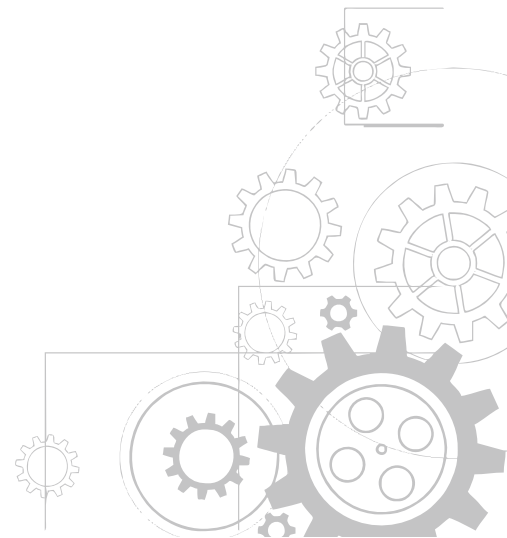




**CORE SECTOR**  
**ENGINEERING**  
**SOLUTIONS PROVIDER**



## Your Reliable Business Partner

Gemini Power Hydraulics is a trusted engineering solutions partner with a legacy spanning over three decades! At Gemini, we pride ourselves on providing world-class solutions that enhance **safety, reliability and productivity** across multiple sectors of the industry. With partnerships with leading global business partners, our own manufacturing capabilities, and a wide range of services, we are dedicated to meeting and exceeding customer needs from major sectors like aviation, energy, defence, mining, cement, metals, construction, capital goods manufacturing, automotive, industrial/electrical automation, and many more. Choose Gemini for excellence in engineering solutions and experience the difference that our legacy and expertise can make for your business. Contact us, and let's power up your operations together!!

## OUR BUSINESS AREAS

### BUSINESS PARTNERS

- ▶ Authorised partner of top International brands.
- ▶ Serving Industrial tools and access platforms.

— Authorised Partner —



**Pascal**



### MANUFACTURING

- ▶ Specialising in innovative and advanced manufacturing techniques.
- ▶ Focusing on high-quality, customised production solutions.



**GINJOE**



### SERVICES

- ▶ Employing skilled workforce for Site Service
- ▶ OEM trained repair and maintenance
- ▶ Offering pan-India support



**HSS | SINGLE ACTING MULTI-PURPOSE CYLINDERS**

Capacities from 4.5 to 109 tonnes  
 Stroke lengths from 25 to 457 mm  
 Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Nitrocarburised piston rod for corrosion resistance
- ▶ Low friction bearing surfaces

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HSS51	4.5	25	107
HSS52	4.5	50	132
HSS53	4.5	75	157
HSS54	4.5	100	182
HSS55	4.5	125	207
HSS57	4.5	176	258
HSS59	4.5	227	308
HSS101	10	25	100
HSS102	10	56	131
HSS104	10	100	175
HSS106	10	150	225
HSS108	10	206	281
HSS1010	10	250	325
HSS1012	10	305	379
HSS152	14.5	50	154
HSS154	14.5	100	204
HSS156	14.5	150	254
HSS1510	14.5	250	354
HSS252	25	51	174
HSS254	25	102	225
HSS256	25	150	273
HSS258	25	203	324
HSS2510	25	250	374
HSS2514	25	356	480
HSS2518	25	457	611
HSS308	29	205	374
HSS502	50	51	150
HSS504	50	102	201
HSS506	50	152	251
HSS508	50	203	302
HSS5013	50	330	429
HSS756	73	152	272
HSS1004	109	102	223
HSS1006	109	153	274
HSS10010	109	254	375

**HVL | SINGLE ACTING VERY LOW HEIGHT PANCAKE CYLINDERS**

Capacities from 10 to 104 tonnes  
 Stroke length 6 mm  
 Working pressure 700 bar



- ▶ Single acting, load return
- ▶ Compact, very low height design for access in narrow spaces
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HVL10	10	6	28
HVL20	20	6	32
HVL30	32	6	34
HVL50	50	6	45
HVL100	104	6	65

**HLS | SINGLE ACTING LOW HEIGHT CYLINDERS**

Capacities from 10 to 104 tonnes  
 Stroke lengths from 25 to 60 mm  
 Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Compact design with optimum stroke lengths
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HLS101	10	40	95
HLS201	20	44	102
HLS301	32	25	83
HLS302	32	60	119
HLS501	50	25	91
HLS502	50	60	126
HLS1001	109	25	108
HLS1002	109	60	143
HLS1501	147	25	130
HLS1502	147	50	155

**HPS | SINGLE ACTING LOW HEIGHT PAD CYLINDERS**

Capacities from 4.5 to 147 tonnes  
 Stroke lengths from 6 to 16 mm  
 Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Low closed height design for use in confined work areas
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HPS50	4.5	6	32
HPS51	4.5	16	42
HPS100	10	10	46
HPS200	20	11	52
HPS300	32	12	59
HPS500	50	15	67
HPS750	73	16	81
HPS1000	109	16	91
HPS1500	147	16	100

**HHS | SINGLE ACTING HOLLOW PISTON CYLINDERS**

Capacities from 11 to 102 tonnes  
 Stroke lengths from 25 to 152 mm  
 Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Hollow piston design for tooling, maintenance and tensioning applications
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HHS101	11	25	110
HHS102	11	50	140
HHS106	11	152	297
HHS202	23	50	160
HHS206	23	150	306
HHS302	33	50	165
HHS306	33	152	320
HHS603	61	76	226
HHS606	61	150	315
HHS1003	102	76	276
HHS1006	102	150	350



**HHR | DOUBLE ACTING HOLLOW PISTON CYLINDERS**

Capacities from 33 to 247 tonnes  
Stroke lengths from 51 to 305 mm  
Working pressure 700 bar



- ▶ Double acting design for enhanced operating stages
- ▶ Hollow piston design for tooling, maintenance and tensioning applications
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes) Push Pull	Stroke (mm)	Closed Height (mm)
HHR302	33 24	51	180
HHR306	33 24	150	279
HHR3012	33 24	305	434
HHR603	61 38	76	239
HHR606	61 38	152	315
HHR6010	61 38	254	417
HHR1003	102 43	76	310
HHR1006	102 43	152	386
HHR1508	152 71	203	503
HHR2508	247 76	203	505

**HFG | SINGLE ACTING FAILSAFE LOCK RING CYLINDERS**

Capacities from 50 to 1012 tonnes  
Stroke lengths from 50 to 152 mm  
Working pressure 700 bar



- ▶ Single acting, load return
- ▶ Mechanical lock ring feature allows for load holding for extended periods
- ▶ Suitable for vertical lifting applications only

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HFG502	50	51	173
HFG504	50	102	224
HFG506	50	150	272
HFG1002	109	51	189
HFG1004	109	100	240
HFG1006	109	150	311
HFG1502	152	51	237
HFG1504	152	100	288
HFG1506	152	150	338
HFG2002	203	50	261
HFG2006	203	152	362
HFG2506	256	152	401
HFG3006	326	150	417
HFG4006	398	151	459
HFG5006	520	152	498
HFG8006	809	152	565
HFG10006	1012	152	620

**HDA | DOUBLE ACTING HIGH TONNAGE CYLINDERS**

Capacities from 25 to 1012 tonnes  
Stroke lengths from 152 to 508 mm  
Working pressure 700 bar



- ▶ Double acting design offers higher work output with improved performance and efficiency
- ▶ Substantial pulling force in the piston retraction mode provides increased versatility
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes) Push Pull	Stroke (mm)	Closed Height (mm)
HDA256	25 10	152	287
HDA506	50 15	152	295
HDA5013	50 15	330	473
HDA5020	50 15	508	730
HDA1006	109 36	152	304
HDA10013	109 36	330	482
HDA1506	152 79	152	310
HDA15012	152 79	305	463
HDA2006	203 94	152	327
HDA20012	203 94	305	480
HDA3006	326 -	152	409
HDA30012	326 -	305	562
HDA4006	398 -	152	431
HDA40012	398 -	305	584
HDA5006	520 -	152	470
HDA50012	520 -	305	623
HDA8006	809 -	152	535
HDA10006	1012 -	152	590

**HFL | SINGLE ACTING LOW HEIGHT FAILSAFE LOCK RING CYLINDERS**

Capacities from 50 to 520 tonnes  
Stroke lengths from 45 to 51 mm  
Working pressure 700 bar



- ▶ Single acting, load return
- ▶ Mechanical lock ring feature allows for load holding for extended periods
- ▶ Compact, low height design suitable for vertical lifting applications only

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HFL502	50	51	125
HFL1002	109	50	137
HFL1502	152	45	150
HFL2002	203	45	155
HFL2502	260	45	159
HFL4002	398	45	178
HFL5002	520	45	192

**HSG | SINGLE ACTING LOAD RETURN HIGH TONNAGE CONSTRUCTION CYLINDERS**

Capacities from 152 to 326 tonnes  
Stroke length 152 mm  
Working pressure 700 bar



- ▶ Single acting, load return
- ▶ Heavy duty design for construction, civil engineering and heavy fabrication applications
- ▶ Overstroke restrictor port to prevent over extension of piston

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HSG1506	152	152	293
HSG2006	203	152	296
HSG3006	326	152	326

**HGG | SINGLE ACTING LOAD RETURN HIGH TONNAGE INDUSTRIAL CYLINDERS**

Capacities from 152 to 326 tonnes  
Stroke length 155 mm  
Working pressure 700 bar



- ▶ Single acting, load return
- ▶ Heavy duty design for lifting and maintenance applications
- ▶ Integral stop ring for piston stroke limitation

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HGG1506	152	155	297
HGG2006	203	155	306
HGG3006	326	155	343



**HHA | SINGLE ACTING HOLLOW PISTON ALUMINIUM CYLINDERS**

Capacities from 18 to 52 tonnes  
Stroke lengths from 51 to 105 mm  
Working pressure 700 bar



- ▶ Lightweight aluminium cylinders for applications where weight and portability are of prime importance
- ▶ Single acting, spring assisted return
- ▶ Hollow piston design for pulling, pressing and tensioning applications

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HHA182	18	51	175
HHA372	37	51	193
HHA504	52	105	280

**HAS | SINGLE ACTING SOLID PISTON ALUMINIUM CYLINDERS**

Capacities from 32 to 110 tonnes  
Stroke lengths from 51 to 305 mm  
Working pressure 700 bar



- ▶ Lightweight aluminium cylinders for applications where weight and portability are of prime importance
- ▶ Single acting, spring assisted return
- ▶ Hard anodised piston rod and cylinder for corrosion resistance and increased durability

