

High Pressure Hydraulic Tools \& Equipments

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 reservior 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.

## HYDRAUMAKT

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

## TORQUE SEQUENCE

## "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, torque is applied in stages following a prescribed pattern:"

## Torque Sequence



## Step 1

Spanner tight ensuring that 2-3 threads extend above nut.
Step 2
Tighten each bolt to one-third of the final required torque following the pattern as shown above.

## Step 3

Increase the torque to two-thirds following the pattern shown above.

## Step 4

Increase the torque to full torque following the pattern shown above.

## Step 5

Perform one final pass on each bolt working clockwise from bolt 1 , at the full final torque.

## HYDRAUMAKT

| Torque Unit |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  | Pressure |  |
| $1 \mathrm{Nm}=0.7376 \mathrm{Ft}$. lbs | Ft.lbs $=1.3558 \mathrm{Nm}$ | $1 \mathrm{psi}=0.069$ bar | $1 \mathrm{bar}=14.50 \mathrm{psi}$ |
| $1 \mathrm{Nm}=8.08507 \mathrm{Ft}$.in | Ft.in $=0.1130 \mathrm{Nm}$ |  | $=9.8 \mathrm{~N} / \mathrm{cm}^{3}$ |
| $1 \mathrm{Nm}=0.1019 \mathrm{Kgf.m}$ | Kgf.m $=9.8068 \mathrm{Nm}$ |  | $=100000 \mathrm{~Pa}$ |


| Other Measurement |
| :--- |
| $1 \mathrm{hp}=0.746 \mathrm{~kW}$ |
| $1 \mathrm{~kW}=1.35 \mathrm{hp}$ |
| $1 \mathrm{kN}=225 \mathrm{Lbs}$ |
| 1 inch $=25.4 \mathrm{~mm}$ |
| Temperature |
| $\mathrm{T}^{\mathrm{O}}$ convert ${ }^{\circ} \mathrm{C}$ to ${ }^{\circ} \mathrm{F}$ |
| $\mathrm{T}^{\mathrm{O}} \mathrm{F}=\left(\mathrm{T}^{\circ} \mathrm{C} \times 1.8\right)+32$ |


| Volume Conversion |
| :--- |
|  |
| $1 \mathrm{in}^{3}=16.387 \mathrm{~cm}^{3}$ |
| $1 \mathrm{~cm}^{3}=0.061 \mathrm{in}^{3}$ |
| 1 litre $=61.02 \mathrm{in}^{3}$ |
| $=0.264$ gal |
| 1 gallon $=3.78$ Litr |


| Weigt Conversion |
| :--- |
|  |
| $1 \mathrm{Lb}=0.4536 \mathrm{Kg}$ |
| $1 \mathrm{Kg}=2.205 \mathrm{Lbs}$ |
| $1 \mathrm{Ton}=2205 \mathrm{Lbs}$ |
| $=1000 \mathrm{~kg}$ |
| 1 US Ton $=2000 \mathrm{Lbs}$ |

## HSQ Series

## Features

- Lock ring couplers comes a standard fitting.
- Accuracy of $\pm 3 \%$ enhances the perfection of work done.
- Curved nose radius along with 360 rotatable coupler/hose connections allow easier positioning and workability in confirmed areas.
- Push Button drive for tightening and/or loosening.
- Light Weight titanium alloy makes the tool so light that a single operator can do the entire job with ease.
- Double acting system ensures that the work completes much faster than the conventional torque wrenches.
- 360 Rotatable , 60 point adjustable reaction arm helps in using the tool in any direction /position.
- Durable corrosion resistant coating gives the tool longer life.



