Nicolas Denoncin Area Sales Manager



ABOUT THE WEBINAR



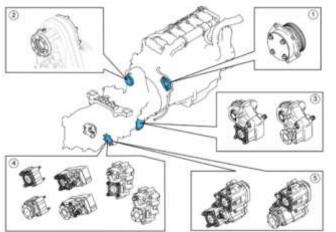
WHOS IS DYNASE7?

- Family owned factory in Finland
- 35 years old
- Hydraulic know-how
- Extra compact products for mobile machinery in many industries...
 ... also in the field of firefighting and rescue!



MOBILE POWER SOURCE

Hydraulic power needed
Power Take Off (PTO) (or Dynaset HPTO)











MOBILE POWER SOURCE

Hydraulic power needed
Power Take Off (PTO) (or Dynaset HPTO)
Operates a hydraulic pump



Power source available on Board!!

MOBILE POWER SOURCE

Hydraulic system:

- Hydraulic Pump
- Hydraulic oil tank
- Oil cooler
- Regulating and distribution valve block



Up and running!

FIREFIGHTING AND RESCUE WITH DYNASET FIREFIGHTING OPERATIONS • HPW WATER PUMPS

- SPECIFIC HPW FIRE TOOLS
- FP PENETRATOR EXTINGUISHER
- HPP FIRE PUMPS
- HCF HIGH FLOW AIR BLOWER
- HSP HIGH FLOW WATER TRANSFER PUMPS
- HKR AIR COMPRESSORS
- HPU Hydraulic Power Units



FIREFIGHTING with High Pressure - Lower Flow

- Higher pumping pressure means finer spray pattern
- Finer spray pattern efficiently cools down the premises
- Finer spray pattern allows for lower water flow
- Lower water flow saves water which means

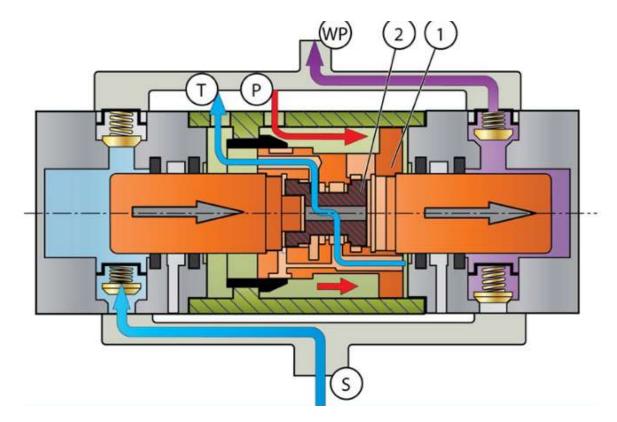


Longer firefighting autonomy with the same water tank
 Less water damage to property

FIREFIGHTING / HPW



Blue ... aulics



FIREFIGHTING / HPW

- Best power-to-size ratio in the world: extremely compact!
- Maintenance free
- Field serviceable
- Self priming: can run dry
 VERY WIDE RANGE OF MODELS
 A DYNASETGEM!



FIREFIGHTING / HPW

The HPW, <u>high pressure pumping</u> <u>heart</u> being in place, it provides pumping function for the following product: HPW FIRE





FIREFIGHTING / HPW FIRE set



30 l/min@200 bar

50 l/min@220 bar

90 l/min@80 bar

Very agile in confined spaces

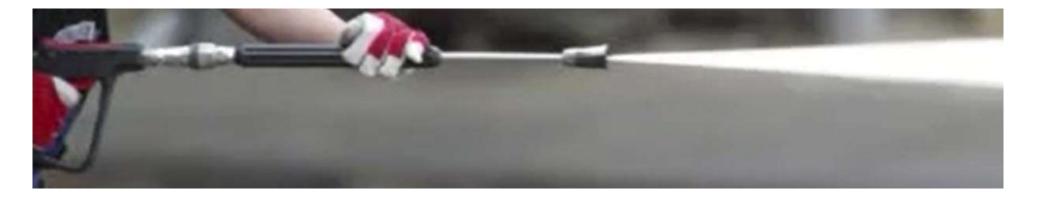


FIREFIGHTING / HPW FIRE set

• Direct Jet Function :







FIREFIGHTING / HPW FIRE set

 Direct Jet Function : See the whole video at Youtube or through the webinar recording! <u>https://www.youtube.com/watch?v=CfyIH</u> <u>dNUheU&t=90s</u>



