

# NANO-OLEO & NEO-OLEO

control units for single  
phase and three phase  
hydraulic power packs





... evolution of the famous “NEO-WiFi” and “NANO” drives, **NANO-OLEO** and **NEO-OLEO** control the oil pressure and the flow rate of single phase and three-phase hydraulic power packs up to 22kW, thus automatically adjusting the motor speed and the consumed power, according to the work load in each moment

Motive lists 5 main reasons  
to use **NANO-OLEO** :  
or **NEO-OLEO**

Know NEO/NANO-OLEO on  
<https://youtu.be/-m7uT6MnDq4>



## 1. Energy saving

With traditional systems, the motor keeps on running and consuming at 100% of its rated speed, no matter if the requested flow rate is less. **NANO-OLEO** and **NEO-OLEO**, instead, let you save energy up to 80% by setting the pressure and the flow rate of the hydraulic power pack according to the work real needs

## 2. Soft start

**NANO-OLEO** and **NEO-OLEO** have a soft start, and cancel overcurrent start peaks

## 3. More silent, up to -20 dB.

**NANO-OLEO** and **NEO-OLEO** make the motors run automatically only at the really needed speed

## 4. Automatic

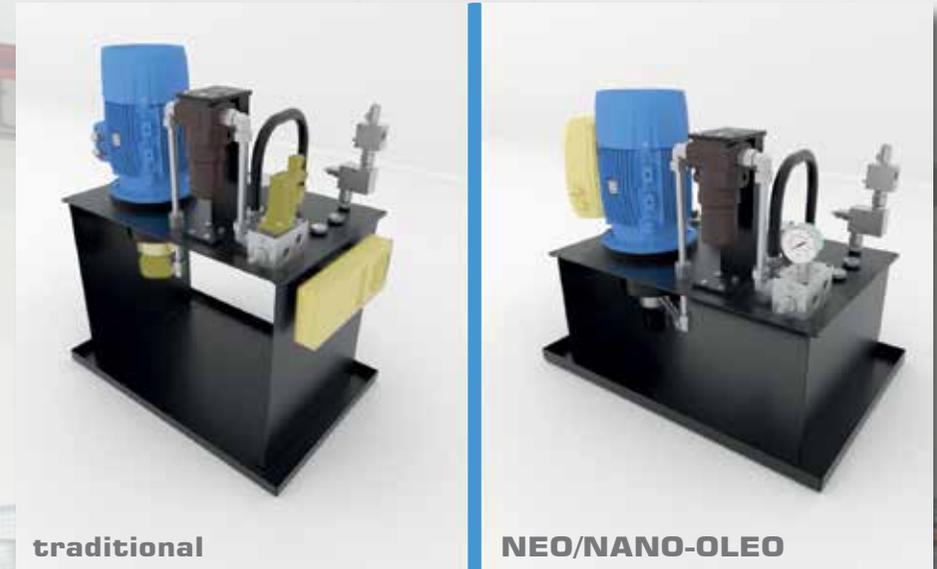
**NANO-OLEO** and **NEO-OLEO** adjust flow rate and pressure automatically without any need of EXTERNAL INTERVENTION



## Motive 5: lower material cost.

With **NANO-OLEO** or **NEO-OLEO** you don't need anymore many components of traditional hydraulic power packs

You can cancel cabinet, emergency button, switch, motor control relay, motor overload protection automatic switch;



the oil tank can become 80% smaller and the oil decreases consequently

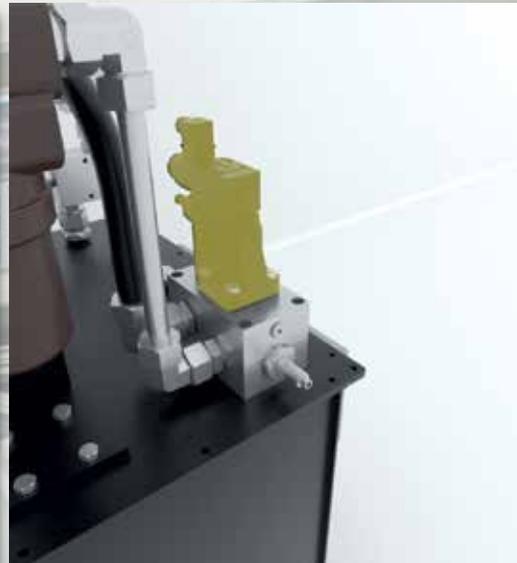


traditional



NEO/NANO-OLEO

no need of any proportional valve since flow rate is controlled by NANO-OLEO or NEO-OLEO