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HAS302	32	51	181
HAS306	32	152	282
HAS3012	32	305	435
HAS502	51	51	186
HAS506	51	152	287
HAS5012	51	305	440
HAS1002	110	51	216
HAS1006	110	152	317
HAS10012	110	305	470

**HFA | SINGLE ACTING FAILSAFE LOCK RING ALUMINIUM CYLINDERS**

Capacities from 32 to 110 tonnes  
Stroke lengths from 51 to 305 mm  
Working pressure 700 bar



- ▶ Lightweight aluminium cylinders for applications where weight and portability are of prime importance
- ▶ Single acting, spring assisted return
- ▶ Mechanical lock ring feature allows for load holding for extended periods

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HFA302	32	51	227
HFA306	32	152	328
HFA3012	32	305	481
HFA502	51	51	231
HFA506	51	152	332
HFA5012	51	305	485
HFA1002	110	51	277
HFA1006	110	152	378
HFA10012	110	305	531

**HRA | DOUBLE ACTING HIGH TONNAGE ALUMINIUM CYLINDERS**

Capacities from 32 to 110 tonnes  
Stroke lengths from 51 to 305 mm  
Working pressure 700 bar



- ▶ Lightweight aluminium cylinders for applications where weight and portability are of prime importance
- ▶ Double acting design offers higher work output with improved performance and efficiency
- ▶ Hard anodised piston rod and cylinder for corrosion resistance and increased durability

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HRA302	32	51	204
HRA306	32	152	305
HRA3012	32	305	458
HRA502	51	51	221
HRA506	51	152	322
HRA5012	51	305	475
HRA1002	110	51	258
HRA1006	110	152	359
HRA10012	110	305	512

**HPC | SINGLE ACTING PULL CYLINDERS**

Capacities from 10 to 50 tonnes  
Stroke length 152 mm  
Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Substantial hydraulic pulling force for steel plate alignment, cable tensioning and general load moving applications
- ▶ Replaceable pulling and clevis eyes fitted on the piston rod and cylinder base

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
HPC106	10	152	600
HPC106C	10	152	602
HPC306	30	152	695
HPC506	50	152	819



**HI-FORCE HYDRAULIC CYLINDERS**

The extensive range of Hi-Force hydraulic cylinders includes a wide choice of options related to capacity, stroke length, single or double acting operation, steel or aluminium construction, hollow piston centre hole and mechanical failsafe lock ring designs. All models are 700 bar maximum working pressure and standard capacities range from 4.5 tonnes to 1012 tonnes. Hi-Force also offers custom designed and manufactured cylinders.

**HP | MANUALLY OPERATED PUMPS - ALUMINIUM**

Two stage operation  
Working pressure 700 bar  
Six models with choice of control valve



- ▶ Oil reservoir capacity up to 5 litres
- ▶ Lightweight aluminium construction with external pressure release valve and factory set safety relief valve
- ▶ Changeover pressure is 14 bar

Model	Type	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HP211	Single acting	12.9	1	0.5
HP212	Single acting	12.9	2.3	1
HP232	Single acting	12.9	2.3	2
HP252	Single acting	12.9	2.3	5
HP232D	Double acting	12.9	2.3	2
HP252D	Double acting	12.9	2.3	5

**HP | MANUALLY OPERATED PUMPS - HIGH FLOW**

Heavy duty steel construction  
Working pressure 700 bar  
2 stage with semi automatic changeover



- ▶ Oil reservoir capacity 10 litres
- ▶ Factory set safety relief valve fitted as standard
- ▶ Available with 2-way valve for use with single acting cylinders and 4-way valve for use with double acting cylinders

Model	Type	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HP245	Single acting	113	4	10
HP245D	Double acting	113	4	10

**HP | MANUALLY OPERATED PUMPS - STEEL**

Single or two stage operation  
Durable steel construction  
Working pressure 700 bar



- ▶ Oil reservoir capacity up to 4.1 litres
- ▶ External pressure release valve and factory set safety relief valve
- ▶ Low handle effort and ergonomic grip for easy operation

Model	For Cylinder	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HP110	Single acting	2.9	-	1
HP227	Single acting	12.9	2.3	2.3
HP257	Single acting	12.9	2.3	4.1

**HP-FP | MANUALLY OPERATED FOOT PUMPS**

Working pressure 700 bar  
Two stage operation  
Durable steel construction



- ▶ Oil reservoir capacity 2.3 litres
- ▶ External pressure release valve and factory set safety relief valve
- ▶ Wide foot pedal for easy and controlled pumping action

Model	Type	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HP227FP	Single acting	12.9	2.3	2.3
HP227FPC	Single acting	12.9	2.3	2.3

**HPX | MANUALLY OPERATED ULTRA HIGH PRESSURE PUMPS**

Compact lightweight aluminium construction  
Two stage operation  
Choice of 1500 or 2800 bar pressure rating



- ▶ Oil reservoir capacity 1.2 litres
- ▶ External pressure release valve and factory set safety valve
- ▶ Specifically designed for high pressure applications

Model	Working pressure (bar)	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HPX1500	1500	20	1	1.2
HPX2800	2800	20	0.8	1.2

**HEP1 | ELECTRIC DRIVEN LIGHTWEIGHT MINI PUMPS WITH CARRYING STRAP**

Working pressure 700 bar  
Two stage operation  
Lightweight, compact design



- ▶ Oil reservoir capacity 0.8 litres
- ▶ Choice of 110 or 240 volt single phase electric motor with 2-way electric solenoid valve
- ▶ Internal safety overload valve
- ▶ Remote pendant controller with 3 meter length cable and hand carrying strap

Model	Motor voltage	Maximum flow rate (litres/minute)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
HEP1212S	240V - 1Ph	2	0.2	0.8

**HEP103 | ELECTRIC DRIVEN TWO STAGE  
COMPACT PUMPS**

Working pressure 700 bar  
Two stage operation Single Phase  
Choice of valve options



- ▶ Oil reservoir capacity 4 litres
- ▶ Choice of 110 or 240 volt single phase electric motors with 50/60 Hz dual frequency
- ▶ Choice of manual or electric powered control valves in 2, 3 or 4-way configuration

Model	Motor voltage	Max flow rate (lit/min)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	

Below model is with solenoid valve, suitable for use with single acting cylinders and tools, requiring load holding.

HEP103242LS 240V-1Ph 2.5 0.35 4

Below model is with solenoid valve, suitable for use with single acting cylinders and tools, requiring auto retract

HEP103242S 240V-1Ph 2.5 0.35 4

Below model is with manually operated valve, suitable for use with single acting cylinders and tools

HEP103342 240V-1Ph 2.5 0.35 4

Below model is with manually operated valve, suitable for use with double acting cylinders and tools

HEP103442 240V-1Ph 2.5 0.35 4

Below model is with solenoid valve, locking feature on A and B part, suitable for use with double acting cylinders and tools, requiring load holding

HEP103442LS 240V-1Ph 2.5 0.35 4

**HEP2 | ELECTRIC DRIVEN PUMPS -  
GENERAL DUTY MEDIUM FLOW**

Working pressure 700 bar  
Two stage operation  
Choice of 10 or 25 litre oil reservoir



- ▶ Choice of 110, 230 or 400/460 volt electric motors available as standard
- ▶ Choice of 2, 3 or 4-way manual control valves with load holding feature on 3 & 4-way versions
- ▶ Externally adjustable pressure relief for pressure settings up to 700 bar
- ▶ Maximum Flow rate for 1<sup>st</sup> Stage 7 2<sup>nd</sup> Stage 0.65 litres per minute

Model	Motor voltage	Max flow rate (lit/min)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	

Two stage electric operated hydraulic pump for single acting cylinders and tools

HEP207212 230V-1Ph 7 0.65 10

HEP207214 400V-3Ph 7 0.65 10

HEP207222 230V-1Ph 7 0.65 25

HEP207224 400V-3Ph 7 0.65 25

HEP207312 230V-1Ph 7 0.65 10

HEP207314 400V-3Ph 7 0.65 10

HEP207322 230V-1Ph 7 0.65 25

HEP207324 400V-3Ph 7 0.65 25

Two stage electric operated hydraulic pump for double acting cylinders and tools

HEP207412 230V-1Ph 7 0.65 10

HEP207414 400V-3Ph 7 0.65 10

HEP207422 230V-1Ph 7 0.65 25

HEP207424 400V-3Ph 7 0.65 25

**HEP3 & HEP4 | ELECTRIC DRIVEN PUMPS -  
GENERAL DUTY HIGH FLOW**

Working pressure 700 bar  
Two stage operation  
25 to 60 litre oil reservoir



- ▶ Choice of 110, 230 or 400/460 volt electric motors available as standard
- ▶ Choice of 2, 3 or 4-way manual control valves with load holding feature on 3 & 4-way versions
- ▶ Externally adjustable pressure relief for pressure settings up to 700 bar
- ▶ Maximum Flow rate for 1<sup>st</sup> Stage 9 2<sup>nd</sup> Stage 1 litres per minute

Model	Motor voltage	Max flow rate (lit/min)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	

Two stage electric driven pumps for single acting cylinders and tools

HEP310222 230V-1Ph 9 1 25

HEP310224 400V-3Ph 9 1 25

HEP310322 230V-1Ph 9 1 25

HEP310324 400V-3Ph 9 1 25

HEP410242 230V-1Ph 9 1 40

HEP410244 400V-3Ph 9 1 40

HEP410262 230V-1Ph 9 1 60

HEP410264 400V-3Ph 9 1 60

HEP410342 230V-1Ph 9 1 40

HEP410344 400V-3Ph 9 1 40

HEP410362 230V-1Ph 9 1 60

HEP410364 400V-3Ph 9 1 60

Two stage electric driven pumps for double acting cylinders and tools

HEP410442 230V-1Ph 9 1 40

HEP410444 400V-3Ph 9 1 40

HEP410462 230V-1Ph 9 1 60

HEP410464 400V-3Ph 9 1 60

**HEP5 | ELECTRIC DRIVEN PUMPS -  
HEAVY DUTY HIGH FLOW**

Working pressure 700 bar  
Two stage operation  
Choice of 40 or 60 litre oil reservoir



- ▶ 400/460 volt electric motors available as standard
- ▶ Choice of 2, 3 or 4-way manual control valves with load holding feature on 3 & 4-way versions
- ▶ Externally adjustable pressure relief for pressure settings up to 700 ba
- ▶ Completely enclosed fan cooled low noise electric motors

Model	Motor voltage	Maximum flow rate (litres/minute)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	

