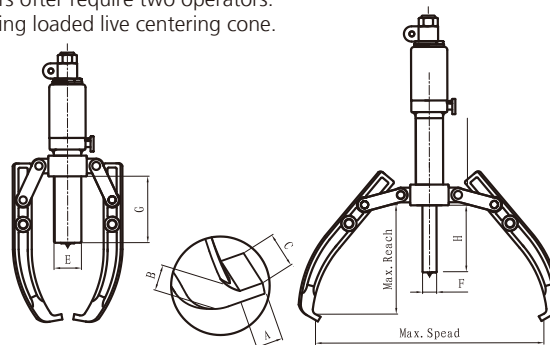
Air Hydraulic Pullers

Air Hydraulic Pullers are used where air compressor is the preferred source of power, featuring time- and labour-saving operation, and increased productivity.



Characteristics:

- Use with 2 or 3 jaws.
- High quality, forged steel jaws and crosshead provide superior reliability and service.
- Air hydraulic control allows fast, efficient and safe pulling.
- High force hydraulic system for effortless pulling of large components.
- More efficient pulling, as one man can do the job where manual pullers offer require two operators.
- Spring loaded live centering cone.



Model	Output (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Dimensions(mm)						Weight (Kg)	Packing size (cm)
					E	F	G	A	B	C		
HHL-5Q	5	200	140	50	45	23	106	12.5	22.5	26	7.3	60×15×17
HHL-10Q	10	250	170	60	56	26	97	14	30	30	10.9	60×15×17
HHL-20Q	20	350	205	70	78	33	105	21	33.5	33	19.2	57×20×18
HHL-30Q	30	400	220	70	90	38	103	26	36	35	25.5	62×20×18
HHL-50Q	50	500	250	60	114	48	117	25	46	40	44.2	67×25×22

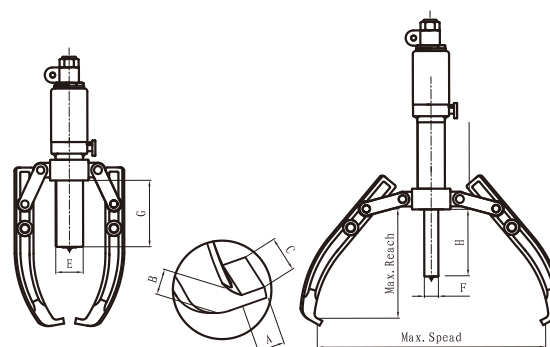
Skid-Resistant Hydraulic Pullers

Slim tapered jaws for better gripping in tight spots.



Characteristics:

- Effortless pulling of large components as one man can do the job.
- High quality, forged steel jaws and crosshead provide superior reliability and service.
- Because of the safety jaw retention system, the pullers will grip on surfaces where normal pullers would slip off, e.g. tapered bearings.



Model	Output (Ton)	Spread (mm)	Max Reach (mm)	Ram stroke (mm)	Dimensions(mm)						Weight (Kg)	Packing size (cm)
					E	F	G	A	B	C		
HHL-5S	5	50-250	140	50	45	23	106	10	10	20	13.8	60×12×17
HHL-10S	10	50-300	170	60	56	26	97	10	10	20	15.1	57×18×16
HHL-20S	20	100-400	205	70	78	33	105	12	12	22.5	20.4	62×25×22



PUMPS

HYDRARITE PUMPS

HYDRARITE®

Featuring Hand, Electric, Air and Gasoline powered models, with multiple reservoir and valve configurations, HYDRARITE offers a wide range of hydraulic pumps to satisfy your various needs.

PUMP SELECTION

Choosing the Right Pump

Step 1 - Select the hydraulic cylinder that best suits the application.

Step 2 - Select the series of hydraulic pump with adequate oil output and reservoir capacity to power cylinder.

Step 3 - Select pump within series with the valve option that is best suited to the cylinder and application.

CONSIDERATIONS:

What maximum system operating pressure (bar) is required?

What volume of oil delivery is required? (For manual pumps, cm³ of oil per handle stroke; for powered pumps, l./min. of oil).

Is a single- or 2-speed pump required? (2-speed pumps deliver high oil volume at low pressure for rapid cylinder piston advance, then shift to the high pressure, low volume stage under load).

What is the preferred source of power?

a) Manual (hand or foot operated). Provides portability, can be used where electricity or shop air are not available.

b) Air Hydraulic. Uses shop air or a portable air compressor.

c) Electric Hydraulic. What voltage is available?

d) Gasoline Engine Hydraulic. Powers high-output pumps at remote job sites where air or electricity are unavailable.

Is portability of the pump a factor to consider?

Will the pump be used intermittently, or will it need to provide high-cycle operation? Does the application require that the pump be capable of starting under load?

Is fluid heat build-up a factor in your application? High cycle applications may require a larger capacity oil reservoir for cooling.

Also, if you are using large displacement cylinders, the reservoir capacity must be sufficient to fully extend the piston of the cylinder.

Will the application require large displacement or multiple cylinders? Reservoir size and pump output levels will be factors to consider.

Does the working environment require a pump having a low operating noise (dBA) level?

Must the pump operate in a spark-free environment?





