E805 EVOLUTION

Net flywheel power	***340 kW - 462 hp***
Operating weight (max)	***82 000 Kg***
Bucket capacity	***from 2,4 to 5,0 m³***

FIAT KOBELCO

EVOLVING TECHNOLOGY

Specifications

Tier 2 emissioned engine

Net flywheel power (ISO 14396) .....340 kW/462 hp
Rated rpm 1800
Make and model .....ISUZU 6WG1TC
Type .....4-stroke, Turbocharged, direct injection and intercooler
Total displacement .....15,6 l
Number of cylinders 6
Bore and stroke .....147 x 154 mm

Engine rpm electronic control, dial type.

Auto-Idling selector returns engine to minimum rpm when all controls are in neutral position

-15° C outside temperature start as standard equipment.

Standard electronic theft control.

The engine conforms to 97/68/CE STAGE 2 Standards

Electrical system

Voltage .....24 V
Alternator .....90 A
Starter motor .....7 kW
Standard maintenance-free batteries 2
Capacity .....140 Ah

Hydraulic system

New S.H.S. (Smart Hydraulic System) for perfect controllability and complete simultaneity of all movements.

New generation **A.I. (Artificial Intelligence)** on-board computer

A.P.S. (Automatic Priority System) device

Computerized pumps delivery and main control valve actuation in relation to manipulators stroke

E.S.S.C. (Engine Speed Sensing Control) device for total installed hydraulic power exploitation

High definition E.T.U. (Easy to Use) multi-function monitor

Mechatronic Work Selector (M.W.S.):

- **Automatic Mode** - Automatic adaption to work conditions
- **Standard Mode (S)** - Standard operating mode
- **Heavy (H)** - Maximum hydraulic power for maximum productivity.
- **Light (L)** - Finishing and precision works

Power Boost device with automatic insertion

Ultra Clean System .....oil change every 5000 hours

Main pumps:

Two variable delivery pumps with electronic delivery adjustment. Pumps automatically revert to zero delivery with controls in neutral.

Maximum delivery .....2 x 500 l/min

Piloting circuit gear type pump

Maximum delivery .....27 l/min

Maximum operating pressure .....34,3 MPa

Transmission

Type .....hydrostatic, two-speed
Travel motors .....axial pistons double displacement type
Brakes .....oil bath disc type, automatically applied and hydraulically released
Final drive .....oil bath, planetary reduction
Gradeability (continuous) .....70% (35°)
Travel speeds:
low .....from 0 to 2,9 km/h
high .....from 0 to 4,3 km/h

Automatic DownShift device: to move travel motors to maximum displacement position with selector on “high speed” position when greater traction is required.

Swing

Swing motor .....axial piston type
Swing brake .....oil bath disc type, automatically applied and hydraulically released
Final drive .....oil bath, planetary reduction
Swing ring .....grease bath type
Swing speed .....7,6 rpm

Cab and controls

TOPS (Tilt Over Protection Structure) standard cab.
Transparent cab roof.
Standard automatic conditioning.
Controls .....piloted
Two cross path manipulators actuate all equipment movements and upperstructure swing.
Two pedals with hand levers control all track movements, counter-rotation included.
A safety lever completely neutralizes the piloting circuit