Two stage electric driven pumps for single acting cylinders and tools

HEP517244 400V-3Ph 17.5 1.9 40

HEP517264 400V-3Ph 17.5 1.9 60

HEP517344 400V-3Ph 17.5 1.9 40

HEP517364 400V-3Ph 17.5 1.9 60

Two stage electric driven pumps for double acting cylinders and tools

HEP517444 400V-3Ph 17.5 1.9 40

HEP517464 400V-3Ph 17.5 1.9 60



**AHP11 | AIR DRIVEN SINGLE STAGE HAND OR FOOT OPERATED PUMPS**

Working pressure 700 bar  
Compact, lightweight & powerful  
Choice of 2.4, 5 or 10 litres oil reservoir



- ▶ Choice of 2-way or 4-way control valves
- ▶ Safety overload protection valve fitted as standard
- ▶ All models fitted with steel oil reservoir (excluding AHP1120)

Model	Max flow rate (lit/min)	Usable oil capacity (litres)	Air inlet connection
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Air driven pumps for single acting cylinders and tools

AHP1120	0.8	2.4	¼"
AHP1121	0.8	5	¼"
AHP1122	0.8	10	¼"

Air driven pumps for double acting cylinders and tools

AHP1141	0.8	5	¼"
AHP1142	0.8	10	¼"

**MANIFOLDS**

Working pressure 700 bar  
Choice of open or controlled manifolds  
2, 4, 6 or 8 outlet port models available



- ▶ Designed for easy control of the direction of flow of the hydraulic fluid within the system
- ▶ Available as open manifold blocks or with individual needle type shut off/throttle valves on each outlet

Model	Type	No. of Outlets
HM2	open manifold	2
HM4	open manifold	4
HM6	open manifold	6
HM8	open manifold	8
HM4L	open manifold	4
HM6L	open manifold	6
HM2C	controlled manifold	2
HM4C	controlled manifold	4

**HAP | AIR DRIVEN PUMPS - GENERAL DUTY HIGH FLOW**

Working pressure 700 bar  
Two stage operation  
Choice of 10 or 25 litres oil reservoir



- ▶ Driven by a powerful 3 kW rotary air motor with a maximum air consumption of 2.4 m³ per minute at 7 bar inlet air pressure
- ▶ Choice of 2, 3 or 4-way manual control valves with load holding feature on 3 & 4-way versions
- ▶ Externally adjustable pressure relief valve for pressure setting up to a maximum of 700 bar

Model	Maximum flow rate (litres/minute)	Usable oil capacity (litres)
	1 <sup>st</sup> stage	2 <sup>nd</sup> stage

Two stage air driven pumps for single acting cylinders and tools

HAP21021	10	1.3	10
HAP21022	10	1.3	25
HAP21031	10	1.3	10
HAP21032	10	1.3	25

Two stage air driven pumps for double acting cylinders and tools

HAP21041	10	1.3	10
HAP21042	10	1.3	25

**CONTROLLED MANIFOLD ASSEMBLIES**

Working pressure 700 bar  
Up to 4 outlets with individual control on each  
Choice of manifolds for single or double acting systems



- ▶ Pressure gauges fitted to advance ports on all models
- ▶ Quick connect couplings fitted as standard to all inlet and outlet ports
- ▶ Precise control of oil flow and pressure within the hydraulic system

Model	Description
HM2C-SU	2-way controlled manifold unit, suitable for single acting systems
HM2C-DU	2-way controlled manifold unit, suitable for double acting systems
HM4C-SU	4-way controlled manifold unit, suitable for single acting systems
HM4C-DU	4-way controlled manifold unit, suitable for double acting systems

**HPP | PETROL ENGINE DRIVEN PUMPS - GENERAL DUTY HIGH FLOW CHOICE**

Working pressure 700 bar  
Two stage operation  
Choice of 25, 40 or 60 litres oil reservoir



- ▶ Choice of 2, 3 or 4-way manual control valves with load holding feature on 3 & 4-way versions
- ▶ Externally adjustable pressure relief valve for pressure setting up to a maximum of 700 bar
- ▶ Factory fitted roll bar protection frame included

Model	Maximum flow rate (litres/minute)	Usable oil capacity (litres)
	1 <sup>st</sup> stage	2 <sup>nd</sup> stage

Two stage petrol engine pumps for single acting cylinders and tools

HPP21022	10	1.3	25
HPP21024	10	1.3	40
HPP21026	10	1.3	60
HPP21032	10	1.3	25
HPP21034	10	1.3	40
HPP21036	10	1.3	60

Two stage petrol engine pumps for double acting cylinders and tools

HPP21042	10	1.3	25
HPP21044	10	1.3	40
HPP21046	10	1.3	60

**BPP | BATTERY POWERED HYDRAULIC PUMP**

Working pressure 700 bar  
14.4V long life battery  
Lightweight design



- ▶ Powerful hydraulic pump driven by 14.4 volt battery
- ▶ Compact and lightweight design with shoulder strap for easy carrying
- ▶ External pressure release valve and factory set safety valve

Model	Type	Displacement per stroke (cc)		Usable oil capacity (litres)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
BPP107	Single acting	0.5	0.15	0.7

### PRESSURE GAUGES & GAUGE MOUNTING BLOCKS

Clear precise dual scale readings  
Manufactured to EN837-1  
+/-1% full scale accuracy



- ▶ Choice of dry or glycerine filled models available
- ▶ Recommended for use within all hydraulic systems to monitor hydraulic pressure
- ▶ Dual scale reading on all models

Model	Gauge diameter (mm)	Gauge type	Inlet thread	Pressure (bar)
HG63G	63	Glycerine	1/4"-18 NPT	700
HG1G	100	Glycerine	1/2"-14 NPT	700
HG2G	150	Glycerine	1/2"-14 NPT	700

### GAUGE MOUNTING BLOCKS

Model	Gauge thread	Male NPT Inlet thread	Female NPT Outlet thread
HGA1	1/2"-14 NPT		
HGA2	1/2"-14 NPT		
HGA1-25	1/4"-18 NPT		
HGA2-25	1/4"-18 NPT		
AGA1-25	1/4"-18 NPT		

### FLOW CONTROL VALVES

Working pressure 700 bar  
3/8" - 18 NPT female connection ports



- ▶ Pressure gauges fitted to advance ports on all models
- ▶ Quick connect couplings fitted as standard to all inlet and outlet ports
- ▶ Precise control of oil flow and pressure within the hydraulic system

Model	Description
HM1C	Manual shut off valve with
HFV66	Manual check valve used for automatic load locking.
HPV152	Adjustable pressure relief valve, for pressure setting from 55 to 700 bar.
HFV42	Pilot operated check valve used as a safety valve for double acting cylinders.

### HIGH PRESSURE HYDRAULIC HOSES

Working pressure 700 bar  
4:1 Factor of safety  
Hand grip protective strain relievers



- ▶ Available in black or red outer covering to assist with identifying advance and return lines in double acting hydraulic systems
- ▶ Connection both end 3/8
- ▶ Length 0.5 upto 30 meters

Length (m)	0.5	3	6	10	20	30
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### HIGH PRESSURE COUPLERS AND FITTINGS

Model	Couplers	Thread Size
CF1	Female coupler	
CM1	Male coupler	
CMF1	Complete coupler set	
CF2	Female coupler	1/4" NPT male
CM2	Male coupler	1/4" NPT female

### PRESSURE TRANSDUCER & DIGITAL DISPLAY

Pressure readings in bar and psi  
0.5% full scale accuracy  
Maximum working pressure 700 bar



- ▶ For precise measurement of system pressure up to 700 bar (10000 psi)
- ▶ Supplied complete with a 2 meter connecting cable
- ▶ Output 4-20 mA

Model	Pressure reading (bar)	Connection thread
HPT1	0-700	1/4"-18 NPT

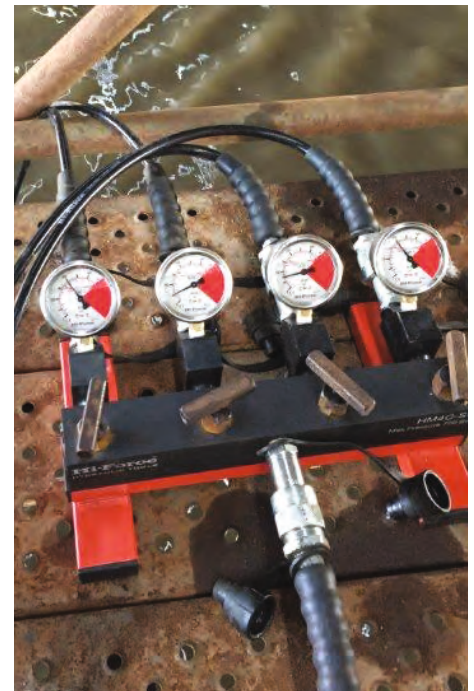
### DIGITAL PRESSURE GAUGE

5 digit LCD display  
Choice of pressure readings  
0.5% full scale accuracy



- ▶ High quality, general purpose gauge to measure pressure up to 1000 bar (14503 psi)
- ▶ Displays readings in bar, psi, mpa and kg/cm<sup>2</sup>
- ▶ LCD display with 12 mm, 5 digit upper line pressure reading and 6 mm, 5 digit lower line unit reading

Model	Gauge diameter (mm)	Pressure reading (bar)	Inlet thread
HDG1	70	0-1000	1/4"-18 NPT



## HI-FORCE SYSTEM COMPONENTS

The Hi-Force range of system components is designed and manufactured to provide all the essential accessory items required to complete the required high pressure hydraulic system. Whether the requirements are for a hose, pressure gauge and gauge block, for a simple hydraulic tool set up using a remote pump, or a more complex system of multiple lifting cylinders with manifolds, control

Hi-Force system components offer the essential high quality performance, to ensure the hydraulic system integrity and safe operation and use of your Hi-Force hydraulic tools, is maintained at all times. Specify Hi-Force system components for use with your Hi-Force hydraulic tools.

