

Beyond innovation of breaking technology



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Hydraulic Breaker **T&H series**  
Hydraulic Compactor / Drivers **V series**  
Hydraulic Drum Cutter **TDC series**  
Hydraulic Magnet **HyMags**

**T&H** T&H CORPORATION (주) 티앤에치코퍼레이션

Hydraulic Quick Coupler **L series**  
Hydraulic Crusher / Shear **CS series**  
Hydraulic Ripper **VibRics**  
Hydraulic Grappler **TSR series**

**T&H** T&H CORPORATION (주) 티앤에치코퍼레이션





# Hydraulic Breakers

## T&H Series

T&H boom mounted hydraulic breakers have been used for several construction projects worldwide for wide range of applications such as foundation, mining, quarry and demolitions even in very tough conditions. The operating system is combined with compressed nitrogen gas to maximize power output and minimize built parts which makes service & maintenance easy.



T&H hydraulic breakers have 16 ranges of operating weight from 100kg to 7,000kg suitable for base machines up to 100 tons such as Skid Steer Loaders, Backhoe Loaders & Excavators.

- ▶ Air intake system offers long service life for major consumable parts such as bushings & retaining pins due to proper lubrication & air cooling during operation
- ▶ Variety of options for different applications (Auto Grease System, Underwater Kit, Soundproof Kit, Tunneling Kit & Water Jet Kit)
- ▶ Unique design for housing bracket along with damping systems prevents damage of excavator & free maintenance operation
- ▶ The selector system for Auto Stop & Auto Idle is providing less trouble & maintenance cost even in tough conditions jobs
- ▶ Extended durability, efficiencies & service life, with low cost maintenance and trouble free
- ▶ Higher impact rate and low vibration thanks to new design of through bolts & piston



### specifications

Descriptions	T&H 10	T&H 30	T&H 50	T&H 60	T&H 70	T&H 120	
Operating weight(kg)*1)	with mounting bracket	158	178	306	430	595	950
	without mounting bracket	135	152	284	405	562	905
Overall height(mm)	with mounting bracket	1,265	1,403	1,583	1,760	2,027	2,279
	without mounting bracket	1,115	1,244	1,381	1,519	1,760	1,992
Operating pressure(bar)	80~110	90~120	95~130	100~130	130~150	150~170	
Required oil flow(liter/min)	20~30	25~40	30~45	40~80	60~100	80~110	
Impact rate(BPM)	600~1,200	500~1,000	450~750	450~950	400~800	450~800	
Tool diameter(mm)	Ø45	Ø53	Ø68	Ø75	Ø85	Ø100	
Hose Diameter(inch)	1/2	1/2	1/2	3/4	3/4	3/4	
Carrier weight(tons)	0.5~2.0	1.0~4.5	2.5~7.0	3.5~9.0	6.0~10.0	7.0~12.0	
Feature overview	Auto greasing kit	■	■	■	■	■	■
	Underwater kit	■	■	■	■	■	■
	Soundproof(SP) kit	■	■	■	■	■	■
	Dustproof(DP) kit	■	■	■	■	■	■
	Auto stop(Anti blank firing)	-	-	-	-	-	■
	Auto start	-	-	-	-	-	-
	Adjustment frequency(BPM)	-	-	-	-	-	-
	Adjustment impact power	-	-	-	-	-	■

T&H 140	T&H 160	T&H 220	T&H 230	T&H 250	T&H 320	T&H 420	T&H 470	T&H 520	T&H 720
970	1,300	1,750	1,900	1,880	2,460	3,050	3,600	4,550	6,910
925	1,160	1,520	1,680	1,650	2,240	2,580	3,120	3,800	6,090
2,220	2,520	2,754	2,826	2,829	2,951	3,213	3,276	3,682	4,158
1,935	2,180	2,374	2,456	2,448	2,531	2,781	2,844	3,139	3,598
140~180	160~180	160~180	160~180	160~180	160~180	160~180	160~180	160~180	160~180
80~130	90~130	135~180	120~180	150~190	160~220	190~250	220~280	250~310	350~450
400~1,000	300~900	300~650	200~700	300~600	200~500	200~450	200~600	150~350	120~320
Ø110	Ø120	Ø135	Ø140	Ø145	Ø150	Ø160	Ø170	Ø180	Ø200
3/4	1	1	1	1	1&1/4	1&1/4	1&1/4	1&1/4	1&1/4
10.0~16.0	15.0~22.0	17.0~29.0	19.0~32.0	25.0~32.0	27.0~42.0	32.0~52.0	36.0~60.0	45.0~80.0	85.0~100.0