## SQUARE DRIVE HYDRAULIC TORQUE WRENCH



Reaction pawi design to stop reversion, enhance
efficiency and precision of torque

| Type | 07HSQ | 1HSQ | 3HSQ | 5HSQ | 8HSQ | 10HSQ | 20HSQ | 25HSQ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Torque (N.M) | 112-1120 | $\mathbf{1 8 3 - 1 8 3 7}$ | $\mathbf{4 5 1 - 4 5 1 2}$ | $\mathbf{7 5 2 - 7 5 2 8}$ | $\mathbf{1 0 7 8 - 1 0 7 8 0}$ | $\mathbf{1 5 5 1 - 1 5 5 1 6}$ | $\mathbf{2 6 6 6 - 2 6 6 6 4}$ | $\mathbf{3 4 7 2 - 3 4 7 2 5}$ |
| Sq. Drive | $3 / 4^{\prime \prime}$ | $3 / 4^{\prime \prime}$ | $1^{\prime \prime}$ | $1^{1 / 2^{\prime \prime}}$ | $1^{1 / 2^{\prime \prime}}$ | $1^{1 / 2^{\prime \prime}}$ | $2^{1 / 2^{\prime \prime}}$ | $2^{1 / 2^{\prime \prime}}$ |
| Weight (Kg) | 1.8 | 2.5 | 5 | 8 | 11 | 15 | 26.5 | 35 |
| L1 | 110.8 | 144.5 | 178 | 210.5 | 222 | 245.5 | 307.5 | 323 |
| L2 | 139.3 | 173.5 | 229 | 270.5 | 293 | 317.5 | 383.5 | 401 |
| H1 | 42 | 50 | 68 | 80 | 90 | 100 | 120 | 137 |
| H2 | 65.8 | 72 | 95 | 123 | 134 | 142 | 183 | 200 |
| H3 | 76.2 | 96 | 127 | 149 | 167 | 182 | 220 | 247 |
| H4 | 108.1 | 131 | 176.5 | 199 | 217 | 232 | 270 | 297 |

## HHX Series

## Features

# HEXAGONAL CASSETTE TORQUE WRENCH 



- Lock ring couplers comes as standard fitting.
- Accuracy of $\pm 3 \%$ enhances the perfection of work done.
- Curved nose radius along with 360 rotatable coupler/hose connections allow easier positioning and workability in confined areas.
- Interchangeable cassettes gives you the economy of using one tool for various sizes of nuts/bolts, just snap it and use it.
- Light Weight titanium alloy makes the tool so light that a single operator can do the entire job with ease.
- Double acting system ensures that the work completes much faster than the conventional torque wrenches.
- Integrated reaction arm and few moving part gives the tool longer life.

| Model | Torque Range (NM) | Bolt Size (mm) | Drive Unit <br> Weight (Kg) | Hex Cassette Weight Kg. | Dimension (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | L | H1 | H2 | W1 | W2 |
| 2-HHX | 223-2328 | 19-55 | 1 | 1.6 | 198.4 | 125.9 | 102.3 | 32 | 51 |
|  | 241-2414 | 60 | 1 | 1.7 | 196.4 | 128.5 | 105 | 32 | 51 |
| 4-HHX | 585-5858 | 34-65 | 2 | 4.4 | 245 | 177 | 135.7 | 42 | 66 |
|  | 647-6474 | 70-80 | 2 | 4.6 | 246 | 187 | 145.7 | 42 | 66 |
| 8-HHX | 1094-10941 | 41-95 | 3.3 | 8 | 300 | 207 | 169 | 53 | 83 |
|  | 1177-11774 | 100-105 | 3.3 | 8.4 | 301 | 216 | 178 | 53 | 83 |
| 14-HHX | 1852-18521 | 50-117 | 5.5 | 11.6 | 361 | 239 | 204 | 64 | 99 |
| 30-HHX | 4188-41882 | 110-155 | 11.4 | 29 | 430 | 303 | 272 | 85 | 131 |
|  | 4459-44593 | 160-175 | 11.4 | 30 | 441 | 315 | 285 | 85 | 131 |

## HYDRAUMAKT

## HEPW Series

| Model No. | Max. <br> Pressure <br> (Bar) | Flow <br> (L/M/H) <br> L/Min | Voltage <br> (V) | Remote <br> Cord <br> (Mtr.) | Weight <br> (Kg) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HEPW-4000 | 700 | $7-1.6-0.8$ | $220 \mathrm{v} / 1 \mathrm{ph}$. | 6 | 26.7 |

## TORQUE WRENCH ELECTRIC PUMP

## Features

- High power two speed portable torque wrench powerpack.
- Suitably located oil fill port makes it easy for operator to top up oil.
- Adjustable pressure regulator makes it convenient to set desired torque.
- Equipped with heavy duty rolled cage bars for easy portability.
- Rugged design for severe conditions.
- Quick release couplers and dust caps are standard on all models.
- Powerpack to operate upto 4 tools are also available on request.
- Option of oil cooler for longer duty cycle.


