

CATALOGUE 2022

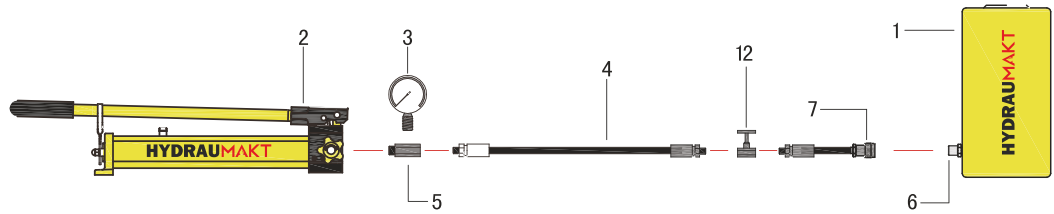


# HYDRAUMAKT

*High Pressure Hydraulic Tools & Equipments*

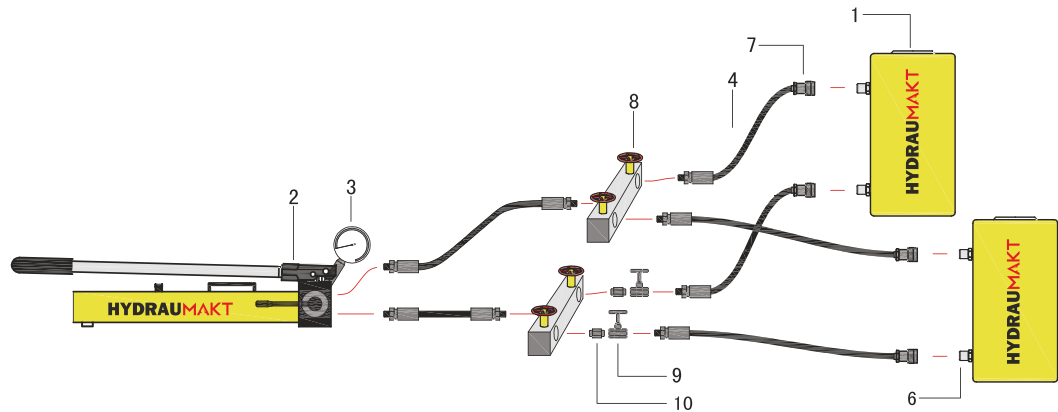
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# HYDRAULIC CYLINDER SET-UPS



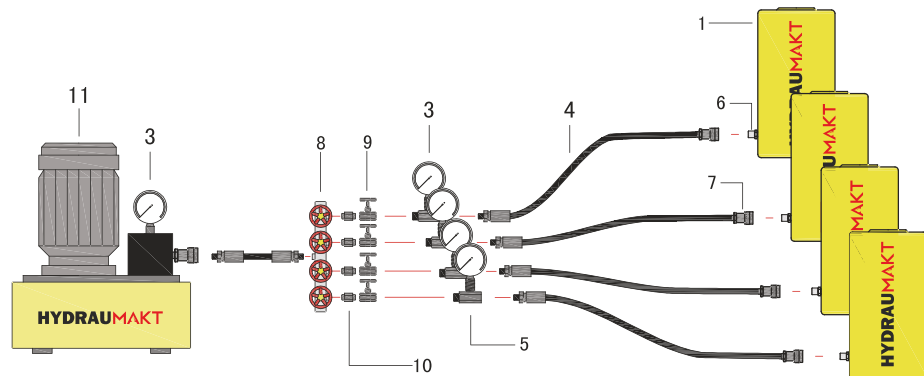
## Set-up one: One-way hand pump+Hose+Single acting hydraulic cylinder

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: 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 Three: 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.

- 1. Cylinder
- 2. Hand pump
- 3. Pressure gauge
- 4. Hose
- 5. Gauge adaptor
- 6. Female coupler

- 7. Male coupler
- 8. Manifold
- 9. Throttle valve
- 10. Connector
- 11. Electric pump
- 12. Safety holding valve

## PRESSURE GAUGE

### Features

Model	Face Dia (in)	Psi/Bar	Silicon Filled	Type
HG-2	2.5	14,000/1000	YES	ANALOG
HG-4	4	10,000/700	NO	ANALOG



### Features

- HG-Series Gauges are Calibrated with dual scale reading in PSI and Bar.
- Gauges feature an easily readable and highly visible needle.
- High Strength steel bourdon tube ensures high cycle Life.
- Stainless Steel case for better safety at site.
- HG series gauges are glycerine filled for better needle protection during sudden load releases. (optional)
- Fast and easy installation.