FIREFIGHTING / HPW FIRE set

• Wall piercing function:







FIREFIGHTING / HPW FIRE set

 Wall piercing function: See the whole video at Youtube or through the webinar recording! <u>https://www.youtube.com/watch?v</u> <u>=CfyIHdNUheU&t=90s</u>



FIREFIGHTING / HPW FIRE set

Water mist fogging function









FIREFIGHTING / HPW FIRE set

 Water mist fogging function: See the whole video at Youtube or through the webinar recording! <u>https://www.youtube.com/watch?v</u> <u>=CfyIHdNUheU&t=90s</u>



FIREFIGHTING / HPW FIRE set

Foam gun function





FIREFIGHTING/ HPW FIRE set

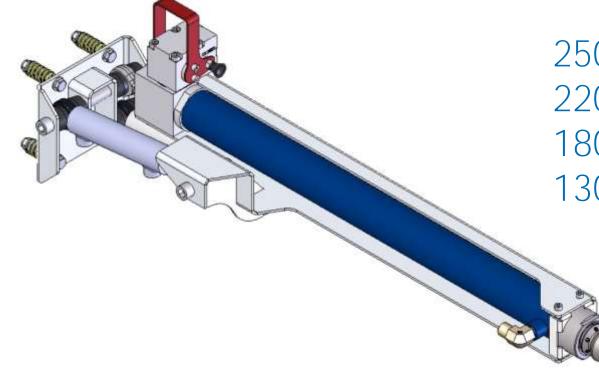
Foaming gun

 (non CAF): See the whole video at
 Youtube or through the webinar
 recording!
 <u>https://www.youtube.com/watch?v
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FIREFIGHTING / FP perforator

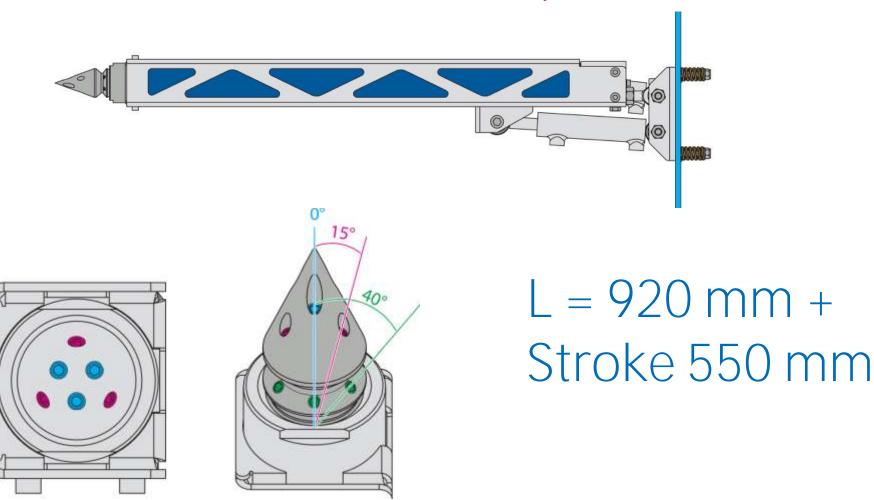
• Remote and automated extiguishing and cooling operations . No additionnal oxygen input...



250 bar / 30 l/min 220 bar / 50 l/min 180 bar / 90 l/min 130 bar / 180 l/min

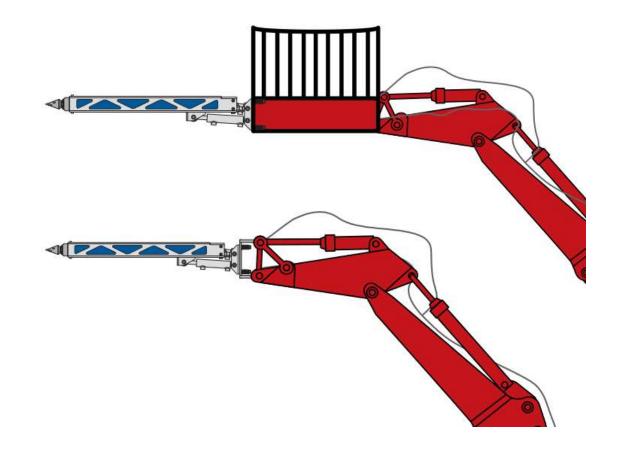


FIREFIGHTING / FP perforator





FIREFIGHTING / FP perforator





FIREFIGHTING / FP perforator

 Remote and automated extiguishing and cooling operations. No additionnal oxygen input: See the whole video at Youtube or through the webinar recording! <u>https://www.youtube.com/watch?v=CfyIHdNUheU</u> <u>&t=90s</u>



FIREFIGHTING / HPW

With a High Pressure pumping facility on board like the HPW, it becomes rather simple to install a self protection device on forestry fire trucks such as this one: A series of HP water misting nozzles installed around the truck body will allow for heat protection of the whole truck in extreme and hazardous Forest fire situations, making the truck a safe haven for the firemen.