## TORQUE WRENCH AIR PUMPS

## Features

- Use where air is the preferred source of power.
- Powerfull 3HP motor starts under full load.
- Adjustable pressure regulator makes it convenient to set desired torque.
- Retract side internal relief valve protects tool from over pressurization.

| Model No. | Max. <br> Pressure <br> (Bar) | Flow <br> (L/M/H) <br> L/Min | Air <br> Pressure <br> (bar) | Remote <br> Cord <br> (Mtr.) | Weight <br> (Kg) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HAPW - <br> $\mathbf{5 0 0 0}$ | 700 | $7-1.6-0.8$ | $4-8$ | 6 | 20.5 |



## HAPW Series



## TORQUE WRENCH TWIN HOSES

| Model | Max. <br> Pressure <br> (Bar) | ID (mm) | Length <br> (mtrs) |
| :---: | :---: | :---: | :---: |
| HTH -20 | 700 | 9.5 | 6 |
| HTH-30 | 700 | 9.5 | 9 |
| HTH -50 | 700 | 9.5 | 15 |



## HTL Series

## ELECTRIC TORQUE WRENCH

## Features

- Small volume, light weight suitable for high altitude and narrow space work.
- Digital torque control \& display.
- High repeated accuracy \& stability.
- Easy to carry strong plastic moulded box.


| Model | Voltage | Current | Power | Torque Range | Freq | Square Drive | RO Speed | Weight (Main Body) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HTL-3B | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{array}{r} \hline 6 \mathrm{~A} \\ 12 \mathrm{~A} \\ \hline \end{array}$ | 1300W | 100-300 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 19 * 19 \mathrm{~mm} \\ (3 / 4 " * 3 / 4 ") \end{gathered}$ | 24 rpm | 4.4 kgs |
| HTL-5B | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{array}{r} \hline 7 \mathrm{~A} \\ 14 \mathrm{~A} \\ \hline \end{array}$ | 1650W | 200-500 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 19 * 19 \mathrm{~mm} \\ (3 / 4 " * 3 / 4 ") \end{gathered}$ | 15.5 rpm | 4.5 kgs |
| HTL-9B | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{array}{r} \hline 7 \mathrm{~A} \\ 14 \mathrm{~A} \\ \hline \end{array}$ | 1650W | 400-900 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 25.4 * 25.4 \mathrm{~mm} \\ (1 " * 1 ") \\ \hline \end{gathered}$ | 9.5 rpm | 5.3 kgs |
| HTL-7LP | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{array}{r} \hline 8 \mathrm{~A} \\ 16 \mathrm{~A} \\ \hline \end{array}$ | 1800W | 350-700 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 25.4 * 25.4 \mathrm{~mm} \\ (1 * * 1 ") \\ \hline \end{gathered}$ | 15 rpm | 4.7 kgs |
| HTL-12LP | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{array}{r} \hline 8 \mathrm{~A} \\ 16 \mathrm{~A} \\ \hline \end{array}$ | 1800W | 500-1200 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 25.4 * 25.4 \mathrm{~mm} \\ (1 " * 1 ") \\ \hline \end{gathered}$ | 9 rpm | 5.5 kgs |
| HTL-21LP | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{gathered} \hline 8 \mathrm{~A} \\ 16 \mathrm{~A} \\ \hline \end{gathered}$ | 1800W | 900-2100 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 25.4 * 25.4 \mathrm{~mm} \\ (1 " * 1 ") \\ \hline \end{gathered}$ | 6 rpm | 6.6 kgs |
| HTL-35G | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 12 \mathrm{~A} \\ & 24 \mathrm{~A} \end{aligned}$ | 2800W | 1700-3500 | $50-60 \mathrm{~Hz}$ | $\begin{array}{c\|} 38 * 38 \mathrm{~mm} \\ \left(1-1 / 2{ }^{2} * 1-1 / 2 " \mathrm{~mm}\right) \\ \hline \end{array}$ | 2.5 rpm | 12 kgs |
| HTL-60G | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 12 \mathrm{~A} \\ & 24 \mathrm{~A} \\ & \hline \end{aligned}$ | 2800W | 2000-6000 | $50-60 \mathrm{~Hz}$ | $\begin{array}{c\|} 38^{*} 38 \mathrm{~mm} \\ \left(1-1 / 2^{2} * 1-1 / 2 " \mathrm{~mm}\right) \\ \hline \end{array}$ | 0.6 rpm | 18.5 kgs |
| HTL-100G | $\begin{aligned} & 230 \mathrm{~V} \\ & 115 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 12 \mathrm{~A} \\ & 24 \mathrm{~A} \\ & \hline \end{aligned}$ | 2800W | 5000-10000 | $50-60 \mathrm{~Hz}$ | $\begin{gathered} 38 * 38 \mathrm{~mm} \\ \left(1-1 / 2{ }^{2} * 1-1 / 2 " \mathrm{~mm}\right) \\ \hline \end{gathered}$ | 0.3 rpm | 21 kgs |