Undercarriage

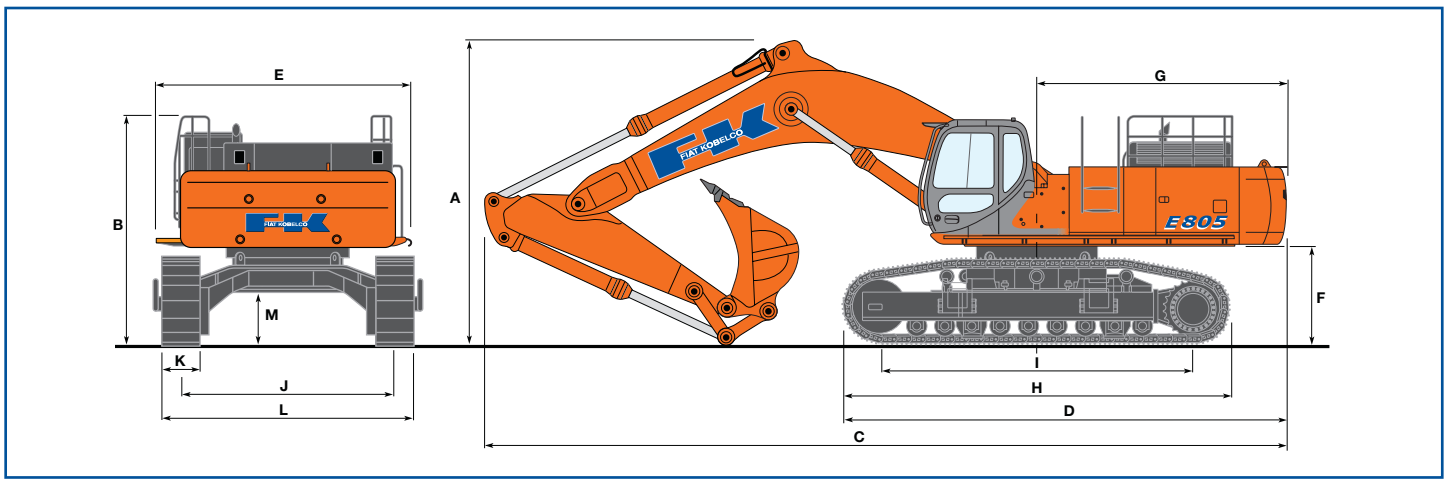
X-frame undercarriage design, with variable gauge
Reinforced track chain with sealed bushings.

	E805
Track rollers (each side)	9
Carrier rollers (each side)	3
Length of track on ground (mm)	5070
Gauge (mm)	2830-3450
Shoes (mm)	750

