



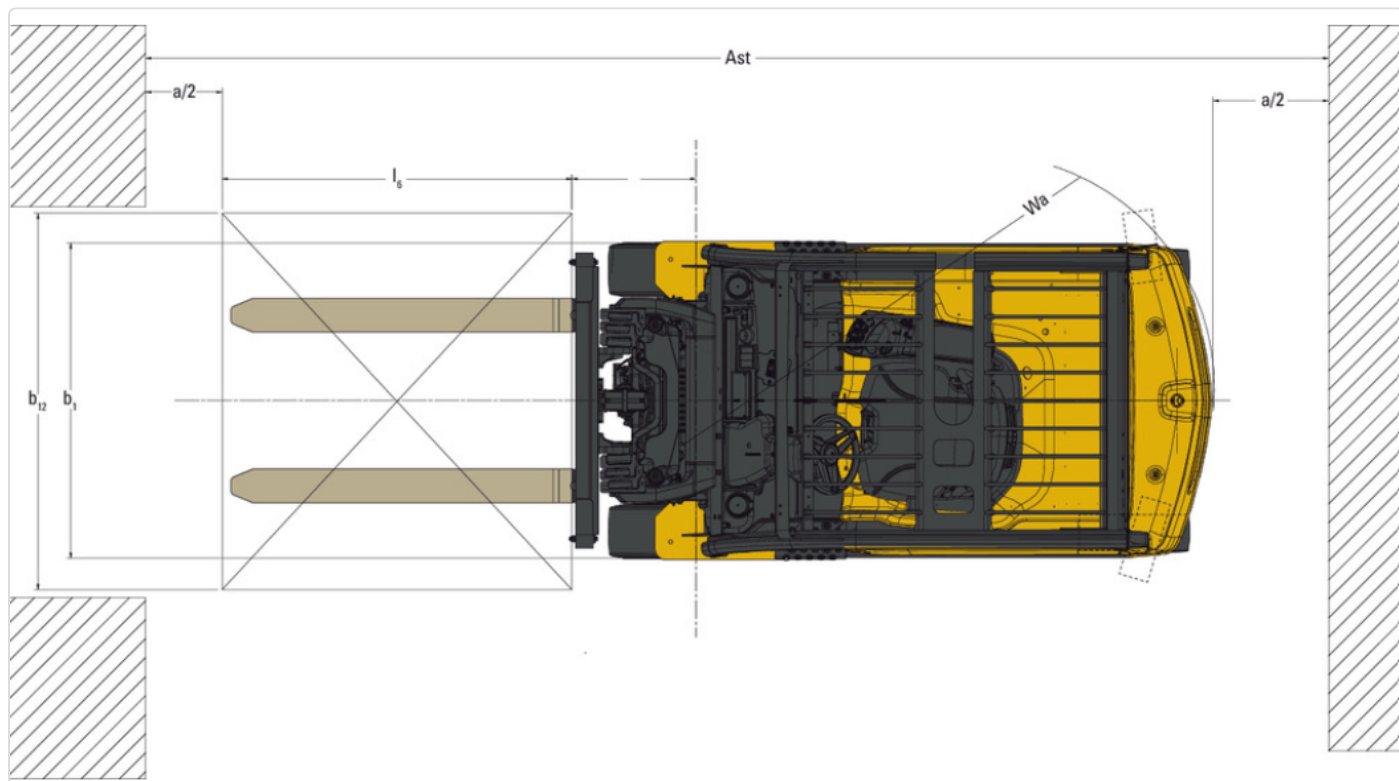
ERP2.5-3.5NL SERIES

**INTEGRATED LITHIUM-ION COUNTERBALANCE
FORKLIFT**

PRODUCT TECHNICAL GUIDE



TRUCK DIAGRAMS



SPECIFICATIONS TABLE

Technical Data

	1.2	MODEL DESIGNATION		ERP2.5NL	ERP3.0NL	ERP3.5NL	ERP2.5NL	ERP3.0NL	ERP3.5NL
	1.2.1	Model		Standard	Standard	Standard	Enhanced	Enhanced	Enhanced
	1.3	Drive: electric(battery or mains), diesel, petrol, fuel gas		Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	2500	3000	3500	2500	3000	3500
	1.6	Load center distance	c (mm)	500	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	424	434	434	424	434	434
	1.9	Wheelbase	y (mm)	1780	1780	1780	1780	1780	1780
Weight	2.1	Service weight (1)	kg	5022	5112	5427	5022	5112	5427
	2.2	Axle loading, laden front/rear (1)	kg	5864 / 1254	6990 / 843	7661 / 941	5864 / 1254	6990 / 843	7661 / 941
	2.3	Axle loading, unladen front/rear (1)	kg	2536 / 2486	2649 / 2462	2597 / 2830	2536 / 2486	2649 / 2462	2597 / 2830
Tires, chassis	3.1	Tyres: Solid rubber, superelastic, pneumatic, polyurethane		Super Elastic	Super Elastic	Super Elastic	Super Elastic	Super Elastic	Super Elastic
	3.2	Tyre size, front		23 X 9 - 10	23 X 10 - 12	23 X 10 - 12	23 X 9 - 10	23 X 10 - 12	23 X 10 - 12
	3.3	Tyre size, rear		18 X 7 - 8	18 X 7 - 8	18 X 7 - 8	18 X 7 - 8	18 X 7 - 8	18 X 7 - 8
	3.5	wheels, number front/rear		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
	3.6	Tread, front	b10 (mm)	972	983 / 1054	983 / 1054	972	983 / 1054	983 / 1054
	3.7	Tread, rear	b11 (mm)	973	973	973	973	973	973
Dimensions	4.1	Tilt of mast/fork carriage, forward /backward	$\alpha / \beta (^{\circ})$	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5