## HYDRAUMAKT

## HTD-S Series

## Features

- Pump and hose are no longer needed. To do precise bolting process, it only requires power supply of $220-240 \mathrm{~V} 50-60 \mathrm{~Hz}$
- Continous rotation without impact. When reaching the preset torque, it will stop automatically. More functional than hydraulic wrench by intermittent drive.
- Single-Chip Intelligent torque control system, with fault self-checking function and power-off memory function. Accuracy : $\pm 5 \%$
- Human Computer Interface. Torque value is shown directly on LCD display 'Torque Table' is not needed.
- Double Anti-Overload protection. Electronic System against overitighten and the clutch against overload, they can protect rotating component effectively.


## I



## DIGITAL ELECTRIC TORQUE WRENCH STRAIGHT TYPE

Portable, Easy to use and Hassle Free


| Model | Min torque (Nm) | Max-Torque (Nm) | Square Drive Size C (mm) | $\mathbf{D}(\mathbf{m m})$ | L (mm) | Width E (mm) | Weight (Kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HTD-06S | 100 | 600 | $3 / 4^{\prime \prime}$ | 88 | 432 | 208 | 6.6 |
| HTD-08S | 100 | 800 | $3 / 4^{\prime \prime}$ | 88 | 432 | 208 | 6.7 |
| HTD-12S | 200 | 1200 | $1^{\prime \prime}$ | 88 | 439 | 208 | 6.8 |
| HTD-26S | 400 | 2600 | $1^{1 "}$ | 88 | 486 | 208 | 8.6 |
| HTD-38S | 500 | 3800 | $1^{1 / 2^{\prime \prime}}$ | 88 | 496 | 208 | 9.2 |
| HTD-60S | 1000 | 6000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 525 | 208 | 16 |
| HTD-80S | 1200 | 8000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 558 | 208 | 18 |
| HTD-100S | 1800 | 10000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 558 | 208 | 18.2 |
| HTD-120S | 2000 | 12000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 558 | 208 | 18.4 |

## HTD-A Series

## DIGITAL ELECTRIC TORQUE WRENCH ANGLED TYPE

## Digital Display Torque System



## Features

- Pump and hose are no longer needed. To do precise bolting process, it only requires power supply of $220-$ $240 \mathrm{~V}, 50-60 \mathrm{~Hz}$
- Compared to straight type, the angled is more suitable for limited working space.
- Precise planet structure, high torque/weight ratio, low noise, strong and durable, no leakage and easy maintenance.
- Double Speed design, high/low Speed can be Shifted freely.
- Special design of one-piece reaction arm, it's much better on strength and using life than casting and weld pieces. Adjustable by 360 -degree.
- Pistol handle of human engineering. Its cushion rubber can reduce $50 \%$ of the vibration. Free connection of power handle and drive units, it can rotate in reverse.
- Industrial grade design for continous using. It can meet the needs of production assembly, engineering installation and maintenance.


