

CarParts EU - Analysis

Project Info

Data source:

Simulated dataset for the company CarParts EU.

Period: 2022-2025

The data set contains: (i) the basic information on CarParts EU exports from different EU countries to Great Britain, (ii) the offer/costs of two different brokers, (iii) demurrage costs, (iv) info on trailers affected by customs inspections.

Project Goal:

- ◆ To create the section (tab) for **Higher Management** that allows to compare 2 Spanish brokers.

Goal: Possibility to decide if the "small" broker from Barcelona can take over the services in Madrid, or Madrid services should stay with big, european broker.

- ◆ To create the section (tab) for **Lower-level Management** for standard metrics (WBR, MBR) purposes - all export countries included.

Dashboard Structure:

- (i) Info - Data source and project goal
- (ii) Madryt vs Barcelona - main tab for Higher Management
- (iii) Madryt vs Barcelona (Potential Profit) - additional tab for Higher Management
- (iv) METRICS - the main tab for Low-level Management
- (v) Max SLA 24h (Details) - tab connected with METRICS (Drillthrough)

CarParts EU - Madryt vs Barcelona Analysis - MAIN

Madryt vs Barcelona -
MAIN

Madryt vs Barcelona -
Potential PROFIT



Broker

Avg Broker Price (Cost) per Trailer

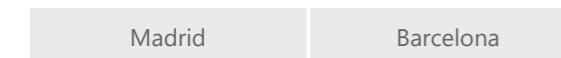
BigBroker	Broker_BC
208	182

Broker

Number of Exports (Trailers)



Export from Spain



Year



1 719

No of Exports



2 080

No of SADs

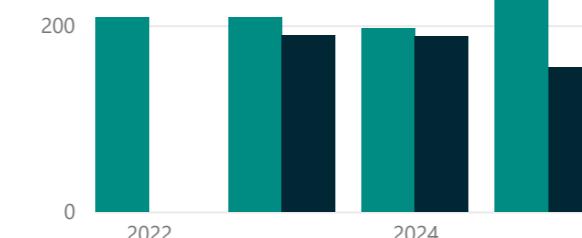


Avg Price (Costs) Per Trailer

Broker	EX City	# Trailer	# SADS	SAD PRICE	TTL SAD COSTS	TTL OTHER COSTS	TTL BR COST	AVG BR COST per TRAILER	TTL DD COST	AVG DD COST per TRAILER	TTL COST
BigBroker											
2022	Madrid	508	607	150	91 050	15 240	106 290	209,23	€ 43 000	€ 84,65	149 290
2023	Madrid	248	295	150	44 250	7 440	51 690	208,43	€ 22 600	€ 91,13	74 290
2024	Madrid	151	158	160	25 280	4 530	29 810	197,42	€ 16 000	€ 105,96	45 810
2025	Madrid	38	45	170	7 650	1 406	9 056	238,32	€ 400	€ 10,53	9 456
Broker_BC											
2023	Barcelona	118	169	120	20 280	2 124	22 404	189,86	€ 5 700	€ 48,31	28 104
2024	Barcelona	509	659	130	85 670	10 180	95 850	188,31	€ 12 050	€ 23,67	107 900
2025	Barcelona	147	147	130	19 110	3 675	22 785	155,00	€ 5 550	€ 37,76	28 335

Avg Price (Costs) Per Trailer

Broker ● BigBroker ● Broker_BC



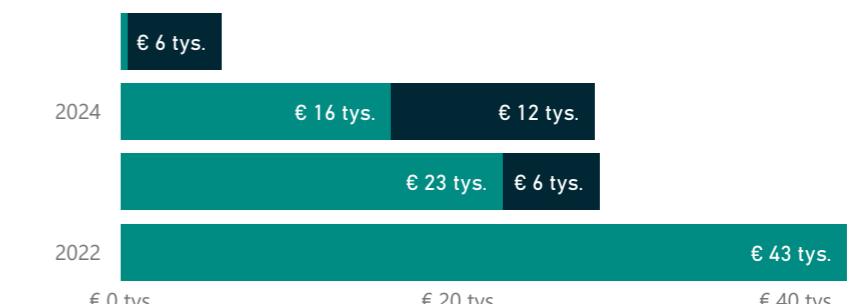
Avg Demurrage Cost Per Trailer

Broker ● BigBroker ● Broker_BC



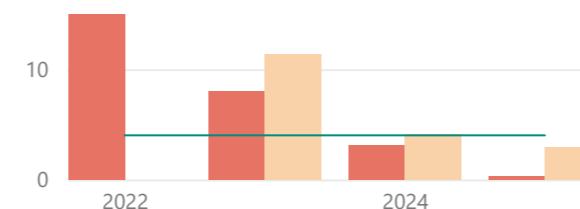
Total Demurrage Costs

Broker ● BigBroker ● Broker_BC



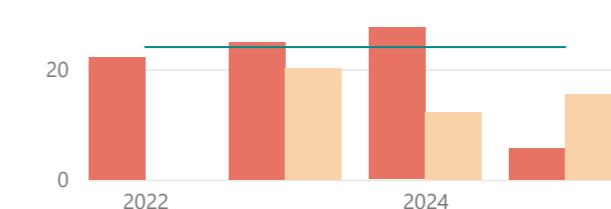
Avg 4h SLA

Broker ● BigBroker ● Broker_BC ● Submission SLA 4h



Avg 24h SLA

Broker ● BigBroker ● Broker_BC ● Clearance SLA 24h



CarParts EU - Madryt vs Barcelona Analysis - Potential PROFIT

Madryt vs Barcelona -
MAIN

Madryt vs Barcelona -
Potential PROFIT



Broker

Avg Broker Price (Cost) per Trailer

BigBroker	Broker_BC
207	182

Broker

Number of Exports (Trailers)



