



REGISTERED TRADE MARK

EVIAN (GB) LIMITED

9 DRAPERS GARDENS
THROGMORTON AVENUE
LONDON E.C.2
ENGLAND



PRODUCTS MADE
IN FRANCE BY

• **FRANCOLAM** •

SOCIÉTÉ ANONYME
CAPITAL 385 MILLIONS

FRANCOLAM

SOCIÉTÉ ANONYME CAPITAL 385 MILLIONS

B. P. 120 SAINT-ÉTIENNE FRANCE TÉL. 33-79-52

For many years this Company has specialised in the manufacture of pressed steel Bicycle Frame Lugs, which have replaced to a very great extent the now obsolete cast lug.

"Know how" goes into everything and lug sets are no exception. NERVEX Lugs are manufactured by a special process which ensures an extra thickness of metal at the bends where strength is most required. This is particularly apparent in our Bottom Bracket shell which has been acknowledged by Bicycle manufacturers as a masterpiece in precision press work engineering.

Our "Professional" lug sets are simply unique and made by NERVEX ONLY. The majority of high class frames are built with this set.

The finish of our "Serie Legere" sets is such that the filing work required from the frame builder is reduced to a minimum, thus saving labour, time and cost.

In addition to Bicycle Lug Sets, we manufacture practically every component that is required in bicycle frame building, front and rear ends, Fork Crowns, bridges, etc all in many designs sizes and specifications.

Our Engineering activities are not confined to these components. In fact our motto could be: "IF it's made from Pressed metal.. we make it".

Some of our other stock products are Petrol Tanks, Luggage Carriers etc for Motorcycles, Mopeds and Scooters.

Outside our Cycle and Motorcycle divisions, we manufacture Ski and Camping equipment and Garden Furniture.

Special work to clients specifications is undertaken by our Engineering division which is equipped with up to date machinery and large capacity (300 Tons) Presses.

Our representatives and Distributors are at your service, do not fail to consult them.



FOR

EVERY PART REQUIRED IN CYCLE FRAME BUILDING.

FRAME LUGS
BOTTOM BRACKET
SHELLS

FRAME DESIGNS

FORK CROWNS

FORK ENDS

BRIDGES
FRAME PARTS

PETROL TANKS

LUGGAGE CARRIERS
STANDS

"BABY" CYCLES



"PROFESSIONAL" LUG SET (MODEL 49/162)

This is a unique type of Frame Lug Set particularly suited for De Luxe Bicycles and Racing machines.

Made from pressed steel by a special NERVEX process, these "Professional" Lugs are made to close tolerances, and re-inforced at the bends and around the rim of the Head Lugs for increased strength.

The feature cuts are neat and thinned out to give an attractive appearance and easier brazing with minimum of filing.

The construction and design of the "Professional" sets are a NERVEX exclusivity not to be found in Lugs made by other manufacturers.

The reputation of this set is backed by undisputable facts which can be verified by anyone who examines the Racing cycles entered in such major events as the "Tour de France", "Tour of Belgium", "Tour of Britain", etc - : The majority of these machines are built with "Nervex Professional" Lugs.

COMPOSITION

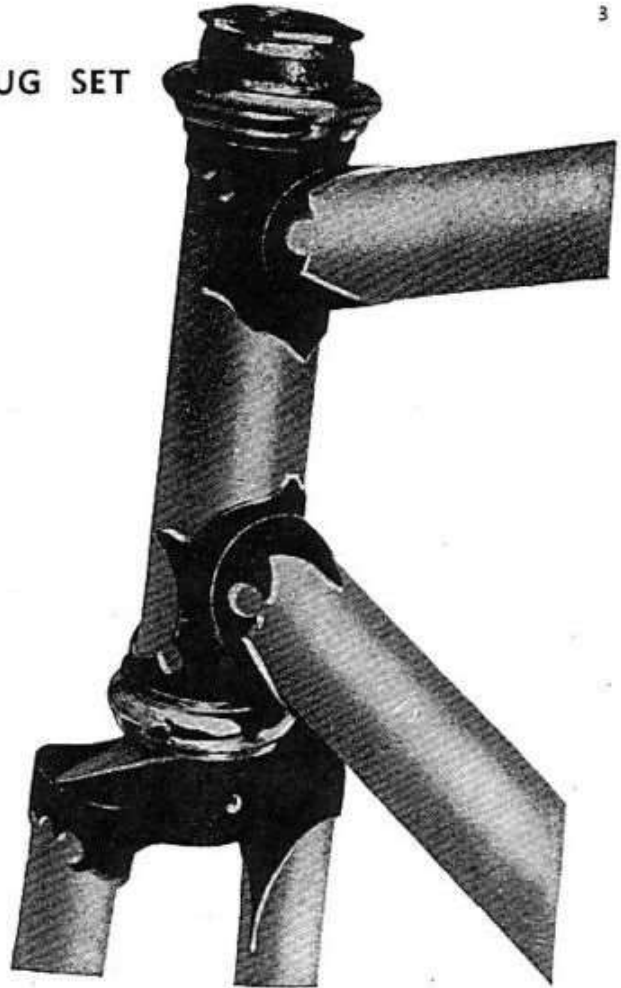
Nervex "Professional" Lugs are delivered Boxed per set.

Each set is composed of :-

- 2 Head Lugs
- 1 Seat Lug
- 1 Bottom Bracket shell
- 1 Nervex "Professional" Frame Transfer

To be ordered separately,

- 1 Fork crown Type Professional No 5, racing (narrow head), or 1 Ballon (wide head), both types for oval blades.



Refer to pages 12 and 26 for details on the Nervex technique of manufacture of Lug, Bottom Bracket shells and Fork Crowns.