| Model | Min torque <br> $(\mathbf{N m})$ | Max-Torque <br> $(\mathbf{N m})$ | Square Drive <br> Size C (mm) | D <br> $(\mathbf{m m})$ | L <br> $(\mathbf{m m})$ | Width E <br> $(\mathbf{m m})$ | Weight <br> $(\mathbf{K g})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HTD-06A | 100 | 600 | $3 / 4^{\prime \prime}$ | 88 | 339 | 252 | 7.8 |
| HTD-08A | 100 | 800 | $3 / 4^{\prime \prime}$ | 88 | 339 | 252 | 7.9 |
| HTD-12A | 200 | 1200 | $1^{\prime \prime}$ | 88 | 339 | 259 | 8 |
| HTD-26A | 400 | 2600 | $1^{\prime \prime}$ | 88 | 339 | 306 | 9.8 |
| HTD-38A | 500 | 3800 | $1^{1 / 2^{\prime \prime}}$ | 88 | 339 | 316 | 10.4 |
| HTD-60A | 1000 | 6000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 339 | 345 | 17.2 |
| HTD-80A | 1200 | 8000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 339 | 378 | 19.2 |
| HTD-100A | 1800 | 10000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 339 | 378 | 19.4 |
| HTD-120A | 2000 | 12000 | $1^{1 / 2^{\prime \prime}}$ | 129 | 339 | 378 | 19.6 |

## HYDRAUMAKT

## HPT Series

## Features

- Air supply: 6 bar compressed air, max consumption is 600L/min
- Preset torque,output \& repeat accuracy: $\pm 5 \%$ and $\pm 3 \%$
- Powerful \&low noise, less than 80Dba under load
- More suitable for limited working space compared to the straight type
- With manual 2-speed gearbox, high/low speed can be shifted freely
- Equipped with brake system to protect the operator
- Supply scope: Air regulator, hose, quick coupling (air inlet connector of air regulator is excluded)

| Model | Torque (Nm) | Square C | Free speed* | Weight $^{*}$ |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  | (rpm) | $\mathbf{( k g )}$ |
| HPT-14A | $200-1400$ | $1 "$ | 22 | 7.9 |
| HPT-29A | $410-2900$ | $1 "$ | 9 | 8.7 |
| HPT-40A | $560-4000$ | $1-1 / 2^{\prime \prime}$ | 7 | 10.4 |
| HPT-62A | $870-6200$ | $1-1 / 2^{\prime \prime}$ | 5 | 12.3 |
| HPT-120A | $1880-12000$ | $1-1 / 2^{\prime \prime}$ | 2 | 19.6 |

## PNEUMATIC TORQUE <br> WRENCH - <br> ANGLED \& STRAIGHT



| Model | Torque (Nm) | Square C | Free speed* | Weight* |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  | (rpm) | (kg) |
| HPT-150S | $45-180$ | $1 / 2^{\prime \prime}, 3 / 4^{\prime \prime}$ | 42 | 6 |
| HPT-500S | $170-680$ | $1 / 2^{\prime \prime}, 3 / 4^{\prime \prime}$ | 25 | 7 |
| HPT-750S | $250-1020$ | $3 / 4^{\prime \prime}, 1^{\prime \prime}$ | 15 | 7 |
| HPT-1000S | $340-1400$ | $3 / 4^{\prime \prime}, 1^{\prime \prime}$ | 9 | 7 |
| HPT-2000S | $750-3000$ | 1 ", 1-1/2" | 6 | 10 |
| HPT-3000S | $1010-4050$ | 1 ", 1-1/2" | 3 | 11 |
| HPT-4000S | $1350-5400$ | $1-1 / 2^{\prime \prime}$ | 2.5 | 13.6 |
| HPT-5000S | $1650-6500$ | $1-1 / 2^{\prime \prime}$ | 2 | 13.6 |
| HPT-6000S | $2200-8100$ | $1-1 / 2^{\prime \prime}$ | 1.5 | 13.6 |

## HPN Series

## Features

- Pistol type design with high torque output (Except HPN 762, 1062 \& 1262 )
- The side handle for added comfortable \& easy control.
- Adjustable forward / reverse regulator with 3 torque in forward and one full power setting in reverse.


