



TEST FACILITIES

FROM VIBRATIONS
TO IDENTIFICATION

Object : test facilities description



V2i - Test facilities

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Summary

A. Piezoelectric shaker: Wilcoxon Research	3
B. Hydraulic shaker: Team 80T/7.0-10.5	4
C. Ling 13kN	5
D. Ling A395	6
E. GW 26 kN	7
F. Ling 80 kN	8
G. Climatic chamber	9
H. Dong Ling 120 kN	10

Wilcoxon Research - D125L

Characteristics	Wilcoxon Research - D125L	
Freq. Range [kHz]	[2 20]	
Max peak force [kN]	83,0	
Max RMS force [kN]	12,0	
Max shock force [kN]	/	
Max acc. [g rms]	shaker	1800,0
	shaker + 1 kg	1200
	shaker + 10 kg	270
Max velocity [m/s]	/	
Max displacement [mm] (0 - peak)	/	
Moving mass [kg]	/	
Driver bar [kg]	/	
Slip table [kg]	/	
Head expander [kg]	/	
Admissible mass [kg]	> 10 kg	



Figure 1: Piezoelectric shaker
Wilcoxon research.

Team 80T/7.0-10.5)

Characteristics	Team 80T/7.0-10.5
Freq. Range [Hz]	[0,1, 200]
Max peak force [kN]	83,0
Max RMS force [kN]	12,0
Max shock force [kN]	/
Max acc. [g]	shaker 120,0
	shaker + head expander /
	shaker + driver bar + slip table /
Max velocity [m/s]	0,9
Max displacement [mm] (0 - peak)	125
Moving mass [kg]	10,9
Driver bar [kg]	/
Slip table [kg]	/
Head expander [kg]	/
Admissible mass [kg]	2000



Figure 2: M&S - Team 810/7.

LE D390 (13 kN)

Characteristics	LE D390 (13 kN)
Freq. Range [Hz]	[5, 3000]
Max peak force [kN]	13,3
Max RMS force [kN]	12,0
Max shock force [kN]	/
Max acc. [g]	shaker 120,0
	shaker + head expander /
	shaker + driver bar + slip table /
Max velocity [m/s]	1,78
Max displacement [mm] (0 - peak)	12,7
Moving mass [kg]	10,9
Driver bar [kg]	/
Slip table [kg]	/
Head expander [kg]	/
Admissible mass [kg]	100



Figure 3: LE D390 (13 kN).

Ling A395 (26 kN - vertical only)

Characteristics	Ling A395 (26 kN - vertical only)	
Freq. Range [Hz]	[5, 3000]	
Max peak force [kN]	26,6	
Max RMS force [kN]	25,6	
Max shock force [kN]	/	
Max acc. [g]	shaker	120,0
	shaker + head expander	/
	shaker + driver bar + slip table	/
Max velocity [m/s]	1,8	
Max displacement [mm] (0 - peak)	12,7	
Moving mass [kg]	19,5	
Driver bar [kg]	/	
Slip table [kg]	/	
Head expander [kg]	/	
Admissible mass [kg]	200	



Figure 4: LE A395 (26 kN)
(here coupled with climatic chamber).

G&W V2664 (26 kN)

Characteristics	G&W V2664 (26 kN)
Freq. Range [Hz]	[5, 2000]
Max peak force [kN]	26,6
Max RMS force [kN]	26,6
Max shock force [kN]	53,4 (6 ms) - 42,4 (11 ms)
Max acc. [g]	shaker 40,0
	shaker + head expander /
	shaker + driver bar + slip table 23,3
Max velocity [m/s]	1,52
Max displacement [mm] (0 - peak)	25,4
Moving mass [kg]	68,1
Driver bar [kg]	48,2
Slip table [kg]	
Head expander [kg]	/
Admissible mass [kg]	500



Figure 5: G&W V2664(26 kN).

LE B335 (80 kN)

Characteristics		LE B335 (80 kN)
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Freq. Range [Hz]		[5, 3000]
Max peak force [kN]		80,0
Max RMS force [kN]		80,0
Max shock force [kN]		/
Max acc. [g]	shaker	144,0
	shaker + head expander	42,0
	shaker + driver bar + slip table	50,0
Max velocity [m/s]		1,78
Max displacement [mm] (0 - peak)		25,4
Moving mass [kg]		56,6
Driver bar [kg]		20,4
Slip table [kg]		86,0
Head expander [kg]		126,0
Admissible mass [kg]		906,0



Figure 6: LE B335 (80 kN).

VCV3 - 7060 - 5

Thermic tests characteristics	VCV3 - 7060 - 5
Chamber volume (L)	600,0
Admissible mass [kg]	60,0
T° range (°C)	[-70 ; +180]
Heating (K/min)	5,0
Cooling (K/min)	5,0

Climatic tests characteristics	VCV3 - 7060 - 5
T° range (°C)	[+4 ; +94]
Humidity range (h.r.)	[10% ; 95%]



**Figure 7: Climatic chamber
(here, coupled with shaker 26 kN Ling A395)**

Dong Ling 120 kN

Characteristics	Dong Ling 120 kN
Table size (mm x mm)	Config 1 : 1200 x 1200 Config 2 : 600 x 600
Freq. Range [Hz]	[5 ;2250]
Max force (sine, random) [kN]	120
Max shock force [kN]	240
Max acc. [g]	100
Max velocity [m/s]	2
Max displacement [mm] (0 - peak)	76
Moving mass [kg]	72
Slip table [kg]	199 or 72 kg
Admissible mass [kg]	1000



Figure 8: Dong Ling 120 kN.