	4.2	Height, mast lowered	h1 (mm)	2140	2240	2240	2140	2240	2240
	4.3	Free lift (2)	h2 (mm)	100	100	100	100	100	100
	4.4	Lift (2)	h3 (mm)	3220	3228	3228	3220	3228	3228
	4.5	Height, mast extended (3)	h4 (mm)	4480	4498	4498	4480	4498	4498
	4.7	Height of overhead guard (4)	h6 (mm)	2193	2193	2193	2193	2193	2193
	4.8	Seat height relating to SIP/stand height (5)	h7 (mm)	1130	1130	1130	1130	1130	1130
	4.12	Towing coupling height	h10 (mm)	484	484	484	484	484	484
	4.19	Overall length	l1 (mm)	3515	3525	3591	3515	3525	3591
	4.2	Length to face of forks (6)	l2 (mm)	2515	2525	2591	2515	2525	2591
	4.21	Overall width, Std / Wide	b1/b2 (mm)	1185 / 1296	1223 / 1296	1223 / 1296	1185 / 1296	1223 / 1296	1223 / 1296
	4.22	Fork dimensions ISO2331	s/e/l (mm)	40 x 100 x 1067	50 x 120 x 1067	50 x 120 x 1067	40 x 100 x 1067	50 x 120 x 1067	50 x 120 x 1067
	4.23	Fork carriage ISO 2328. Class/type, A/B		II A	III A	III A	II A	III A	III A
	4.24	Fork carriage width (7)	b3 (mm)	1067	1067	1067	1067	1067	1067
	4.31	Ground clearance, laden, below mast	m1 (mm)	98	98	98	98	98	98
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	137	137	137	137	137	137
	4.33	Load dimension b 12*/6 crossways	b12*I6(mm)	1200 x 1000	1200 x 1000	1200 x 1000	1200 x 1000	1200 x 1000	1200 x 1000
	4.34.1	Right Angle Stack for pallets 1220mm Long x 1017mm wide (8)	Ast (mm)	3782	3792	3858	3782	3792	3858
	4.35	Turning radius	Wa (mm)	2102	2102	2169	2102	2102	2169
	4.36	Internal turning radius	b13(mm)	134	134	134	134	134	134
	4.41	90° intersecting aisle with pallet 1220mm Long x 1017mm wide	W2 (mm)	2080	2096	2124	2080	2096	2124
	4.42	Step height (from ground to running board)	(mm)	708	708	708	708	708	708

