

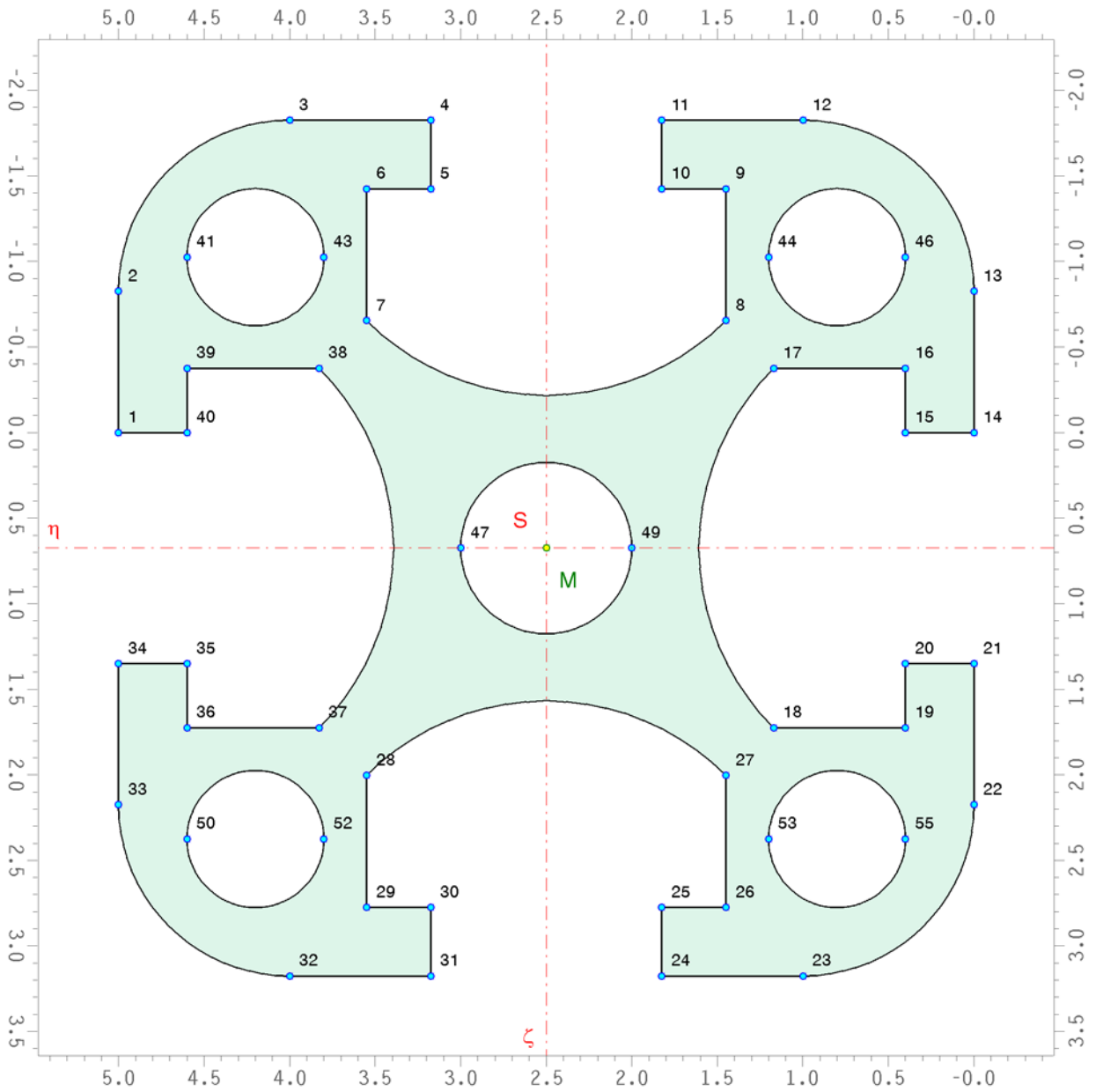
# QUERSCHNITT: ALU\_2

## Polgonzüge

[y,z]: Knotenkoordinaten [s]: Kreisbogenstich der Linie zum Nachfolgeknoten (nach links positiv)