Choosing The Right Hydraulic Pumps

Hand Operated Hydraulic Pump	Two Speed (Provides rapid advance to engage load)	One-way for single-acting applications	HHB-800B (foot operated, 350 cm3 Res.)	HHB-700C (350 cm3 Res.)	HHB-700, HHB-700B, HHB-700F (700 cm3 Res.)	HHB-1000 (aluminum, 1000 cm3 Res.)	HHB-2000, HHB-700E (2000 cm3 Res.)	HHB-700A (2700 cm3 Res.)	HHB-7000 (7 liters Res.)
		Two-way for double-acting applications	HHB-700S (3000 cm3 Res.)	HHB-7000S (7 liters Res.)					
	Single-Speed (Best for minimal cylinder travel before engage load)	One-way for single-acting applications	HHB-600 (350 cm3 Res.)	HHB-600A (350 cm3 Res.)					
Air Powered Hydraulic Pump	For use where air compressor is available	One-way for single-acting applications	HHB-70AQ (0.69 liters Res.)	HHB-70BQ (1.7 liters Res.)					
Electric Powered Hydraulic Pump	Stationary For application where pump remains in one location performing same task	One-way for single-acting applications	HHM-630M (35 liters Res.)						
		Two-way for double-acting applications	HHB-630B-II (35 liters Res.)	HHB-630B-III (35 liters Res.)					
	Portable For application where pump may be moved frequently to perform task	Highly portable, one-way for single-acting applications	HHB-700L D (0.76 liters Res.)	HHB-630D (2 liters Res.)	HHB-700T (2 liters Res.)	HHB-700D (4 liters Res.)			
		Standard, one-way for single-acting applications	HHB-630A (8 liters Res.)	HHB-630C (8 liters Res.)	HHB-630E (8 liters Res.)	HHB-630F (8 liters Res.)			
	Standard, two-way for double-acting applications	HHB-630B (8 liters Res.)	HHB-630B-I (8 liters Res.)						
Gasoline Powered Hydraulic Pump	Standard, two-way for double-acting applications	HHB-150B (15 liters Res.)							



PUMPS

HYDRARITE PUMPS

HYDRARITE®

Hand Operated Hydraulic Pumps Made of aluminum alloy

Working pressure 700 bar
One-way pump for single-acting cylinders or tools
Supplied with high pressure hose 1.8 meters and NPT 3/8" quick coupler with dust cap.

Characteristics:

- Lightweight, robust, durable and compact.
- Two-speed hydraulic system for fast and easy operation.
- Reduced handle effort and ergonomic grip for less operator fatigue.
- Handle lock and lightweight construction for easy carrying.
- Large and comfortable release knob for improved control of pressure release.
- Internal pressure relief valve for overload protection.
- Large oil capacities to power a wide range of cylinders or tools.



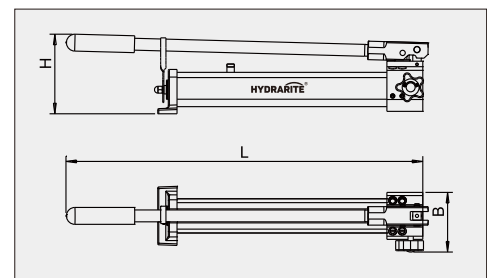
HHB-1000



HHB-700F



HHB-2000



Model	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
	Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-1000	20	700	13	2.3	1300	1000	550	110	125	73×19×19	6.4
HHB-2000	20	700	13	2.3	2500	2000	550	130	140	73×19×19	8.9
HHB-700F	20	700	13	2.3	980	930	620	115	120	73×19×19	6



Hand Operated Hydraulic Pumps

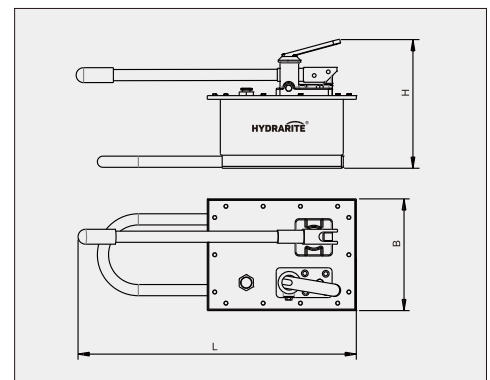
Working pressure 700 bar
 HHB-7000 is one-way pump for single-acting applications.
 HHB-7000S is two-way pump for double-acting applications.
 Supplied with high pressure hose 1.8 meters and NPT 3/8" quick coupler with dust cap.

Characteristics:

- HHB-7000 and HHB-7000S feature extra large reservoirs and high first-stage flow rate. These pumps are ideally suited for powering high-capacity cylinders.
- Two-speed hydraulic system for fast and easy operation.
- Large release valve handle for controlling load descent.



HHB-7000



Model	Pump type	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
		Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-7000	one-way	20	700	126.2	4.75	7500	7000	740	310	330	83×38×35	26.5
HHB-7000S	two-way	20	700	126.2	4.75	7500	7000	740	310	330	83×38×35	27.5



PUMPS HYDRARITE PUMPS



Hand Operated Hydraulic Pumps

Working pressure 700 bar

All these pumps are one-way for single-acting applications.

HHB-700C is supplied with 1.2-meter length high pressure hose. Other pumps are supplied with 1.8-meter length high pressure hose.

