

NES COMBI 365

The all new NES COMBI unit must be the most versatile and technically advanced tank cleaning kit ever. It combines (that's the COMBI) three tank cleaning systems in one unit.

What can be done with the COMBI?

Tanks can be cleaned using the tried and tested MOVer sit and ride system.

Tanks that require Non Man Entry cleaning can be cleaned using the MOVerjet with it's powerful onboard pump, camera, lighting and Cannon all controlled by an operator in the comfort and safety of the control room.

Tanks that have heating coils can be cleaned using the NES Manway Cannon and lobe pump controlled by an operator in the comfort and safety of the control room.

What does the COMBI comprise of?

Main Combi Container

NES 402C Hydraulic Power Pack with electric generator in acoustic power house

NES 670 Rotary Lobe Pump

NES 502A Hydraulic Powered Centrifugal Pump

NES Combi Container with acoustic control room, Power House, Umbilical Room etc

NES Equipment Container for housing all the other items

NES 320 Mover sit and ride Tank Cleaning Dozer parts to convert from Moverjet

NES 360 Moverjet Robot with onboard NES640 Rotary Lobe Pump, Camera and Cannon

NES 402A Diesel Hydraulic Acoustic Power Pack

NES 720 Manway Cannon

NES 501 Hydraulic Powered Helical Screw Pump

NES 405A Double Umbilical Reels for NES 320 & NES670

Technical Specifications

NES COMBI TANK CLEANING Kit Moverjet vehicle

Track length :1420mm

Track width :230mm

Track height :330mm

Total width assembled :1105mm

Total length with blade :2420mm

Number of assemblies for passing manway :11

Total weight assembled :550kgs

Drive :2 hydraulic motors with integral gearboxes

Controls :Remote joystick in control room

Tracks :Continuous Nitrile rubber self tensioning

Suction: Bill type suction with hydraulic raise lower

Pump: On board NES670 rotary lobe pump controlled from console

Assembly fixings :Pins/slot-in/quick release couplings

Speed :Variable 0 to 40m/min

Moverjet and Manway Cannon

Cannon –Hydraulic powered cannon with camera + lighting and twin screen wash system Umbilical –80 meters fully sheathed umbilical all hydraulic and electrical services for Moverjet and cannon. Camera and light Specification.

General: Pan 340 degrees

Tilt 170 degrees

Hydraulic drive X 2
Fluid sealing to 1500 psi max
Camera: Low light (0.1 lux)
Auto Iris
Auto Focus
Zoom 12:1 + 4X Digital
Camera Housing: NEC Class1 Div1 Groups B,C&D
Light 110v HPS 100w 9600 bare lamp lumens
Class 1 Division 1 Groups C&D
Connections Class 1 Division 1 Group C&D plug and socket for umbilical connection
Nozzle specifications
Nozzle Naval brass with stream straighteners incorporated
Nozzle data in US Gal/min as follows:-

	5/8"		3/4"		7/8"		1"	
	FlowGPM(ft)	Jet Length	FlowGPM (ft)	Jet Length	FlowGPM (ft)	Jet Length	FlowGPM (ft)	Jet Length
120	129	72	162	84	226	90	290	95
150	149	81	184	100	248	100	319	105
175	158	84	193	110	257	105	334	110

7/8 and 3/4 nozzles are supplied with unit

Manway Cannon additional specifications

Adapter Adjustable for 24 , 30 and 36" manways

NESL 640-140 Lobe Pump

Max Flow-84m3/h Max Pressure 6.2 Bar
Suction inlet-4"/100mm Discharge-4"/100mm
Drive-Hydraulic Motor Max Speed 540RPM
Mounting-on board Moverjet
Control- remote
Dimensions-720 X 274 X 463 Weight 154Kgs
Number of Lobes-4 Materiel-Nitrile Rubber