	1.2	MODEL DESIGNATION		ERP2.5NL	ERP3.0NL	ERP3.5NL	ERP2.5NL	ERP3.0NL	ERP3.5NL
	4.43	Step height (between intermediate steps between running board and floor)	(mm)	424	424	424	424	424	424
Performance data	5.1	Travel speed, laden/unladen (9)	km/h	18 / 18	17 / 18	16 / 18	20 / 20	19.5 / 20	18 / 20
	5.1.1	Travel speed, laden/unladen, backwards (9)	km/h	18 / 18	17 / 18	16 / 18	20 / 20	19.5 / 20	18 / 20
	5.2	Lifting speed, laden/unladen	mm/s	0.53 / 0.63	0.43 / 0.56	0.36 / 0.56	0.57 / 0.68	0.48 / 0.62	0.40 / 0.62
	5.3	Lowering speed laden/unladen	mm/s	0.69 / 0.61	0.63 / 0.53	0.64 / 0.53	0.69 / 0.61	0.63 / 0.53	0.64 / 0.53
	5.5	Drawbar pull, loaded / unloaded, 60 minute rating **	N	5590 / 5730	7100 / 7700	6800 / 7300	13800 / 14400	13500 / 14200	13300 / 14000
	5.6	Maximum drawbar pull, loaded / unloaded, 5 minute rating ***	N	17300 / 18140	16800 / 17600	16500 / 17300	18700 / 19700	18500 / 19500	18300 / 19300
	5.7	Gradeability, loaded / unloaded, 30 minute rating **** (10)	%	13 / 21	11 / 19	10 / 17	23 / 31	21 / 32	18 / 29
	5.8	Maximum gradability, loaded / unloaded, *** (10)	%	24 / 31	22 / 32	19 / 29	27 / 31	24 / 32	21 / 29
	5.9	Acceleration time, laden/unladen (9)	sec	5.5 / 4.9	5.5 / 5.0	5.6 / 5.1	5.4 / 4.8	5.5 / 4.9	5.5 / 5.0
	5.1	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Electric-Motor	6.1	Drive Motor Rating, S2, 60min	(kW)	2 x 9	2 x 9	2 x 9	2 x 12	2 x 12	2 x 12
	6.2	Lifting motor rating at S3 15%	(kW)	20.7	20.7	20.7	21.5	21.5	21.5
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		No	No	No	No	No	No
	6.4	Battery voltage/nominal capacity (5hr rate)	V / Ah	80 / 420	80 / 420	80 / 420	80 / 420	80 / 420	80 / 420
	6.6	Energy consumption according to DIN EN 16796 (11)	kWh/h	6.5	7.2	7.9	6.05	6.5	7
	8.1	Type of drive unit		Induction	Induction	Induction	PM Motor	PM Motor	PM Motor
Additional data	10.1	Operating pressure for attachments (12)	bar	180	180	180	180	180	180
	10.2	Oil volume for attachments	l/min	40	40	40	40	40	40
	10.3	Hydraulic oil tank, capacity	(l)	33.1	33.1	33.1	33.1	33.1	33.1
	10.7	Sound pressure level at the driver's seat (13) ANSI	dB	67	67	67	67	67	67
	10.8	Towing coupling, type DIN		Pin	Pin	Pin	Pin	Pin	Pin

NOTES

(1) Max. battery

(2) Bottom of forks

(3) Add 640 mm with Class II load backrest. Add 566 mm with Class III load backrest.

(4) h6 subject to +/- 5 mm tolerance.

(5) Full suspension in compressed position specified. Add 38 mm for nominal position.

(6) With sideshift carriage add 25 mm for Class II carriage, 28 mm for Class III carriage.

(7) Add 38 mm with load backrest.

(8) Stacking aisle width (lines 4.34.1) is based on the calculation as shown on illustration. Recommended addition of 198 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.