| Model | RPM FREE STAGE | AVERAGE AIR CONSUMPTIO N 25\% SCFM | MAX. <br> TORQUE |  | SOUND (dBA) <br> Pressure/ Power | Exhaust | Air Pressure |  | Air Inlet | Length |  | Weight (KG) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Nm | Ft-Lb |  |  | Psi | $\mathrm{Kg} / \mathrm{Cm}$ |  | mm | in |  |
| 1/2" Sq Drive |  |  |  |  |  |  |  |  |  |  |  |  |
| HPN-1160 | 7,200 | 7.0 | 610 | 450 | N/A | Front | 90 | 6.3 | 1/4" | 187 | 7.36 | 2.55 |
| HPN-2360 | 7,500 | 8.0 | 1287 | 950 | 95.9/106.9 | Handle | 90 | 6.3 | 1/4" | 198 | 7.8 | 2 |
| 3/4" Sq Drive |  |  |  |  |  |  |  |  |  |  |  |  |
| HPN-761B | 4,000 | 11.6 | 2031 | 1500 | N/A | Side | 90 | 6.3 | $3 / 8$ " or 1/2" | 335 | 13.2 | 6.5 |
| HPN-1161 | 4,500 | 6.4 | 1084 | 800 | N/A | Handle \& Front | 90 | 6.3 | 1/4" | 260 | 10.2 | 4.5 |
| HPN-661 | 4,500 | 9.7 | 1490 | 1100 | 101.5/112.5 | Handle | 90 | 6.3 | 3/8" | 240 | 9.5 | 3.8 |
| 1" Sq Drive |  |  |  |  |  |  |  |  |  |  |  |  |
| HPN-262 | 3,500 | 11 | 2439 | 1800 | N/A | Front | 90-115 | 6.3-8 | 3/8" or 1/2" | 280 | 11.00 | 9.00 |
| HPN-762C | 2,600 | 15 | 3388 | 2500 | N/A | Side | 90-115 | 6.3-8 | $3 / 8$ " or $1 / 2^{\prime \prime}$ | 400 | 15.75 | 12.7 |
| HPN-1262C | 3,500 | 14.5 | 4472 | 3300 | N/A | Side | 90-115 | 6.3-8 | $3 / 8$ " or $1 / 2^{\prime \prime}$ | 400 | 15.75 | 17 |
| $1^{1 / 2^{\prime \prime}}$ Sq Drive |  |  |  |  |  |  |  |  |  |  |  |  |
| HPN-1062A | 2,800 | 16 | 4472 | 3300 | N/A | Side | 90-115 | 6.3-8 | 1/2" | 603 | 23.7 | 19.5 |

## HTM Series

## Features

- Heavy Duty rugged design
- Standartd Non Ratcheting \& rachet models avaiable.
- Use Torque Multiplier to achieve higher torque.


