

中欧第四物流通道
The 4th Sino-Euro Way

空运的速度 卡车的价格
Speed of Air Rate of Truck



中欧卡车航班

Sino-Europe Trucking Service





Trucking Route



- Customs clearance can be done at origin city, gateway, or through integrated customs declaration .
- Total lead time from Shanghai to Poland or Germany station is 13 to 15 days.



Service Coverage in Asia



China:

Beijing
Shanghai
Shenzhen
Suzhou
Chengdu
Qingdao
Dalian
Xian
Pingxiang
Wuhan
Zhengzhou



Neighbouring countries:

Cambodia
Laos
Myanmar
Thailand
Vietnam
Japan
Korea



Hubs in Europe



- HUB1: Terespol, Poland
- HUB2: Lage, Germany
- HUB3: United Kingdom
- HUB4: France
- HUB5: Italy
- HUB6: Switzerland
- HUB7: Spain
- HUB8: Sweden
- Additional hubs are being set-up in 2019



Customized Crossboard Trucks

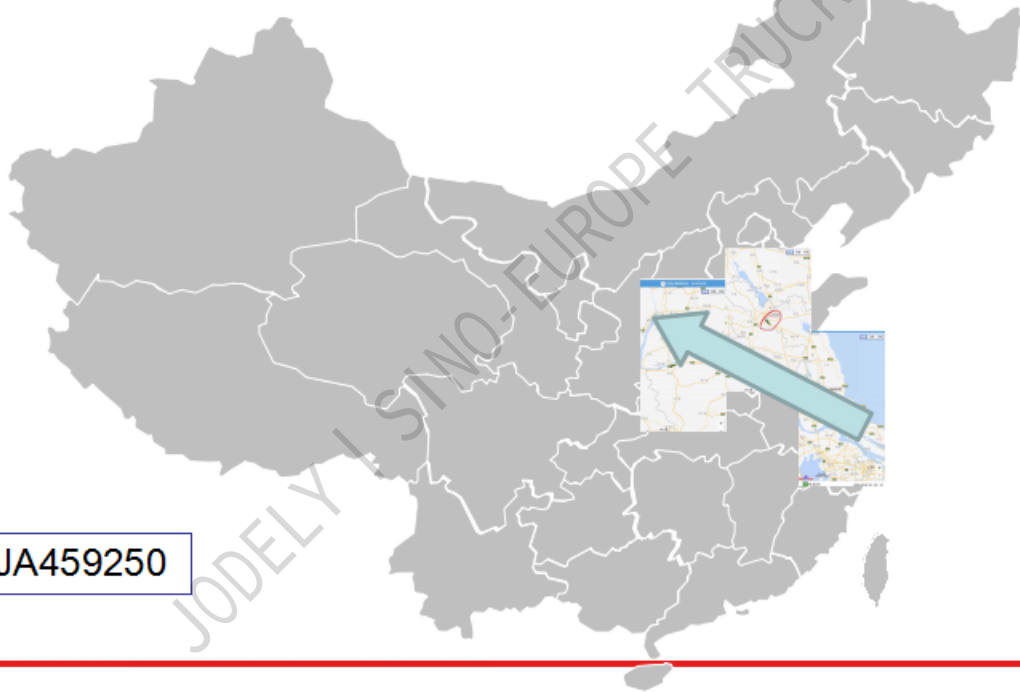


- Air-cushioned
- GPS monitored





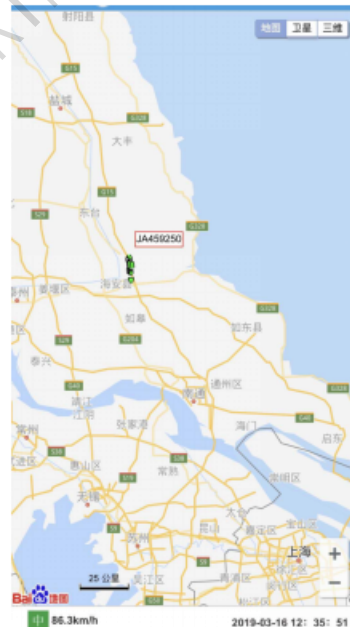
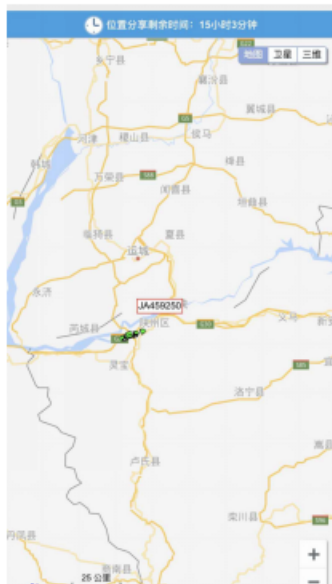
GPS on-line Trace & Tracking - 1



Truck No: JA459250



GPS on-line Trace & Tracking - 2



Truck No: JA459250



Vibration Detection - 2

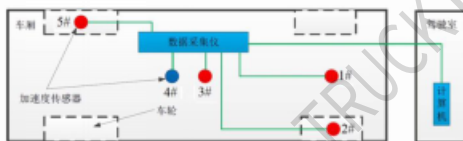
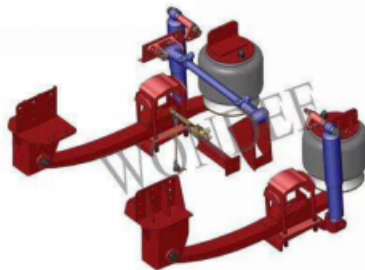


图3 加速度测点位置示意图 (1#, 2#, 3#, 5#在箱体底板, 4#在运输货物上)