The Nervex "Professional" Lug Set is made for Gents frames only. It is available for both French and English standard size Tubing, in the following angles :

| Frame Design | Top Angle | Bottom Angle |
|--------------|-----------|--------------|
| No 1 | 75° | 58° |
| No 2 | 73°30' | 59°30' |
| No 3 | 72° | 61° |
| No 4 | 72° | 59°30' |



"PROFESSIONAL" Head Lug Model 49/162
Feature Cut 49
Nozzle Cut 162



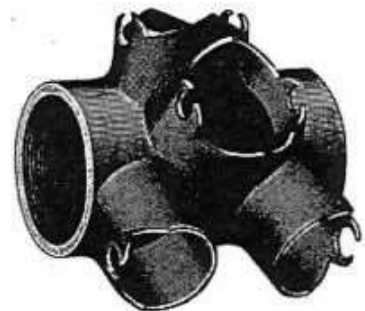
"PROFESSIONAL" Seat Lug
Nozzle Cut 162, re-inforced ears
Available with Spigot on request



FORK CROWN
Professional Racing
Feature Cut No 5



FORK CROWN
D/B.Randonneur
Feature Cut No 7



BOTTOM BRACKET SHELL
Nozzle Cut 162



TOP AND BOTTOM HEAD LUGS

LADIES & GENT'S - TOP HEAD LUGS

| FRENCH SIZES | | | ENGLISH SIZES | | |
|--------------|----------------|---------|---------------|----------------|---------|
| Refce | BORES for Tube | Angle | Refce | BORES for Tube | Angle |
| 191 | 32 x 22 | 45° | 193A | 31,7 x 22,2 | 18° |
| 201 | 32 x 23 | 45° | 195A | 31,7 x 22,2 | 21° |
| 203 B | 32 x 23 | 49° | 197A | 31,7 x 22,2 | 24° |
| 203 C | 32 x 23 | 51° | 198BA | 31,7 x 22,2 | 35° |
| 204 | 32 x 24 | 49° | | | |
| 205 | 32 x 25 | 48° | | | |
| 205 B | 32 x 25 | 54° | | | |
| 205 C | 32 x 25 | 64° 30' | | | |
| 206 | 32 x 25 | 67° | | | |
| 207 | 32 x 25 | 70° 30' | 207A | 31,7 x 22,2 | 72° |
| 215 B | 32 x 26 | 49° | 208A | 31,7 x 25,4 | 18° |
| 216 B | 32 x 26 | 52° | 210A | 31,7 x 25,4 | 21° |
| 217 B | 32 x 26 | 55° | 212A | 31,7 x 25,4 | 24° |
| 219 | 32 x 26 | 60° | 215BA | 31,7 x 25,4 | 49° |
| *220 | 32 x 26 | 61° 30' | *220A | 31,7 x 25,4 | 61° 30' |
| 222 | 32 x 26 | 64° 30' | 222A | 31,7 x 25,4 | 64° 30' |
| 223 | 32 x 26 | 66° | 223A | 31,7 x 25,4 | 66° |
| 224 | 32 x 26 | 67° 30' | 224A | 31,7 x 25,4 | 67° 30' |
| 225 | 32 x 26 | 69° | 225A | 31,7 x 25,4 | 69° |
| 226 | 32 x 26 | 70° 30' | 226A | 31,7 x 25,4 | 70° 30' |
| *227 | 32 x 26 | 72° | *227A | 31,7 x 25,4 | 72° |
| *228 | 32 x 26 | 73° 30' | *228A | 31,7 x 25,4 | 73° 30' |
| *229 | 32 x 26 | 75° | *229A | 31,7 x 25,4 | 75° |
| 231 | 32 x 26 | 78° | 231A | 31,7 x 25,4 | 78° |

LADIES & GENT'S - BOTTOM HEAD LUGS

| | | | | | |
|------|---------|---------|-------|-------------|---------|
| *235 | 32 x 28 | 58° | *235A | 31,7 x 28,6 | 58° |
| *236 | 32 x 28 | 59° 30' | *236A | 31,7 x 28,6 | 59° 30' |
| *237 | 32 x 28 | 61° | *237A | 31,7 x 28,6 | 61° |
| 238 | 32 x 28 | 62° 30' | 238A | 31,7 x 28,6 | 62° 30' |
| 239 | 32 x 28 | 64° | 239A | 31,7 x 28,6 | 64° |
| 241 | 32 x 28 | 67° | 241A | 31,7 x 28,6 | 67° |
| | | | 242A | 31,7 x 28,6 | 68° 30' |
| | | | 243A | 31,7 x 28,6 | 70° |
| | | | 244A | 31,7 x 28,6 | 71° 30' |
| | | | 245A | 31,7 x 28,6 | 73° |
| 250 | 32 x 30 | 67° | | | |

DOUBLE TUBE

| LADIES | | | GENT'S | | |
|--------|----------|-----|--------|------------|-----|
| 465 | 32x11x11 | 78° | 465A | 31,7x11x11 | 78° |
| 466 | 32x11x11 | 65° | 466A | 31,7x11x11 | 65° |
| *469 | 32x13x13 | 78° | *469A | 31,7x13x13 | 78° |
| 471 | 32x13x13 | 72° | 471A | 31,7x13x13 | 72° |
| 472 | 32x13x13 | 65° | 472A | 31,7x13x13 | 68° |
| *473 | 32x13x13 | 65° | *473A | 31,7x13x13 | 65° |
| | | | 480A | 31,7x13x13 | 72° |

RINGS & LINERS

| | | | |
|------|----|-------|------|
| *485 | 32 | *485A | 31,7 |
| *486 | 30 | | |
| 492 | 28 | | |

JUVENILE & CHILD

| | | |
|------|---------|-----|
| 256 | 30 x 22 | 49° |
| 260 | 30 x 22 | 67° |
| 263 | 30 x 24 | 66° |
| 265 | 30 x 24 | 69° |
| *267 | 30 x 24 | 72° |
| 275 | 30 x 24 | 81° |
| *278 | 30 x 26 | 61° |
| *280 | 30 x 26 | 64° |
| 290 | 28 x 22 | 67° |
| *295 | 28 x 22 | 87° |
| *310 | 28 x 24 | 67° |

This range of Lugs is Not available for British Size Tubes.

Lugs Ref. 256 to 280 are available only in model 15/158.

Lugs Ref. 290 to 310 are available only in model 6/153.

FEATURE CUTS.

All Lugs, for Ladies and Gents Frames, are available in the various feature cuts and Nozzle cuts illustrated on pages 5, 6 and 7.

Lug references marked with an asterisk (*) form part of the standardised Frame designs Nos 1 to 11 listed on page 13.