### JAH | ALUMINIUM JACKS

Capacities from 20 to 60 tonnes

Choice of 152 mm or 305 mm stroke lengths

Internal safety overload device



- ▶ Lightweight aluminium construction with critical parts manufactured from high quality steel
- ▶ Available with plain piston, lifting claw or failsafe mechanical lock ring
- ▶ Claw lift capacities from 8 to 24 tonnes

Model	Capacity (tonnes)	Claw capacity (tonnes)	Stroke (mm)	Closed Height (mm)
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Jack with plain piston

JAH620	20	-	152	263
JAH1220	20	-	305	438
JAH630	30	-	152	263
JAH1230	30	-	305	451
JAH660	60	-	152	293
JAH1260	60	-	305	500

Jack with plain piston & lifting claw with extended base

JAH620C	20	8	152	280
JAH1220C	20	8	305	456
JAH630C	30	12	152	281
JAH1230C	30	12	305	472
JAH660C	60	24	152	335
JAH1260C	60	24	305	545

Jack with failsafe mechanical load holding lock ring

JAH620SR	20	-	152	289
JAH1220SR	20	-	305	464
JAH630SR	30	-	152	292
JAH1230SR	30	-	305	479
JAH660SR	60	-	152	330
JAH1260SR	60	-	305	536

### JCS & JCH | COMPACT JACKS

Capacities from 10 to 30 tonnes

Stroke lengths from 35 to 45 mm

Lightweight and compact



- ▶ Spring assisted piston retraction (JCS)
- ▶ Load return piston (JCH)
- ▶ Nitrocarburised piston rod for corrosion resistance

Model	Capacity (tonnes)	Body Construction	Stroke (mm)	Closed Height (mm)
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JCS - SOLID PISTON

JCS10	10	Steel	35	76
JCS20	20	Aluminium	41	102
JCS30	30	Aluminium	45	112

Model	Capacity (tonnes)	Body Construction	Stroke (mm)	Closed Height (mm)
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JCH - HOLLOW PISTON

JCH13	13	Aluminium	41	95
JCH21	21	Aluminium	45	114

### JAS | ALUMINIUM JACKS

Maximum capacity 10 tonnes

Choice of 75 mm or 125 mm hydraulic lift height

Internal safety overload device



- ▶ Lightweight aluminium jack body
- ▶ Spring assisted piston retraction
- ▶ Nitrocarburised steel piston for increased corrosion resistance

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)
JAS103	10	75	131
JAS105	10	125	181

### TL | TOUGHLIFT JACKING SYSTEMS

Capacities from 50 to 200 tonnes

Lifting heights up to 685 mm

Working pressure 700 bar



- ▶ Choice of air or electric driven hydraulic system
- ▶ High flow 3-stage pump unit offers faster advance and retract times
- ▶ Solid tyres fitted as standard with option of pneumatic tyres

Model	Capacity (tonnes)	Stroke (mm)	Closed Height (mm)	Additional Stack (mm)
TLA5010**	50	254	453	680
TLA5014**	50	355	554	680
TLE5010*	50	254	453	680
TLE5014*	50	355	554	680
TLA10016**	100	405	665	480
TLA10021**	100	530	843	180
TLA15015**	150	390	665	485
TLA15020**	150	520	843	180
TLA20015**	200	381	660	500
TLA20027**	200	685	964	180

\*Supplied with electric hydraulic pump

\*\*Supplied with air hydraulic pump

### HMJ | STEEL MACHINE LIFT JACKS

Capacities of 10 and 25 tonnes

Stroke length 150 mm

700 bar maximum working pressure



- ▶ Lifting toe is precision guided throughout its lifting stroke to reduce friction and prevent potential side loading of the hydraulic cylinder
- ▶ Operated using a remote pump and hose for increased operator safety
- ▶ Lifting toe with minimum height of 25 mm, can be pre-set at three lifting positions

Model	Capacity (tonnes)		Stroke (mm)	Closed Height (mm)
	Toe	Head		
HMJ10	8.5	10	150	272
HMJ25	20	25	150	330



**TWM | MANUAL TORQUE WRENCHES -  
CLICK TYPE**

Choice of 7 models with torque range from 10 to 850 Nm (7 to 630 lbf.ft)

Dual scale torque reading adjustment in Nm & lbf.ft

Repeatable accuracy of +/- 3% and supplied with individual calibration certificate



- ▶ Reversible square drives sizes from 3/8" to 3/4"
- ▶ Robust steel construction with corrosion resistant finish
- ▶ Heavy duty ratchet head with audible click when pre-set torque achieved

Model	Square drive	Torque range (Nm)	Overall length (mm)
TWM50	3/8"	10 - 50	334
TWM100	1/2"	20 - 100	394
TWM200	1/2"	40 - 200	485
TWM300	1/2"	60 - 300	577
TWM400	3/4"	80 - 400	686
TWM550	3/4"	110 - 550	956
TWM850	3/4"	250 - 850	1379

**TWP | PISTOL GRIP PNEUMATIC TORQUE  
MULTIPLIERS**

Torque capacities up to 6000 Nm

Repeatable accuracy of +/- 5%

Lightweight and durable construction



- ▶ Air driven, single stage torque multipliers offering torque capacities from 200 to 6000 Nm (150 to 4400 lbf.ft)
- ▶ Ultra lightweight and durable construction with powerful performance for accurate tightening of bolted components
- ▶ Reversible, pistol grip design air motor allows for bi-directional torqueing

Model	Torque capacity (Nm)	Square drive size	R.P.M. at max pressure
TWP09S	200 - 900	3/4"	24
TWP15S	300 - 1500	1"	12
TWP22S	500 - 2200	1"	7
TWP32S	800 - 3200	1"	4
TWP40S	850 - 4200	1"	4
TWP60S	1200 - 6000	1 1/2"	4

**HTW | MANUAL TORQUE WRENCHES -  
BREAK BACK TYPE**

Torque capacities from 300 to 2000 Nm

Repeatable accuracy +/- 4%

Dual scale Nm & lbf.ft



- ▶ Choice of 3/4" or 1" square drive sizes
- ▶ Robust steel construction with corrosion resistant finish
- ▶ Push-through square drive for bi-directional torque control

Model	Square drive	Torque range (Nm)	Overall length (mm)
HTW1000B	3/4"	300 - 1000	1475
HTW1500B	3/4"	700 - 1500	1475
HTW1800B	1"	700 - 1500	1475
HTW2000B	1"	900 - 2000	1920

**TWS-N | HYDRAULIC TORQUE WRENCHES -  
SQUARE DRIVE**

Torque capacities up to 36992 Nm

Torque accuracy of +/- 3%

Working pressure 700 bar



- ▶ Compact, lightweight aluminium body construction
- ▶ Output torque capacities from 1727 to 36992 Nm (1254 to 26860 lbf.ft)
- ▶ Choice of square drive sizes from 3/4" to 2 1/2"

Model	Torque capacity (Nm)	Square drive size	Weight with Reaction
TWS17N	1727	3/4"	1.9
TWS45N	4529	1"	4.8
TWS100N	10064	1 1/2"	9.0
TWS150N	14974	1 1/2"	15.0
TWS370N	36992	2 1/2"	32.5

**IP | PNEUMATIC IMPACT WRENCHES**

Industrial heavy duty design

Square drive sizes from 1/2" to 1 1/2"

Torque capacities up to 5933 Nm



Model	Square drive size	Maximum torque Nm	Maximum torque lbf.ft
Pistol grip versions			
IP850	1/2"	850	627
IP1700	3/4"	1700	1254
IP1700X	3/4"	1700	1254
Back handle grip versions			
IP3200	1"	3185	2350
IP3200X	1"	3185	2350
IP5950	1 1/2"	5933	4376

**TWG | MANUAL TORQUE  
MULTIPLIERS**

Torque capacities up to 10000 Nm

Lightweight aluminium housing

Supplied complete with reaction arm



- ▶ Choice of output square drives of 3/4", 1" and 1 1/2"
- ▶ Suitable for use with Hi-Force TWM range of hand torque wrenches listed on page 11
- ▶ Compact design for easy fitment

Model	Torque Capacity (Nm)	Gearbox ratio	Input Square Drive	Output Square Drive
TWG13	1300	5:01	1/2"	3/4"
TWG20	2000	4:01	3/4"	1"
TWG28	2800	5.5:1	3/4"	1"
TWG40	4000	16:01	1/2"	1"
TWG60	6000	18:01	3/4"	1 1/2"
TWG100	10000	28.5:1	3/4"	1 1/2"

**TWH-N | HYDRAULIC TORQUE WRENCHES -  
LOW PROFILE HEXAGON**

Torque capacities up to 48181 Nm

Torque accuracy of +/- 3%

Working pressure 700 bar



- ▶ Lightweight, high grade aluminium body (excluding TWH430N)

- ▶ Output torque capacities from 2625 to 48181 Nm (1906 to 34985 lbf.ft)

- ▶ Low profile design for direct in-line reaction

Model	Torque capacity (Nm)	Hexagon AF Size Metric min max	Hexagon AF Size Imperial min max	Weight (kg)
TWH27N	2625	24	46 1 1/16" 1 13/16"	1.4
	3068	50	60 2" 2 3/8"	1.4
TWH54N	5372	36	65 1 7/16" 2 1/16"	2.3
	6037	70	80 2 3/4" 3 1/8"	2.3
TWH120N	11737	50	80 2 3/16" 3 1/8"	3.8
	14349	85	100 3 1/2" 3 7/8"	3.8
TWH210N	21216	70	100 2 3/4" 3 7/8"	6.4
	23124	105	115 4 1/4" 4 5/8"	6.4
TWH430N	43792	80	115 3 1/8" 4 5/8"	16.1
	48181	130	175 5" 6 7/8"	16.1

**HTWP | TORQUE WRENCH PUMPS - STANDARD LINE**

Working pressure 700 bar  
Two stage operation  
Air or electric driven options



- Compatible for use with TWS-N and TWH-N series hydraulic torque wrenches
- Two stage operation with low pressure flow rate of up to 6.1 litres per minute
- Integral oil cooling system in air driven models

Model	Power supply	Motor rating (kW)	Displacement (litres/minute)	
			low pressure	high pressure
HTWP2140P	7 bar Air	1.5	6.1	0.51
HTWP2142AR	230 volt	0.75	3.7	0.34

**TPA | AIR DRIVEN TORQUE WRENCH PUMPS - PREMIUM LINE**

Working pressure 700 bar  
High flow 3-stage pump unit  
Compact and lightweight



- Low noise operation (<90 db)
- Supplied fitted with one set of quick connect couplers
- Exhaust air radiator cooling system fitted as standard

Model	Pressure guage	Oil capacity (litres)	Flow rate (litres/minute)		
			1st stage (0-65 bar)	2nd stage (65-325 bar)	3rd stage (325-700 bar)
TPA07Aanalogue	7	7	7	1.6	0.8
TPA07D	digital	7	7	1.6	0.8

**TPE | ELECTRIC DRIVEN TORQUE WRENCH PUMPS - PREMIUM LINE**

Working pressure 700 bar  
High flow 3-stage pump unit  
Compact and lightweight



- Low noise operation (<88 db)
- Supplied fitted with one set of quick connect couplers
- Automatically activated oil cooling heat exchanger fitted as standard

Model	Pressure guage	Oil capacity (litres)	Flow rate (litres/minute)		
			1st stage (0-65 bar)	2nd stage (65-325 bar)	3rd stage (325-700 bar)
TPE25A* analogue	7	6.5	1.5	0.75	
TPE25D* digital	7	6.5	1.5	0.75	
TPE45A**analogue	7	6.5	1.5	0.75	
TPE45D** digital	7	6.5	1.5	0.75	

