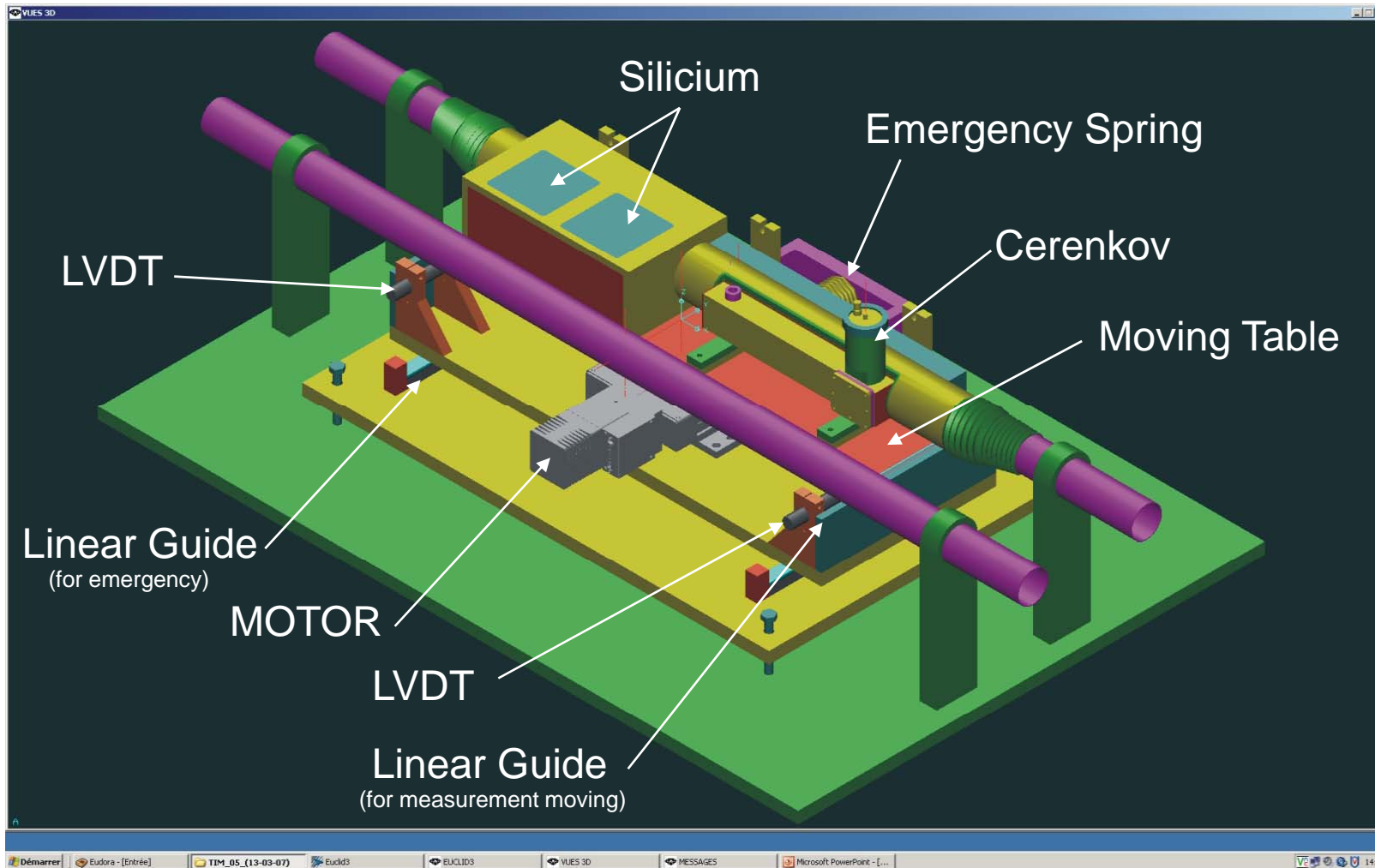


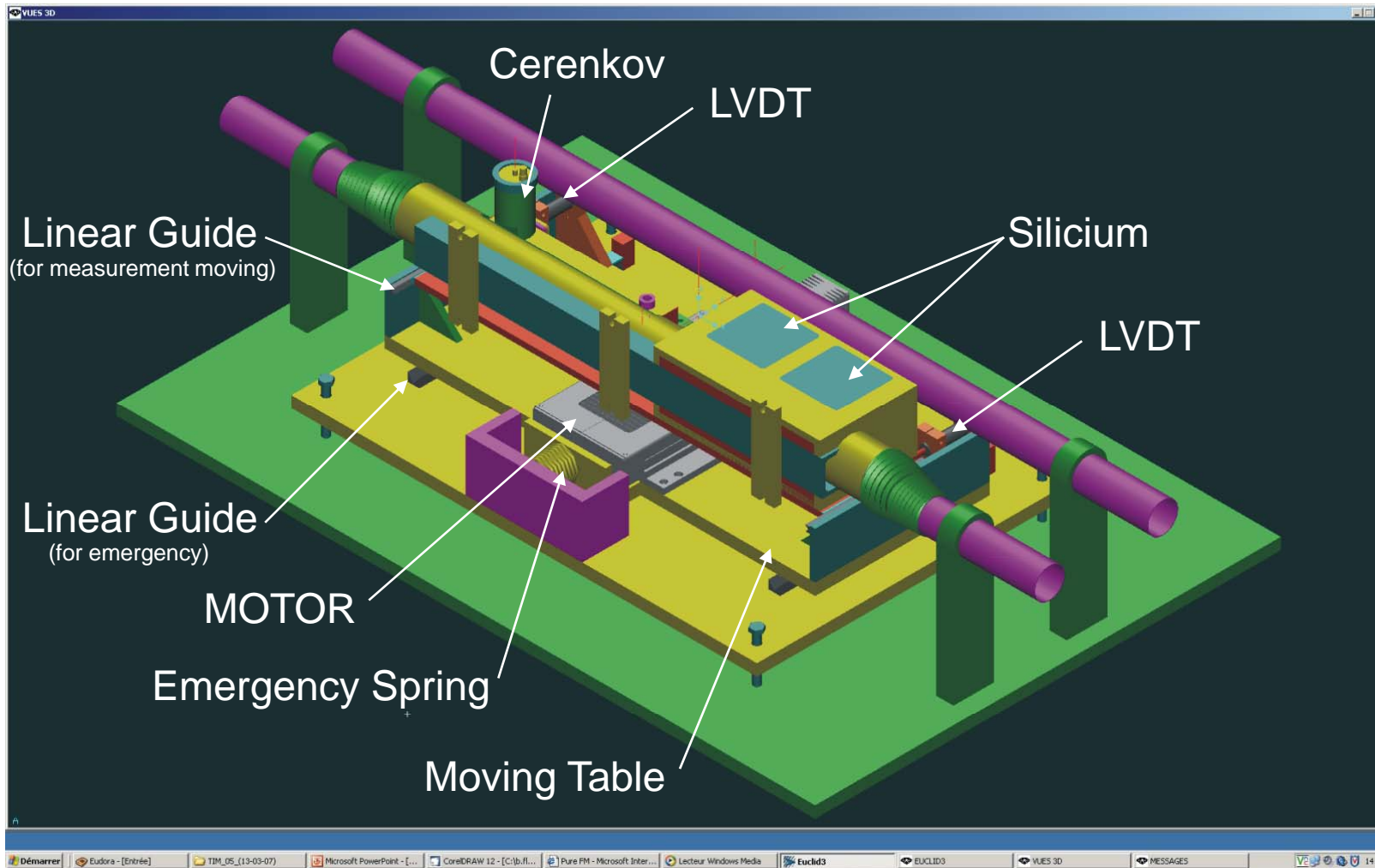
# Motorisation

- Face Side



# Motorisation

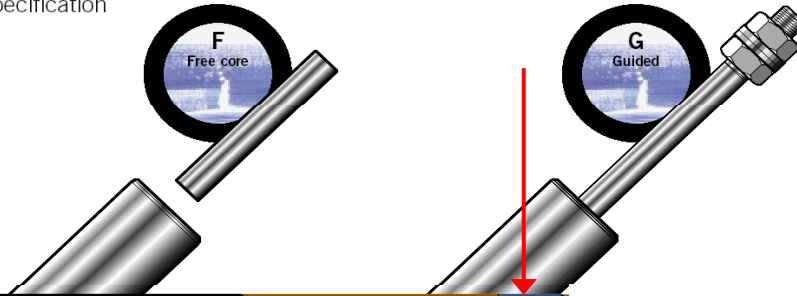
- Back Side



# Motorisation

## LVDT

52 Specification



Product type	Analogue				Digital
	LVDT	±5 V	0-10 V	4-20 mA	
Free Core (F)	AS/15/F	VS/15/FB	VS/30/FU	IS/30/F	-
Guided (G)	AS/15/G	VS/15/GB	VS/30/GU	IS/30/G	DS/30/G
Guided with Spring (S)	AS/15/S	VS/15/SB	VS/30/SU	IS/30/S	DS/30/S
Guided with Universal Joints (U)	AS/15/U	VS/15/UB	VS/30/UU	IS/30/U	DS/30/U
<b>Measurement</b>					
<b>Measurement Range (mm)</b>	±15		30		
Linearity <sup>1</sup> (%FRO)		±0.2			
Resolution (µm)		see note		<0.3	
Pre-travel <sup>2</sup> ±0.5 (mm)		5.95			
Post-travel <sup>2</sup> ±0.5 (mm)		6.30			