Bluemandulics

FIREFIGHTING / HPP Fire pumps "Traditionnal" centrifugal fire pump for fire engines, hydraulically driven







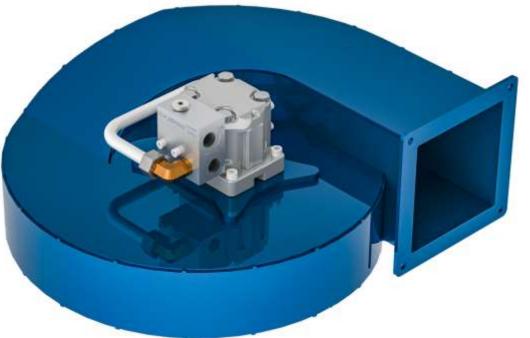
FIREFIGHTING / HPP Fire pumps

	HPP	HPP	HPP		
	1500/10	1200/15	600/35		
l/min	1500	1200	600		
(gpm)	(396)	(317)	(158)		
l/min	1500	1000	400		
(gpm)	(396)	(264)	(105)		
kW	50	23	10		
<mark>bar (</mark> psi)	17	15	12		
	(245)	(218)	(175)		



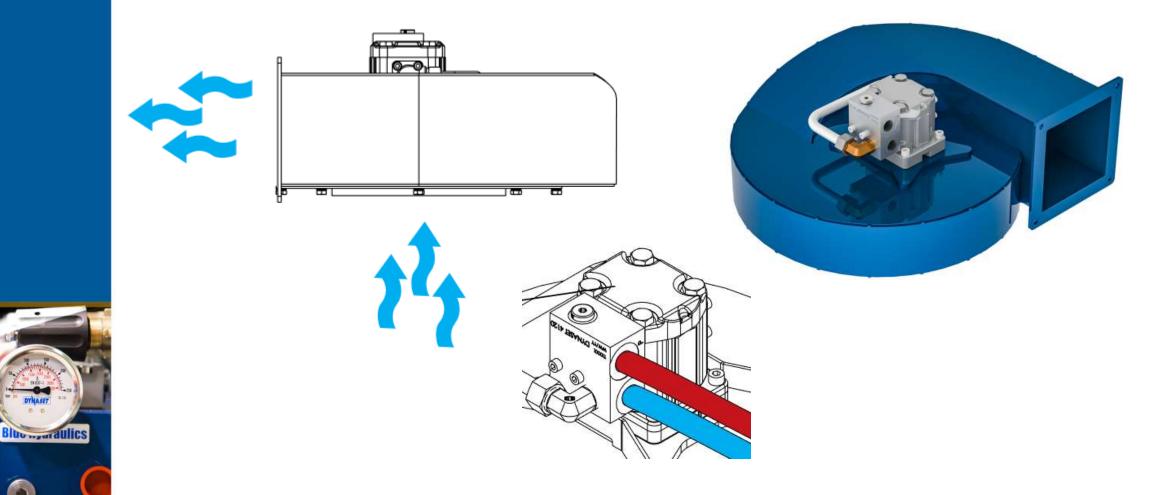
FIREFIGHTING / smoke extraction

High air flow
 production with the
 HCF centrifugal blower





FIREFIGHTING / smoke extraction



FIREFIGHTING/ smoke extraction

A nice product range developed by Dynaset R&D for OEM developers

HCF MODEL		HCF-800-40	HCF-1500-50	HCF-3400-90			
OUTPUT CHARACHTERISTICS							
Max air vacuum	kPA	-11	-9	-8			
Max air flow	m^3/s	0,8	1,5	3,4			
HYDRAULIC CONNECTION							
Pressure line P	Р	BSPP 1/2"	BSPP 1/2"	BSPP 1/2"			
Return line T	т	BSPP 1/2"	BSPP 1/2"	BSPP 1/2"			
HYDRAULIC POWER REQUIREMENTS							
Flow max.	l/min (gpm)	40 (10.6)	50 (13.2)	90 (23.8)			
Pressure max.	bar (psi)	150 (2200)	210 (2500)	250 (3600)			