Capacities

Engine	litres
Lube oil	33
Coolant	100
Fuel tank	900
Hydraulic system	720

Dimensions (m) - Operating Weight



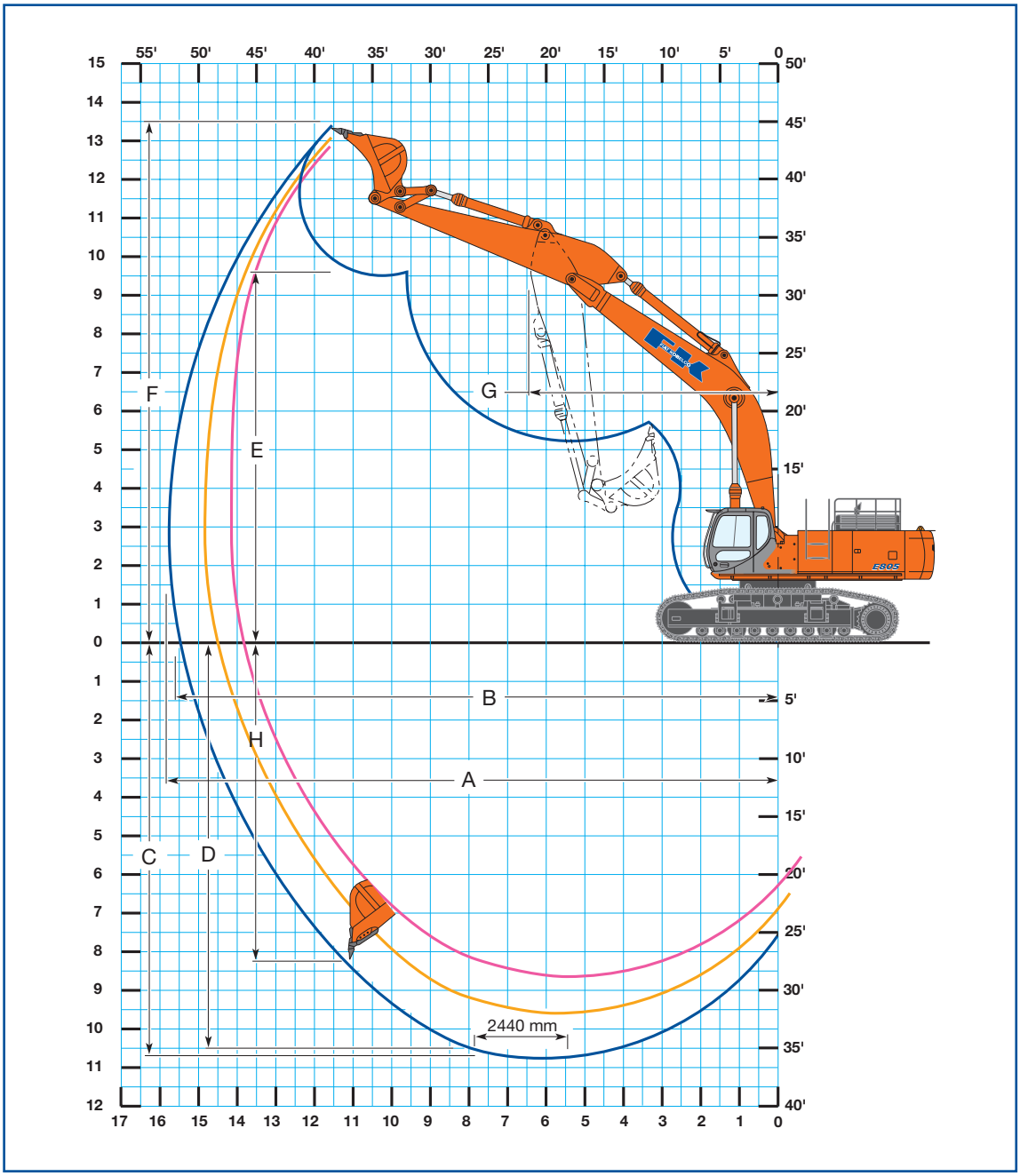
Monobloc boom 7 250 mm - Dipperstick 2 950 mm

A Overall height	5050 mm	**K** Track shoes width	750 mm
B Cab height	3790 mm	**L** Track overall width	
C Overall length	13020 mm	Shoes 650 mm (in work position)	4100 mm
D Overall length (without attachment)	7250 mm	(in transport position)	3480 mm
E Width of upperstructure (with cat walks)	4130 mm	Shoes 750 mm (in work position)	4200 mm
F Upperstructure ground clearance	1590 mm	(in transport position)	3580 mm
G Swing (rear end) radius	4100 mm	**M** Ground clearance	890 mm
H Track overall length	6360 mm		
I Centre/centre (idler to sprocket)	5070 mm	**Operating weight**	**Weight (kg)** / **Ground pressure (bar)**
J Track gauge (in work position)	3450 mm		**78600** / **1.07**
(in transport position)	2830 mm		

Monobloc boom 8 400 mm - Dipperstick 3 600 mm

A Overall height	4810 mm	**K** Track shoes width	750 mm
B Cab height	3790 mm	**L** Track overall width	
C Overall length	13020 mm	Shoes 650 mm (in work position)	4100 mm
D Overall length (without attachment)	7250 mm	(in transport position)	3480 mm
E Width of upperstructure (with cat walks)	4130 mm	Shoes 750 mm (in work position)	4200 mm
F Upperstructure ground clearance	1590 mm	(in transport position)	3580 mm
G Swing (rear end) radius	4100 mm	**M** Ground clearence	890 mm
H Track overall length	6360 mm		
I Centre/centre (idler to sprocket)	5070 mm	**Operating weight**	**Weight (kg)** / **Ground pressure (bar)**
J Track gauge (in work position)	3450 mm		**79000** / **1.08**
(in transport position)	2830 mm		

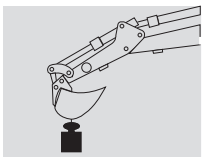
Digging performance with monobloc boom 8 400 mm