"Professional" model 49/162, and "Serie Legere" models 45/159, 48/161, 86^h/158 and NON CUT OUT, are usually available from stock. All other models and angles described are made on request.

LUGS FOR MOPEDS.

Cycle Bottom Head Lugs reference 239, 241, 243, can be made from heavier gauge steel (22/10 mm thick), for Moped Frames.



TOP HEAD LUG
Feature Cut & Nozzle Cut



TOP HEAD LUG
Non Cut Out



BOTTOM HEAD LUG
Nozzle Cut & Feature Cut



TOP HEAD LUG
Non Cut Out
(Lug Ref. 193 A, to 198 BA)



HEAD LUG, Gent's Frame
Double Tube Pattern, Feature Cut



HEAD LUG, Ladies Frame
Double Tube Pattern, Non Cut Out



External Head Tube LINER
Feature Cut, Ref. 485



Ref. 496 Re-inforcing RING,
For Head Tube on Welded Frames
available for Tubes ** 28, 30, 32, 33



STOCK PATTERNS

"Professional" Model 49/162, and "Serie Legere" Models 45/159, 48/161, 86 bis/158, and NON CUT OUT, are usually available from Stock. All other feature cuts shown on Pages 5, 6, 7, are also available in the "Serie Legere" Lugs on request.



"PROFESSIONAL" Model 49/162
(Feature Cut 49, Nozzle Cut 162)
For Frame Designs № 1,2,3,4



"Serie Legere" Model 45/159
(Feature Cut 45, Nozzle Cut 159)
For Frame Designs № 1 to 5



"Serie Legere" Model 48/161
(Feature Cut 48, Nozzle Cut 161)
For Frame Designs № 1,2,3,4,7,8



"Serie Legere" Model 86 bis/158
(Feature Cut 86 bis, Nozzle Cut 158)
For Frame Designs № 2 to 8



"Serie Legere" Model 85/156
For Frame Designs № 2,3



"Serie Legere" Model 32/169
For Frame Design № 4



"Serie Legere" Model 15/158
For Frame Design № 10



"Serie Legere" Model 6/153
For Frame Design № 11

NOZZLE CUTS

On request, every Lug Set in the "Serie Legere" can be delivered with any one Nozzle Cut featured below, references 150 to 173, but excluding Ref. 162 which is exclusive to the "Professional" Set Type 49/162.



150



153



155



156



157



158



159



160



161



168



172



173



FEATURE CUTS - "SERIE LEGERE"

on request, every Lug set in the "SERIE LEGERE" can be delivered with any one Feature Cut, illustrated on pages 5, 6, 7, with the exception of Pattern 49 which is exclusive to the professional set type 49/162.



20



21



34



37



38



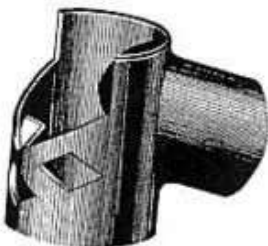
45



48



50



51



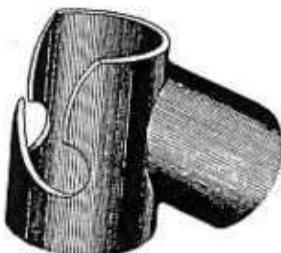
52



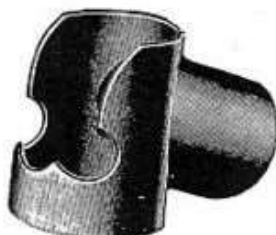
53



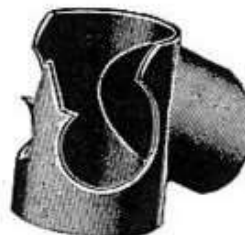
54



58



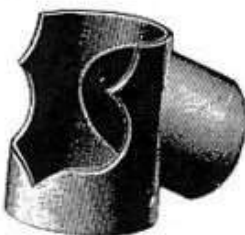
59



60



61



62



64



66

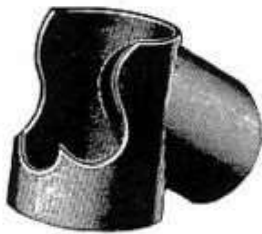


69



FEATURE CUTS - "SERIE LEGERE"

Guidance for ordering - To reference the "model" of Lug set you require, select the feature cut and this will form the first part of the reference. Select the Nozzle Cut and this will be the second part of the reference. Thus, Lugs required with Feature Cut No 83 and Nozzle Cut No 172, will reference as "Model 83/172".



70



71



72



73



75



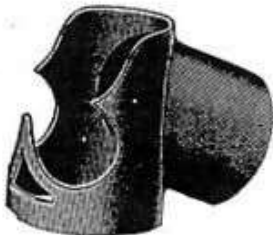
83



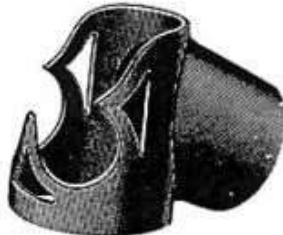
85



85 ter



86 bis



86 ter



87



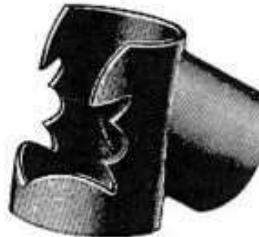
88



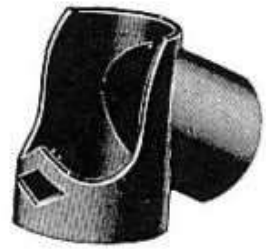
89 bis



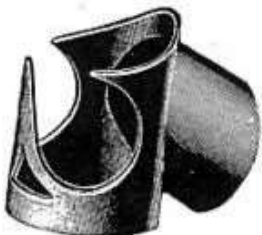
89 ter



90



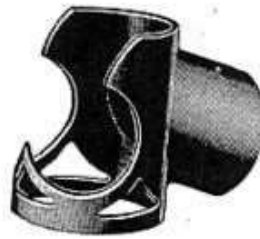
94



100 bis



103



106 ter



110



LUGS

Loop, T, Bridge, Liner

Lug References marked with an Asterisk (*), form part of the standard Frame Designs No 1 to 11, listed on page 13.