(9) HiP Performance settings.

(10) Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

(11) eLo Performance settings.

(12) Maximum flow set through dash display.

(13) LPAZ, measured according to the test cycles and based on the weighting values contained in ITSDF B56.11.5 2023.

* Standard / Wide tread

** 60 minute rating

*** 5 minute rating

**** 30 minute rating

Spec sheet truck based on:- 3251 mm / 3277 mm TOF 2 stage LFL Mast with standard carriage, 1067 mm forks with manual levers.

CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable

ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

MAST TABLES

Specifications Table

							ERP2.5NL	ERP2.5NL
Pneumatic Shaped Solid Tires	Maximum Fork Lift (mm)	Lowered Height (mm)	Extended Height without LBR (mm)	Extended Height with 1220 LBR (mm)	Free Lift Height Top of Forks (mm)	Back Tilt (°)	Capacities (kg) @ 500m Load Center without sideshift	Capacities (kg) @ 600m Load Center without sideshift
2-Stage Limited Free Lift	2960	1990	3513	4180	100	5	2500	2500
	3260	2140	3813	4480	100	5	2500	2500
	3360	2190	3913	4580	100	5	2500	2500
	3560	2290	4113	4780	100	5	2500	2500
	3760	2390	4313	4980	100	5	2500	2500
	3900	2540	4453	5120	100	5	2500	2500
	4200	2690	4753	5420	100	5	2500	2500
	4800	2990	5353	6020	100	5	2500	2500
	5000	3190	5553	6220	100	5	2500	2500
2-Stage Full Free Lift	2990	1990	3552	4210	1388	5	2500	2500
	3340	2140	3902	4560	1538	5	2500	2500
	3540	2240	4102	4760	1638	5	2500	2500
	3740	2340	4302	4960	1738	5	2500	2500
	4060	2540	4622	5280	1938	5	2500	2500
	4560	2790	5122	5780	2188	5	2500	2500
	4960	2990	5522	6180	2388	5	2500	2500
	5560	3340	6122	6780	2738	5	2420	2420
3-Stage Full Free Lift	4100	1990	4653	5320	1397	5	2500	2500
	4400	1990	4953	5620	1397	5	2500	2500
	4650	2040	5203	5870	1447	5	2500	2500
	4950	2140	5503	6170	1547	5	2500	2500
	5250	2290	5803	6470	1697	5	2470	2470
	5550	2390	6103	6770	1797	5	2420	2420
	6150	2640	6703	7370	2047	5	2240	2240
	6450	2790	7003	7670	2197	5	1990	1990
	6900	2990	7453	8120	2397	5	1660	1660

Specifications Table

							ERP3.0NL	ERP3.0NL	ERP3.5NL	ERP3.5NL
Pneumatic Shaped Solid Tires	Maximum Fork Lift (mm)	Lowered Height (mm)	Extended Height without LBR (mm)	Extended Height with 1220 LBR (mm)	Free Lift Height Top of Forks (mm)	Back Tilt (°)	Capacities (kg) @ 500m Load Center without sideshift	Capacities (kg) @ 600m Load Center without sideshift	Capacities (kg) @ 500m Load Center without sideshift	Capacities (kg) @ 600m Load Center without sideshift
2-Stage Limited Free Lift	2980	2090	3619	4198	100	5	3000	3000	3500	3500
	3280	2240	3919	4498	100	5	3000	3000	3500	3500
	3380	2290	4019	4598	100	5	3000	3000	3500	3500
	3580	2390	4219	4798	100	5	3000	3000	3500	3500