	Dipperstick	**mm**	**3600**	**4400**	**5600**
A	Maximum digging reach	**mm**	14100	14800	15900
B	Maximum digging reach at ground level	**mm**	13850	14550	15650
C	Maximum digging depth	**mm**	8700	9450	10650
D	maximum digging depth - levelled bottom 2440 mm	**mm**	8550	9350	10550
E	Maximum dump height	**mm**	8900	9150	9550
F	Maximum digging height	**mm**	12900	13150	13550
G	Minimum equipment swing radius	**mm**	6250	-	-
H	Vertical straight wall dig depth	**mm**	6450	7150	8300
	Breackout force - Dipperstick	**daN**	29000	24700	20900
	Breakout force - Bucket	**daN**	32200	32200	32200

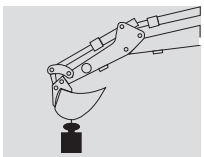
Lifting capacity with monobloc boom 8 400 mm

Values are expressed in kilos



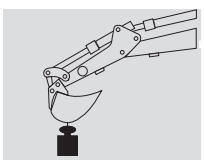
Radius of load

	3,0 m		6,0 m		9,0 m		12 m		At max reach		
	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Reach m
Dipperstick 3 600 mm - Bucket 3 400 kg											
Height											
9 m					11150*	11150*			9150*	9150*	9,25
6 m			20100*	20100*	14200*	12850			9100*	9100*	10,70
3 m			27000*	21500	16200*	11250			10300*	7800	11,20
0 m			28350*	20300	17300*	10300			13350	7650	10,85
-3 m			24850*	20250	15800*	10200			14450*	9300	9,60
-6 m			15650*	15650*					13500*	13500*	6,85



Radius of load

	3,0 m		6,0 m		9,0 m		12 m		At max reach		
	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Reach m
Dipperstick 4 400 mm - Bucket 3 400 kg											
Height											
9 m									5250*	5250*	10,30 m
6 m					13050*	12900			4900*	4900*	11,65 m
3 m			25200*	21900	15300*	11250	6100*	6100*	5200*	5200	12,10 m
0 m			28100*	20050	16850*	10150			6450*	6450*	11,75 m
-3 m			25850*	19750	16150*	9800			9850*	7500	10,60 m
-6 m			18400*	18400*					12400*	12150*	8,20 m

