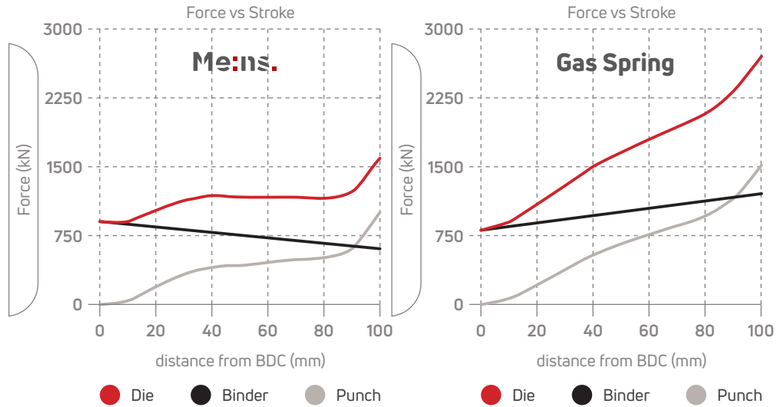
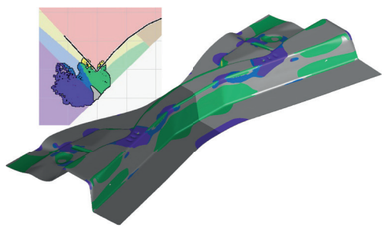
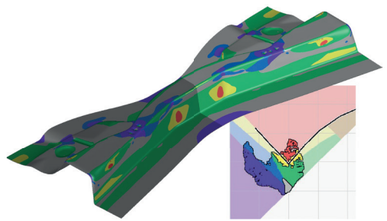
ADVANTAGES

- Improved drawing ratio and part complexity
- Reduced thinning
- Reduced wrinkles and anisotropy related defects
- Limited spring back
- Design robustness by reducing draw beds
- Reduced try out and set up down time
- Process robustness and capability
- Machine/plant productivity, energy efficiency and reliability

Me:ns. vs Gas Spring
Drawing Improvements: increasing vs decreasing Blank Holder Force



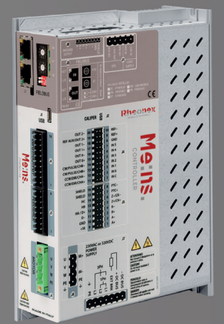




renovatiodesign.it

Me:ns.

FOR CLEVER STAMPING



Rheonex
MOBILIS IN MOBILI

Rheonex Srl
Vicolo D'Arcano, 8
33100 UDINE (UD) - Italia
P.IVA 03105310308
www.rheonex.com
© All Rights Reserved

PART OF THE GROUP
CAPPELLER FUTURA

Me:ns. patented by
Manufacturing Systems Development
a Spin-off of
1222-2022 800 ANNI
UNIVERSITÀ DEGLI STUDI DI PADOVA

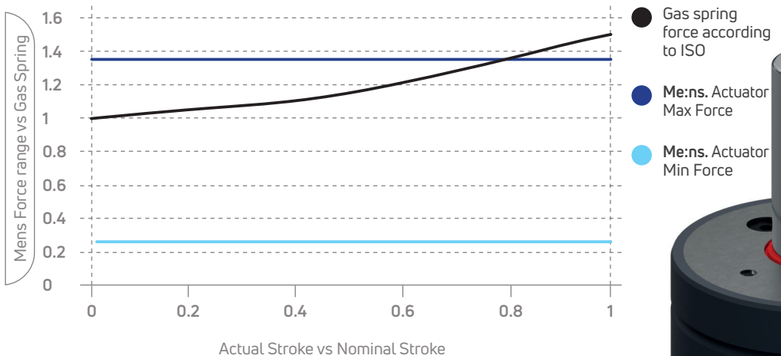
Rheonex
MOBILIS IN MOBILI

FROM **TOOLS** TO **4.0** CLEVER DEVICES

Me:ns. actuator is a completely new device based on smart fluids which is able to modulate blank holder force with high dynamic response using a closed loop control architecture.

Me:ns. actuator exhibits a wide resulting force range and a very fast response taking advantage of Magneto Rheologic technology.

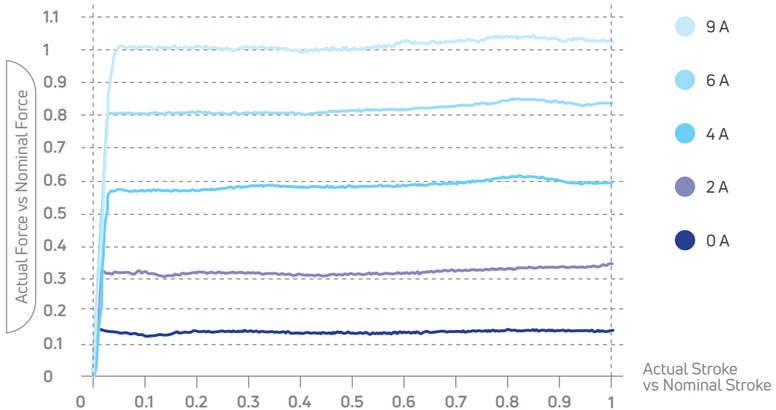
Force vs Stroke



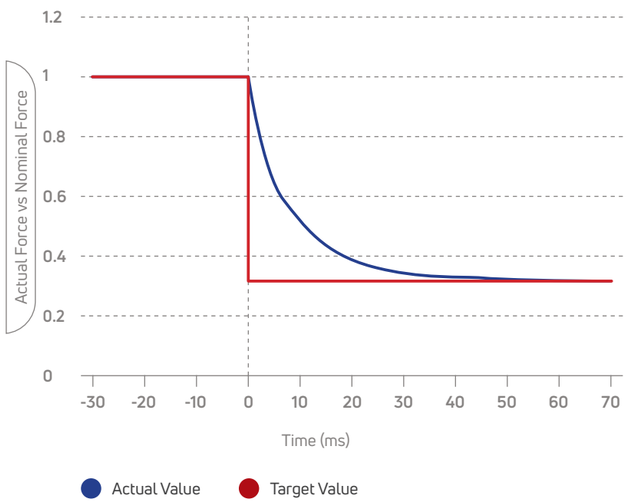
MAIN FEATURES

- Highly dynamic actuator
- Unlimited modulation of the reaction load
- Programmable speed/position in return stroke
- Low power consumption
- Close loop control available
- Installation dimensions according to ISO 11901

Force vs Stroke



Typical Response to step input



APPLICATIONS

- High dynamic blank holder
- Programmable ejector
- Eccentric force balancing
- Blank shock damper
- Programmable cams

	Cylinder Diameter mm	Rod Diameter mm	Min Force kN	Max Force kN	Max Stroke mm
Me:ns. 120	120	40	20	75	50-250
Me:ns. 150	150	50	35	125	50-250
Me:ns. 180	180	63	45	160	50-250
Me:ns. 195	195	75	50	220	50-250

Me:ns. is a fully programmable actuator with embedded or external volume compensator, thus pipes or external pressurized tank are reduced to minimum.

Me:ns. devices can be equipped with temperature, pressure and position transducer for force, position and speed closed-loop control.

Forces referred to 100mm stroke and 100mm/s working speed.

All data are subjected to slight modifications, to be confirmed at the order.