							ERP3.0NL	ERP3.0NL	ERP3.5NL	ERP3.5NL
	3880	2640	4519	5098	100	5	3000	3000	3500	3500
	4180	2790	4819	5398	100	5	3000	3000	3500	3500
	4480	2940	5119	5698	100	5	3000	3000	3440	3440
	4780	3190	5419	5998	100	5	2980	2980	3380	3380
	5480	3540	6119	6698	100	5	2840	2840	3230	3220
	5880	3840	6519	7098	100	5	2750	2750	3130	3110
2-Stage Full Free Lift	3000	2040	3633	4224	1361	5	3000	3000	3500	3500
	3200	2140	3833	4424	1461	5	3000	3000	3500	3500
	3500	2290	4133	4724	1611	5	3000	3000	3500	3500
	3700	2390	4333	4924	1711	5	3000	3000	3500	3500
	4000	2590	4633	5224	1911	5	3000	3000	3500	3500
	4500	2840	5133	5724	2161	5	3000	3000	3440	3440
	5000	3140	5633	6224	2461	5	2940	2940	3320	3320
	5400	3340	6033	6624	2661	5	2820	2820	2820	2820
3-Stage Full Free Lift	4020	1990	4635	5238	1323	5	3000	3000	3500	3500
	4320	2040	4935	5538	1373	5	3000	3000	3500	3500
	4620	2140	5235	5838	1473	5	3000	3000	3470	3470
	4920	2290	5535	6138	1623	5	2970	2970	3400	3400
	5520	2540	6135	6738	1873	5	2850	2840	3270	3260
	5820	2640	6435	7038	1973	5	2780	2770	3200	3180
	6120	2790	6735	7338	2123	5	2710	2690	3120	3090
	6570	2990	7185	7788	2323	5	2600	2570	3000	2960
	7020	3140	7635	8238	2473	5	2480	2440	2830	2820

AVAILABLE OPTIONS

Specifications Table

PERFORMANCE	STANDARD	OPTIONAL
80 Volt	X	
Standard Performance	X	
Standard Performance: Low Noise		X
Enhanced Performance		X
Enhanced Performance: Low noise		X
Standard Construction	X	
Sub-Zero Freezer (-40° C to 30° C)		X
Belly Screen		X
System Monitor - Hydraulic - Low Fluid Level Indicator - Hydraulic Filter Service Indicator	X	
DC to DC Converter - Primary - For Factory Installed Options - 25 amps/300 watts @ 12 volts	X	
DC to DC Converter - Auxillary - For Customer Installed Accessories - 25 amps/300 watts @ 12 volts		X
420Ah 80V Lithium-ion Battery	X	
Without Charger	X	
Charger Options		X
DRIVE	STANDARD	OPTIONAL
Seat Side Directional Control		X
Foot Directional Control (FDC)	X	
Tires - Pneumatic Shaped Solid (PSS)	X	
Tires - Pneumatic Shaped Solid (PSS) - Non Marking		X
Tires - Pneumatic		X
Standard Tread Width	X	
Wide Tread Width		X
Tilt Steering Column - Infinitely Adjustable within a 26 Degree Range - Gas-Spring Assisted	X	
Telescopic Steering Column with Infinitely Adjustable Tilt and Tilt Memory		X
Steering Wheel with Integral Spinner Knob	X	
Steering Wheel without Spinner Knob		X
On Demand Hydrostatic Power Assist Steering	X	
LIFT	STANDARD	OPTIONAL
2 Stage Limited Free Lift Mast - Class II/III	X	
2 Stage Full Free Lift Mast - Class II/III		X
3 Stage Full Free Lift Mast - Class II/III		X
5° Forward / 5° Back Mast Tilt	X	
5° Forward / 4° Back Mast Tilt		X
5° Forward / 6° Back Mast Tilt		X
10° Forward / 5° Back Mast Tilt		X
HANDLING	STANDARD	OPTIONAL
With Tilt Cylinder Boots		X
Hook Type Carriage - 42" (1067mm)	X	
Hook Type Integral Sideshift Carriage - 42" (1067mm)		X
Hook Type Integral Sideshift Carriage with Fork Positioner - 42" (1067mm)		X
Hook Type Standard Carriage - 48" (1220mm)		X
Hook Type Integral Sideshift Carriage - 48" (1220mm)		X
Hook Type Integral Sideshift Carriage with Fork Positioner - 48" (1220mm)		X
Hook Type Standard Carriage - 54" (1372mm)		X
Hook Type Integral Sideshift Carriage - 54" (1372mm)		X
Without Load Backrest	X	
48" (1220mm) High Load Backrest		X