Blue ment dulics

FIREFIGHTING / Water transfer or refill with HSP



Blue ... an dulics

- Submersible centrifugal heavy duty transfer pumps
- Adequate to refill a water tank from a lake or river or swimming pool
- Extremely durable, can run dry with no consequence.
- Light and compact: one man operation on most models

FIREFIGHTING / Water transfer or refill with HSP

Wide proc	duct
range	

HSP 600 /5-38 HSP 1500 /5-40 HSP 2600 /5-50 HSP 2600 /5-100 HSP 7000 /5-169 HSP 10000 /5-20 HSP 16000 /5-31

OUTPUT CHARACTERISTICS								
Discharge max.	l/min	800	2000	3000	5000	8000	12000	20000
	(gpm)	(211.2)	(528.3)	(792.5)	(1320)	(2113)	(3170)	(5283)
Pump head max.	m	30	25	35	30	35	35	35
	(ft)	(98.4)	(82)	(114.8)	(98.4)	(114.8)	(114.8)	(114.8)
Discharge at	l/min	600	1500	2600	4000	7000	10000	16000
standard head of 5m	(gpm)	(158.5)	(296.3)	(686.8)	(1057)	(1849)	(2642)	(4227)
Output connection	in	2	3	3	5	5	6	8



FIREFIGHTING / Water transfer or refill with HSP: See the whole video at Youtube or through the webinar recording! <u>https://www.youtube.com/watch?v=CfyIHdNUheU&t=90s</u>





FIREFIGHTING / Pneumatic power for CAF with HKR air compressors

Compressed Air Foam production needs High Pressure water + Compressed Air + foaming agent in order to produce the desired sticky and thick firefighting foam.





FIREFIGHTING / Pneumatic power for CAF with HKR air compressors

Now that you know about the HPW you only need an air compressor to produce the desired foaming conditions for CAF Foam generation.







FIREFIGHTING / Separate Hydraulic Power Unit HPU-D for stand alone setup







Stand – alone LP pumping station!

FIREFIGHTING / Separate Hydraulic Power Unit HPU-D for stand alone setup



Blue ... audics



HYDRAULIC POWER OUTPUT CHARACTERISTICS

Output Pressure max.	bar (psi)	350 (5100)	350 (5100)
Output flow max @ 210 bar	l/min	150	210
	(gpm)	(39.6)	(55.4)

Fully stand alone, diesel engine, air transportable, quick setup, electric start... perfect hydraulic power source!

RESCUE OPERATIONS

- HSP HIGH FLOW WATER TRANSFER PUMPS
- HPW and KPL WASHING APPLICATIONS
- HRU RESCUE power source unit
 HG ELECTRIC GENERATOR
 HK-HKR AIR COMPRESSORS

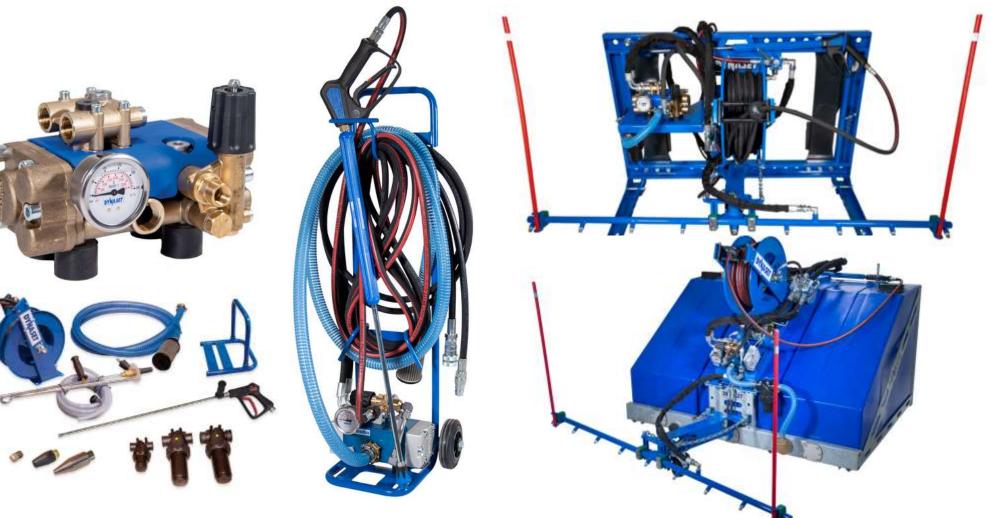


RESCUE / Water transfer with HSP

 Submersible centrifugal heavy duty transfer pumps extremely durable, can run dry with no consequence, made to pump mud....

