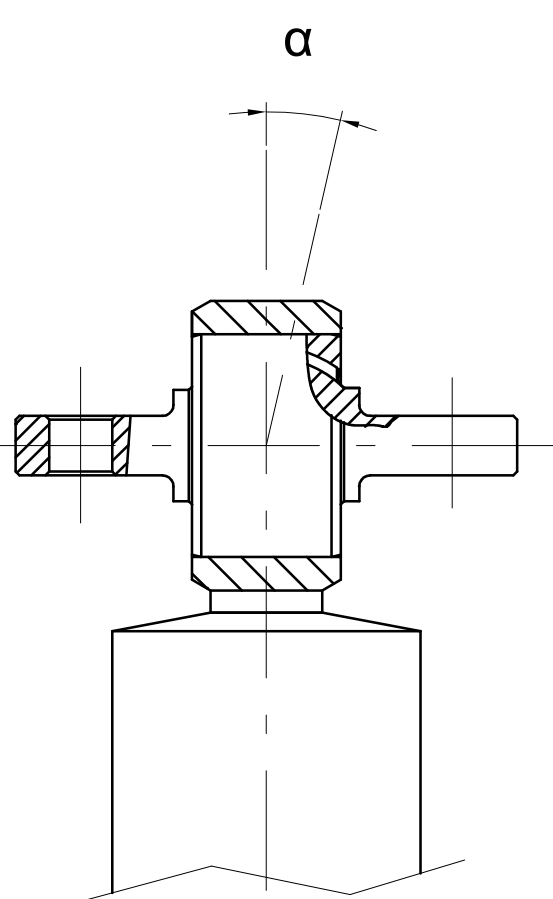
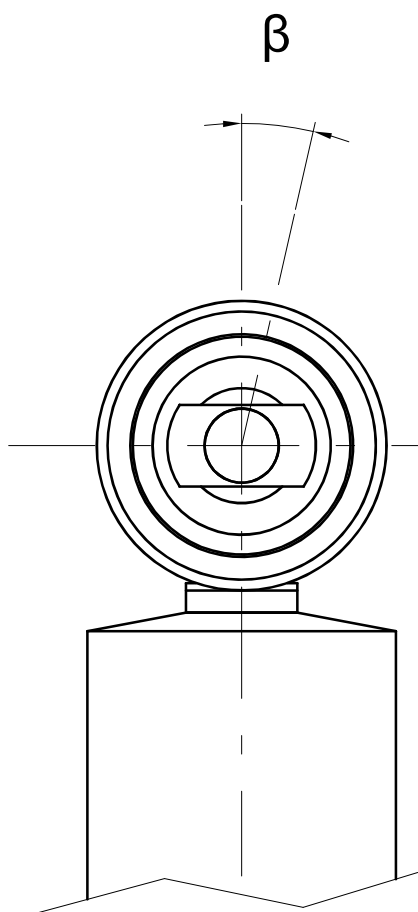
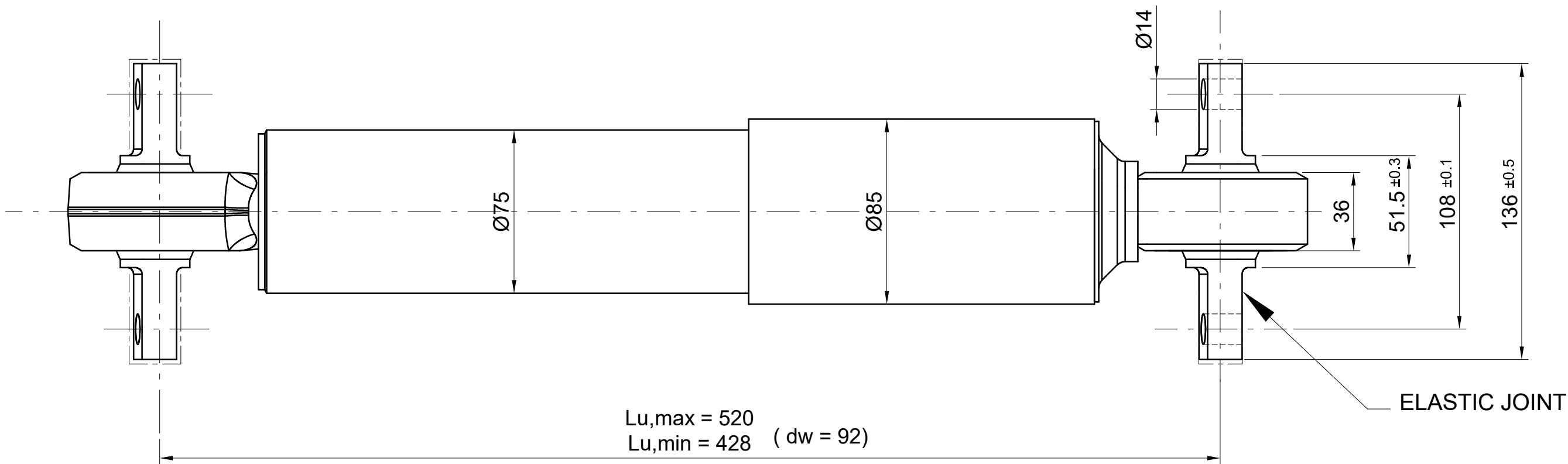
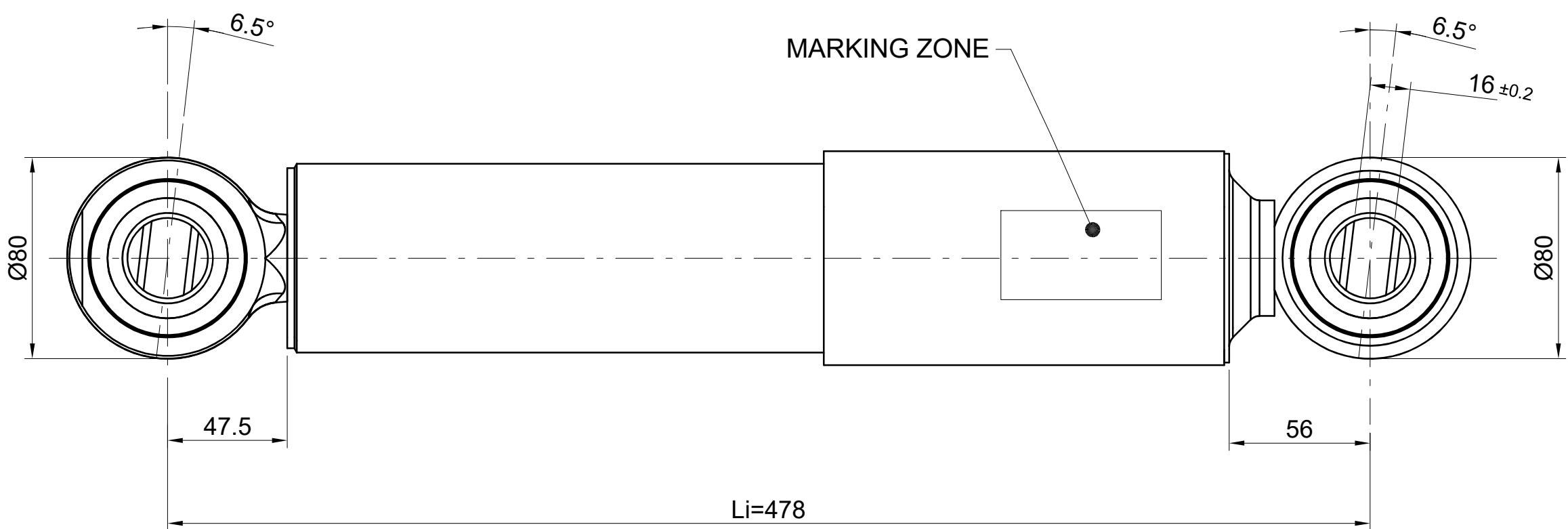