\* 230V 1 phase

\*\*400V 3 phase

**STS | TOPSIDE BOLT TENSIONERS**

Capacities from 234 to 2649 kN  
Bolt sizes from ¾" to 4" diameter  
Working pressure 1500 bar



- Single acting design with manual piston retraction
- Customised and special design tensioner 4" or M100 are available on request
- Maximum stroke indicator to warn against piston over extension

Model	Bolt thread size		Stroke (mm)	Capacity (kN)
	(Inch)	(mm)		
STS1-LC	¾"-1 ⅛"	M16-M27	10	234
STS2-LC	1 ¼"-1 ½"	M30-M39	15	457
STS3-LC	1 ⅝"-2"	M42-M52	15	822
STS4-LC	1 ⅞"-2 ½"	M48-M64	15	1264
STS5-LC	2 ½"-3"	M64-M76	15	1833
STS6-LC	3"-4"	M76-M100		2649

**STU | SUB-SEA BOLT TENSIONERS**

Capacities from 256 to 2483 kN  
Bolt sizes from 1" to 3 ½" diameter  
Maximum working pressure 1500 bar



- Single acting design with manual piston retraction
- Manufactured from high grade alloy steel with added corrosion protection
- Extra-long piston stroke on all models, to save valuable diver time subsea

Model	Bolt thread size		Stroke (mm)	Capacity (kN)
	(Inch)	(mm)		
STU1	1"-1 ⅛"	M24-M27	20	256
STU2	1 ¼"-1 ¾"	M30-M36	30	430
STU3	1 ½"-1 ⅞"	M39-M42	30	553
STU4	1 ¾"-1 ⅞"	M45-M48	30	756
STU5	2"-2 ¼"	M52-M56	30	1168
STU6	2 ½"-2 ¾"	M60-M72	30	1649
STU7	3"-3 ½"	M76-M90	30	2483

**BOLT TENSIONER PUMPS**

Operates from standard 7 bar air supply  
Air consumption up to 56 scfm (1.59 m³/minute)  
Working pressure 1500 bar



- Air driven hydraulic bolt tensioner pump
- Lightweight stainless steel protective frame for easy storage and transportation
- Infinitely variable output pressure and flow rate

Model	Max. Pressure (bar)	Usable oil capacity (litres)	Oil flow per stroke (cm³)	Air consumption
AHP275BTU	1500	7.5	1.6	28 scfm
AHP2-237BTU	1500	7.5	6.1	56 scfm

### BOLT TENSIONER PUMPS

Manually Operated High Pressure pump  
Usable Oil Capacity 1.2ltrs  
Working pressure 1500 bar



- Fitted with external pressure release valve
- Factory set safety valve
- Bespoke handle with ergonomic grip & mesh guard to protect gauge from accidental damage

Model	Max. Pressure (bar)	Usable oil capacity (litres)
HPX1500BTU	1500	1.2

### HTN | HYDRAULIC TENSIONER NUTS

Capacities from 198 to 1911 kN  
Bolt sizes from 1" to 4" diameter  
Maximum working pressure 1500 bar



- Single acting design with integral load holding lock nut
- Designed to permanently replace regular nuts on one side of the joint
- Ideally suited for bolted joints that need opening and closing, during maintenance, on a regular basis

Model number	Bolt thread size (Inch)	Bolt thread size (mm)	Stroke (mm)	Cylinder Effective Area (cm²)	Capacity (kN)
HTN1	1"	M24	5	13.2	198
HTN2	1 1/8"	M27	5	14.4	216
HTN3	1 1/4"	M30-M33	5	16.9	253
HTN4	1 3/4"	M36	5	20.4	306
HTN5	1 1/2"	M39	6	22.9	344
HTN6	1 5/8"	M42	6	26.5	398
HTN7	1 3/4"	M45	6	31.7	475
HTN8	1 7/8"	M48	6	33.4	501
HTN9	2"	M52	6	37.6	564
HTN10	2 1/4"	M56	8	49.8	746
HTN11	2 1/2"	M60-M64	8	60.3	905
HTN12	2 3/4"	M68	8	66.7	1000
HTN13	3"	M72-M76	8	80.2	1203
HTN14	3 1/4"	M80	10	94.3	1414
HTN15	3 1/2"	M85-M90	10	107	1605
HTN16	3 3/4"	M95	10	113.6	1705
HTN17	4"	M100	10	127.4	1911

### NS | SINGLE ACTING NUT SPLITTERS

Nut AF sizes from 17 to 75 mm  
Bolt sizes from M10 to M48  
Working pressure 700 bar



- Single acting, spring assisted return
- Angled body design for increased clearance on flanges and flat surfaces
- High quality steel construction

Model	Capacity (tonnes)	Bolt Range (mm)	Hexagon Nut Size (mm)	Weight (Kg)
NS104	16.3	M10 - M22	17 - 32	4.0
NS110	24.9	M22 - M27	32 - 41	7.4
NS200	41.2	M27 - M33	41 - 50	10.6
NS206	57.8	M33 - M39	50 - 60	15.8
NS215	90.4	M39 - M48	60 - 75	39.3

### DNS | DOUBLE ACTING NUT SPLITTERS

Nut AF sizes from 75 to 136 mm  
Bolt sizes from M48 to M95  
Working pressure 700 bar



- Double acting hydraulic piston for easy extension and retraction of the blade
- Angled body design for increased clearance on flanges and flat surfaces
- High quality steel construction

Model	Capacity (tonnes)	Bolt Range (mm)	Hexagon Nut Size (mm)	Weight (Kg)
DNS404	119.6	M48 - M72	75 - 105	50
DNS506	203.4	M72 - M95	105 - 136	96



### HMNS | SELF-CONTAINED NUT SPLITTERS

Nut AF sizes from 17 to 50 mm  
Bolt sizes from M10 to M33  
Working pressure 700 bar



- Single acting, spring assisted return
- Incorporates an integral hydraulic pump with multi-positional lever
- Angled body design for increased clearance on flanges and flat surfaces

Model	Capacity (tonnes)	Bolt Range (mm)	Hexagon Nut Size (mm)	Weight (Kg)
HMNS104	16.3	M10 - M22	17 - 32	5.8
HMNS110	24.9	M22 - M27	32 - 41	7.9
HMNS200	41.2	M27 - M33	41 - 50	13.6

### HFS-H | HYDRAULIC FLANGE SPREADERS

Capacities from 4.5 to 10 tonnes  
Quick and easy to assemble on flange  
Working pressure 700 bar



- Single acting, spring assisted return cylinder for fast and safe operation
- Capable of opening flanges up to 2 x 92 mm thick
- Suitable for fitment on flanges with maximum bolt size of 41 mm (1 5/8")

Model	Capacity (tonnes)	Stroke (mm)	Maximum flange thickness (mm)	Stud size (mm)
HFS50H	4.5	75	2 x 57	19 - 29
HFS100H	10	56	2 x 92	32 - 41

## HI-FORCE NUT SPLITTERS AND SPREADERS

The Hi-Force range of hydraulic nut splitters provides the perfect answer for removal of worn, damaged or corroded fasteners. Manufactured from high quality steel, the range includes single acting and double acting versions, designed for splitting hexagon nuts from 17 mm to 136 mm AF sizes.



**MFS | MECHANICAL FLANGE SPREADERS**

Suitable for bolt diameters up to 31 mm  
Maximum spread 231 mm  
No external power source required



- ▶ Mechanical feed screw design
- ▶ Capable of opening flanges up to 2 x 95 mm thickness
- ▶ Economical and safe operation
- ▶ Compact, portable and easy to use

Model	Pin diameter (mm)	Min flange bolt hole diameter	Maximum flange thickness (mm)	Weight (Kg)
MFS16	16	17	2 x 22	2.2
MFS19	19	20	2 x 35	2.7
MFS22	22	23	2 x 47	4.1
MFS25	25	26	2 x 62	6.4
MFS28	28	29	2 x 70	8.2
MFS31	31	32	2 x 95	9.6

**JS | JAW SPREADER**

Capacity 0.9 tonnes  
Maximum spread 84 mm  
Working pressure 700 bar



- ▶ Single acting, spring assisted return
- ▶ Narrow design requires access gap of only 13 mm
- ▶ High strength forged steel construction
- ▶ Compact, light weight and easy to use

Model	Capacity (tonnes)	Oil capacity (cm³)	Jaw Tips (mm)	Weight (Kg)
JS4	0.9	10	30	2.2

**SJS | STEPPED JAW SPREADERS**

Capacity 13 tonnes per spreader unit  
Maximum spread 60 mm  
Supplied with safety block & stepped blocks



- ▶ Single acting, spring assisted return
- ▶ High strength steel construction
- ▶ Compact, lightweight and easy to use
- ▶ SJS10M is self contained spreader unit with integral manual pump

Model	Capacity (tonnes)	Stroke (mm)	Min height (mm)	Max spread (mm)	Jaw Tips (mm)	Weight (Kg)
SJS10	13	50	8	60	8	5.5
SJS10-M	13	50	8	60	8	7.5

**MHX | MANUALLY OPERATED HYDROTEST PUMPS**

Choice of 5 models available  
Maximum output pressures up to 1000 bar  
Two stage displacement with manual T-Handle changeover plunger



- ▶ Lightweight aluminium alloy pump unit with integral factory set safety relief valve
- ▶ High grade stainless steel pistons for increased resistance to corrosion
- ▶ Smooth manually operated 2-way pressure and release valve with precise control

Model (with reservoir)	Working pressure (bar)	Change over pressure bar	Displacement per stroke (cm³)	
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage
MHX100	100	50	50	22
MHX300	300	50	50	8
MHX500	500	50	50	4
MHX700	700	50	50	3
MHX1000	1000	50	50	2

**MHX-PU | MANUALLY OPERATED HYDROTEST PUMP UNITS**

Choice of 5 models available  
Maximum output pressures up to 1000 bar  
Two stage displacement with manual T-Handle changeover plunger

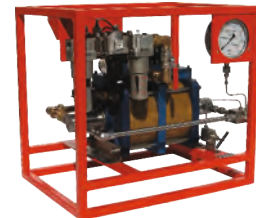


- ▶ Supplied as pump unit and operating lever only, reservoir not included
- ▶ Includes four bolt fixing kit with gasket for easy mounting on fluid reservoir
- ▶ All other features are as specified for the MHX pumps

Model (pump only)	Working pressure (bar)	Change over pressure bar	Displacement per stroke (cm³)	
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage
MHX100PU	100	50	50	22
MHX300PU	300	50	50	8
MHX500PU	500	50	50	4
MHX700PU	700	50	50	3
MHX1000PU	1000	50	50	2

