



Designer and Manufacturer of High Output Propulsion Systems

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Konrad Marine Analysis Form

Konrad Marine Inc. does not guarantee the performance of any vessel. Operators should rely on certified naval architects for speed calculations.

Instructions: Please enter the information as completely and accurately as possible. Fill in your responses on this form, save it, then email it to your sales rep or sales@konradmarine.com.

Date: _____ Telephone: _____
Name: _____ Fax: _____
Company: _____ E-mail: _____
Address: _____

I. Goals & Objectives

A. Vessel Name: _____

B. Vessel Condition:

New Build

Repower/Reprop

Date Manufactured _____

C. Vessel Use Patterns (*i.e. hours per year anticipated, distances traveled, purpose*):

*1. Operational (hours/year): _____

2. Normal Long Distance Run (miles/km) _____

*3. Service:

Recreational/Pleasure

Towing/Bollard Pull

Personnel Transport/Crew

Work/Commercial

Military Enforcement

Commercial Hire

Other _____

D. Objectives (*please prioritize where #1 is most important, and blank is not applicable*):

Top Speed

Maneuverability

Efficiency at cruise speeds

Towpull (thrust)

Acceleration

Heavy weather operation

Trolling

Less cavitation, noise or vibration

E. Tasks:

Recommend a gear ratio

Recommend a transmission

Recommend a propeller

Recommend a Konrad stern drive model

Recommend an engine

II. Principal Vessel Condition

All calculations will be based on this data, so this should reflect the principal operating condition of the vessel. If possible, attach a sketch, photograph or print of the vessel.

A. Vessel Make/Model: _____

* B. Hull type:

Displacement	Barge	Planing
Semi-displacement	Catamaran	Other: _____

* C. Hull Material:

Aluminum	Wood
Fiberglass / Resin	Composite (<i>specify materials</i>): _____

D. Dimensions (*supply units*):

1. Length:

* a. overall: _____ b. at waterline: _____

2. Beam: _____

3. Draft: _____

* 4. Deadrise angle at stern: _____

* 5. Number of propulsion units (*single, twin, triple, quad*): _____

6. Weight (specify units):

* a: operational (*full fuel*): _____

* b: normal max load: _____

* describe fuel volume: _____

* describe cargo weight: _____

* describe passenger quantity: _____

* 7. Transom thickness (*surface the stern drive is mounted to*): _____

* 8. Vessel voltage (DC):

12V	24V	Both Available
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III. Engine Room Geometry

A. Distance from transom to engine room bulkhead:

* (*FWD - rear engine room*): _____

(*AFT - midship engine position only*): _____

B. Engine Position in Hull: Distance from transom face (*exterior*) to:

* a: front of engine: _____

b: front engine mount centerline: _____

c: bell housing adapter face (*where transmission attaches*): _____

* C. Transom Rake Angle: _____

* D. Distance from engine centerline to vessel centerline (*keel – for tie bar length in twin applications*):

(*Twin application only*): _____

E. Engine from trim pumps (*usually transom mounted*) to helm control station: _____

IV. Proposed Engine/Gear

* A. New Engine Existing Engine Remanufactured Product

* B. Engine make/model: _____

* C. Rated horsepower (*maximum*): _____

* D. Rated RPM (*maximum*): _____

E. Rated max fuel consumption (*gallons or litres per hour at max output*): _____

F. Transmission:

1. Model: _____

2. Ratio: _____

G. Steering

*1. Power (*necessary for twin prop dri*) Manual hydraulic

*2. If Power: Electric 12V Mechanical driven pump

3. Please describe if helms are needed, and their location:

*4. Cylinder Placement: Internal External

V. Prior Performance

Note: Information about prior trial performance of the vessel (or one exactly like it) will improve the accuracy and reliability of the analysis. Define this data as accurately as possible - do not guess. This data should be for typical operation at the vessel condition described above.

A. Location of trial: _____

* 1. Trial speed (kts): _____

Radar GPS Loran

2. Were current wind speed and headings accounted for (*averaged*)? _____

B. Previous Engine and Propulsion System Characteristics:

*1. Engine make/model: _____

2. Rated max power: _____

*3. Rated max RPM: _____

*4. Engine RPM (*max attainable*) at trial speed: _____

*5. Propulsion system make/model: _____

*6. Transmission and/or drive ratio: _____

*7. Number of propulsion units _____

C. Propeller Characteristics Make: _____ Model: _____

*1. Diameter: _____ *4. Pitch: _____

2. Number of blades: _____ 5. Cup type (if any): _____

3. Material:

Aluminum

Stainless

Ni Br Al

Other (describe): _____

I certify that the information I have supplied above is a true and correct representation of the vessel.