Hook Type Standard Taper Forks	X	
Hook Type Polished and Full Bottom Tapered Forks		X
3 Function (1 Auxiliary) Hydraulic Control Valve	X	
4 Function (2 Auxiliary) Hydraulic Control Valve		X
Accutouch Mini-Lever Hydraulic Controls - Seat Side	X	
Joystick Hydraulic Controls		X
Clamping Function		X
Return to Set Tilt Function		X
Without Hose Group	X	
3 Function Hose Group (1 Auxiliary)		X
4 Function Hose Group (2 Auxiliary)		X
Auxiliary Extension Tubes		X
Auxiliary Extension Tubes with Quick Disconnect		X
Hydraulic Accumulator - 1.0 Quart - Piston Type		X
Load Weight Indicator		X
VISIBILITY	STANDARD	OPTIONAL
Audible Alarm - Reverse Direction Activated - Factory Set to 87 dB(A) - Manually Adjustable to 87, 97 or 102 dB(A)		X
Visible Alarm - Amber LED Strobe - Keyswitch Activated - Does Not Increase Truck Height		X
Forward and Reverse Activated Audible Alarm (Self-Adjusting 82-102 dB(A))		X
Without Lights	X	
LED Work Lights		X
LED Rear Lights		X
LED Rear Lights - Stop/Tail/Reverse		X
LED Rear Lights - Stop/Tail/Reverse/Turn		X
Blue LED Pedestrian Awareness Spot Light - Front and Rear		X
Red LED Pedestrian Awareness Spot Light - Front and Rear		X
Travel Speed Alarm		X
Travel Speed Indicator		X
ERGONOMICS	STANDARD	OPTIONAL
Aftermarket Cabin Kit Ready Dash	X	
5" (127mm) Color Touchscreen Display	X	
86.3" (2193mm) Overhead Guard - Grid Style	X	
90.4" (2297mm) Overhead Guard - Grid Style		X
Cab Panels - Front and Top		X
Cab - Full Steel		X
Heater and Defroster - 1500 Watts with Digital Thermostat		X
Air Conditioning		X
LED Dome/Reading Light		X
Mirror - Single Panoramic - Overhead Guard Mounted		X
Mirrors - Dual Side View - Mounted on the Left and Right Side of Overhead Guard		X
12-Volt Auxiliary Power Supply		X
Fire Extinguisher - 2.5 lb. Dry Chemical		X
Rear Drive Handle with Horn Button		X
Full Suspension Vinyl Seat	X	
Full Suspension Cloth Seat		X
Air Ride Full Suspension Vinyl Seat		X
Air Ride Full Suspension Cloth Seat		X
Full Suspension Vinyl Seat – Low Profile		X
Seat Belt - High-Visibility (Red) - No-Cinch with ELR (Emergency Locking Retractor)		X
Seat Belt - High-Visibility (Red) - No-Cinch with ELR (Emergency Locking Retractor) and Start Interlock		X
OPERATION	STANDARD	OPTIONAL
Key Switch Start	X	
Keyless with Operator Password		X
Keyless Toggle Start with Remote Auxiliary Key Switch		X

Keyless Toggle Start with Auxiliary Key Switch		X
Traction Speed Limiter pre-set to (2, 4, 5, 6, 8)mph		X
Front Mud Guards - Forward of Drive Tires - Protects Attachment and Load From Drive Tire Debris		X
Dynamic Stability System		X
Speed Reduction in Corners		X
SUPPLEMENTAL	STANDARD	OPTIONAL
24 Months / 4,000 Hours Manufacturer's Warranty	X	
36 Months / 6,000 Hours Extended Warranty		X
Extended Protection Plans		X
Literature Package	X	
UL Classification Type "E"	X	
UL Classification Type "EE" - Includes UL Label		X
Yale Vision Telemetry	X	



Yale Lift Truck Technologies

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