**ATDP | AIR DRIVEN TWIN DOUBLE ACTING HYDROTEST PUMPS**

Output pressures up to 1489 bar  
Suitable for use with various fluids  
150 mm dual scale vibra pressure gauge



- ▶ Infinitely variable output pressure and fluid displacement speed
- ▶ Integral inlet air filtration and lubrication unit with air pressure gauge
- ▶ Airline regulator for easy setting of input air and output hydraulic pressure

Model	Max output pressure (bar) at airline input pressure			Displacement per stroke (cm³)
	1.38 bar	4.14 bar	6.9 bar	
ATDP63	87	260	434	275
ATDP125	172	517	862	140
ATDP216	298	894	1489	79

**AHP | AIR DRIVEN HYDROTEST PUMPS - STANDARD FLOW**

Output pressures up to 2931 bar  
 Suitable for use with various fluids  
 150 mm dual scale vibra pressure gauge



- ▶ Infinitely variable output pressure and fluid displacement speed
- ▶ Integral inlet air filtration and lubrication unit with air pressure gauge
- ▶ Airline regulator for easy setting of input air and output hydraulic pressure

Model	Max output pressure (bar) at fairline input pressure			Displacement per stroke (cm <sup>3</sup> )
	0.69 bar	3.45 bar	6.9 bar	
AHP10	6	34	69	42.3
AHP26	14	90	181	16.0
AHP36	17	122	250	12.3
AHP58	28	200	400	7.6
AHP107	62	373	738	4.0
AHP187	97	638	1293	2.2
AHP275	155	931	1897	1.6
AHP425	345	1448	2931	1.0
AHP10-CR	6	34	69	42.3
AHP26-CR	14	90	181	16.0
AHP36-CR	17	122	250	12.3
AHP58-CR	28	200	400	7.6
AHP107-CR	62	373	738	4.0
AHP187-CR	97	638	1293	2.2
AHP275-CR	155	931	1897	1.6
AHP425-CR	345	1448	2931	1.0

\*CR: Chart Recorder

**AHP2 | AIR DRIVEN HYDROTEST PUMPS - MEDIUM FLOW**

Output pressures up to 1634 bar  
 Suitable for use with various fluids  
 150 mm dual scale vibra pressure gauge



- ▶ Infinitely variable output pressure and fluid displacement speed
- ▶ Integral inlet air filtration and lubrication unit with air pressure gauge
- ▶ Airline regulator for easy setting of input air and output hydraulic pressure

Model	Max output pressure (bar) at fairline input pressure			Displacement per stroke (cm <sup>3</sup> )
	0.69 bar	3.45 bar	6.9 bar	
AHP2-036	17.2	124.1	248.2	40.8
AHP2-060	31	199.9	413.7	24.6
AHP2-097	51.7	327.5	668.8	15.2
AHP2-144	75.8	489.5	992.8	10.2
AHP2-237	131	799.8	1634.1	6.0
AHP2-036CR	17.2	124.1	248.2	40.8
AHP2-060CR	31	199.9	413.7	24.6
AHP2-097CR	51.7	327.5	668.8	15.2
AHP2-144CR	75.8	489.5	992.8	10.2
AHP2-237CR	131	799.8	1634.1	6.0

\*CR: Chart Recorder

**HPF | WORKSHOP PRESSES**

Capacities from 10 to 200 tonnes  
 Stroke lengths from 250 to 330 mm  
 Working pressure 700 bar



- ▶ Strong steel frame construction
- ▶ Easily adjustable work table on all models
- ▶ Adjustable upper bed on all models 50 tonnes and above
- ▶ V-BLOCKS Available as standard for 10, 25, 50 and 100 tonne presses

Model	Capacity (tonnes)	Stroke (mm)	Pump type	Maximum Daylight H x W (mm)
HPF1020	10	250	Manual	1453 x 762
HPF1030	10	250	Air	1453 x 762
HPF2520	25	250	Manual	1453 x 762
HPF2530	25	250	Air	1453 x 762
HPF2542	25	250	Electric	1453 x 762
HPF2544	25	250	Electric	1453 x 762
HPF5020	50	330	Electric	2067 x 1000
HPF5042	50	330	Electric	2067 x 1000
HPF5044	50	330	Electric	2067 x 1000
HPF10042	100	330	Electric	1995 x 1000
HPF10044	100	330	Electric	1995 x 1000
HPF20042	200	305	Electric	1995 x 1000
HPF20044	200	305	Electric	2800 x 1200

**HKP | KNOCK OUT PUNCHERS**

Capacity 10 tonnes  
 Standard die sets included  
 Working pressure 700 bar



- ▶ Incorporates a single acting, spring assisted return cylinder
- ▶ Supplied with standard punches/die sets in a carrying case
- ▶ Can be supplied with or without manually operated pump and hydraulic hose

Model	Maximum force (tonnes)	Punch capacity (mm)	
		Stainless steel	Mild steel
HKP10-2	10	1.6	3.2
HKP10-4	10	1.6	3.2
HKP10-2H	10	1.6	3.2
HKP10-4H	10	1.6	3.2

**HHP | HOLE PUNCHERS**

Punching force up to 44 tonnes  
 Throat depth up to 75 mm  
 Working pressure 700 bar



- ▶ Choice of single or double acting models
- ▶ Fitted with integral positioning and carrying handle
- ▶ Supplied with standard set of punches and dies

Model	Maximum force (tonnes)	Throat depth (mm)	Punch capacity (mm)	
			Steel plate	Hole punch diameter
HHP30	26	75	10	up to 20.5
HHP50	44	65	15	up to 25.5

**TOOL BOXES**

Metal storage and transport box  
 Width up to 500 mm  
 Strong durable steel construction



- ▶ Choice of 4 sizes
- ▶ Anti-corrosion powder coated surface finish
- ▶ Ideal for storing and transporting Hi-Force products and accessories

Model	Weight (kg)	L x W x H (mm)
MSB2	9.7	620 x 340 x 147
MSB4	13.8	875 x 280 x 250
MSB6	16.3	720 x 500 x 250
MSB8	30.5	1100 x 500 x 250

**PKC | COMPREHENSIVE HYDRAULIC PULLER KITS**

Capacities from 10 to 50 tonnes

Combination of 4 different pullers in one set

High quality, drop forged steel components

- ▶ Multi-purpose puller kit comprising of grip puller, bearing puller, bearing cup puller and cross head puller
- ▶ Choice of 2-way or 3-way jaw pulling options
- ▶ Incorporates safety overload prevention valve within hydraulic pump



Model	Capacity (tonnes)	Grip Puller Spread of Jaw		Max Reach (mm)	Bearing Puller Spread of Jaw		Bearing Cup Puller Spread of Jaw		Cross Head Puller Spread of Jaw	
		Min (mm)	Max (mm)		Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
PKC10	10	50	350	296	115	260	10	110	40	145
PKC20	20	70	480	320	135	345	12	134	40	145
PKC30	30	90	580	407	180	440	17	255	60	240
PKC50	50	120	920	727	230	580	20	300	60	240

**SCP | SELF-CONTAINED HYDRAULIC PULLERS**

Capacities from 8 to 26 tonnes

Self-contained hydraulic system

Operates in any position



- ▶ Available in 3-jaw configuration only
- ▶ Integrated hydraulic cylinder, pump and puller assembly for easy operation
- ▶ Ergonomic 360° rotating handle for easy positioning during use

Model	Capacity (tonnes)	Type of puller	Piston rod extension (mm)	Max Spread (mm)	Max Reach (mm)
SCP103	8	3-way jaw	50	30	310
SCP203	17	3-way jaw	100	50	430
SCP303	26	3-way jaw	150	100	610

**ACP | AUTO-CENTRE HYDRAULIC PULLER KITS**

Capacities from 10 to 50 tonnes

Quick set-up time, easy to use

High quality, drop forged steel components



- ▶ Self-centering design allows secure positioning of jaws
- ▶ Incorporates safety overload prevention valve within hydraulic pump
- ▶ Supplied as a complete set with all necessary hydraulic components in handy storage case

Model	Capacity (tonnes)	Type of puller	Max Spread (mm)	Max Reach (mm)
ACP10	10	2 & 3-way jaw	350	296
ACP20	20	3-way jaw	480	320
ACP30	30	3-way jaw	580	407
ACP50	50	3-way jaw	920	727

**PKS | HYDRAULIC 2 & 3 WAY PULLER KITS**

Capacities from 4.5 to 50 tonnes

Quick set-up time, easy to use

High quality, drop forged steel components



- ▶ Available in choice of 2 or 3-way puller configurations with 4.5 tonne and 10 tonne models offering a combination of both options
- ▶ Incorporates safety overload prevention valve within hydraulic pump
- ▶ Supplied as a complete set with all necessary hydraulic components in handy storage case

Model	Capacity (tonnes)	Type of puller	Max Spread (mm)	Max Reach (mm)
PKS5-2-3	4.5	2&3-way jaw	240	225
PKS10-2-3	10	2&3-way jaw	350	296
PKS20-2	20	2-way jaw	480	320
PKS20-3	20	3-way jaw	480	320
PKS30-2	30	2-way jaw	580	407
PKS30-3	30	3-way jaw	580	407
PKS50-2	50	2-way jaw	920	727
PKS50-3	50	3-way jaw	920	727



**HI-FORCE HYDRAULIC PULLER KITS**

The Hi-Force range of hydraulic puller kits comprises of self-contained and remote operation, manually operated, 2 and 3-way jaw type pullers, with or without auto-centre option, bearing pullers, bearing cup pullers and cross head pullers, with pulling capacities up to 50 tonnes. All components are manufactured from high strength alloy and drop forged steel.

Additionally, within this section of the catalogue Hi-Force also offers hydraulic pin and bush puller and instalment tool kits, ideally suited for use on heavy duty trucks, earth moving equipment and crane and jib arm lifting equipment, the range offers capacities up to 50 tonnes, at 700 bar maximum working pressure.