Name

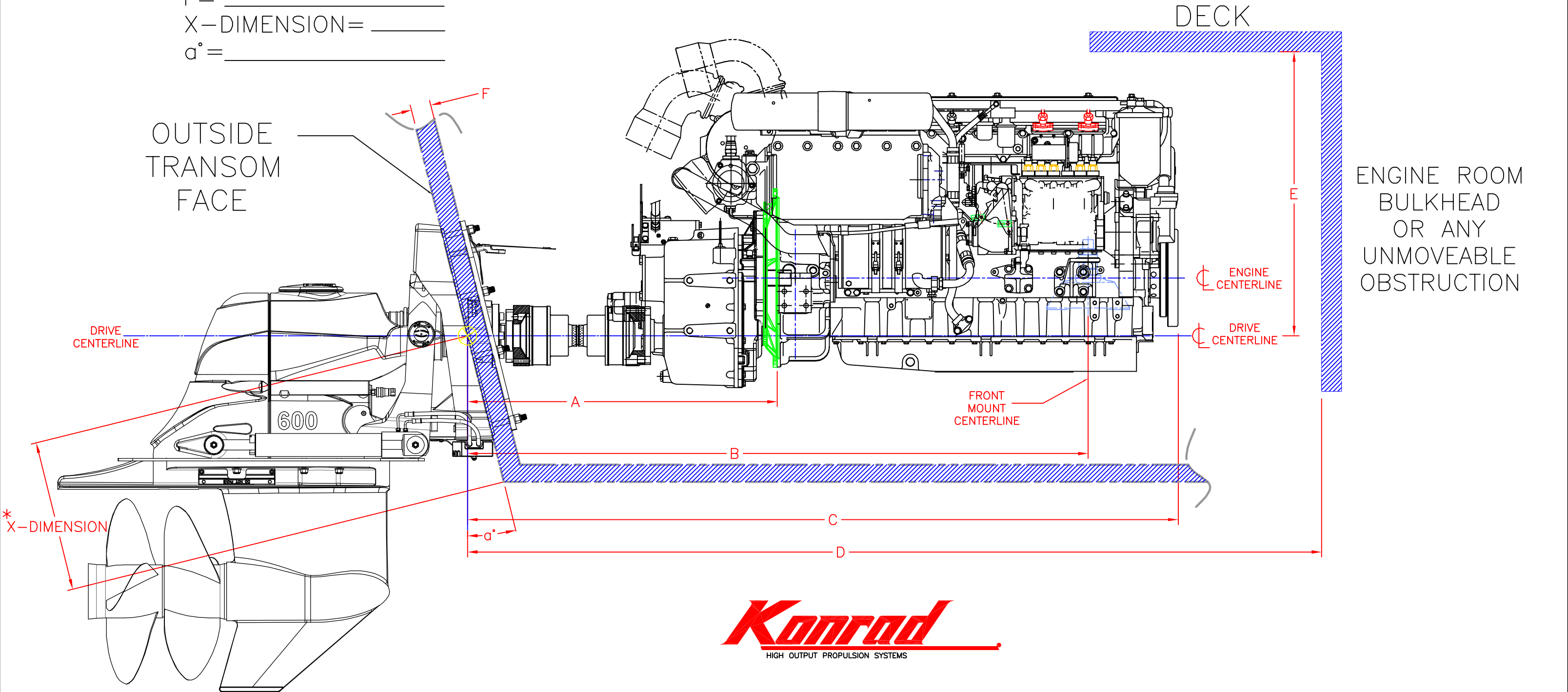
Signature

Date

A= _____
 B= _____
 C= _____
 D= _____
 E= _____
 F= _____
 X-DIMENSION= _____
 α°= _____

CUSTOMER: _____

BOAT TYPE: _____



* THE AVERAGE X-DIMENSION IS 15" INCHES FOR MEASUREMENT PURPOSES.