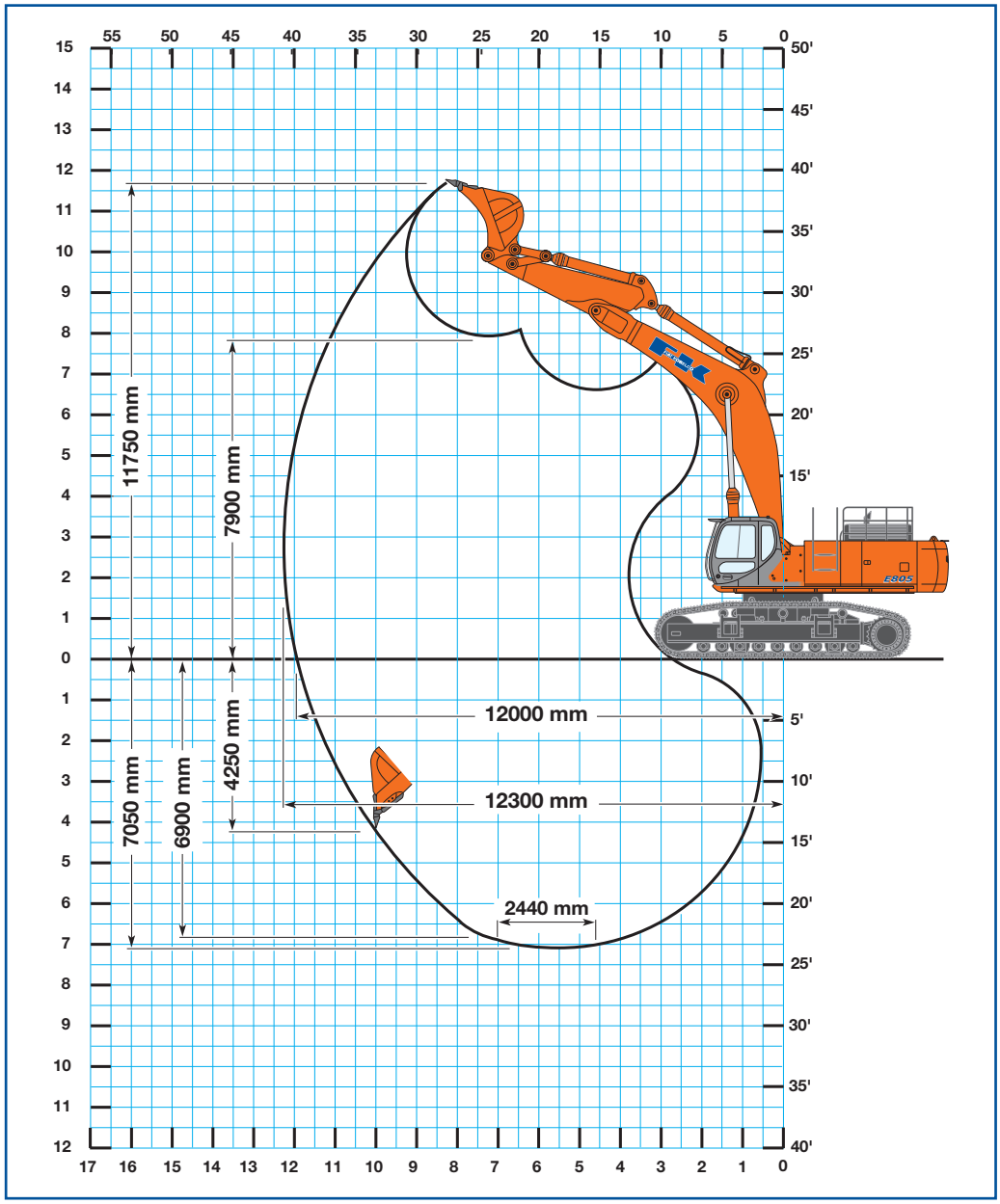


Radius of load

	3,0 m		6,0 m		9,0 m		12 m		At max reach		
	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Reach m
Dipperstick 5 600 mm - Bucket 3 400 kg											
Height											
9 m									3350*	3350*	11,85 m
6 m					13050*	12900	7600*	7600*	2900*	2900*	13,00 m
3 m			22600*	22600*	14200*	11750	10600*	6850*	2900*	2900*	13,40 m
0 m			27500*	20400	16400*	10400	11150*	6200	3400*	3400*	13,10 m
-3 m			27250*	19600	16700*	9750	5550*	5550*	4700*	4700*	12,05 m
-6 m	32900*	32900*	22150*	20000*	13500*	10000			8500*	8450*	10,05 m

As per **ISO 10567** with excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lifting capacity or 75% of static tipping load. Value marked with an asterisc are limited by the hydraulic system.

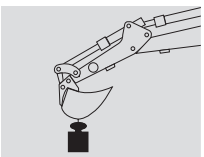
Digging performance with monobloc boom 7 250 mm and dipperstick 2 950 mm