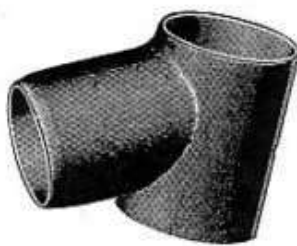
LADIES, Loop and T Lugs

| FRENCH SIZES | | | BRITISH SIZES | | |
|--------------|----------------|---------|---------------|----------------|---------|
| Refce | BORES For Tube | Angle | Refce | BORES For Tube | Angle |
| 323 | 28 x 26 | 55° | 323A | 28,6x25,4 | 55° |
| 324 | 28 x 26 | 60° | 324A | 28,6x25,4 | 60° |
| *325 | 28 x 26 | 61° 30' | *325A | 28,6x25,4 | 61° 30' |
| 326 | 28 x 26 | 63° | 327A | 28,6x25,4 | 64° 30' |
| 327 | 28 x 26 | 64° 30' | 327BA | 28,6x25,4 | 67° |
| 327B | 28 x 26 | 67° | *328A | 28,6x25,4 | 66° |
| *328 | 28 x 26 | 66° | 329A | 28,6x25,4 | 69° |
| 329B | 28 x 26 | 70° | 330BA | 28,6x25,4 | 71° |
| 330 | 28 x 26 | 72° | 331A | 28,6x25,4 | 75° |
| 331 | 28 x 26 | 75° | 332A | 28,6x25,4 | 78° |
| 332 | 28 x 26 | 78° | 333A | 28,6x25,4 | 81° |
| 333 | 28 x 26 | 81° | 334A | 28,6x25,4 | 84° |
| 334 | 28 x 26 | 84° | 348A | 28,6x22,2 | 66° |
| 335 | 28 x 26 | 87° | 349A | 28,6x22,2 | 69° |
| 336 | 28 x 26 | 90° | 350A | 28,6x22,2 | 72° |
| 336B | 28 x 25 | 64° 30' | 351A | 28,6x22,2 | 75° |
| 337 | 28 x 25 | 67° | 352A | 28,6x22,2 | 78° |
| 338 | 28 x 25 | 81° | 353A | 28,6x22,2 | 81° |
| 339B | 28 x 24 | 70° | 354A | 28,6x22,2 | 84° |
| 341B | 28 x 23 | 49° | 355A | 28,6x22,2 | 87° |
| 343 | 28 x 23 | 55° | | | |
| 346 | 28 x 23 | 63° | | | |
| 347 | 28 x 23 | 64° 30' | | | |
| 348 | 28 x 23 | 67° | | | |
| 358 | 28 x 22 | 49° | | | |

LOOP AND T LUGS

Juvenile & Child

| | | | |
|------|---------|-----|---------------------------------|
| 365B | 26 x 24 | 66° | Available in French Sizes only. |
| 367 | 26 x 24 | 81° | |
| 368 | 26 x 23 | 67° | |
| 370 | 24 x 22 | 67° | |
| *371 | 24 x 22 | 87° | |



- Non Cut Out
- Without Spigot



- Nozzle Cut Ref. 158 (For other patterns see Page 5)
- Top or Bottom Cut
- Feature Cut
- Spigot F

ORDERING.

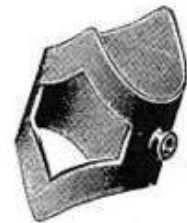
Indicate Lug Reference as well as the Nozzle Cut required. Also, if top and bottom cut is required, if Spigot is required, etc. The Lug featured above would be ordered THUS : Lug Ref. 325, Nozzle Cut 158 Top and bottom cut, Feature cut, Spigot F.

LINER

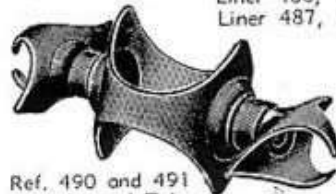
| FRENCH SIZES | | ENGLISH SIZES | | |
|--------------|-----------------|---------------|-----------------|------------------------------------|
| Refce | BORES For Tubes | Refce | BORES For Tubes | |
| 487 | 28 | | | Without Spigot |
| 488 | 28 | | | With Spigot |
| 489 | 28 | | | For use with "U" Pattern Bridge |
| *490 | 28 | *490 A | 28,6 | With Swivel Claws, 42°/". Bridging |
| *491 | 28 | *491 A | 28,6 | With Swivel Claws, 55°/". Bridging |



Liner 489



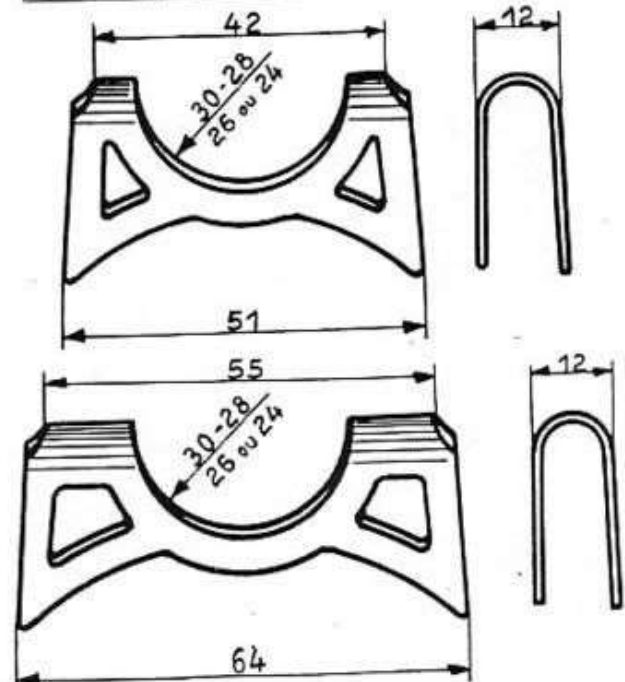
Liner 488, (with Spigot)
Liner 487, (without Spigot)



Ref. 490 and 491
Twin Lateral Tube
Bridge, with swivel Claws

"U" PATTERN BRIDGES

| TYPE | Int. | Tube de 30 ou bague 489 | Tube de 28 | Tube de 26 | Tube de 24 |
|-----------|------|-------------------------|------------|------------|------------|
| Twin Tube | 42 | 710-30 | 710-28 | *710-26 | 710-24 |
| "T" Tube | 42 | 712-30 | 712-28 | *712-26 | 712-24 |
| Twin Tube | 55 | 711-30 | 711-28 | *711-26 | 711-24 |
| "T" Tube | 55 | 713-30 | 713-28 | *713-26 | 713-24 |





SEAT LUGS

Below are featured a number of patterns of Seat Lugs available in the NERVEX Range. The final product will be made up (as per your requirements) from one of these patterns in each heading, LOCKING, SPIGOT, CUT-OUT. The Angle required for the Lug, together with the Bore will be selected from the tables on the left hand side of this page.

