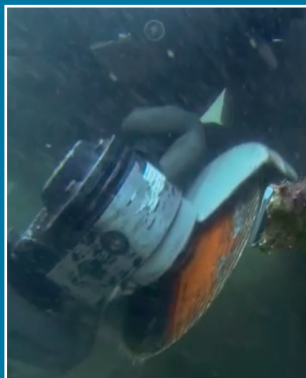




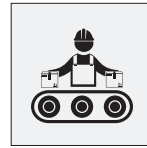
DOA
Hydraulic Tools
UNDERWATER

Subsea hydraulic tools are specialized instruments used in a variety of underwater applications, ranging from ship and offshore platform maintenance and repair to cleaning of water tanks and treatment facilities. Designed with advanced technology and engineering, these tools are capable of operating in challenging and demanding subsea environments, providing the power, precision, and durability necessary to tackle even the most complex tasks. They are built to withstand extreme pressure and environmental conditions present in the depths of the ocean, ensuring that subsea operators can work safely and efficiently. As such, subsea hydraulic tools play a vital role in many underwater activities and continue to evolve to meet the needs of subsea professionals around the world.



WHY HYDRAULIC TOOLS

POWER & PRODUCTIVITY



The power to weight ratio of hydraulic tools is unbeatable! A comparative test will immediately demonstrate this advantage that means increased productivity and less fatigue for the operators.

TRANSPORTABILITY & ECONOMY



Hydraulic tools are very compact and easy to transport verses air driven products. The power pack is much lighter than an air compressor and uses less fuel to operate giving better economy and impact on the environment. Tools can easily be transported by smaller vehicles and be positioned on job sites occupying minimal space and taking less time to set up.

A BETTER WAY TO WORK IN TOTAL SAFETY



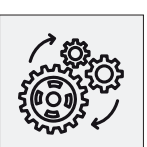
No other equipment either electric, gasoline, or pneumatic can solve together all the problems related to urban maintenance and utility works. Modern utility organisations require powerful, productive, reliable and easily transportable equipment that must give the maximum guarantee of safety for operators. It is difficult to obtain all this from conventional equipment, hydraulics and the DOA range is the definitive point by point solution. Hydraulic equipment is free from electric shock hazards often associated with operators working inside trenches in water and mud, these are dangerous conditions prohibited by law and if using electric single phase tools it could be fatal. Hydraulic tools are designed can be totally immersed in water without effecting their performance or safety.

NO FROZEN MOISTURE IN WINTER - QUIETNESS



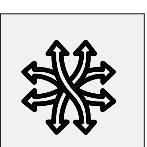
The absence of an open exhaust gives a quietness that is unrivalled by other tool types. In winter conditions and at lower temperatures hydraulic tools guarantee the absence of frozen moisture typical limiting the usage of the air tools. Hydraulics also gives the advantage of not having pressure accumulation due to the oil not being compressible so it cannot cause explosions of tanks and hoses etc.

MULTI POWER GROUPS FOR TRUCKS



DOA multi power solutions for vehicles: INTELLIPOWER, TRIDENT & HYDROBOX all significantly increase the use of trucks, vans & plant transforming them from normal vehicles into power solutions to drive hydraulic, electric and pneumatic energy from the engine plant of such vehicle. This means better utilisation of resources, less investment in equipment and less costs in transport.

VERSATILITY AND LONG OPERATIVE LIFE OF TOOLS



Hydraulic tools also offer greater durability and a longer life span than other tools often lasting up to 20 times longer, this is due to a smaller number of working components that are always bathed and lubricated by the oil that drives them.