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ISO 2768 General Tolerances	S 12/08 Steel Casting		
	<1000	6,0	0,8
	<630	4,0	0,7
	<400	3,0	0,6
	<250	3,0	0,4
	100	2,0	0,3
	40	1,5	0,2
	L mm	Ham.	Isl.
	Nom. Size	Class	
	<4000	2,0	0,4
ISO 13920 Welded Construction	<20000	8,0	7,0
	<16000	7,0	6,0
	<12000	6,0	5,0
	<8000	5,0	4,0
	<4000	4,0	3,0
	<2000	3,0	2,0
	<1000	2,0	1,5
	<400	1,0	1,0
	30-120	1,0	0,5
	2-30	1,0	0,5
ISO 13920 Welded Construction	L mm	A ±	E ±
	Nom. Size	Class	
	>20000	9,0	8,0
	<20000	8,0	7,0



Angle	MAX.	Normal Service
α	15°	10°
β	6.5°	4°

Li	Length to mounting
Lu Max/Min	lengths in work
dw	Max stroke

Technical Specifications					
Technical Document	03	UPDATING NOMINAL LEGHT	17/02/2026	T.ŞABA	
Fixture/Mould Asset ID.	02	UPDATING GEOMETRY	29/11/2021	H. Belhaj	
Coating/Heat Tre./Roughness	01	UPDATING DRAWING	01/09/2021	S.Ponzo	
Paint/Color	Modf. No	Modification Description	Date		

All metal part identified shall be galvanized with treatment Fe / Zn 12c 2D according to EN ISO 2081:2009 or equivalent.

- Design occording to Technical Specification TS-04.081

R3	* = Test stroke		*		*			
	Stroke	mm		50		50		
	r.p.m.	min ⁻¹		38.2		114.6		
	Velocity	m/s		0.100		0.300		
	Rebound	N		2600 ±390		4200 ±630		
	Compression	N		2600 ±390		4200 ±630		
Damping forces test at : 20°±2°C								

R3	Radial stiffness	Upper fixation	Lower fixation
		20 kN/mm	20 kN/mm

Item No	Designation Name of Item	Qty.	Standard Code Identification No	Material	Dimension	Weight (Kg)
	ISO 1302	ISO 8015	ISO 2553	General Tol.	ISO 2768	f □ m □ H □ K □
	EN 15085-2 Certification Level		CL1 □ CL2 □ CL3 □ CL4 □	Weld Pro.	ISO 13920	A □ B □ E □ F □
	Approved	M. GORLANI		Scale	TURASAS Turkish Railway Vehicles Industry Inc.	
	Checked	M. BORLO		1:2		
	Prepared	H. BELHAJ				
	SEC.SUSP. VERT. DAMPER		GZ90.04.10.00012			
TYP	Date: 12/07/2021	Parts List No:	Sheet: 1/1		Size: A2	Rev: 03