## MANUAL TORQUE

WRENCH


| MODEL |  | TECHNICAL SPECIFICATIONS |  |  |  | OAL at Min Capacity (mm) |  | Head Width (mm) |  | Weight (Kgs) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standard | Ratchet | Sq. drive | LB FT | N-M | Kg-Mts | Standard | Ratchet | Standard | Ratchet | Standard | Ratchet |
| HTM-10 | HTM-10R | 3/8" | 2-10 | 3-14 | 0.3-1.4 | 315 | 345 | 25 | 36 | 0.5 | 0.65 |
| HTM-25 | HTM-25R | 3/8" | 5-25 | 5-35 | 0.5-3.5 | 340 | 375 | 25 | 36 | 0.6 | 0.70 |
| HTM-50 | HTM-50R | 1/2" | 10-50 | 14-68 | 1-7 | 460 | 495 | 30 | 42 | 1.0 | 1.10 |
| HTM-100 | HTM-100R | 1/2" | 20-100 | 25-135 | 3-14 | 560 | 590 | 32 | 48 | 1.60 | 1.90 |
| HTM-160 | HTM-160R | 1/2" | 40-160 | 50-220 | 5-23 | 580 | 600 | 32 | 48 | 2.20 | 2.50 |
| HTM-250 | HTM-250R | 1/2" | 50-250 | 70-340 | 7-35 | 785 | 810 | 32 | 48 | 2.80 | 3.00 |
| HTM-400 | HTM-400R | 3/4" | 100-400 | 135-540 | 14-56 | 1010 | 1080 | 48 | 72 | 6.20 | 7.30 |
| HTM-500 | HTM-500R | 3/4" | 100-500 | 135-675 | 14-170 | 1060 | 1130 | 48 | 72 | 6.20 | 7.30 |
| HTM-600 | HTM-600R | 3/4" | 145-605 | 200-315 | 20-84 | 1060 | 1130 | 48 | 72 | 6.20 | 7.30 |
| HTM-750 | HTM-750R | 3/4" | 350-750 | 457-1015 | 49-105 | 1250 | 1320 | 56 | 79 | 11.3 | 13.70 |
| HTM-1000 | HTM-1000R | 1 " | 400-1000 | 540-1380 | 55-140 | 1300 | 1400 | 70 | 100 | 13.6 | 17.60 |
| HTM-1400 | HTM-1400R | $1{ }^{\prime \prime}$ | 750-1400 | 1000-1900 | 105-195 | 1420 | 1520 | 70 | 100 | 15.0 | 20.00 |
| HTM-2000 | HTM-2000R | $1{ }^{\prime \prime}$ | 1000-2000 | 1350-2700 | 135-275 | 1510 | 1615 | 70 | 100 | 20.0 | 22.10 |
| HTM-2000 | HTM-2500R | $1 "$ | 1500-2500 | 2030-3430 | 207-347 | 1620 | 1720 | 70 | 100 | 21.5 | 25.00 |

## MANUAL TORQUE MULTIPLIER

| Model No. | Capacity |  | Ratio | Square Drive (Inch) |  | A | B | $\begin{array}{\|c\|} \hline \mathrm{C} \\ \hline \text { min } \end{array}$ | $\begin{array}{\|c\|} \hline \mathrm{C} \\ \hline \max \end{array}$ | Weight* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N.m | Ibf.ft |  | Input | Output | mm | mm | mm | mm | kg |
| HMT-6 | 3400 | 2500 | 5 | 3/4 | 1.1/2 | 116 | 158 | 105 | 260 | 9.2 |
| HMT-6/25 | 3400 | 2500 | 25 | 1/2 | 1.1/2 | 116 | 211 | 105 | 260 | 12 |
| HMT-7 | 6000 | 4500 | 5 | 3/4 | 1.1/2 | 142 | 171 | 115 | 310 | 18 |
| HMT-7/25 | 6000 | 4500 | 25 | 1/2 | 1.1/2 | 142 | 230 | 115 | 310 | 22 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |
| HMT-9/25 | 9500 | 7000 | 25 | 3/4 | 1.1/2 | 196 | 243 | 150 | 350 | 33 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |
| HMT-9/125 | 9500 | 7000 | 125 | 1/2 | 1.1/2 | 196 | 325 | 150 | 350 | 35.5 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |
| HMT-11/25 | 17000 | 12500 | 25 | 3/4 | 2.1/2 | 220 | 355 | 164 | 480 | 52 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |
| HMT-11/125 | 17000 | 12500 | 125 | 1/2 | 2.1/2 | 220 | 404 | 164 | 480 | 57 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |
| HMT-13/125 | 47500 | 35000 | 125 | 3/4 | 2.1/2 | 315 | 550 | 164 | 480 | 80 |
| Fitted with AWUR |  |  |  |  |  |  |  |  |  |  |

## Features

- Accuracy better than $\pm 4 \%$.

Precision tightening and loosening of all heavy duty fasteners.

- Low energy input with high torque transfer.
- Higher capacity multipliers are furnished with strong ratchets (Anti-wind up mechanism) allowing jobs to be performed easily, efficiently, and safely.
- Precision Manufacturing ensures long life and premier quality.
A groove on output Square breaks if over loaded in excess of $20 \%$ of its capacity. Highest possible load factor is guaranteed due to design and use of forged components.