Year

2023	2024	2025
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Potential PROFIT on Broker Costs (Price of SAD, Inspection and Rejects) if Broker_BC from Barcelona takes over services in Madrid (conducted by BigBroker)

Avg Price (Costs) Per Trailer

Broker	EX City	# Trailer	AVG BR COST	TTL BR COST	AVG BR COST - Broker_BC	Potential TTL COST with BROKER_BC	Potential PROFIT
BigBroker	Madrid	437	207	90 556	182	79 630,55	10 925,45
2023	Madrid	248	208	51 690	190	47 086,37	4 603,63 ▲
2024	Madrid	151	197	29 810	188	28 434,87	1 375,13 ▲
2025	Madrid	38	238	9 056	155	5 890,00	3 166,00 ▲
Suma	Madrid	437	207	90 556	182	79 630,55	10 925,45

CarParts EU - METRICS (SLA, Export No, Inspections)

Broker	Export Country	Export City	Year, Quarter, Month Name	Week Number	Problem	Inspection				
Wszystkie	Wszystkie	Wszystkie	2025	Wszystkie	Wszystkie	Wszystkie				

2,13

AVG SLA (4h)

4,93

AVG SLA (24h)

64,70

Max SLA (4h)

245,97

Max SLA (24h) >

1163

No of Exports

1 170

No of SADS

144

No of Inspections

4h SLA - Average submission Time (hours)

Export Country	1	2	3	4	5	6	7	8	9	10	11	12	13
ES	0,58	5,30	2,27	2,43	3,61	0,59	0,81	5,78	0,39	7,29	3,22	0,29	0,
Barcelona	0,58	5,30	2,27	2,43	3,61	0,59	0,81	6,74	0,32	10,76	4,01	0,37	0,
Madrid								0,02	0,53	0,35	0,08	0,24	0,
FR	2,11	3,39	5,10	2,31	2,26	2,37	0,95	2,26	2,07	2,14	0,76	1,30	1,
Calais	2,11	3,39	5,10	2,31	2,26	2,37	0,95	2,26	2,07	2,14	0,76	1,30	1,
PT	0,22	0,18	0,21	1,16	0,15	2,53	0,24	1,65	0,77	2,30	1,71	3,94	0,
Suma	1,56	3,53	4,25	2,18	2,16	2,05	0,90	2,76	1,56	3,01	1,40	1,65	0,

24 h SLA - Average Clearance Time (hours)

Export Country	1	2	3	4	5	6	7	8	9	10	11	12
ES	1,64	10,65	5,72	22,34	6,91	14,26	6,15	45,54	7,04	15,08	15,24	5,0
Barcelona	1,64	10,65	5,72	22,34	6,91	14,26	6,15	53,11	6,65	20,58	15,93	5,8
Madrid								0,12	7,83	4,08	12,45	4,4
FR	8,30	4,27	5,10	2,32	2,27	3,55	3,04	2,27	3,17	2,15	4,83	4,8
Calais	8,30	4,27	5,10	2,32	2,27	3,55	3,04	2,27	3,17	2,15	4,83	4,8
PT	3,83	1,41	5,94	3,30	5,75	22,58	3,08	3,42	1,55	2,97	2,19	4,5
Suma	6,58	5,22	5,26	5,26	3,10	7,00	3,55	8,76	3,39	4,41	6,20	4,8

Number of Exports

Export Country	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ES	3	11	8	10	6	10	8	7	9	9	10	9	16	7	11	6	6	6
Barcelona	3	11	8	10	6	10	8	6	6	6	8	4	9	7	8	6	6	6
Madrid								1	3	3	2	5	7		3			
FR	15	47	62	52	50	39	39	38	41	36	34	38	28	32	30	32	31	2
Calais	15	47	62	52	50	39	39	38	41	36	34	38	28	32	30	32	31	2
PT	4	4	9	9	7	4	2	2	13	10	11	11	12	14	13	11	12	9
Suma	22	62	79	71	63	53	49	47	63	55	55	58	56	53	54	49	49	3

Number of SADS

Export Country	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ES	3	11	8	10	6	10	8	7	9	9	15	9	16	7	13	6	6	3
Barcelona	3	11	8	10	6	10	8	6	6	6	8	4	9	7	8	6	6	2
Madrid								1	3	3	2	5	7	5	7	5	1	1
FR	15	47	62	52	50	39	39	38	41	36	34	38	28	32	30	32	31	22
Calais	15	47	62	52	50	39	39	38	41	36	34	38	28	32	30	32	31	22
PT	4	4	9	9	7	4	2	2	13	10	11	11	12	14	13	11	12	9
Suma	22	62	79	71	63	53	49	47	63	55	56	58	56	53	56	49	49	34