### CH | CABLE CRIMPING HEADS

Choice of 7 models available  
180 degree rotating head for easy fitment  
Working pressure 700 bar



- ▶ Open 'C' jaw or parallel guide design
- ▶ 180° rotating head for easy access in confined spaces
- ▶ Fitted with quick connect coupling for easy connection to 700 bar rated hydraulic pump

Model	Output (tonnes)	C-Jaw opening	Applicable range DIN (mm²)
CH21	10	not applicable	16-240
CH30	10	30 mm	35-400
CH32	16	not applicable	16-400
CH40	10	42 mm	35-400
CH63	16	not applicable	35-630
CH80	13	50 mm	35-630
CH1000N	53	not applicable	500-1000

### HCH | HYDRAULIC CUTTER HEADS

Single acting, spring assisted return design  
Compact and lightweight  
Working pressure 700 bar



- ▶ High quality tool steel cutting blades
- ▶ Fitted with quick connect coupling for easy connection to hydraulic pump & hose
- ▶ Suitable for cutting copper, aluminium\*, telephone cables, armoured underground cable\*\*

Model	Cutting force (tonnes)	Steel Wire Rope (mm)	Material		
			Round Bar (mm)	Wire Strands (mm)	Cable (mm)
HCH40	7	25	25	40*	40**
HCH120	12	-	-	46*	120**

### HPR | PIN & BUSH REPLACEMENT TOOL KITS

Capacities up to 50 tonnes  
Maximum working pressure 700 bar  
Lightweight and compact design



- ▶ Choice of manual or air driven hydraulic pump
- ▶ Kit includes a lightweight aluminium alloy hollow bore cylinder
- ▶ Supplied complete with wide range of standard tooling accessories

Model	Capacity (tonnes)	Stroke (mm)
HPR-1	37	51
HPR-1H	37	51
HPR-1A	37	51
HPR-2	50	104
HPR-2H	50	104
HPR-2A	50	104

### CT | SELF-CONTAINED HYDRAULIC CUTTERS

Cutting capacity up to 40 mm diameter  
Cuts a wide variety of materials  
Compact and lightweight



- ▶ High quality tool steel cutting blades
- ▶ Incorporates an integral hydraulic pump for easy operation
- ▶ Ergonomic grip handles for reduced operator effort

Model	Cutting force (tonnes)	Steel Wire Rope (mm)	Material		
			Round Bar (mm)	Wire Strands (mm)	Cable (mm)
CT20	5	20	20	20	20
CT40	7	25	25	40	40

### HBR | SPRING EYE BUSH REPLACEMENT TOOL KIT

Powerful 18 tonnes output capacity  
Maximum working pressure 700 bar  
Lightweight and compact design



- ▶ Choice of manual or air driven hydraulic pump
- ▶ Kit includes a lightweight aluminium alloy hollow bore cylinder
- ▶ Supplied complete with wide range of standard tooling accessories

Model	Capacity (tonnes)	Stroke (mm)
HBR-1	18	51
HBR-1H	18	51
HBR-1A	18	51

### HSWC | SELF-CONTAINED HYDRAULIC WIRE ROPE CUTTERS

Cutting capacities up to 44 mm diameter  
Strong rigid steel construction  
Easy to use with minimum operator effort



- ▶ Self-contained design for applications where no external power is available
- ▶ Open jaw design cutting head allows easy access for the material to be cut
- ▶ Heat treated, high quality tool steel blade

Model	Cutting capacity Wire rope Ø mm
HSWC19	19
HSWC28	28
HSWC44	44



## HI-FORCE CRIMPERS AND CUTTERS

The Hi-Force range of hydrotest pumps Hi-Force hydraulic cable crimping tools are designed and manufactured for crimping un-insulated compression and mechanical connectors, in copper and aluminium, to a wide range of electrical power cables including distribution and transmission lines. Offering a choice of self-contained operation with inbuilt manually operated hydraulic pump mechanism, separate remote operation crimping head for use with a separate hydraulic pump and hose assembly, or battery operated which offers all the versatility of our self-contained and manually operated tools but, with the added speed and ease of use associated with a battery powered tool.

**HWRC | DOUBLE ACTING WIRE ROPE CUTTERS**

Double acting design  
Smooth guillotine cutting action  
Working pressure 700 bar



- Features a double acting cylinder which offers a faster and positive return
- High grade steel construction
- Open jaw design cutting head allows easy access for the material to be cut

Model	Output (tonnes)	Cutting capacity (mm)		
		Wire rope Ø	Cable	Reinforcing bar
HWRC1115	36	38	38	20
HWRC1125	80	63	63	32
HWRC1136	80	90	90	32
HWRC1145	120	114	114	40

**HWC | HAMMER BLOW WIRE ROPE AND CABLE CUTTERS**

Highly cost efficient impact design  
Cutting capacities up to 38 mm diameter  
Portable and lightweight



- Manufactured from high quality, shock resistant ductile iron
- Heat treated, tool steel cutting blade, fully contained within housing for increased safety
- Suitable for cutting wire ropes and electrical cables

Model	Wire rope Ø mm	Cutting capacity	
		Electric cable mcm*	mm <sup>2</sup>
HWC90	19	250	127
HWC91	27	300	152
HWC92	38	750	380

**HCC | CHAIN CUTTERS**

Cutting capacities up to 50 mm diameter  
Smooth guillotine cutting action  
Working pressure 700 bar



- Single acting spring assisted return hydraulic piston
- High grade steel construction
- Swivel locking safety guard allows easy access for material to be cut

Model	Output (tonnes)	Cutting capacity Ø (mm)	Maximum allowed	
			Chain grade	Steel hardness
HCC26-100	70	26	100	47 HRC
HCC34-100	100	34	100	47 HRC
HCC46-100	140	46	100	47 HRC
HCC50-100	145	50	100	47 HRC

**SC | SELF-CONTAINED CABLE CRIMPING TOOLS**

Choice of 6 models available  
Supplied complete with die set  
Choice of open jaw or parallel guide design



- 180° rotating head standard on all open jaw design models
- Incorporates an integral hydraulic pump for easy operation
- Automatic pump pressure release valve for correct pre-set crimping force

Model	Output (tonnes)	C-Jaw opening	Applicable range DIN (mm <sup>2</sup> )	Weight (kg)
SC18X	5	not applicable	10-185	2
SC21	10	not applicable	25-240	5.2
SC30	10	30 mm	35-400	6.3
SC32	16	not applicable	16-400	6.2
SC40	10	42 mm	35-400	7.7
SC60	16	not applicable	35-630	6.5

**BC | BATTERY OPERATED CABLE CRIMPING TOOLS**

Fast self-contained battery powered tools  
Supplied complete with standard set of dies  
Lightweight and easy to operate



- Open jaw design with rotating head (excl. BC18X & BC63)
- Fast and quiet operation with no vibration
- Built in automatic pump pressure release valve

Model	Output (tonnes)	C-Jaw opening	Applicable range DIN (mm <sup>2</sup> )	Weight (kg)
BC18X	5	not applicable	10 - 185	3.8
BC30	10	30 mm	35 - 400	5.9
BC40	10	30 mm	35 - 400	7.2
BC63	16	not applicable	35 - 630	6.9

**PB | HYDRAULIC PIPE BENDER**

Capacity 10 tonnes  
Bends up to 90 degrees  
Working pressure 700 bar



- Lightweight aluminium bending frame
- Designed to offer smooth, wrinkle free bend on various sizes and thicknesses of JIS standardised conduit pipes

Model	Max capacity (tonnes)	Stroke (mm)	Oil capacity (litres)	Applicable range (mm)
PB10B	10	250	0.4	16 mm to 82 mm ½" to 3"

## Peinemann



### Bundle Pullers

- ▶ Bundle pullers up to 125t capacity (Aerial, Self-propelled, Truck mounted)
- ▶ Sales, Service, Rentals



### Bundle Cleaners

- ▶ Single, Double, Triple, Quadruple, Quintuple lance feeders
- ▶ Advanced carbon fibre body, auto indexer



### Bundle Lifter

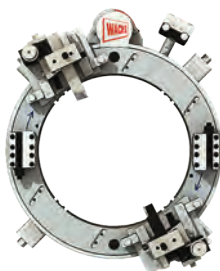
- ▶ Designed to ensure safe and effortless bundle lifting
- ▶ Minimising the risk of bundle damage during lifting operations, promoting efficiency and reliability.

## E H Wachs



### Flange Facing Machines

- ▶ ID mount Flange facer from 8" to 24"
- ▶ With optional tool slide up to 36"
- ▶ Advanced design with auto prep and auto feed precise end prepping



### Pipe Cutting & Bevelling Machines

- ▶ 2" to 72" range split frame cold cutting machines.
- ▶ Cutting, beveling, counter beveling, casing cutting, end prepping and flange facing



### Hand Held Valve Operators

- ▶ Operates valves from 6" to 60"
- ▶ Forward and reverse variable speed control
- ▶ 800ft/lbs of torque

## Innotorc



### Battery Operated Torque Wrenches

- ▶ Torque range 20 to 8,000Nm in Straight & Angled version with a repeatability of  $\pm 3\%$
- ▶ Brushless motor with electronic torque shutoff
- ▶ Torque and angle controlled tightening process with digital display in EMAX & EMAX series
- ▶ 60 pre selectable torque settings possible in EMAX & EMAX series
- ▶ Predefinition and documentation of tightening process via bluetooth possible (EMAX & EMAX)
- ▶ Includes charger and two high-performance lithium-ion

### Electric Operated Torque Wrenches

- ▶ Torque Range 100Nm to 12,000Nm in straight & Angled Version with repeatability of  $\pm 3\%$
- ▶ Torque and Angle controlled tightening with digital display
- ▶ Presettable customer specific torque values possible as option
- ▶ Slim design with low weight
- ▶ Fast, Reliable with high performance Gear Box



## Hilman Rollers



### Tri Glides

- ▶ Wide foot print and keeps load near to ground for safe moving
- ▶ Available in capacities from 10Ton to 80Tons
- ▶ 300 deg Turn Table to facilitate turning under load
- ▶ Available in Poly wheels & Nylon wheel offering floor protection
- ▶ Nylon wheels will not set under load if left for a period of time

### Chain Action Rollers

- ▶ Low Profile, recirculating chain design with no bearings and low maintenance
- ▶ Available from 0.5Ton to 1000Ton of individual models
- ▶ Facilitates smooth movement on floor with small cracks or gaps in running plates
- ▶ Variety of top styles for straight moving or turning suitable for concrete floor
- ▶ Nylon chain rollers for floor protection applications

### Toe Jacks

- ▶ Heavy duty toe jacks to lift with 1" clearance.
- ▶ Available in 5/10 & 25Ton
- ▶ Adjustable lifting toe to adjust for different lift points
- ▶ Strong lift legs and release valve facilitate for stable lifting and smooth lowering
- ▶ 5&10 models suitable for vertical and horizontal operation

## CEJN



### Pneumatic Couplers

- ▶ Safety Vent before disconnection eliminate recoil & noise
- ▶ One hand operation with safety lock options
- ▶ Low pressure drop & increased air flow to reduce energy consumption
- ▶ Available working pressure 8-35bar with various end connections
- ▶ Available in Stainless Steel/ Zinc Plated Steel/Nickel Plated Brass/Chrom Plate Brass & Brass Material

### Pneumatic Hose, Water & Cable Reels

- ▶ Retractable Air, Water & Cable hose reels with slow retraction
- ▶ Guiding mechanism for hose & cables
- ▶ Auto stop feature
- ▶ Soft stop ball
- ▶ Closed Reels from 5-17m and Open Reels upto 23mtrs