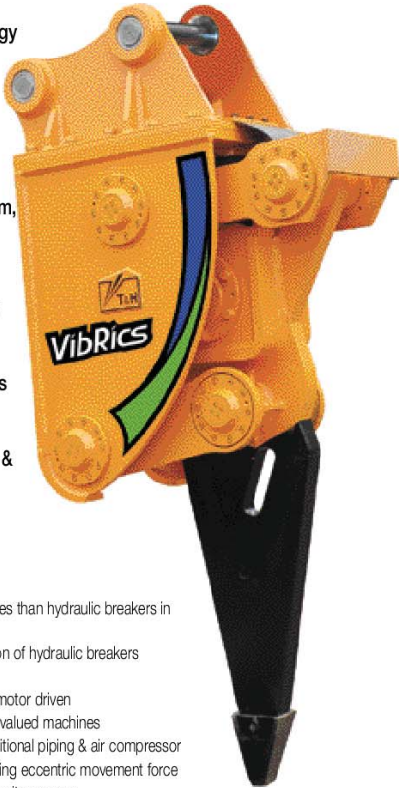
Note)

- \*1) Operating weight includes standard mounting bracket(adaptor) with working tool.
- Above data are indicative and subject to change without notice.



# Hydraulic Rippers VibRics Series

VibRics is an innovation technology in rock breaking & demolishing equipment for hydraulic excavators with higher performance, productivity, low noise & free maintenance cost. Excavation in non-igneous rock such as concrete, asphalt, gypsum, limestone, etc. by hydraulic breakers, always has higher maintenance cost due to easy break down and less productivity cause by efficiency less. For better efficiency and productivity we suggest VibRics is one of solution. VibRics is using hydraulic motor driven eccentric movement force & generated great vibratory force.



## Products overview

- ▶ Higher efficiency & productivity 3-5 times than hydraulic breakers in application stratum areas
- ▶ 30-50% lower noise level than operation of hydraulic breakers
- ▶ Less maintenance cost & saving time
- ▶ Simple operating system as hydraulic motor driven
- ▶ Less vibration with no damage in your valued machines
- ▶ Ability to work underwater without additional piping & air compressor
- ▶ Increase ripping performance with adding eccentric movement force
- ▶ Great vibration force from compressed nitrogen gas

## Specifications

Descriptions	VibRics1020	VibRics2030	VibRics3050	VibRics4060
Working Weight	kgs 1,620	1,910	3,050	5,460
Operating Pressure	bar 100 ~ 200	180 ~ 210	200 ~ 220	220 ~ 250
Required Oil Flow	l /min 60 ~ 100	120 ~ 180	180 ~ 240	250 ~ 320
Pressure, Motor return	bar 5	5	5	5
	In 3/4	1	1 ~ 1-1/4	1-1/4
Line Connection	Out 3/4	1	1 ~ 1-1/4	1-1/4
	Drain 1/4	3/8	3/8	1/2
Frequency	Vpm 2,000 ~ 2,500	2,000 ~ 2,300	1,800 ~ 2,200	1,800 ~ 2,200
Carrier Weight	tons 12.0 ~ 22.0	18.0 ~ 34.0	27.0 ~ 45.0	36.0 ~ 72.0

▶ Above technical specifications are indicative and subject to change without notice.



# Hydraulic Drum Cutters TDC Series



## Products overview

- ▶ High cutting force
- ▶ 4 models from 3 to 50 tons base carriers
- ▶ Low maintenance
- ▶ Low vibration
- ▶ Low noise

TDC series are particularly for working in the construction industry, cutting channels and tunnels, for renovation work or for road works, but also for smoothing and profiling rock and concrete walls. Application to fit 3-50 tons excavators, backhoe loaders, skid steer loaders & various tunneling equipments.