HHB-700B comes with pressure gauge and gauge adaptor .

Characteristics:

- Robust, durable and compact.
- Two-speed hydraulic system for fast and easy operation.
- Lower handle effort to minimize operator fatigue.
- Large and comfortable release knob for improved control of pressure release.
- Internal pressure relief valve for overload protection.
- Supplied with NPT 3/8" quick coupler and dust cap.



HHB-700



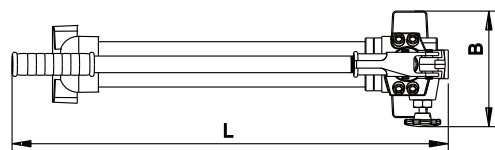
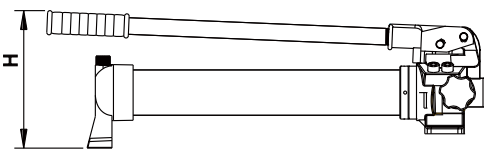
HHB-700A



HHB-700B



HHB-700C



Model	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
	Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-700	20	700	13	1.6	970	950	600	120	200	73×19×19	10.6
HHB-700A	20	700	13	1.6	2750	2100	715	120	200	82×18×18	16.8
HHB-700B	20	700	13	1.6	970	900	600	120	240	75×18×27	12.4
HHB-700C	20	700	3.3	0.8	400	350	380	120	140	60×16×17	5.6



Hand Operated Hydraulic Pumps

Working pressure 600 bar
Single-speed hydraulic system
One-way for single acting hydraulic applications

Characteristics:

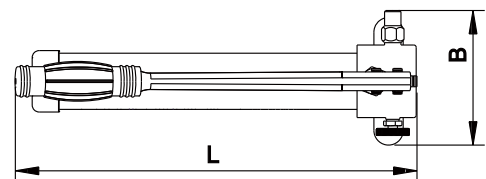
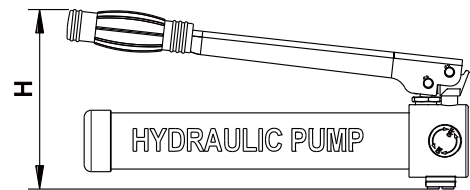
- Compact and lightweight design for easy carrying.
- Vent free reservoir eliminates spills.
- HHB-600 comes with 0.8 meter high pressure hose.
- HHB-600A comes with 1.5 meter high pressure hose.
- Supplied with NPT 3/8" quick coupler and dust cap.



HHB-600A



HHB-600



Model	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
	Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-600	/	600	/	2	190	120	320	100	115	48×26×13	5.8
HHB-600A	/	600	/	2	250	120	370	80	130	48×26×13	6



PUMPS HYDRARITE PUMPS



Hand Operated Hydraulic Pumps

Working pressure 700 bar
 Square and large oil tank
 HHB-700E is one-way pump for single-acting hydraulic applications
 HHB-700S is two-way pump for double-acting hydraulic applications

Characteristics:

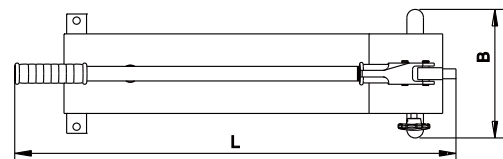
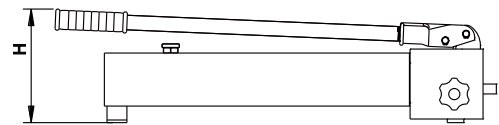
- Robust and durable construction.
- Handle lock (HHB-700E) and quick grip handle. (HHB-700S) for easy transport.
- Two-speed hydraulic system for fast and easy operation.
- Reduced handle effort and ergonomic grip for less operator fatigue.
- Internal pressure relief valve for overload protection.
- Large oil capacities to power a wide range of cylinders or tools.
- Supplied with high pressure hose 1.8 meters and NPT 3/8" quick coupler with dust cap.



HHB-700E



HHB-700S



Model	Pump type	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
		Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-700E	one-way	20	700	13	2.3	2000	1700	710	150	210	73×19×19	13
HHB-700S	two-way	20	700	13	2.3	3300	2600	710	150	275	79×24×27	18.6

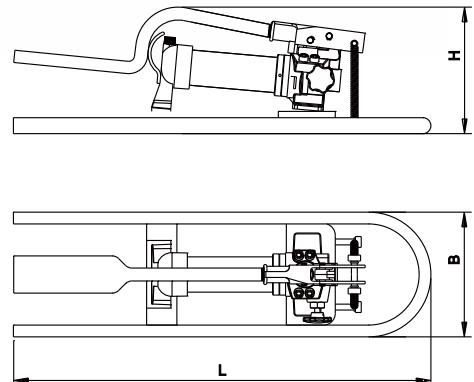


Foot Operated Hydraulic Pumps, HHB-800B

Working pressure 700 bar
These pumps are one-way for single-acting hydraulic applications

Characteristics:

- Robust, durable and compact.
- For handsfree operation.
- Foot pedal lock and lightweight construction for easy carrying.
- Two-speed operation reduces foot pedal strokes.
- Large hand knob release valve for controlling load descent.
- Internal pressure relief valve for overload protection.
- Supplied with high pressure hose 1.8 meters and NPT 3/8" quick coupler with dust cap.