Digging force .....**33200 daN**
Breackout force .....**41200 daN**

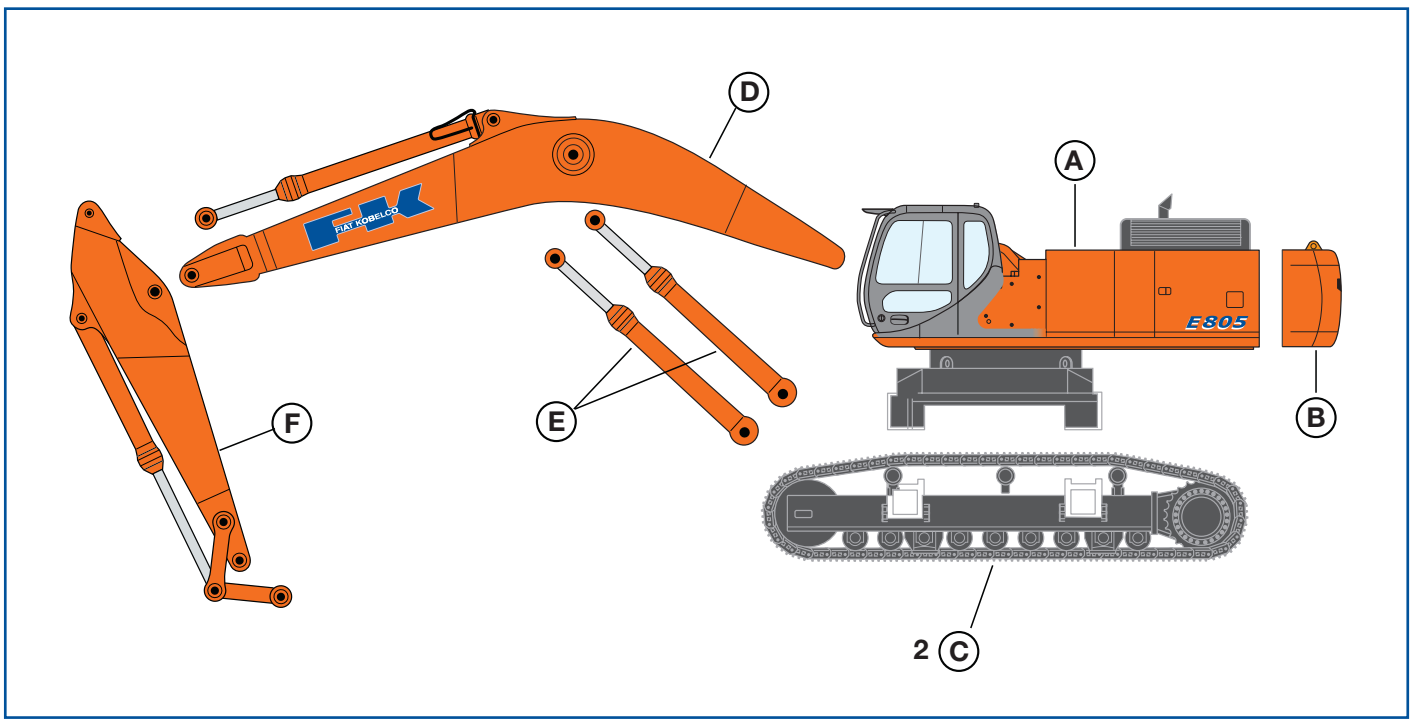
Lifting capacity with monobloc boom 7 250 mm

Values are expressed in kilos

	Radius of load										At max reach		
	3,0 m		6,0 m		9,0 m								
	Front	Side	Front	Side	Front	Side					Front	Side	Reach m
Dipperstick 2 950 mm - Bucket 3 650 mm													
Height													
+6 m			21200*	21200*							14700*	13250	8,90
+3 m			27200*	22200	17500*	11600					16700*	10650	9,50
0 m			28600*	20700	17650*	10750					17500*	10650	9,05
-3 m	35400*	35400*	23250*	20800							17950*	14450	7,50

As per **ISO 10567** with excavator equipped with bucket. The indicated load is no more than 87% of hydraulic system lifting capacity or 75% of static tipping load. Value marked with an asterisc are limited by the hydraulic system.

Dimensions - Transport weights



	Length mm	Width mm	Height mm	Weight kg
A	5340	3340	2660	23300 kg
B	3350	830	1260	12500 kg
C each	6360	750	1500	13600 kg
D 7250 mm	7630	1470	2700	7800 kg
8400 mm	8780	1470	2460	7450 kg
E (by 2)	2940	870	-	1550 kg
F 2950 mm	4410	800	1660	4150 kg
3600 mm	5110	800	1550	3800 kg
Protections and others	-	-	-	250 kg

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