Title: Sistema Robotizado para diagnóstico de TMR por US

Author: Grupo D

Date: 27/4/2025

Notes:

Column #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Direction of Improvement: Minimize (▼), Maximize (▲), or Target (x)	▼	X	X	X	▼	▲	▼	X	▲						

Quality Characteristics (a.k.a. "Functional Requirements" or "Hows")

Column headers:
1. Tiempo de diagnóstico
2. Uso intuitivo de herramienta
3. Ángulo de ataque transductor
4. Presión de contacto
5. Peso del Robot
6. Estética agradable
7. Ruido del mecanismo
8. Grado de autonomía ISO 8373
9. Repetibilidad

Row #	Max Relationship Value in Row	Relative Weight	Weight / Importance	Demanded Quality (a.k.a. "Customer Requirements" or "Whats")	1	2	3	4	5	6	7	8	9
1	9	26,3	10,0	Rapidez en diagnóstico	Θ	▲	O	▲	▲			O	▲
2	9	23,7	9,0	Confiable	Θ	O	Θ	Θ				Θ	Θ
3	9	15,8	6,0	Agradable de usar	O	Θ	O	Θ	Θ	O	O	O	
4	9	21,1	8,0	Ligero para el paciente		O	Θ	▲	Θ				
5	3	13,2	5,0	Fácil transporte		▲			O				
6													
7													
8													
9													
10													

	1	2	3	4	5	6	7	8	9
Target or Limit Value	10 min	-	15 deg	1,5 - 2 kPa	50 N	-	30 dB	Nivel 3	SSIN - 0.8
Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)	8	4	9	9	7	4	5	8	10
Max Relationship Value in Column	9	9	9	9	9	3	3	9	9
Weight / Importance	497,4	315,8	528,9	402,6	397,4	47,4	47,4	339,5	239,5
Relative Weight	17,7	11,2	18,8	14,3	14,1	1,7	1,7	12,1	8,5

Powered by QFD Online (http://www.QFDOnline.com)

		Numeric Values for Relationship Matrix Calculations															
26,3			9	1	3	1	1	0	0	3	1	0	0	0	0	0	0
23,7			9	3	9	9	0	0	0	9	9	0	0	0	0	0	0
15,8			3	9	3	9	9	3	3	3	0	0	0	0	0	0	0
21,1			0	3	9	1	9	0	0	0	0	0	0	0	0	0	0
13,2			0	1	0	0	3	0	0	0	0	0	0	0	0	0	0
0,0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0,0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0,0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0,0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0,0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0