Number of Inspections

Export Country	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ES	3	11	7	9	1	8	8	6	7	8	10	4	8	7	9	5	6	7
Barcelona	3	11	7	9	1	8	8	6	5	6	8	3	7	7	8	5	6	6
Madrid								2	2	2	1	1		1		1	1	
Suma	3	11	7	9	1	8	8	6	7	8	10	4	8	7	9	5	6	7

Number & Type of Problems

Problem	Accepted	Rejected	Suma
Inspection			144
Document Inspection			144
No problem	820		820
	820		820
Other problem			199
			199
Suma	820	343	1163



CarParts EU - MAX SLA 24 Details

24h Clearance SLA: Difference between Docs Reception and Customs Clearance



MAX - SLA 24 h - All Trailers per filter in METRIC where Clearance SLA > 24h

Broker	Export Country	Export City	Trailer	Max SLA (24h)	Max SLA (4h)	Problem	Inspection Flag	Inspection	Docs Reception	SAD Submission	Customs Clearance	Demurrage Days	Demurrage Costs
BigBroker	ES	Madrid	Trailer_100	35,78	33,95	Other problem	NO		2022-01-26 23:20:00	2022-01-28 09:17:00	2022-01-28 11:07:00	1	€ 100
BigBroker	FR	Calais	Trailer_10006	39,57	21,42	Other problem	NO		2024-02-24 16:39:00	2024-02-25 14:04:00	2024-02-26 08:13:00	1	€ 100
BigBroker	FR	Calais	Trailer_10008	42,33	42,33	Other problem	NO		2024-02-27 21:45:00	2024-02-29 16:05:00	2024-02-29 16:05:00	1	€ 100
BigBroker	PT	Lisbon	Trailer_10009	59,22	58,80	Other problem	NO		2024-02-29 09:32:00	2024-03-02 20:20:00	2024-03-02 20:45:00	2	€ 200
BigBroker	FR	Calais	Trailer_10069	44,40	1,17	No problem	NO		2024-03-02 12:20:00	2024-03-02 13:30:00	2024-03-04 08:44:00	1	€ 100
BigBroker	ES	Madrid	Trailer_10073	88,18	1,90	Inspection	YES	Document Inspection	2024-03-01 21:11:00	2024-03-01 23:05:00	2024-03-05 13:22:00	3	€ 300
BigBroker	FR	Calais	Trailer_10108	37,72	25,05	Other problem	NO		2024-03-02 19:01:00	2024-03-03 20:04:00	2024-03-04 08:44:00	1	€ 100
BigBroker	FR	Calais	Trailer_10109	33,10	33,08	Other problem	NO		2024-03-03 00:17:00	2024-03-04 09:22:00	2024-03-04 09:23:00	1	€ 100
BigBroker	FR	Calais	Trailer_10110	36,22	36,08	Other problem	NO		2024-03-02 21:20:00	2024-03-04 09:25:00	2024-03-04 09:33:00	1	€ 100
BigBroker	FR	Calais	Trailer_10112	75,82	75,78	Other problem	NO		2024-03-02 06:22:00	2024-03-05 10:09:00	2024-03-05 10:11:00	3	€ 300
BigBroker	PT	Lisbon	Trailer_10114	36,62	36,50	Other problem	NO		2024-02-24 09:30:00	2024-02-25 22:00:00	2024-02-25 22:07:00	1	€ 100
BigBroker	ES	Madrid	Trailer_1013	44,33	18,25	Inspection	YES	Document Inspection	2022-05-25 16:20:00	2022-05-26 10:35:00	2022-05-27 12:40:00	1	€ 100
BigBroker	ES	Madrid	Trailer_10134	60,17	0,13	Inspection	YES	Document Inspection	2024-03-08 20:52:00	2024-03-08 21:00:00	2024-03-11 09:02:00	2	€ 200
BigBroker	ES	Madrid	Trailer_1015	25,38	23,25	Inspection	YES	Document Inspection	2022-05-25 14:15:00	2022-05-26 13:30:00	2022-05-26 15:38:00	1	€ 100
BigBroker	FR	Calais	Trailer_10187	53,12	6,50	Other problem	NO		2024-03-09 03:47:00	2024-03-09 10:17:00	2024-03-11 08:54:00	2	€ 200
BigBroker	FR	Calais	Trailer_10212	24,27	24,20	Other problem	NO		2024-03-10 11:34:00	2024-03-11 11:46:00	2024-03-11 11:50:00	1	€ 100
BigBroker	FR	Calais	Trailer_10213	10,57	10,55	Other problem	NO		2024-03-09 10:19:00	2024-03-11 11:21:00	2024-03-11 11:22:00	2	€ 200

MAX - SLA 24 h - All Trailers per filter in METRIC where Clearance SLA > 24h