traditional



NEO/NANO-OLEO



traditional

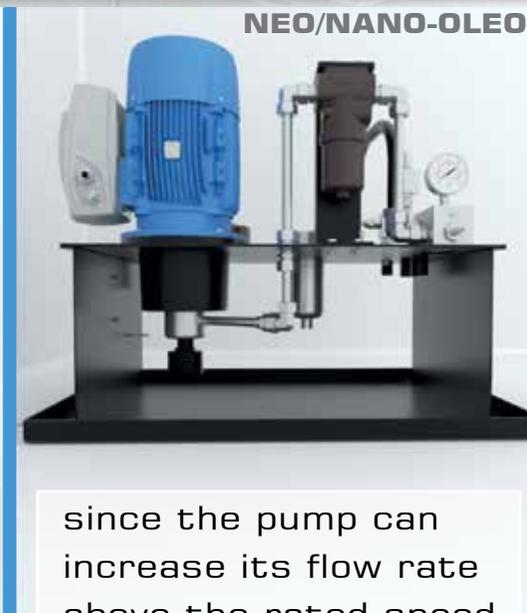


NEO/NANO-OLEO

no chokes and lower average speed = lower oil recirculation and motor power load = no heat exchanger need.



traditional



NEO/NANO-OLEO

since the pump can increase its flow rate above the rated speed, a smaller cc pump is enough

Value	Symbol	UOM	NEO-OLEO-3kW	NEO-OLEO-4kW	NEO-OLEO-5.5kW	NEO-OLEO-11kW	NEO-OLEO-22kW	NANO-0.75kW	NANO-2.2kW
NEO/NANO protection degree*			IP65					IP65	
NEO/NANO supply voltage	$V_{1n}$	V	3x 200-460					1x110(-10%)÷240(+10%)	
NEO/NANO supply frequency	$f_{1n}$	Hz	50-60					50-60	
NEO/NANO output frequency	$f_2$	Hz	200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]					200% $f_{1n}$ [ $f_2$ 0-100Hz if $f_{1n}$ 50Hz]	
Rated output current from the inverter (to the motor)	$I_{2n}$	A	7	10	14	22	45	4	9
Maximum Starting torque / Rated torque ratio	Cs/Cn	Nm	150%			200% (7,5kW) 160% (11kW)	150%	150%	
Maximum WiFi keypad-inverter communication distance out in the open		mt	20						

Further characteristics	NEO-OLEO-3kW	NEO-OLEO-4kW	NEO-OLEO-5.5kW	NEO-OLEO-11kW	NEO-OLEO-22kW	NANO-0.75kW	NANO-2.2kW
Bluetooth communication with mobile devices	YES (opt. with BLUE device)					YES (opt. with BLUE device)	
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2, para 5)	YES			YES Class A - Cat C2	YES Class A - Cat C2	YES Class B (with NANFILT)	
EMC for DOMESTIC, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES (since V2.01) Class A - Cat C1			optional	optional	YES (with NANPOT)	
Built in potentiometer with Knob and Unit Scale IP65	YES (with NANPOT)					YES (with NANPOT)	
3PH Power Switch	optional cod. INTEM3X32A				optional cod. INTEM3X63A	optional cod. INTEM1X12A	
Communication Protocol	MODBUS RS485					MODBUS RS485	



## CONFIGURATOR

**Configure what you need by this automatic consultant, and get CAD files and data sheets**

Motive configurator allows you to shape Motive products, combine them as you want, and finally to download 2D/3D CAD drawings, and a PDF datasheet.

### **Search by performance**

If you're not sure about the best products combination that you should select for your purpose, you can input your wishes, like final torque, final speed, use, etc, and the configurator will act like a consultant.

It will give you a list of applicable product configurations; you can then download a PDF data sheet featuring performance data and dimensional drawings for each configuration, as well as 2D and 3D drawings.

### **Search by product**

To be used if you already know the product configuration that you want, and you just want to get quicker a PDF data sheet featuring performance data and dimensional drawings for 2D and 3D drawings.



free access without login  
<http://www.motive.it/configuratore.php>





Download the technical manual from  
**NEO:** <https://www.motive.it/manuali/manuale-NEO-WiFi-eng.pdf>  
**NANO:** <https://www.motive.it/manuali/manuale-NANO-eng.pdf>



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