Model	Working pressure (bar)		Oil displacement per stroke (cm ³)		Reservoir (cm ³)		Dimensions (mm)			Packing size (cm)	Weight (Kg)
	Low pressure stage	High pressure stage	Low pressure stage	High pressure stage	Oil capacity	Usable oil capacity	L	B	H		
HHB-800B	20	700	13	2.3	450	400	550	150	300	62×20×26	13.9



PUMPS HYDRARITE PUMPS

HYDRARITE®

Cordless Hydraulic Pump

Working pressure: 700 bar
Performance of a Powered Pump
Portability of a Hand Pump
18-Volt Battery provides maximum battery performance.

Characteristics:

- Lightweight design with carrying handles for portability.
- 3 work modes optional for crimping, cutting, punching applications.
- LED status display allows real-time monitor of the system pressure.
- 18V powerful battery delivers exceptional speed and run time.
- Straight through solenoid valve with pendant allows remote control for operator safety.
- High strength molded shroud protects motor and electrical parts from contamination and damage.
- Built-in safety valve prevents overload.
- Supplied with 1.5 meters high pressure hoses and couplers.
- Supplied with 18V/4.0Ah battery(2 pcs) and charger(1 pc).



Model	HHB-700LD
Working pressure	700 bar
Oil capacity	760ml
Packing dimensions(cm)	32X32X20
Weight	5.5kg
Accessories	
Battery	2 pcs
Charger	1 pc
High pressure hose 1.5 mts	1 pc
Hand-held pendant	1 pc



Cordless Hydraulic Pump

Working pressure: 700 bar
Performance of a Powered Pump
Portability of a Hand Pump
18-Volt Battery provides maximum battery performance.



Characteristics:

- Lightweight design with carrying handles for portability.
- 3 work modes optional for crimping, cutting, punching applications.
- LED status display allows real-time monitor of the system pressure.
- 18V powerful battery delivers exceptional speed and run time.
- Straight through solenoid valve with pendant allows remote control for operator safety.
- High strength molded shroud protects motor and electrical parts from contamination and damage.
- Built-in safety valve prevents overload.
- Supplied with 1.5 meters high pressure hoses and couplers.
- Supplied with 18V/4.0Ah battery(2 pcs) and charger(1 pc).



Model	HHB-700LDA
Working pressure	700 bar
Oil capacity	700ml
Packing dimensions(cm)	26X12X30
Weight	5.7kg
Accessories	
Battery	2 pcs
Charger	1 pc
High pressure hose 1.5 mts	1 pc
Hand-held pendant	1 pc



PUMPS

HYDRARITE PUMPS

HYDRARITE®

Electric Powered Hydraulic Pumps , HHB-700T

These portable pumps are best suited to power small to medium size single-acting cylinders or hydraulic tools, working pressure 700 bar. Its lightweight and compact design make it ideal for applications which require easy transport of the pump.

Characteristics:

- Light weight and portable.
- Large easy-carry handle for maximum portability.
- Two-speed operation reduces cycle times for improved productivity.
- High strength molded shroud protects motor and electrical components from moisture, dirt and damage.
- All valves are 3 position for Advance-Hold-Retract.
- Control pendant allows remote valve operation for operator safety.
- Internal pressure relief valve prevents overloading.
- Oil level glass for oil level monitoring.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



Model	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
		Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-700T	0.65	20	700	3.6	0.6	2	210	145	330	33×15×21	13



Electric Powered Hydraulic Pumps

Standard pumps for most applications
 Working pressure: 700 bar
 Oil reservoir: 8 liters
 HHB-630A and HHB-630C are one-way pumps for single-acting applications.
 HHB-630B is two-way for double-acting applications.

Characteristics:

- Lightweight and carrying handle allows for easy transport of the pump.
- Two-speed operation reduces cycle time for improved productivity.
- All valves are 3 position for Advance-Hold-Retract.
- All the pumps are equipped with pressure gauge, which minimizes the risk of overloading and ensure long, dependable service.
- Manual valve and motor control
- Internal pressure relief valve prevents overloading.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



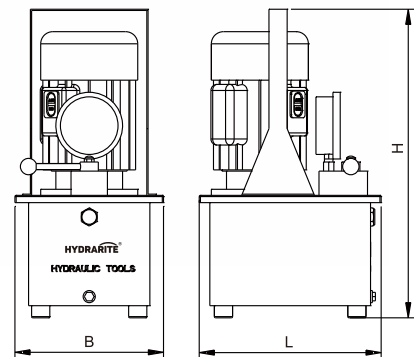
HHB-630A



HHB-630B



HHB-630C



Model	Pump type	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (kg)
			Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-630A	one-way	0.75	20	700	4.6	0.6	7	305	245	510	37×29×53	21
HHB-630C	one-way	0.75	20	700	4.6	0.6	7	305	245	510	37×29×53	21
HHB-630B	two-way	0.75	20	700	4.6	0.6	7	305	245	510	37×29×53	22.5



PUMPS HYDRARITE PUMPS

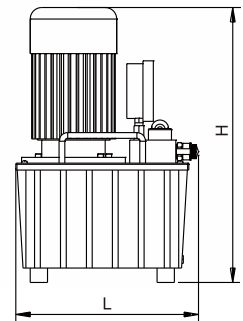
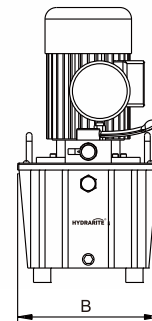


Electric Powered Hydraulic Pumps

Working pressure: 700 bar
 Oil reservoir: 8 liters
 Foot switch enables hands-free remote control
 Solenoid valve makes the pumps ideal for production and lifting
 Both HHB-630E and HHB-630F are one-way pump for single-acting applications.