FRENCH SIZES

GENT'S

| Réfce | BORES For Tube | Angle |
|-------|----------------|---------|
| 402 | 28 x 26 | 67° 30' |
| 403 | 28 x 26 | 69° |
| 404 | 28 x 26 | 70° 30' |
| *405 | 28 x 26 | 72° |
| *406 | 28 x 26 | 73° 30' |
| *407 | 28 x 26 | 75° |

BOYS

| | | |
|------|---------|-----|
| 410 | 26 x 24 | 69° |
| *411 | 26 x 24 | 72° |
| 412 | 24 x 24 | 67° |

LADIES

| | | |
|------|----|--|
| *459 | 28 | |
|------|----|--|

GIRLS

| | | |
|------|----|--|
| 450 | 22 | |
| *453 | 24 | |
| *456 | 26 | |

ENGLISH SIZES

GENT'S

| | | |
|-------|-----------|---------|
| 400A | 28,6x25,4 | 64° 30' |
| 401A | 28,6x25,4 | 66° |
| 402A | 28,6x25,4 | 67° 30' |
| 403A | 28,6x25,4 | 69° |
| 404A | 28,6x25,4 | 70° 30' |
| *405A | 28,6x25,4 | 72° |
| 405BA | 28,6x25,4 | 73° |
| *406A | 28,6x25,4 | 73° 30' |
| *407A | 28,6x25,4 | 75° |

LADIES

| | | |
|-------|------|--|
| *459A | 28,6 | |
|-------|------|--|

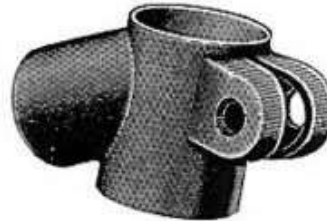
Lug References marked with an asterisk (*) form part of the standardised Frame designs listed on page 13.

ORDERING. If you require a Seat Lug suitable for Tubes 28,6x25,4, Angle 72°, with small ear Locking, with hollow Spigot, with Top and Bottom Cut, and a Nozzle feature Cut Type 161, you will code this order as follows: Seat Lug

LOCKING



Ref. SS
Without Locking

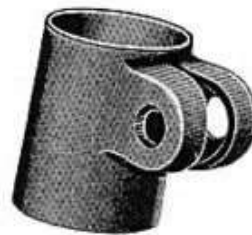


Ref. GO
Locking Large Ears
Made only for Lugs Ref. 400A, 401A, 402A, 403A



Ref. PO
Locking Small Ears

SPIGOT



Ref. SE
Without Spigot



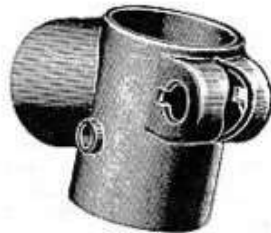
Ref. ED
Plug Spigot, machined to 6 or 8mm diameter



Ref. EF
Pressed, hollow Spigot

CUT-OUT

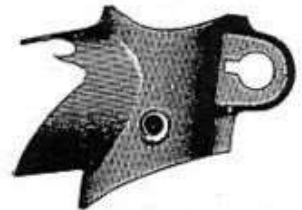
(Nozzle Cut of Seat Lug follows pattern selected for Head Lugs, Illustrated on Page 5).



Top and Bottom NOT
Cut-Out
Nozzle NOT Cut-Out



Bottom Cut
Nozzle Cut 158



Top and Bottom Cut
Nozzle Cut 161



Top and Bottom NOT
Cut-Out



Bottom Cut



Top and Bottom Cut
Feature Cut

Ref. 405 A, PO, EF, Top and Bottom Cut, Nozzle 161.



BOTTOM BRACKET SHELL "PARALLEL"

(for cranked rear fork stays)

FRENCH SIZES

Threading : 35x100 Right hand both sides

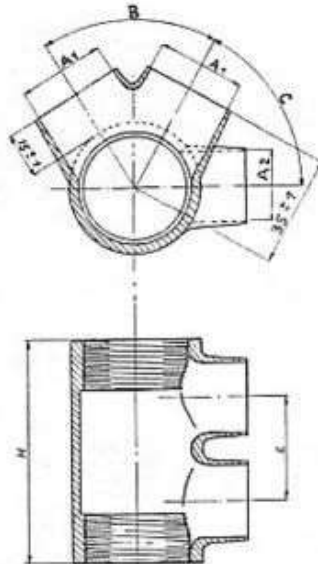
| Reference | Bores | | Angles | | Écart. E |
|-----------|-------|----|--------|-----|----------|
| | A1 | A2 | B | C | |
| 3003 | 28 | 22 | 59°30' | 64° | 32 |
| *3004 (1) | 26 | 20 | 61° | 67° | 35 |
| 3005 | 28 | 22 | 61° | 64° | 32 |
| *3006 (1) | 26 | 20 | 64° | 62° | 35 |
| *3008 (2) | 24 | 18 | 67° | 62° | 35 |
| 3010 | 28 | 22 | 64° | 62° | 32 |
| 3016 | 28 | 22 | 67° | 60° | 35 |
| 3022 | 28 | 22 | 67° | 62° | 35 |
| 3022bis | 28 | 22 | 67° | 64° | 35 |

- 1) Junior Model - (stock Size)
- 2) Child Model - (stock Size)

Bottom bracket shell references marked with an asterisk (*) form part of the standardised frame designs listed on page 13.