## Specifications

Descriptions	TDC 35	TDC 135	TDC 235	TDC 345
Operating weight	kg 372	1,000	1,420	1,860
Input power	kW 25	30	55	80
Max. Peak power	kW 34	40	70	120
Max. Operating pressure	bar 350	350	350	350
Oil flow required	l /min 30 ~ 80	60 ~ 150	120 ~ 270	180 ~ 320
Cutting speed	rpm 120 ~ 300	90 ~ 130	65 ~ 113	50 ~ 90
Cutting head to qv	mm 5,200	5,300	12,500	24,000
Cutter diameter	mm 360	460	560	630
No. of pbk	2 x 22	2 x 24	2 x 26	2 x 30
Carrier weight	tons 3.0 ~ 12.0	10.0 ~ 22.0	18.0 ~ 32.0	24.0 ~ 56.0

▶ Above technical specifications are indicative and subject to change without notice.





# Hydraulic Grapplers

# TSR Series

TSR grapplers are designed for handling recyclable materials and loading/unloading of various materials.

### Products overview

- ▶ Designed minimum height can load or unload to high place
- ▶ Solid structure and minimize weight
- ▶ Maximize the capacity of a task
- ▶ Main frames are made by Hardox steel for long life time
- ▶ Tooth changeable
- ▶ Hydraulic free rotation
- ▶ Protection device of cylinder rod



### Specifications

Descriptions		TSR135A	TSR235A	TSR335A	TSR435A	
Operating Weight	kg	1,200	1,560	1,800	2,200	
Loading Capacity	liter	600	800	1,000	1,500	
Overall Height	When opened	mm	1,304	1,392	1,600	1,739
	When closed	mm	1,535	1,647	1,863	2,081
Overall Width	When opened	mm	1,174	1,945	2,178	2,513
	When closed	mm	928	961	1,198	1,376
Operating Pressure	bar	250	250	250	250	
Oil Flow Rate	lpm	~120	~160	~220	~260	
Carrier Weight	tons	12.0~18.0	18.0~25.0	28.0~35.0	32.0~46.0	

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# Hydraulic Crusher / Shear

# CS Series



CS Series are excavator-mounted attachments for main demolition work and secondary crushing work as well as buildings, bridges & remodelings.



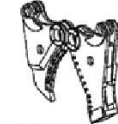
PULVERIZER(CSM series)



DEMOLITION(CSD series)



CRUSHER(CS series)



SHEAR(CSS series)

### Products overview

- ▶ Dual cylinder system for speedy & powerful operation
- ▶ Enhanced durability by applying Hardox steel
- ▶ Easy maintenance
- ▶ Powerful performance with minimum vibration
- ▶ The Speed-up valve can accelerate work speed (option)
- ▶ M : Free rotating / MR : Hydraulic rotating
- ▶ Easy converting jaw assembly on job application

### Specifications

Descriptions		CS40R /MR*	CS65R/MR	CS80R/MR	CS140R/MR
Working Weight	kg	460 / 540	1,020 / 1,100	1,530 / 1,650	2,480 / 2,630
Operating Pressure	bar	210	280	300	320
Crushing Force	tons	42	88	225	335
Operating Width-Max.	mm	620	490	900	1,100
Cutter Length	mm	100	150	180	180
Overall Height	mm	1,382	1,835	2,200	2,700
Overall Width	mm	815	1,131	1,358	1,643
Carrier Weight	tons	3.0~7.0	10.0~18.0	18.0~26.0	27.0~36.0

R\* : Free rotation

MR\* : Hydraulic Motor rotation(10-18rpm)

▶ Above technical specifications are indicative and subject to change without notice.



# Hydraulic Magnet HyMags Series



The HyMags, hydraulic magnets are designed for demolition, scrap industries, recycling and any applications as attachment structure, and easy operation Plug & Play just connecting two lines of hydraulic Input & Output, All in One, combined magnet coil, pump, generator and control valve are mounted own system,

HyMags takes lifting power from Hydraulic system and run Magnet, HyMags can play multiple functions for any applications on your machine, Why your valued machine working only for Electric Magnet, HyMags can play Plug & Play,

Do you require to modify your machine to work with Magnet, T&H designed HyMags is easy installation,

No more waste time & cost to install magnet on your machine, Just connecting two lines of hydraulic Input & Output,

HyMags is All in One system, Complete magnet coil, pump, generator and control valve are mounted in HyMags System, HyMags is suitable for demolition, scrap industries, recycling and any applications as attachment structure,

T&H HyMags is Automatic Operation system, Operated by breaker on/off switch or pedal, Meanwhile necessary action for running will be managed by HyMags itself, Running hydraulic power-pressure & oil flow-controlled automatically without adjustment,