 Adequate to empty flooding areas, flooded basements, evacuate unwanted chemicals ...

FIREFIGHTING AND RESCUE WITH DYNASET RESCUE / HPW and KPL High Pressure washing operations

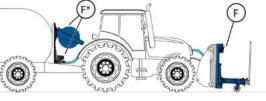




FIREFIGHTING AND RESCUE WITH DYNASET RESCUE / HPW and KPL High Pressure washing

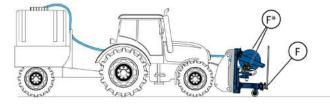
operations

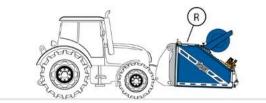


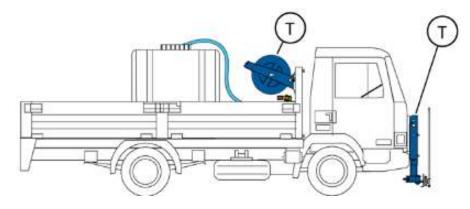


Ideal for spreading chemicals or disinfectants











RESCUE / HRU Rescue Unit For High Pressure Hydraulics generation, used to power Jaws of life



Blue man dulics

Output 2 x 5 l/min or 1 x 10 l/min @ 800 bar

Contains its own dedicated secondary hydraulic circuit
Extremely compact and easy to set up into a truck

RESCUE / HRU Rescue Unit





Blue ... andulics



RESCUE / HG electric current generator



To power any electric appliance **needed...**





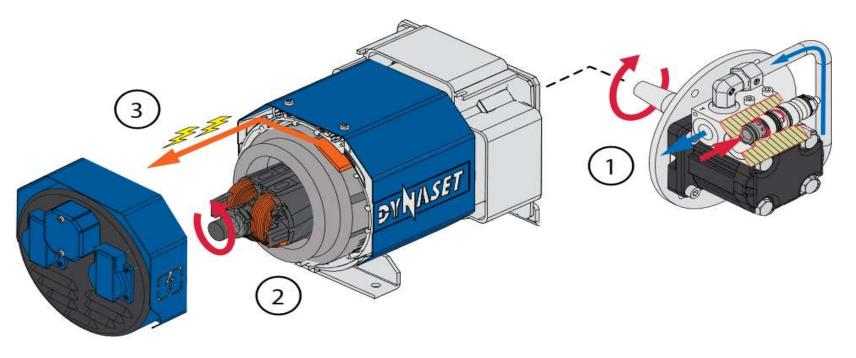
... from 3,5 to 80 KVA, 50 – 60 Hz, IP23 or IP54...

... make your pick!

TRANSPORTATION WITH DYNASET

RESCUE / HG electric current generator

Electricity available on board for any purpose you can think of





RESCUE / HG electric current generator

Power tools, floodlighting, <u>emergency power supply</u>... need electric power? You have it.







RESCUE / HK & HKR Air Compressors



Blue ... aulics



Screw, for longer use

RESCUE / HK & HKR Air Compressors

- 500 to 7500 I/min output (and even more)
- 10 to 12 bar Output pressure
- Perfect for Lifting cushions (rescue bags)
- Perfect for air tooling

Anywhere you need pneumatic power





SUMMARY

- All HP / LP / High Flow Water applications
- Specific Firefighting solutions
- Compressed Air applications
- High Flow Air Blowing applications
- Electricity generation
- Power boosting capacity
- Hydraulic Power generation
- Feel free to invent your rescue application!



DYNASETCAN PROVIDE!







FOR MORE INFO PLEASE CONTACT YOUR DYNASET EDICATED CONTACT, DEALER OR AREA SALES MANAGER



Zoom in...

THANKS FOR WATCHING!

DYNA

Due Pytraulics

6



14.10

Summerican com

78 %

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TWEETS

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DYNASET_Official @Dynaset_ofcl #SolarPanel washing in Turkey with #DYNASET KDF_MUSE

#DYNASET KPL. High pressure water and rotating brush does the trickt #SolarCell PressureWashing

Posted on Aug 25, 201

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