Characteristics:

- Lightweight and carrying handle allows for easy transport of the pump.
- Two-speed operation reduces cycle time for improved productivity.
- The valves are 3 position for Advance-Hold-Retract.
- The pumps are equipped with pressure gauge, which minimizes the risk of overloading and ensure long, dependable service.
- Internal pressure relief valve prevents overloading.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



Model	Pump type	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
			Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-630E	one-way	0.75	20	700	4.6	0.6	8	325	255	565	37×31×54	22.1
HHB-630F	one-way	0.75	20	700	4.6	0.6	8	305	245	515	37×31×54	23
HHB-630G	three-way	0.75	20	700	4.6	0.6	8	325	255	565	37×31×54	25.2



Electric Powered Hydraulic Pumps

Working pressure: 700bar
Two-stage hydraulic pump
Two-way pump for double-acting applications
Foot switch for hands-free remote control

Characteristics:

- Robust and durable construction.
- Roll frame for easy carrying and protection
- Two-speed operation reduces cycle time for improved productivity.
- All the pumps are equipped with pressure gauge, which minimizes the risk of overloading and ensure long, dependable service.
- Internal pressure relief valve prevents overloading.
- Long, trouble free life in the most demanding work environments.
- HHB-630B-III has a very large 35 liters oil reservoir, which means adequate capacity for multi-cylinder applications.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.

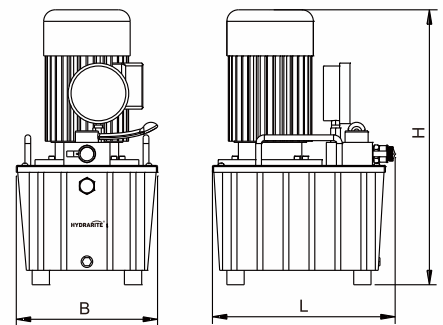
HHB-630B-III



HHB-630B-IA



HHB-630B-I



Model	Pump type	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
			Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-630B-I	two-way	0.75	20	700	4.6	0.6	8	325	255	450	37×31×54	27.2
HHB-630B-IA	Three-way	0.75	20	700	4.6	0.6	8	325	255	450	37×31×54	26
HHB-630B-III	two-way	1.5	20	700	6.0	2.2	35	455	355	630	50×38×70	48.1
	two-way	2.2	20	700	9.0	2.6	35	455	355	660	50×38×70	55.2
	two-way	3.0	20	700	10	3.0	35	455	355	660	50×38×70	59.2