THREADED



Dimension H = 67 m/m for English Sizes

Dimension H = 68 m/m for French Sizes

On request, Dimension H can be from 66 to 70 m/m (Please specify on order)

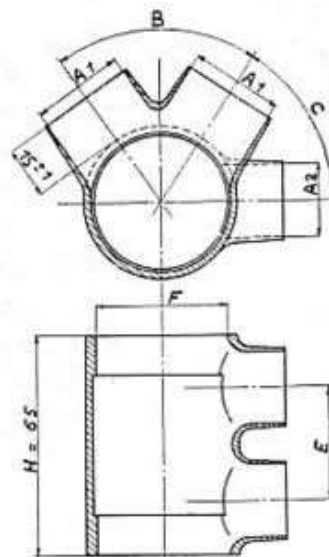
B. B. Shell Ref. 3008 Child, Dimension H = 60 m/m

ENGLISH SIZES

Threading : 1 3/8" D x 24 Threads
Left hand side threaded Right hand
Right hand side threaded Left hand

| Reference | Bores | | Angles | | Écart. E | |
|-----------|-------|------|--------|--------|----------|----|
| | A1 | A2 | B | C | | |
| 3003 | A | 28,6 | 22,2 | 59°30' | 64° | 32 |
| 3005 | A | 28,6 | 22,2 | 61° | 64° | 32 |
| 3010 | A | 28,6 | 22,2 | 64° | 62° | 32 |
| 3011 | A | 28,6 | 22,2 | 63° | 63° | 38 |
| 3012 | A | 28,6 | 22,2 | 64° | 60°30' | 35 |
| 3012bis | A | 28,6 | 22,2 | 64° | 62° | 35 |
| 3013 | A | 28,6 | 22,2 | 64° | 62° | 38 |
| 3014 | A | 28,6 | 22,2 | 66° | 63° | 38 |
| 3015 | A | 28,6 | 22,2 | 67° | 60° | 38 |
| 3016 | A | 28,6 | 22,2 | 67° | 60° | 35 |
| 3017 | A | 28,6 | 22,2 | 67° | 62° | 38 |
| 3019 | A | 28,6 | 19,05 | 67° | 62° | 38 |
| 3019bis | A | 28,6 | 19,05 | 70° | 62° | 38 |
| 3020 | A | 28,6 | 22,2 | 68°30' | 60° | 38 |
| 3020bis | A | 28,6 | 22,2 | 68°30' | 60° | 35 |
| 3021 | A | 28,6 | 22,2 | 68°30' | 61°30' | 35 |
| 3022 | A | 28,6 | 22,2 | 67° | 62° | 35 |
| 3024 | A | 28,6 | 22,2 | 69°30' | 59° | 35 |
| 3025 | A | 28,6 | 22,2 | 70° | 60° | 38 |
| 3025bis | A | 28,6 | 22,2 | 70° | 60° | 35 |
| 3026 | A | 28,6 | 22,2 | 71° | 59° | 35 |
| 3030 | A | 28,6 | 22,2 | 71°30' | 60° | 38 |
| 3030bis | A | 28,6 | 22,2 | 71°30' | 60° | 35 |

NOT THREADED (Smooth Bore)



H = 65 m/m

On request, Dimension H can be from 64 to 70 m/m

ENGLISH SIZES

(Not available in French Sizes)

| Référence | Bores | | Angles | | Écart. E | Diam. F |
|-----------|-------|------|--------|------------|----------|---------|
| | A1 | A2 | B | C | | |
| 3042 | A | 28,6 | 22,2 | 64° 60°30' | 35 | 38 |
| 3043 | A | 28,6 | 22,2 | 69°30' 58° | 35 | 38 |
| 3050 | A | 28,6 | 22,2 | 67° 60° | 35 | 40 |
| 3052 | A | 28,6 | 19,05 | 67° 62° | 35 | 40 |
| 3053 | A | 28,6 | 19,05 | 70° 62° | 35 | 40 |
| 3055 | A | 28,6 | 22,2 | 68°30' 60° | 35 | 40 |
| 3060 | A | 28,6 | 22,2 | 70° 60° | 35 | 40 |
| 3065 | A | 28,6 | 22,2 | 71°30' 60° | 35 | 40 |
| 3070 | A | 28,6 | 22,2 | 67° 60° | 35 | 45 |
| 3075 | A | 28,6 | 22,2 | 68°30' 60° | 35 | 45 |
| 3080 | A | 28,6 | 22,2 | 70° 60° | 35 | 45 |
| 3085 | A | 28,6 | 22,2 | 71°30' 60° | 35 | 45 |



BOTTOM BRACKET SHELL "V" Pattern

(for Straight rear fork stays)

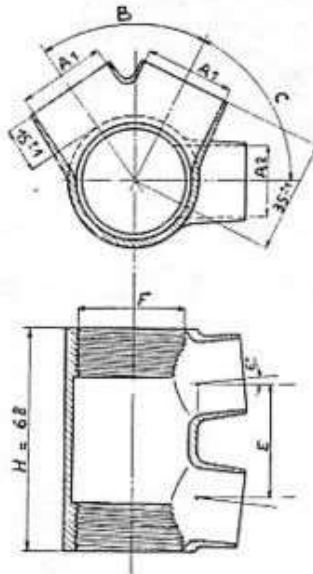
FRENCH SIZES

Threading : 35x100 Right hand both sides

| Référence | Bores | | Angles | | Écart. E |
|-----------|-------|----|--------|-----|----------|
| | A1 | A2 | B | C | |
| 3100 | 28 | 22 | 59°30' | 60° | 35 |
| 3100bis | 28 | 22 | 59°30' | 61° | 35 |
| 3100ter | 28 | 22 | 59°30' | 62° | 35 |
| *3101 | 28 | 22 | 58° | 64° | 38 |
| 3101bis | 28 | 22 | 58° | 66° | 38 |
| 3102 | 28 | 22 | 59°30' | 64° | 35 |
| *3103 | 28 | 22 | 59°30' | 64° | 38 |
| 3103bis | 28 | 20 | 59°30' | 64° | 38 |
| 3104 | 28 | 20 | 61° | 64° | 38 |
| *3105 | 28 | 22 | 61° | 64° | 38 |
| 3105bis | 28 | 22 | 62° | 64° | 38 |
| 3106 | 28 | 22 | 62°30' | 63° | 38 |
| 3107 | 28 | 22 | 62°30' | 63° | 35 |
| 3108 | 28 | 20 | 61° | 64° | 35 |
| 3109 | 28 | 22 | 64° | 62° | 35 |
| 3110 | 28 | 22 | 64° | 62° | 38 |
| *3111 (1) | 26 | 20 | 61° | 67° | 35 |
| *3112 (1) | 26 | 20 | 64° | 62° | 35 |
| 3113 | 28 | 22 | 58° | 64° | 35 |
| 3114 | 28 | 22 | 61° | 64° | 35 |
| *3116 (2) | 24 | 18 | 67° | 62° | 35 |
| 3125 | 28 | 22 | 60° | 64° | 36,5 |