TO ASSESS X-DIMENSION, PLEASE REVIEW DRAWING 10-400,12-835 OR CALL A KONRAD REPRESENTATIVE

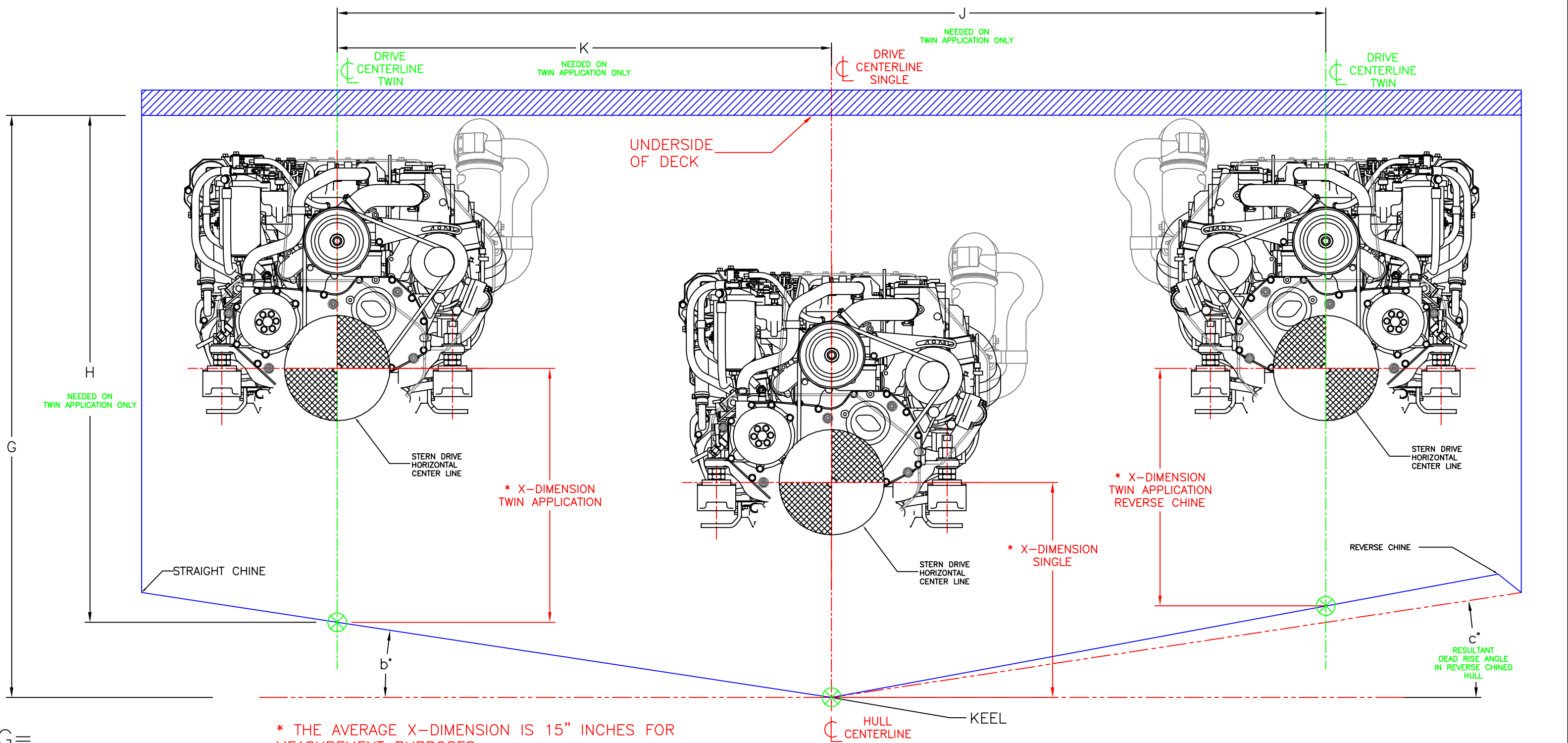
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	SCALE 1:1	DRAWN BY: CH
APPROV. BY:		
TITLE BOAT INFORMATION DRAWING : SHEET 1		
DATE	DRAWING NUMBER	

CUSTOMER: _____

BOAT TYPE: _____



G= _____
 H= _____
 J= _____
 K= _____
 b°= _____
 c°= _____

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	SCALE 1:1	DRAWN BY: CH APPROV. BY:
TITLE BOAT INFORMATION DRAWING : SHEET 2		
DATE	DRAWING NUMBER	