Tip Force ±20% (horiz. at mid position) (N)		1.25			
Spring Rate ±20% (N/mm)		0.035			
Temperature Coefficient (%FRO/°C)		<0.01			
<b>Mechanical</b>					
Body length ±0.5 (mm free core)	88.9		127.9		88.9
Body length ±0.5 (mm guided)	110.4		149.4		110.4
Body Diameter (mm)					19.00 (+)
Weight <sup>4</sup> ±5g (g)	92		106		
Core weight <sup>4</sup> ±1g (g)			6.4		
<b>Electrical Interface -LVDT</b>					
Sensitivity ±5% (mV/V/mm)	60	-	-	-	-
Energising current ±5% (mA/V)	1.5	-	-	-	-
Residual Voltage at Null Position (%FRO)	<0.5	-	-	-	-

Environmental	
Storage Temp: (°C)	LVDT: -40 to +120 DC, 4-20mA & Digital: -20 to +85
Operating Temp: (°C)	LVDT: -40 to +120 DC, 4-20mA; 0°C to 65°C Digital: -40 to +120 (transducer only)
IP Rating:	LVDT, DC, 4-20mA, Digital (transducer only): IP67
Vibration: Sinusoidal Amplitude	10 to 50 Hz: 50Hz to 1 kHz 1 to 10 g rms linear. 10 g rms
Shock:	Drop testing 1m onto a hard surface Topple testing 10 times from each end onto hard surface

Electrical Interface-DC & 4-20mA		Materials	
Input Voltage (VDC)	10 to 30	Case	300 series Stainless Steel
Output Ripple (%FRO)	0.02	Cable	FEP
Bandwidth	500Hz (-3 dB)	Core	Nickel/Iron

Digital Probe Interface Electronics (PIE)	
Reading Rate:	Up to 3906 readings/second
Bandwidth:	Up to 460Hz dependent on noise performance required
Output:	Serial communication-RS485 signal level (Solartron Orbit Protocol)
Storage Temp: (°C)	-20 to +85
Operating Temp: (°C)	0 to +60
IP Rating:	IP43

## S series

48 Displacement transducers



Ø19mm



# Motorisation

- Global View