表4 高速路段各通道测量结果

通道	最大值 (g)	最小值 (g)	平均值 (g)	均方根 (g)	通道	最大值 (g)	最小值 (g)	平均值 (g)	均方根 (g)
1-X	0.0083	-0.0118	-0.00001	0.00062	3-Z	0.1019	-0.0525	0.00006	0.00203
1-Y	0.0184	-0.0163	-0.00010	0.00055	4-X	0.0107	-0.0098	0.00019	0.00078
1-Z	0.0138	-0.0185	-0.00002	0.00084	4-Y	0.0597	-0.0431	-0.00003	0.00177
2-X	0.0090	-0.0084	-0.00010	0.00093	4-Z	0.0163	-0.0185	-0.00007	0.00075
2-Y	0.0135	-0.0230	-0.00008	0.00084	5-X	0.0290	-0.0381	-0.00006	0.00054
2-Z	0.0127	-0.0079	-0.00000	0.00064	5-Y	0.0217	-0.0357	0.00011	0.00061
3-X	0.0141	-0.0162	-0.00013	0.00092	5-Z	0.0280	-0.0379	0.00003	0.00061
3-Y	0.0091	-0.0096	0.00007	0.00131	/	/	/	/	/

试验结束后, 试验件外观目测无异常, 试验件的其它性能由委托方自行检测。

(以下无正文)

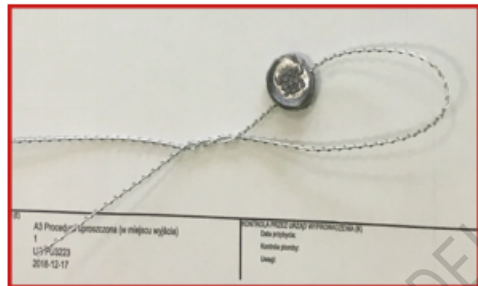
根据飞机在垂直方向承受的负荷变量划分:

根据飞机的负荷因素 (n) 与飞机升力 (Y) 和重力 (G) 的关系式 $n=Y/G$, 可得 $\Delta n=\Delta Y/G$, 式中 Δn 为负荷变量, ΔY 为升力变量。如果设飞机产生的垂直加速度为 Δa , 则 $\Delta Y=m\cdot\Delta a$, 可得: $\Delta n=\Delta a/g$

国际民航组织根据 $|\Delta n|$ 把颠簸划分为五个等级: 轻微颠簸 $|\Delta n|=0.1$; 弱颠簸 $|\Delta n|=0.3$; 中度颠簸 $|\Delta n|=0.4$; 强颠簸 $|\Delta n|=0.9$; 极强颠簸 $|\Delta n|=1.1$ 。

The highest turbulence (rms value) of air-cushioned truck is only 2% of light turbulence of air flight.

Safety and Security



- Trucks aging within 3 years
- Equipped with customs locks
- Equipped with pneumatic suspension
- Insured by PICC
- With 2 drivers, each driving a 4-hours-shift
- Over 200 Benz/CNHTC truck service stations along the way for repair or replacement within 4 hours guaranteed

Customs Clearance(Rail vs Truck)

10+ Chops

Rail



3 Chops

Truck



Sino-Euro Trucking Timetable

Party	Activity	Door - Door time of 13-15days																
		-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Shipper	Booking																	
Sino-Euro Truck	Consolidation																	
Sino-Euro Truck	Truck departure																	
Sino-Euro Truck	Shanghai - Khorgas																	
Sino-Euro Truck	Customs Clearance																	
Sino-Euro Truck	Khorgas – Poland/Gemany																	
Sino-Euro Truck	Deconsolidation																	
Sino-Euro Truck	On-carriage																	

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Service Comparison (Door-to-Door)

Outbound Service

	Air	Rail (LTL)	Ocean	Truck
Lead Time (day)	6-9	30-35	45-50	13-15
Freight (€/kg)	2.24-3.95	1.45	N/A	1.58

- 30% to 60% cost saving vs air

Inbound Service

	Air	Rail (LTL)	Ocean	Truck
Lead Time (day)	6-9	30-35	45-50	13-15
Freight (€/kg)	1.4-2.0	N/A	N/A	0.95

- 30% to 50% cost saving vs air



Case Study – Client A, Truck Import

A real truck import from Sweden to Xiongxin, Hebei

Supplier INV.	108734	
DX NO.:	SXI20180614	
BILL no:	C18120400103	
DATE	WEEK	Location
11月23日	Friday	Pick up from SWEDEN
11月26日	Monday	departure from Germany
11月28日	Wednesday	Terespol, Poland
11月29日	Thursday	RUS-Bryansk
11月30日	Friday	RUS-Penza.
12月2日	Sunday	Sartabak/Khasakstan
12月4日	Tuesday	Arrive Khorgos
12月5日	Wednesday	custom declare
12月6日	Thursday	release at Khorgos
12月8日	Saturday	Delivery to customer warehouse--雄县



Case Study – Client B, Truck Export



- **11/22** 区内报关 Bonded export declaration in Suzhou;
- **11/23** 卡航出发 Truck departure;
- **11/27** 中哈边境 Arrive Khorgos, China;
- **12/5** 欧盟口岸 Arrive Terespol, Poland;
- **12/7** 丹麦工厂 Delivery to the factory in Denmark.

Achievements- 2018: EHS

Environmental:

- Reduce cost and CO2 emission for Suzhou / DK shipments.

Ocean freight:	72 days	- price 1215 USD
Railroad:	37 days	- price 2510 USD
Truck:	15 days	- price 3050 USD
Air Freight:	10 days	- price 6855 USD





Special Solution



Lithium battery products



Oversize/heavy cargo



Temperature-controlled products