- 1) Junior Model
- 2) Child Model

THREADED



Dimension H = 67 m/m for English Sizes

Dimension H = 68 m/m for French Sizes

On request, Dimension H can be from 66 to 70 m/m (Please specify on order)

ENGLISH SIZES

Threading : 1 3/8" D x 24 Threads

Left hand side threaded Right hand
Right hand side threaded Left hand

| Référence | Bores | | Angles | | Écart. E |
|-----------|-------|-------|--------|--------|----------|
| | A1 | A2 | B | C | |
| 3101 A | 28,6 | 22,2 | 58° | 64° | 38 |
| 3102 A | 28,6 | 19,05 | 59°30' | 64° | 38 |
| 3102bis A | 28,6 | 22,2 | 59°30' | 64° | 35 |
| 3103 A | 28,6 | 22,2 | 59°30' | 64° | 38 |
| 3104 A | 28,6 | 19,05 | 61° | 64° | 38 |
| 3105 A | 28,6 | 22,2 | 61° | 64° | 38 |
| 3106 A | 28,6 | 22,2 | 62°30' | 63° | 38 |
| 3106bis A | 28,6 | 20 | 62°30' | 63° | 38 |
| 3107 A | 28,6 | 22,2 | 62°30' | 63° | 35 |
| 3109 A | 28,6 | 22,2 | 63° | 61°30' | 38 |
| 3109bis A | 28,6 | 22,2 | 64° | 62° | 35 |
| 3110 A | 28,6 | 22,2 | 64° | 62° | 38 |
| 3111 A | 28,6 | 19,05 | 64° | 61° | 38 |
| 3113bis A | 28,6 | 22,2 | 58° | 64° | 35 |
| 3114bis A | 28,6 | 22,2 | 61° | 64° | 35 |
| 3115 A | 28,6 | 22,2 | 67° | 60° | 38 |
| 3117 A | 28,6 | 22,2 | 67° | 62° | 38 |
| 3118 A | 28,6 | 19,05 | 61° | 64° | 35 |

Bottom Bracket Shell References marked with an asterisk (*) form part of the standardised Frame designs listed on Page 13.



NOT THREADED (Smooth Bore)

ENGLISH SIZES

| Référence | Bores | | Angles | | Écart. E | Diamètre F |
|-----------|-------|-------|--------|-----|----------|------------|
| | A1 | A2 | B | C | | |
| 3113 A | 28,6 | 19,05 | 64° | 61° | 35 | 45 |
| 3150 A | 28,6 | 22,2 | 69° | 57° | 35 | 38 |
| 3151 A | 28,6 | 22,2 | 69°30' | 57° | 35 | 38 |
| 3152 A | 28,6 | 22,2 | 69°30' | 59° | 35 | 38 |

Not available in French Sizes

Dimension H
On request, Dimension H can be from 66 to 70 m/m (Please specify on order)



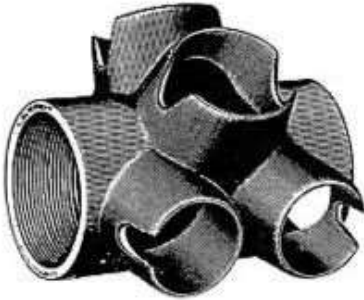
BOTTOM BRACKET SHELLS - NOZZLE CUTS

"Serie Legere" B.B. Shells are available with Nozzle Cuts Pattern 153, 158, 159, 161 as illustrated below. Other Nozzle Cuts available for special orders.

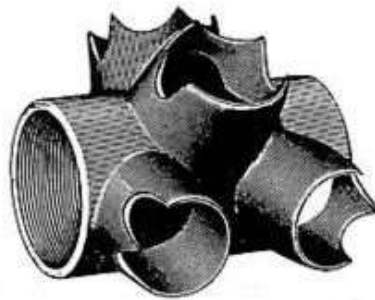
"Professional" B.B. Shell is delivered with Nozzle cut Pattern 162 only.

"Child" B.B. Shells available in Nozzle Cut 153 only.

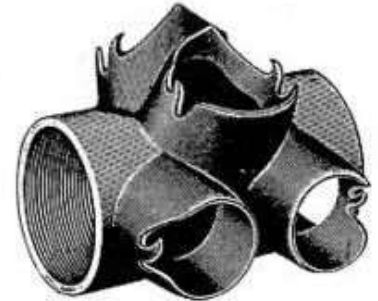
"Junior" B.B. Shells available in Nozzle Cuts 158, 159.



Nozzle Cut 153

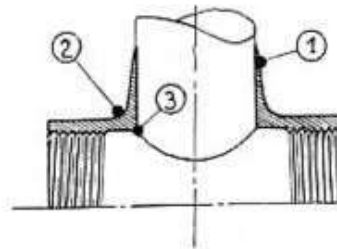
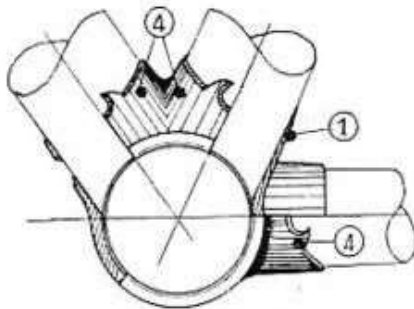


Nozzle Cuts 158 - 159



Nozzle Cut 161

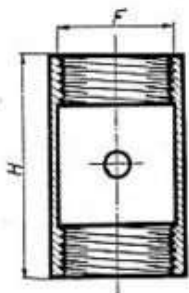
THE EXCLUSIVE NERVEX BOTTOM BRACKET SHELL



To manufacture a Bottom Bracket Shell is no easy matter, to make the NERVEX Bottom Bracket Shell is a feat of mechanical Engineering.