## Specifications

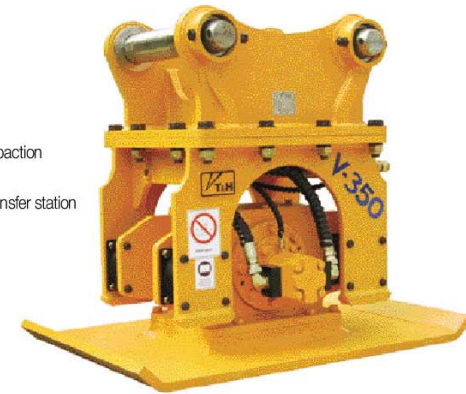
Descriptions		HyMags700	HyMags900	HyMags1100	HyMags1300	HyMags1500	
Magnet Diameters	mm	φ 700	φ 900	φ 1,100	φ 1,300	φ 1,500	
Required Oil Flow	l /min	20 ~ 30	33 ~ 62	47 ~ 66	69 ~ 95	91 ~ 110	
Operating Pressure	bar	250	250	250	250	250	
Line Connection	inch	1/2	3/4	1	1	1	
Coil Power(220VDC)	kW	3	4.9	8.6	13	18	
Operating Weight	kg	580	1,050	1,950	2,650	3,000	
Carrier Wight	tons	5.0 ~ 15.0	12.0 ~ 22.0	18.0 ~ 30.0	24.0 ~ 45.0	32.0 ~ 56.0	
Lifting Capacity	Steel Plate	kg	2,500	4,500	6,500	8,500	11,000
(approximate)	Cast Iron Ingots	kg	120	250	450	700	1,100
	Scrap Metal	kg	100	200	400	600	900

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## Hydraulic Compactors

# V Series



### Products overview

- ▶ Soil and aggregate compaction
- ▶ Steep slope compaction
- ▶ Waste compaction at transfer station
- ▶ Driving pile



The V-series boom mounted hydraulic compactors are designed for greater jobsite productivity on your excavator or backhoe, The greatest impulse forces with overall superior performance through hydraulically operated rotating eccentric action,

"Plug and Play" Built-in pressure & oil flow control valve,



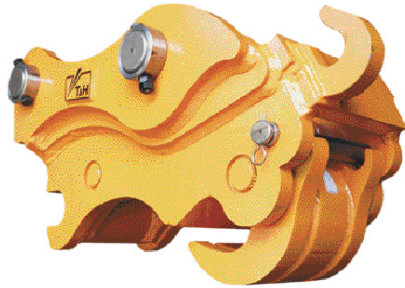
## Specifications

Descriptions		V70	V160	V250	V350
Impulse Force-Continuous	tons	2.5	5.0	8.0	10.0
Frequency	vpm	2,000	2,000	2,000	2,200
Operating Weight	kg	250	600	870	980
Base Plate Dimensions	mm	500 X 650	700 X 900	850 X 1100	900 X 1300
Operating Pressure	kg/cm <sup>2</sup>	90 ~ 140	90 ~ 140	120 ~ 140	120 ~ 160
Required Oil Flow-Max.	l /min	65	130	160	180
Suitable Base Machine	tons	3.0 ~ 7.0	8.0 ~ 16.0	15.0 ~ 26.0	25.0 ~ 35.0
Port Size- In & Out	inch	1/2	3/4	1	1

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## Hydraulic Quick Couplers

# L Series



"L series" Quick Coupler allows easy changing and time saving with an adjustable design that fits a variety of excavator attachments in your job.

### Products overview

- ▶ Attachments changeover in seconds with simple operation
- ▶ No need modification your bucket
- ▶ Larger clamping ranges to fit various brand of base machines
- ▶ A pilot operated check valve integrated in clamping cylinder even hose failure
- ▶ A external locking pins can be installed as dual safety device



### Specifications

Descriptions		L-50P	L-100P	L-200P	L-300H	L-400H
Working Weight	kg	70	180	250	450	650
Clamping	Min.	mm	230	310	430	480
	Stroke	Max.	mm	320	450	540
Length	mm	529	717	940	1,012	-
Height	mm	280	395	504	546	-
Working Pressure	bar	30 ~ 240				
Required Oil Flow	l /min	22				
Suitable Base Machine	tons	3.0 ~ 6.0	7.0 ~ 15.0	18.0 ~ 25.0	25.0 ~ 35.0	32.0 ~ 45.0

▶ Above technical specifications are indicative and subject to change without notice.

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TH201608-V.20E/FLU

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