NESL 670-270 Lobe Pump

Max Flow-162m3/h Max Pressure 6.3 Bar
Suction inlet-6"/150mm Discharge-6"/150mm
Drive-Hydraulic Motor Max Speed 540RPM
Mounting-4 wheeled trolley
Control- Hydraulic valve Forward/Reverse/Stop
Dimensions-873 X 274 X 463 Weight 194Kgs
Number of Lobes-8 Materiel-Nitrile Rubber

NES 501 Cavity Screw Pump

Mounting: steel frame
Pump:Helical screw cavity
Stator:Nitrile
Drive: Hydraulic

Inlet:6"
Outlet:6"

Pressure:10bar Flow:60m3/hour

NES502A Hydraulic driven centrifugal pump

Mounting:steel frame
Pump: two stage centrifugal
Drive: Volvo F12 hydraulic motor
Flow: 250 USG/Minute
Pressure:250 psi

Inlet: 3"
Outlet: 2"

Manway Cannon additional specifications

Adapter Adjustable for 24 , 30 and 36" manways

NESL 640-140 Lobe Pump

NESL 670-270 Lobe Pump

Max Flow-84m3/h Max Pressure 6.2 Bar
Max Flow-162m3/h Max Pressure 6.3 Bar
Suction inlet-4"/100mm Discharge-4"/100mm
Suction inlet-6"/150mm Discharge-6"/150mm
Drive-Hydraulic Motor Max Speed 540RPM
Drive-Hydraulic Motor Max Speed 540RPM

Mounting-on board Moverjet
Mounting-4 wheeled trolley
Control- remote
Control- Hydraulic valve Forward/Reverse/Stop
Dimensions-720 X 274 X 463 Weight 154Kgs
Dimensions-873 X 274 X 463 Weight 194Kgs
Number of Lobes-4 Materiel-Nitrile Rubber
Number of Lobes-8 Materiel-Nitrile Rubber
NES 501 Cavity Screw Pump
Mounting: steel frame
Pump:Helical screw cavity
Stator:Nitrile
Drive: Hydraulic
Inlet:6"
Outlet:6"

Pressure:10bar Flow:60m3/hour
NES502A Hydraulic driven centrifugal pump
Mounting:steel frame
Pump: two stage centrifugal
Drive: Volvo F12 hydraulic motor
Flow: 250 USG/Minute
Pressure:250 psi
Inlet: 3"
Outlet: 2"

NESL 402A Hydraulic Power Pack
Engine- Iveco 804I 4 cyl diesel water cooled
Power(intermittent)-56KW@2500rpm
Power(continuous) -50.5KW@2500rpm
Displacement 3.9 l - 12v electrics
Pump- 134 l/m @ 250 Bar
Mounting Protection Frame with lifting point
Fuel and Hydraulic Tanks- incorporated
Full instrumentation and controls fitted
Safety- Spark Arrestor/Chalwyn inlet valve/Engine protection
Use- NES502A / NES501

NESL 402C Triple Hydraulic Power Pack
NESL 405A Mobile Hose Reel
Engine- Iveco 8065Si 6 cyl turbo diesel water cooled
Number of reels 2 (1-supply to Mover (in sit and ride mode) 2- supply to Lobe pump)
Power(intermittent)-119.5KW@2500rpm
All steel construction frame with lifting point
Power(continuous) - 104KW@2500rpm .max125KW
Length of Umbilicals 300 feet fully sheathed with QR couplings including air line for Mover operator
Generator:belt driven from engine 12.5kva 400/230v
Displacement 5.9 l - 12v electrics
Extension hoses to Power pack 2 X 50 feet with QR couplings
Pump- 223 l/m @ 250 Bar Variable displacement on demand pressure compensated
Mounting:inside acoustic power house
Fuel and Hydraulic Tanks- in central container room
Full instrumentation and controls fitted in control room
Safety- Spark Arrestor/Chalwyn inlet valve/Engine protection
Use-NES Moverjet/NES640/NES Manway Cannon