PUMPS HYDRARITE PUMPS

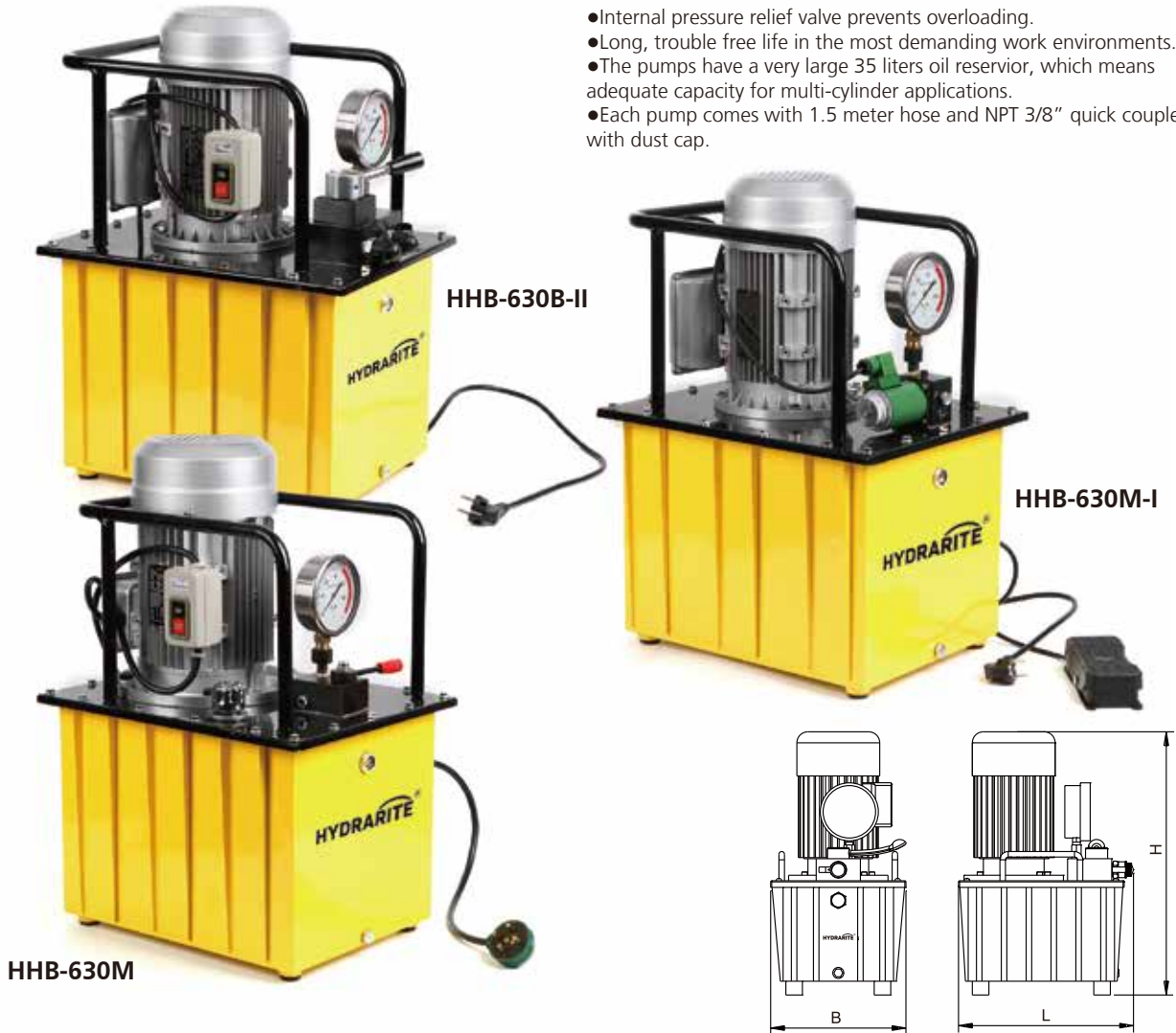


Electric Powered Hydraulic Pumps

Working pressure: 700bar
 Very large 35 liters oil reservoir
 HHB-630M for single-acting applications
 HHB-630B-II for double-acting applications

Characteristics:

- Two-speed operation reduces cycle time for improved productivity.
- All valves are 3 position for Advance-Hold-Retract.
- All the pumps are equipped with pressure gauge, which minimizes the risk of overloading and ensure long, dependable service.
- Manual valve and motor control.
- Internal pressure relief valve prevents overloading.
- Long, trouble free life in the most demanding work environments.
- The pumps have a very large 35 liters oil reservoir, which means adequate capacity for multi-cylinder applications.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



Model	Pump type	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
			Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-630M	one-way	1.5	20	700	6.0	2.0	35	455	355	630	50×38×70	41
		2.2	20	700	9.0	2.6	35	455	355	660	50×38×70	54
		3.0	20	700	10	3.0	35	455	355	660	50×38×70	57.8
HHB-630M-I	one-way	1.5	20	700	6.0	2.0	35	455	355	630	50×38×70	41
		2.2	20	700	9.0	2.6	35	455	355	660	50×38×70	54
		3.0	20	700	10	3.0	35	455	355	660	50×38×70	57.8
HHB-630B-II	Two-way	1.5	20	700	6.0	2.0	35	455	355	630	50×38×70	41
		2.2	20	700	9.0	2.6	35	455	355	660	50×38×70	54
		3.0	20	700	10	3.0	35	455	355	660	50×38×70	57.8



Electric Powered Hydraulic Pumps

Working pressure: 700bar
 Very large 60 liters oil reservoir
 Two-way pump for double-acting applications
 Cooling fan

Characteristics:

- Two-speed operation reduces cycle time for improved productivity.
- All valves are 3 position for Advance-Hold-Retract.
- All the pumps are equipped with pressure gauge, which minimizes the risk of overloading and ensure long, dependable service.
- Manual valve and motor control.
- Internal pressure relief valve prevents overloading.
- Long, trouble free life in the most demanding work environments.
- The pumps have a very large 60 liters oil reservoir, which means adequate capacity for multi-cylinder applications.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



Model	Pump type	Power rating (kw)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
			Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-630B-II-F	Two-way	5.5	20	700	20.2	6.2	60	640	500	850	68×54×86	144
		7.5	20	700	20.2	6.2	60	640	500	850	68×54×86	144



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Gasoline Powered Hydraulic Pumps

HYDRAULIC Gasoline Powered Hydraulic Pumps are a logical choice at work sites where electricity or compressed air are unavailable.

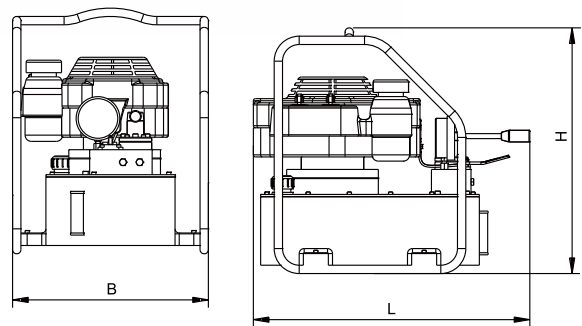
Working pressure: 700 bar
 Oil reservoir: 20 liters

Characteristics:

- KOHLER engine XTX775.
- Manual control valve.
- High-pressure safety relief valve.
- Protective roll cage for use in tough environment.
- For use with either single or double acting tools.
- Each pump comes with 1.5 meter hose and NPT 3/8" quick coupler with dust cap.