Knoten	y	z	s	Knoten	y	z	s
-	mm	mm	mm	-	mm	mm	mm
<b>1. manuell erzeugt (+)</b>							
1	50.00	0.00	0.000	28	35.50	20.04	0.000
2	50.00	-8.25	2.929	29	35.50	27.75	0.000
3	40.00	-18.25	0.000	30	31.75	27.75	0.000
4	31.75	-18.25	0.000	31	31.75	31.75	0.000
5	31.75	-14.25	0.000	32	40.00	31.75	2.929
6	35.50	-14.25	0.000	33	50.00	21.75	0.000
7	35.50	-6.54	-4.349	34	50.00	13.50	0.000
8	14.50	-6.54	0.000	35	46.00	13.50	0.000
9	14.50	-14.25	0.000	36	46.00	17.25	0.000
10	18.25	-14.25	0.000	37	38.29	17.25	-4.349
11	18.25	-18.25	0.000	38	38.29	-3.75	0.000
12	10.00	-18.25	2.929	39	46.00	-3.75	0.000
13	0.00	-8.25	0.000	40	46.00	0.00	0.000
14	0.00	0.00	0.000	<b>2. manuell erzeugt (-)</b>			
15	4.00	0.00	0.000	41	46.00	-10.25	4.000
16	4.00	-3.75	0.000	43	38.00	-10.25	4.000
17	11.71	-3.75	-4.349	<b>3. manuell erzeugt (-)</b>			
18	11.71	17.25	0.000	44	12.00	-10.25	3.999
19	4.00	17.25	0.000	46	4.00	-10.25	3.999
20	4.00	13.50	0.000	<b>4. manuell erzeugt (-)</b>			
21	0.00	13.50	0.000	47	30.00	6.75	5.000
22	0.00	21.75	2.929	49	20.00	6.75	5.000
23	10.00	31.75	0.000	<b>5. manuell erzeugt (-)</b>			
24	18.25	31.75	0.000	50	46.00	23.75	4.000
25	18.25	27.75	0.000	52	38.00	23.75	4.000
26	14.50	27.75	0.000	<b>6. manuell erzeugt (-)</b>			
27	14.50	20.04	-4.349	53	12.00	23.75	3.999
				55	4.00	23.75	3.999

grafische Darstellung



## Brutto-Kennwerte

Fläche, Schwerpunkt und Hauptachseneckwinkel

A =	10.19 cm <sup>2</sup>	e <sub>y</sub> =	2.50 cm	e <sub>z</sub> =	0.68 cm	α =	0.00 °
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Ausdehnung

y <sub>max</sub> =	5.00 cm	y <sub>min</sub> =	0.00 cm	b =	5.00 cm	U <sub>a</sub> =	34.59 cm
Z <sub>max</sub> =	3.18 cm	Z <sub>min</sub> =	-1.82 cm	h =	5.00 cm	U <sub>i</sub> =	13.20 cm
						U =	47.78 cm

Imn-System: Trägheits- und Widerstandsmomente, Randabstände und Trägheitsradien

(Imn = ξηζ)

I <sub>m</sub> =	22.92 cm <sup>4</sup>	W <sub>m+</sub> =	9.17 cm <sup>3</sup>	h <sub>m+</sub> =	2.50 cm	i <sub>m</sub> =	1.50 cm
I <sub>n</sub> =	22.92 cm <sup>4</sup>	W <sub>m-</sub> =	9.17 cm <sup>3</sup>	h <sub>m-</sub> =	-2.50 cm	i <sub>n</sub> =	1.50 cm
I <sub>p</sub> =	45.84 cm <sup>4</sup>	W <sub>n+</sub> =	9.17 cm <sup>3</sup>	h <sub>n+</sub> =	2.50 cm	i <sub>p</sub> =	2.12 cm
		W <sub>n-</sub> =	9.17 cm <sup>3</sup>	h <sub>n-</sub> =	-2.50 cm		

Schubmittelpunkt

y <sub>M</sub> =	2.50 cm	y <sub>SM</sub> =	0.00 cm	η <sub>M</sub> =	0.00 cm
Z <sub>M</sub> =	0.68 cm	Z <sub>SM</sub> =	0.00 cm	ζ <sub>M</sub> =	0.00 cm

Schubflächenbeiwerte

κ <sub>m</sub> =	2.95 -	A <sub>m</sub> =	3.46 cm <sup>2</sup>	κ <sub>η</sub> =	2.95 -	A <sub>η</sub> =	3.46 cm <sup>2</sup>
κ <sub>n</sub> =	2.95 -	A <sub>n</sub> =	3.46 cm <sup>2</sup>	κ <sub>ζ</sub> =	2.95 -	A <sub>ζ</sub> =	3.46 cm <sup>2</sup>

Torsion + Verwölbung

I <sub>T</sub> =	3.78 cm <sup>4</sup>	I <sub>W</sub> =	16.90 cm <sup>6</sup>	R <sub>Sy</sub> =	0.00 cm <sup>5</sup>	R <sub>Sz</sub> =	0.00 cm <sup>5</sup>
C <sub>s</sub> =	16.90 cm <sup>6</sup>	I <sub>pM</sub> =	45.84 cm <sup>4</sup>	i <sub>ωM</sub> =	0.61 cm		
ω <sub>M+</sub> =	3.29 cm <sup>2</sup>	ω <sub>M-</sub> =	-3.29 cm <sup>2</sup>	W <sub>ω+</sub> =	5.14 cm <sup>4</sup>	W <sub>ω-</sub> =	5.14 cm <sup>4</sup>

Querschnittsstrecken

i <sub>M</sub> =	2.12 cm	r <sub>η</sub> =	0.00 cm	r <sub>ζ</sub> =	0.00 cm	r <sub>ω</sub> =	0.00 cm
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