## HIGH PRESSURE HYDRAULIC HOSES

Max. Pressure : 700 Bar



Model No. Rubber	Model No. Thermoplastic	Length (feet)	Hose end assemblies and couplers	
			End One	End Two
HH-3	HHP-3	3	3/8" NPTF	3/8" NPT
HH-6	HHP-6	6	3/8" NPTF	3/8" NPT
HH-10	HHP-10	10	3/8" NPTF	3/8" NPT
HH-15	HHP-15	15	3/8" NPTF	3/8" NPT
HH-20	HHP-20	20	3/8" NPTF	3/8" NPT

## HYDRAULIC MANIFOLD

MODEL NO.	DESCRIPTION
HM-3	Extremely Useful when connecting two hydraulic cylinders to a single line. Has Three 3/8" NPTF Ports
HM-7	Seven 3/8" NPTF ports and two 6.4 mm mounting holes.
HM-7L	This 406 mm Long Manifold Block allows you to mount the valve without interference. Has seven 3/8" NPTF Ports and two mounting holes
HM-21	3 port Manifold with 2 Valves for Control of Two Cylinders.
HM-31	Manifold with Valves for Control of Three Cylinders. Has five 3/8" NPTF Ports.
HM-41	Manifold with 4 needle Valves for Control of 4 Cylinders . Has Six 3/8" NPTF Ports.

## GAUGE ADAPTOR

Max. Pressure : 700 Bar

Model	Gauge Port (NPTF)	Male End (NPT)	Female END (NPTF)
HGA-1	1/4"	3/8"	3/8"
HGA-2	1/2"	3/8"	3/8"

### Features

- Easy Mounting of a Pressure Gauge on to your System. Male End Screws in to pump or cylinder Port, Female end accepts hose or coupler, 3rd Port is for Gauge Connection.

## HYDRAULIC COUPLERS

Thread : 1/4 & 3/8" NPT

Max. Flow Capacity : 34 L/min

Max. Pressure : 700 Bar



Complete Set	End Fittings	Pressure
HC-10	3/8" NPT	700 Bar
HC-20	1/4" NPT	700 Bar

### Features

- Standard on most Cylinders and tools.
- Each Coupler is valved with a precision ball for a tight shut off when disconnected.
- Includes a Special 2 in 1 flexible dust cap, suitable for both Male and female couplers.

## NEEDLE VALVE (HV-2)

### Features

- To control Cylinder Speed. Can Also be used as Shut-Off Valve for Temporary load holding. 3/8" NPTF female Ports. This Needle valve Permits fine metering of Hydraulic Oil. Can be Used for Controlling Multiple Single Acting Cylinders .



## HBC/HCC Series

### CRIMPING TOOLS

#### Hydraulic Crimping Tool



### Features

- Open C-type crimping head with 42 mm Width, rotating 360 degree.
- 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.
- Large crimping area up to 400mm<sup>2</sup>
- Light Weight due to high quality aluminum housing.
- 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.
- Ram retraction by turning the release knob anticlockwise.
- Molded plastic carry case.

Model	Hydraulic Ram Output	Ram Stroke	Battery Capacity	Crimping Range	Crimping Times	Crimp Pattern	Battery	Charging Time	Crimping Dies	Qty of Battery	Charger	Seals	Weight (Kg)	TYPE
HBC-400E	11 Ton	42 mm	150 Crimping Cycles	16-400 mm <sup>2</sup>	6s-18s (Depend on the size of cable)	-	18V/4.0Ah Li-ion	2 Hours	16,25,35,50,70,95,120,150,185,240,300, 400 mm <sup>2</sup>	2 Pcs	1 Pc	1 Set	17.3	Battery Powered
HCC-400E	11 Ton	42 mm	-	16-400 mm <sup>2</sup>	Hexagonal Type	Hexagonal Type	-	-	16,25,35,50,70,95,120,150,185,240,300, 400	-	-	-	12.1	HYDRAULIC
HCC-300	11 Ton	17 mm	-	16-300 mm <sup>2</sup>	Hexagonal Type	Hexagonal Type	-	-	16,25,35,50,70,95,120,150,185,240,300	-	-	-	9.5	HYDRAULIC



## HCC-HMCT Series

### Features

- 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.
- Designed as a portable tool for installing compression sleeves and terminals for transmission construction and maintenance work.
- Requires an external double acting HYDRAULIC PUMP WITH RATED OIL PRESSURE OF 700 BAR.

### Mechanical

- Rotatable Hexagonal crimping Jaws.
- Effort-saving and low maintenance mechanical drive.
- Exact cross-section assignment thanks to permanent marking on the jaws.

## HYDRAULIC CRIMPING HEADS

*Double-Acting, 200 Tons*



Model	Output Force (Ton)	Ram Stroke (mm)	Crimping Range (mm <sup>2</sup> )	Crimping dies (mm <sup>2</sup> )	Crimp Pattern	Gross Weight (Kg)	TYPE
HCC-200T	200	40	150-1440	6,30,80,01,00,01,14,01,000	Hexagonal Type	110	Hydraulic
HMCT-50	50	390	6-50	6,10,16,25,35,50	Hexagonal Type	1.4	Mechanical

## HCT Series

### CABLE CUTTER



### Features

- Two-Stage Hydraulic System features fast feed and power stroke upon reaching counter pressure, Saving time.
- Press Manual reset button to retract the ram when cutting is complete.
- 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.
- Strong, Lightweight, fiber glass, Handles.
- Twist Handle Pressure release.
- Built-in Pressure relief valve for overload protection.