HHB-150B



Model	Power rating (HP)	Working pressure (bar)		Flow rate (L/min)		Usable oil capacity (liter)	Dimensions (mm)			Packing size (cm)	Weight (Kg)
		Low pressure stage	High pressure stage	Low pressure stage	High pressure stage		L	B	H		
HHB-150B	5.5	20	700	8	2.5	20	580	360	480	67×44×70	64.8



Air Powered Hydraulic Pumps

HYDRARITE Air Powered Hydraulic Pumps are used where air is the preferred energy source or where electricity is not available. Ideal for use in petrochemical, mines or other inflammable or explosive environments.

Output oil pressure: 700bar
Required to operate on 8 bar(120 psi) shop air

Characteristics:

- Rugged construction – built for long life and easy service.
- Controls the input air and valve by foot pedal, easier to operate than a hand pump.
- Operates in all positions for increased versatility in use.
- Ideal for powering single-acting cylinders and portable hydraulic tools.



HHB-70AQ



HHB-70BQ-D



HHB-70BQ

Model	Output pressure (bar/psi)	Air supply required (bar/psi)	Flow rate (L/min)		Usable oil capacity (liter)	Packing size (cm)	Weight (Kg)
			Low pressure stage	High pressure stage			
HHB-70AQ	700/10000	8/120	0.6	0.1	1.6	37×18×19	8.7
HHB-70BQ	700/10000	8/120	0.6	0.1	2.0	28×15×22	7.5
HHB-70BQ-D	700/10000	8/120	0.6	0.1	3.2	35×29×18	10



ACCESSORIES
HYDRARITE
ACCESSORIES



HYDRARITE offer a complete line of hydraulic accessories to complement your system and ensure the efficient operation, long life and safety of your hydraulic equipment.

Hoses

Max working pressure 700 bar, featuring a 4:1 safety factor
 Do not exceed 700 bar maximum pressure.
 Do not handle hoses which are under pressure.



Note: to order the high pressure hoses, please specify the length and fittings on two ends of the hose.

Hose Oil Capacity

When using greater hose lengths, it is sometimes necessary to fill the pump reservoir after filling the hoses. To determine the hose oil capacity, use the following:

For 6.35mm inside diameter hoses:
 Capacity(cm³)=32.1699xLength(m)

Picture	Part Name	Part Number
	Rubber house	RH_M
	Thermoplastic house	TPH_M



Couplers



The couplers are for quick connection of hose end to system components, working pressure 700 bar.

Thread sealer

To seal NPTF thread use one of the new anaerobic thread sealers or Teflon paste.

Picture		Part Number			Dimensions (mm)					Pressure rating
		Complete Set	Female Half	Male Half	A	B	C	D	E	
		HC7001	HC7001 F	HC7001M	87	53	M10x1.5 female/ M16x1.5 male	27	22	700 bar
		HC7002	HC7002F	HC7002M	94	65	3/8 " NPT	30.3	27	700 bar
		HC7003	HC7003F	HC7003M	83.5	73.5	3/8 " NPT	35	32	700 bar
		HC7004	HC7004F	HC7004M	83.5	73.5	3/8 " NPT	35	32	700 bar
		HC7005	HC7005F	HC7005M	74.5	60.8	1/4" NPT	28.6	28	700 bar
		HC7006	HC7006F	HC7006M	61	44	1/4" NPT	25	22	700 bar
		HC7007	HC7007F	HC7007M	94	65	R2 3/8	30.3	27	700 bar
		HC7008	HC7008F	HC7008M	83	59	R2 3/8	30.3	27	700 bar
		HC15001	HC15001F	HC15001M	81	61.2	G1/4 "	28	22	1500 bar

Note: Value A is total length when male and female half are connected.



ACCESSORIES
**HYDRAULIC
 ACCESSORIES**

HYDRARITE®

Gauges

Gauges are for monitoring pressure of the hydraulic circuit.



PSI-14500



BAR-1000



MPA-1000

Part Name	Part Number	Gauge Face	Thread
Silicon oil filled pressure gauge	PSI-14500	Ø100mm	M20×1.5
	BAR-1000	Ø100mm	M20×1.5
	MPA-1000	Ø60mm	1/4"NPT



Gauge adaptor

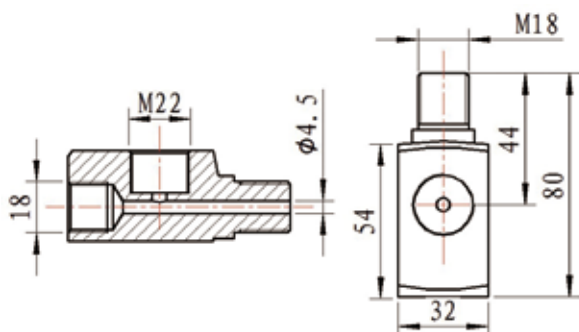
For easy gauge installation into almost any system, HYDRARITE offers a complete line of gauge adaptors.