## HNS Series

## SELF CONTAINED HYDRAULIC NUT SPLITTERS

## Features

- 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 | Output force (ton) | Bolt Range (mm) | Hexagonal Nut Range (mm) | G.W (Kg) |
| :--- | :---: | :---: | :---: | :---: |
| HNS-24 | 14 | M8-M24 | $14-36$ | 7 |
| HNS-27 | 20 | M22-M27 | $32-41$ | 6.8 |



HYDRAULIC NUT SPLITTERS

## Features

- 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 R2 3/8 female Coupler and dust cap.
- Operated by Hydraulic Pump with rated pressure of 700 Bar.
- Optional blades can be ordered as spare.

| Model | Output force (ton) | Bolt Range (mm) | Hexagonal Nut Range (mm) | G.W (Kg) |
| :---: | :---: | :---: | :---: | :---: |
| HNS-24B | 14 | $\mathrm{M} 8-\mathrm{M} 24$ | $14-36$ | 3.3 |
| HNS-1319 | 5 | $\mathrm{M} 6-\mathrm{M} 12$ | $10-19$ | 1.6 |
| HNS-1924 | 10 | $\mathrm{M} 12-\mathrm{M} 16$ | $19-24$ | 2.4 |
| HNS-2432 | 15 | $\mathrm{M} 16-\mathrm{M} 22$ | $24-32$ | 4.1 |
| HNS-3241 | 20 | $\mathrm{M} 22-\mathrm{M} 27$ | $32-41$ | 5.6 |
| HNS-4150 | 35 | $\mathrm{M} 27-\mathrm{M} 33$ | $41-50$ | 10 |
| HNS-5060 | 50 | $\mathrm{M} 33-\mathrm{M} 39$ | $50-60$ | 14 |
| HNS-6070 | 90 | $\mathrm{M} 39-\mathrm{M} 48$ | $60-75$ | 36 |

## HYDRAUMAKT

## HWS Series

## Features

Manual Hydraulic Operation

- Use Stepped Blocks to increase Wedge Opening up to 81 mm
- Safe and Reliable Hydraulic System
- Operated by Hydraulic Pump with rated Pressure of 700 bar

HYDRAULIC
WEDGE SPREADER


| Model | Max. <br> Spreading <br> Force (Ton) | Tip Clearance <br> $(\mathbf{m m})$ | Max. Spread <br> $(\mathbf{m m})$ | Type | Oil Capacity <br> $\left(\mathbf{C m}^{\mathbf{3})}\right.$ | G. W (Kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HWS-8 | 8 | 6 | 77 | Mechanical Type | - | 10.4 |
| HWS-10 | 10 | 6 | 81 | Hydraulic Type | 70 | 11.5 |
| HWS-1481 | 14 | 6 | 81 | Hydraulic Type | 70 | 10.2 |

HFS Series
HYDRAULIC FLANGE SPREADERS

## Features

- Light Weight, Ergonomic design for ease of use.
- Adjustable Jaw Widths from 70 to 216 mm for a wide range of Applications.
- S/A, Spring Return
- Operated by Hydraulic Pump with rated Pressure of 700 Bar.

| Model | Max. Flange <br> Thickness (mm) | Stud Size (mm) | Standard Wedge <br> $(\mathrm{mm})$ | Output Force <br> (ton) | Stroke (mm) | Gross <br> Weight <br> $(\mathrm{Kg})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HFS-538 | $2 \times 57$ | $19-28$ | $3-28$ | 5 | 38 | 6 |
| HFS-1054 | $2 \times 92$ | $31-41$ | $3-28$ | 10 | 54 | 13.2 |


| ASA rating (Bar) | Pipe Size (mm) |  |
| :---: | :---: | :---: |
|  | HFS-538 | HFS-1054 |
| $\mathbf{1 0}$ | $127-508$ | $558-1066$ |
| $\mathbf{2 0}$ | $63-355$ | $406-711$ |
| $\mathbf{2 7}$ | $63-304$ | $355-609$ |
| $\mathbf{3 5}$ | $63-254$ | $304-508$ |
| $\mathbf{6 2}$ | $12-152$ | $203-406$ |
| $\mathbf{1 0 3}$ | $12-088$ | $101-203$ |
| $\mathbf{1 7 2}$ | $12-063$ | $76-101$ |

## 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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## Authorised Indian Distributor:

 Industrial Marketing \& Services