### Air & Multi Fluid Guns

- ▶ Light Weight, Ergonomic and perfect fit for right & left handed users.
- ▶ Flexible hanging option for convenient storage & quick retrieval
- ▶ Jet/Star/Straight Nozzle with high blowing force.
- ▶ Adjustable flow ranging from 200 to 1200 l/min for air or 5-25 l/min for fluids in Multi Fluid Guns
- ▶ Material POM, TPE, Aluminum

### Hydraulic Couplers

- ▶ Safety lock for involuntary disconnection
- ▶ Connection under Pressure for flat face couplers
- ▶ Available in Flat Face/Screw to Connect/Poppet Type designs
- ▶ Stainless Steel/Steel material options with various end connections.
- ▶ Working Pressure from 200bar to 3000bar

## Eilon Engineering



### Load Monitoring Systems & Crane Scales

- ▶ Suitable for safe weighing during lifting, tension or drag force measurement
- ▶ High accuracy load cell with accuracy of 0.1% of full scale
- ▶ Available in various options Wire/Wireless and Shackle & Hook Type
- ▶ Display Unit Sizes : 12.5mm, 25mm & 50mm dia
- ▶ Capacity available from 0.5Tons to 300Tons

## Emiliana Serbatoi



### Hippo Tank

- ▶ Polyethylene tank designed to transport fuel in compliance with ADR regulations.
- ▶ 960-liter storage volume, including a complete fuel transfer unit with a 12 V DC fuel transfer pump, hose, automatic nozzle, battery power cable and clamps, and a digital flow meter.
- ▶ Side forklift pockets reinforced with zinc-coated carbon steel profiles allow lifting with a forklift (full load) from the bottom..

## Haulotte - Aerial Work Platforms

### Push Around



- ▶ Lightweight and compact
- ▶ Can pass through doors
- ▶ Battery / AC 220 V powered
- ▶ Working height 8 m – 14m



Maintenance & restoration



Sporting & other events

### Scissor Lift



- ▶ Self propelled man lifting machine
- ▶ Bigger platform and higher lifting capacity
- ▶ Power source Battery
- ▶ Working height 8m -14 m



Building work



Logistic/Retail/Industrial



Finishing



Maintenance & restoration



Sporting & other events

### Articulating Booms



- ▶ Suitable for hard reach jobs
- ▶ Best machine for multi directional reach
- ▶ Battery / Diesel powered
- ▶ Working height 12m -43 m



Building work



Logistic/Retail/Industrial



Finishing



Maintenance & restoration



Sporting & other events



Landscaping

## LEVO



### Truck Mounted Aerial Work Platform

- ▶ Designed in Europe, built in India
- ▶ Crafted from High Tensile Steel for Superior Performance.
- ▶ Lower Emissions, Zero Maintenance.
- ▶ Best-in-Class Height & Outreach.
- ▶ On-Board Real-Time Diagnosis

### Applications

- ▶ Highway, roadside and toll maintenance
- ▶ Surveillance maintenance
- ▶ Streetlight maintenance
- ▶ Tree Pruning
- ▶ Hoardings, signage boards
- ▶ Tarmac, airline, and hangar maintenance
- ▶ Facility management and maintenance



Street Lights



Traffic Lights



Transmission & Telecom Towers



Surveillance Systems

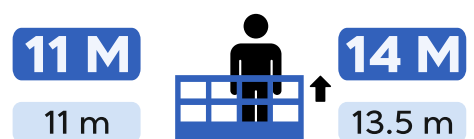


Signage Boards

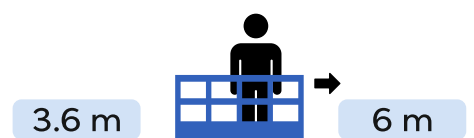


Tree Pruning

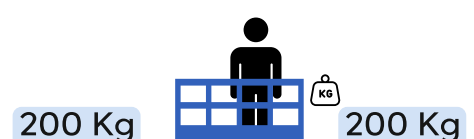
### MODELS :



**WORKING HEIGHT**



**HORIZONTAL OUTREACH**



**BASKET CAPACITY**



## In Situ Mechanical services



### Torquing

- ▶ Square Drive and Low Profile Hexagon Type Torque Wrenches
- ▶ Torque wrenches upto 47000NM



### Tensioning

- ▶ Bolt Tensioners up to 4" and above
- ▶ Sub Sea Tensioners



### Heavy Lifting

- ▶ Flange Spreaders and Nut Splitters on hire
- ▶ Hydraulic jacks upto 350 ton
- ▶ Pneumatic and Electric wrenches



### In-Situ Machining

- ▶ ID mount Flange Facers up to 88" complete with Back facing and tube mount kits
- ▶ Milling machines for partition Groove machining
- ▶ Journal Shaft turning



### Cutting & Bevelling

- ▶ Cutting and Bevelling machines up to 120"
- ▶ Internal and External Casing cutting
- ▶ ID /OD mount End Prep machines



### Bundle Pullers

- ▶ Peinemann Bundle Pullers up to 60t on rent
- ▶ Peinemann certified Bundle puller operators and training
- ▶ AMC for Peinemann Bundle Pullers



### Metal Disintegration

- ▶ Removal of Bolts, Thread Taps, Drills, Reamers, Nuts, Pins, Dowels
- ▶ Removal of Seized Blades out of Rotor Grooves
- ▶ Removal of Valve Seats out of press fit / Shrunk-in locations
- ▶ Any Material( Carbon steel, Stainless, Carbide, titanium)
- ▶ Bolts/Pins from M12 to unlimited size.



### Heavy Lifting with Strand Jacks

- ▶ We offer Strand Jacks for various lifting jobs
- ▶ Competent and qualified manpower for standard or customized lifting job
- ▶ Onshore and offshore job execution capabilities



### Shutdown Services

- ▶ Trained manpower for onshore, offshore, project and shutdown services
- ▶ Mechanical services including Hydrojetting, Blinding De-Blinding,
- ▶ Valve Testing and Machining
- ▶ Pan India, Middle East and South East Asia Coverage



# VISION

To innovatively fulfill technical needs of customers & build a respected enterprise \_\_\_\_\_ that creates superior value for all

# VALUES



## CUSTOMER FOCUS

We will keep the customer at the centre of all our decisions and always align ourselves to our customers' business needs.



## INTEGRITY

We will be honest, ethical & reliable in all our dealings. We will maintain confidentiality, honour all relationships, commitments & practice transparency in all our dealings.



## VALUE-ADD

We will strive to add value in all our interactions with society, customers, partners, stakeholders, employees and our families.



## INNOVATION

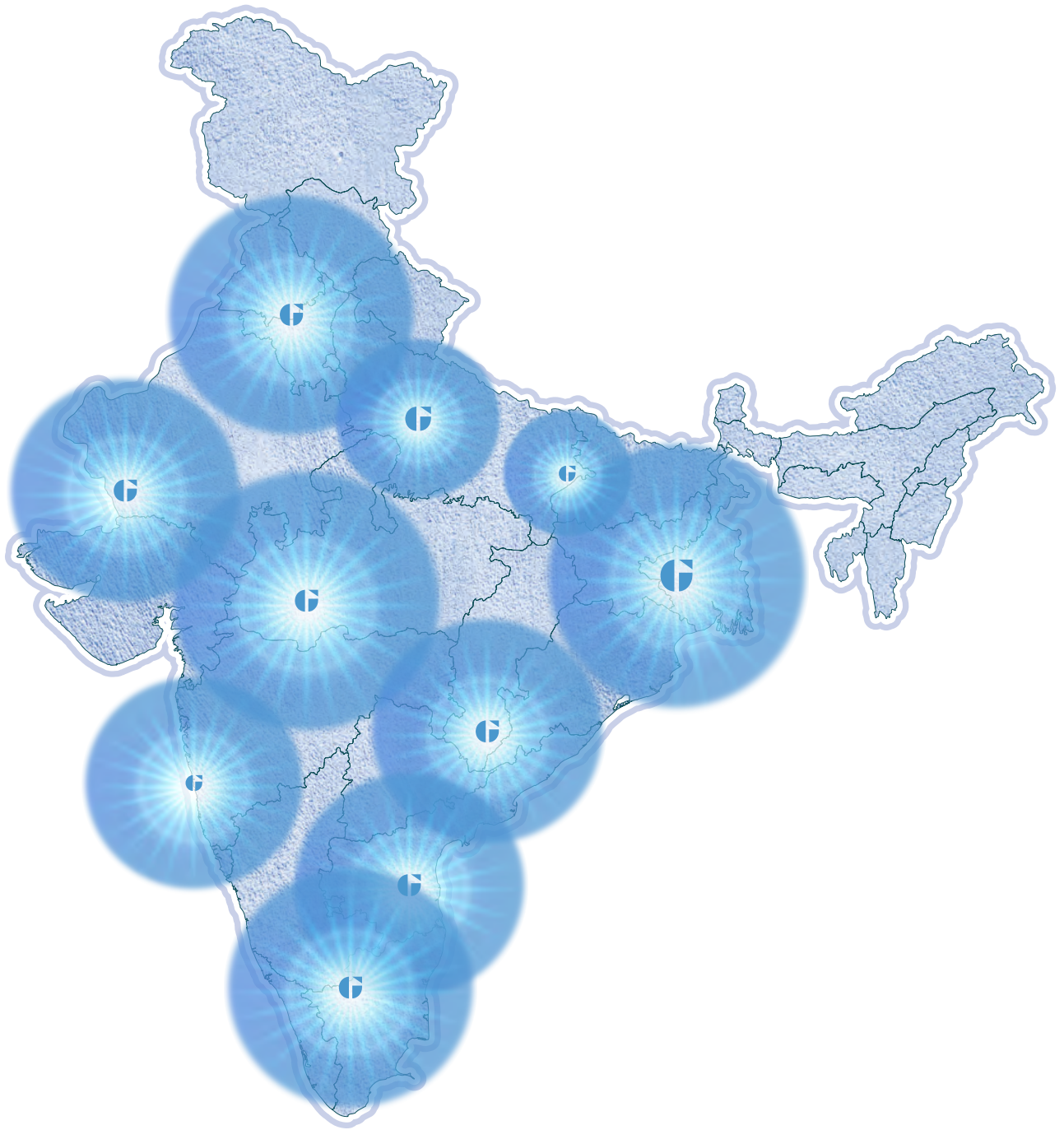
Innovations the cornerstone of our existence; we will continuously innovate and push boundaries everyday.



## WELLBEING

We lay a very high emphasis on work life balance, physical and mental fitness and encourage fun at work.





 **GEMINI**  
POWER HYDRAULICS PRIVATE LTD



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