Gauge Adaptors

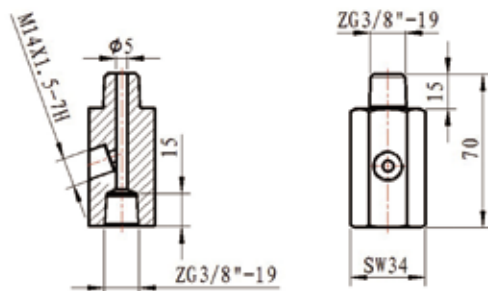
For quick and easy gauge installation



GA7001



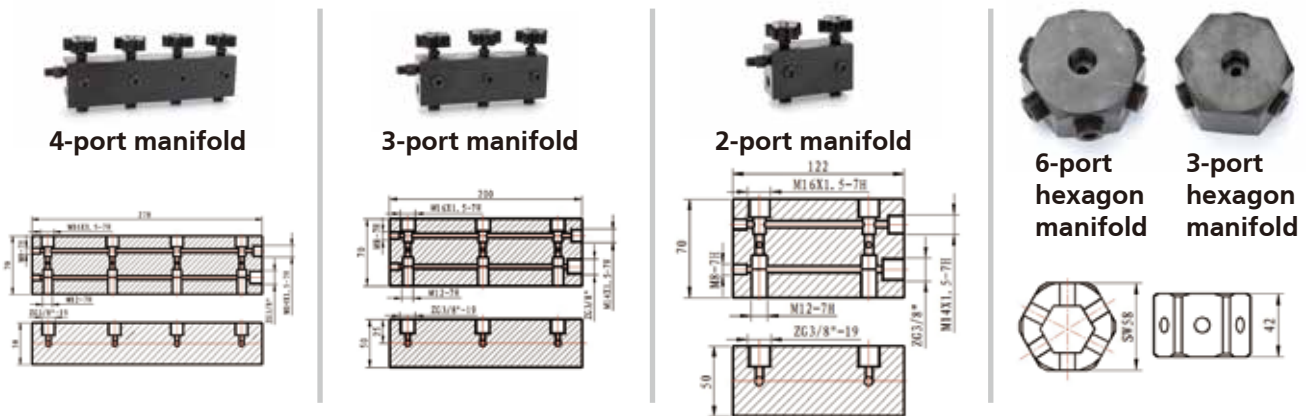
GA7002





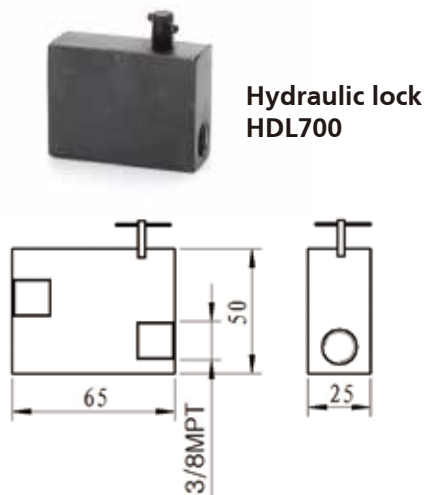
Manifolds

Allow distribution of hydraulic fluid from one power source to several cylinders.
Working pressure 700 bar, outlet port 3/8" NPT.



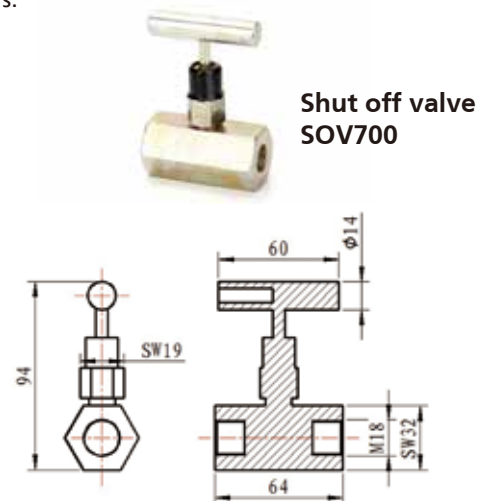
Safety Holding Valve

Controls load descent in lifting applications.



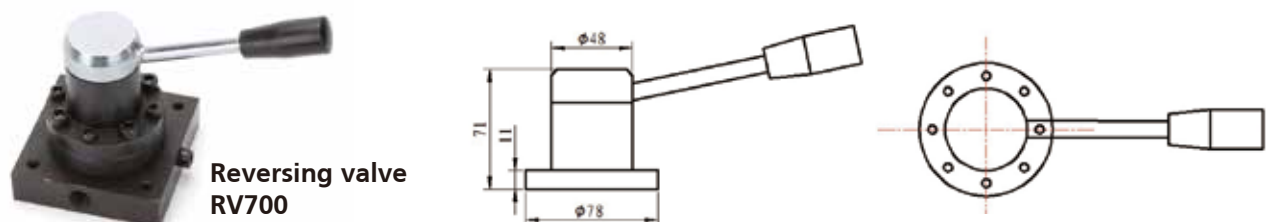
Needle Valve

Regulates the flow of hydraulic fluid to or from the cylinders.



3-Way Directional Control Valve

Controls the direction of hydraulic fluid in a single-acting system.



HYDRARITE[®]

High Pressure Hydraulic Tools Specialist

Reminder:

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