### Mechanical

- 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.

Model	HCT-50A	HCT-40A	HCT-100J
Type	Battery Operated	Hand Operated	Mechanical
Hydraulic Ram Output	8.5 Ton	9 Ton	-
Ram Stroke	50 mm	-	-
Battery capacity	70 Cutting Cycles	-	-
Cutting range	50mm (Copper, Aluminum and armored cable)	40 mm (Copper, Aluminum /Armored cable/Aluminum Conductors cable steel-reinforced)	For Cutting Off Copper & Aluminum in Armoured cable with is smaller than 3x300 mm <sup>2</sup>
Battery	18V/4.0Ah Li-ion	-	-
Charging Time	2 Hours	-	-
Qty of Battery	2 Pcs	-	-
Charger	1 Pc	-	-
Seals	1 Set	-	-
Weight (Kg)	14.5	9.3 Kgs	6.5 Kg

# TABLE OF BOLT-TORQUE

Bolt D	A/F Hex S	Hex Key J	Recommend Torque				
mm	mm	mm	Nm	Nm	Nm	Nm	Nm
M 14	22	12	69	98	137	165	225
M 16	24	14	98	137	206	247	353
M 18	27	14	137	206	284	341	480
M 20	30	17	176	296	402	569	480
M 22	32	17	225	333	539	765	911
M 24	36	19	314	470	686	981	1176
M 27	41	19	441	637	1029	1472	1764
M 30	46	22	588	882	1225	1962	2350
M 33	50	24	735	1127	1470	2060	2450
M 36	55	27	980	1470	1764	2453	2940
M 39	60	27/30	1176	1764	2156	2943	3626
M 42	65	32	1519	2352	2744	3826	4606
M 45	70		1764	2744	3136	4415	5390
M 48	75	36	2254	3430	3920	5592	6664
M 52	80	36	2744	4116	4704	6573	8330
M 56	85	41	3528	5149	5978	8437	10290
M 60	90	46	4018	5978	7742	10791	13230
M 64	95	46	4998	7448	8820		
M 68	100	50	5684	8528	10780		
M 72	105	55	6468	9800	12640		
M 76	110	60	7350	10780	14700		
M 80	115	65	8143	12250	18130		
M 85	120	70	8820	13720	22050		
M 90	130	70/75	10584	16170	24500		
M 100	145	85	13720	20090			
M 110	155	--	16366	24990			

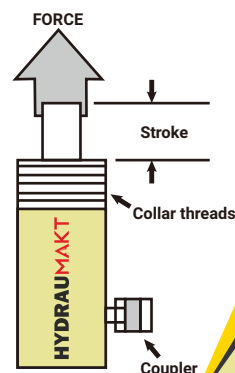
METRIC SIZES		
		
Thread Size D (mm)	Hexagon Size S (mm)	Hexagon Size J (mm)

## WHAT TYPE OF CYLINDER DO YOU NEED?

1. To determine a cylinder's force capacity:  $\text{FORCE (kg)} = \text{Effective Area (cm}^2\text{)} \times \text{Pressure from Pump (bar)}$

2. To determine oil capacity of a cylinder:  $\text{OIL CAPACITY (cm}^3\text{)} = \text{Cylinder Effective Area (cm}^2\text{)} \times \text{Cylinder Stroke (cm)}$

3. To determine reservoir capacity needed for a multiple cylinder system:  $\text{OIL CAPACITY (cm}^3\text{)} = \text{Cylinder Effective Area (cm}^2\text{)} \times \text{Cylinder Stroke (cm)} \times \text{Number of Cylinders}$



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

# HYDRAUMAKT



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## Our Quality Policy



Each product is tested to the most excruciating standards.

Only this way we can ensure the un-interrupted performance of our products. Our High Quality product matched with the unbeatable enables us to cater to the requirements of the markets. We recognize that consistent satisfaction of customer needs is essential to business survival & we diligently work towards securing a long term partnership.



## Warranty Statement

*Each HYDRAUMAKT Product with the exception mentioned below are warranted against defects in workmanship and materials for the period of one year from the date of delivery to the buyer. The Warranty does not cover any product or part which is abused, heated, damaged, broken, worn out or otherwise altered or used in a manner inconsistent with the instructions or used for a purpose otherwise not intended for.*

*Electric motors , circuits , batteries , blades, cutters etc. supplied with Hydraumakt tools are not covered under this warranty .*

*For this warranty to take effect the costumer has to return the defective product to the Hydraumakt or its authorized Distributor on Freight Paid basis. If the Product is found to be defective by Hydraumakt as per the conditions stated above , the Hydraumakt shall repair or replace the product on its discretion and the same shall be returned on Freight Pre Paid basis.*

*The Warranty is limited to the Hydraumakt product and not extended beyond their product or any incidental ancillary.*

# HYDRAUMAKT

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