THE RANGE



DOA is proud to bring you the best range of hydraulic tools on the market today and offers solutions for all your infrastructure and underwater tool requirements. We are constantly innovating and producing tools for the worlds demanding environment with ergonomic design, quality, and operator safety at the forefront of everything we do. **DOA IS ALWAYS A STEP AHEAD!**



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DOA
Hydraulic Tools
UNDERWATER

BREAKER

KD 12

12-14



Weight Kg	14
Flow L/min	20-30
Pressure Bar	140

GRINDER

AS 23

ø da 230 mm



Flow L/min	20-30
Pressure Bar	140-180
Disc (mm)	230 - foro 22-23

WRENCH

IMPACT WRENCH

DHW 3034
DHW 301
DHW 501



Max torque	3000-5000
Free speed	2800-1700
Max oil flow	10-20L/min

IMPACT WRENCH

DHW 9512
DHW 17012



Max torque	9500-17000
Free speed	1350-1200
Max oil flow	10-20L/min

DRILL

HAMMER DRILL

HD 13

13

1200 colpi/min, 900 rpm



Weight Kg	13
Flow L/min	20-25
Pressure Bar	140

CORE DRILL

AK 50

ø 700 mm



Flow L/min	30-38
Pressure Bar	120-200

PISTOL CORE DRILL

AK 46 S

ø da 30-100 mm

AK 46 G

ø da 80-160 mm



Flow L/min	20-30
Pressure Bar	140-180
Cutting capacity (mm)	30-160

SAW

DISC SAW

DC 14 - DC 16 - DC 18

ø da 350 a 400 mm



Flow L/min	20-30-40
Pressure Bar	140-180
Cutting capacity (mm)	120-145

DISC SAW

DC 20 - DC 22

ø da 450 a 500 mm



Flow L/min	40
Pressure Bar	140-180
Cutting capacity (mm)	187-202

DIAMOND CHAIN SAW

HDS 6

hydraulic pressure 175 Bar



Flow L/min	40
Pressure Bar	175
Cutting capacity (mm)	up to 65

POWER PACKS

• GASOLINE

SUPER ASPID - ASPID B
30l/min @ 140 Bar
Engine 13hp



SUPER RAPTOR dual

Double parallel circuit at 19 l/min
or single at 38 l/min
Gasoline engine 18 Hp



SUPER RAPTOR single

38l/min @ 140Bar
Gasoline engine 18hp



MANTA

30l/min @ 140 Bar
2.2kWA 115-230V
Engine 14hp



DIMANO 35 H

Double circuito power pack
Gasoline engine 35Hp



• DIESEL

RAPTOR D
30l/min @ 140 Bar
Engine Diesel Kohler 10.5cv



DINAMO D

Dinamo single circuit
15-40l/min @ 150 Bar

Dinamo double circuit
20 + 20 o 40l/min @ 150 Bar
Engine Kohler 21hp diesel



NITRO D

Diesel engine Kubota 25 hp



LOTUS

Special Power Pack with Diesel
engine Kohler 56hp



• ELECTRIC

SUPER RAPTOR E
30-42l/min @ 210 Bar
Engine triphase
400 V - 50 Hz power 9-11-15 Kw



ENERGA

20-30-40 l/ min
210 Bar Engine triphase 11-15 Kw



WATER PUMPS

BLACK WATER PUMP SP 20

mouth 2"

available in



Flow	800l/min
Water head	35 m max
Pompable solids	3 cm

CLEAR WATER PUMP WP 25

mouth 3"

available in



Flow	1600l/min
Water head	45 m max
Pompable solids	1,5 cm

BLACK WATER PUMP SP 35

mouth 3"

available in



Flow	1600l/min
Water head	50 m max
Pompable solids	5 cm

BLACK WATER PUMP

SP 45

mouth 4"

available in



Flow	3000l/min
Water head	16 m max
Pompable solids	7 cm

BLACK WATER PUMP

SP 55

mouth 5"

ideal for flood emergencies



Flow	5500l/min
Water head	29 m max
Pompable solids	5,5 cm

BLACK WATER PUMP

SP 65

mouth 6"

ideal for flood emergencies



Flow	8000l/min
Water head	39 m max
Pompable solids	6,5 cm

BLACK WATER PUMP

AP 80

mouth 8"

ideal for flood emergencies



Flow	10.200l/min
Water head	8 m
Pompable solids	2,5 cm



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