The NERVEX B.B. Shell is made from pressed and drawn steel throughout. Threading for the cups is made in the mass Nozzles being thinned out at the extremities require very Technique, the shell does NOT deform when brazing. The itself, As a result of the exclusive NERVEX Manufacturing little filing down. These advantages save considerable time and labour in Frame Building.

- 1) Nozzles thick at the base for strength, are thinner at the extremities
- 2) Base of the Nozzles Re-inforced on the Outside for Strength.
- 3) Base of the Nozzles Re-inforced on the Inside for Strength.
- 2 & 3) This re-inforcing feature is an exclusive NERVEX design, essential to Frame Safety. Maximum Shell rigidity allied to lightness is thus achieved, eliminating Shell distortion, a cause of chain jumping in Sports and Racing Bicycles. Under strenuous Pedalling, shell distortion will cause oscillations at the chainwheel and this results in chain "derailing". This defect does not exist with Nervex Shells but is prevalent in other shells lacking rigidity.
- 4) Special design of the points of contact between the tubes and stays in the shell Nozzles permit optimum distribution of strain and eliminates localisation of vibrations.

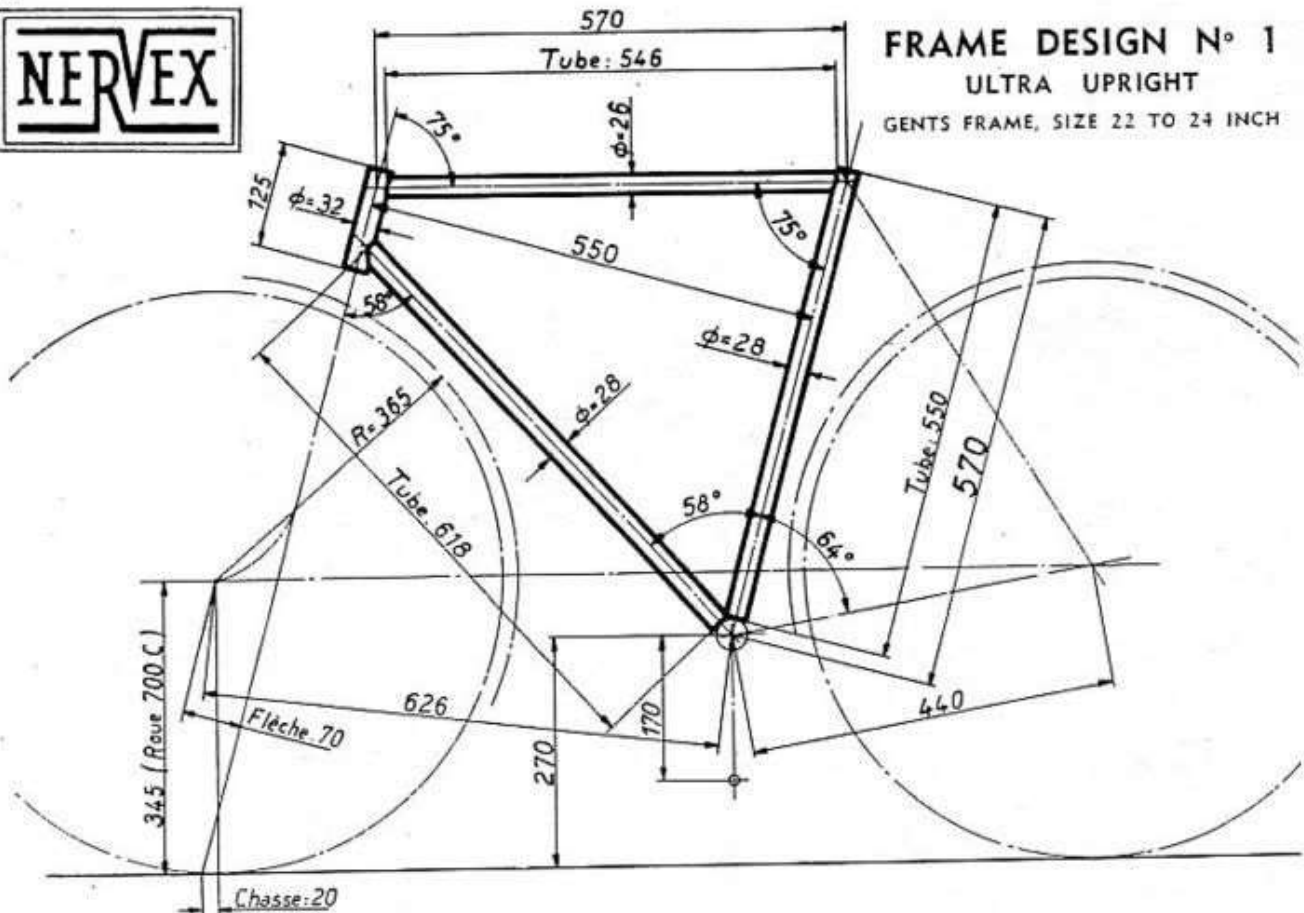


BOTTOM BRACKET SHELLS FOR WELDED FRAMES

| Réference | H | F |
|-----------|----|--|
| 3325 | 60 | French Size Threading 35 x 100 Right Hand both sides |
| 3300 | 68 | |
| 3325 A | 60 | English Size Threading 1 3/8" D x 24 Threads Left hand side threaded right hand Right hand side threaded left hand |
| 3300 A | 68 | |



On request dimension H can be made to Customer's Specification. Current Sizes, H = 72, 90, 100, 120 mm.



FRAME DESIGN N° 1
ULTRA UPRIGHT
GENTS FRAME, SIZE 22 TO 24 INCH

COMPOSITION AND ORDERING

YOUR ORDER : (code for standard specification).

- One NERVEX lug set, "Professional" model 49/162 for frame design N° 1, boxed. (English/French size - specify).
- One NERVEX lug set, "Serie Legere" model..... (specify reference of feature cut and nozzle cut required), for frame design N° 1, boxed. (English/French size - specify).

WE SHALL DELIVER :

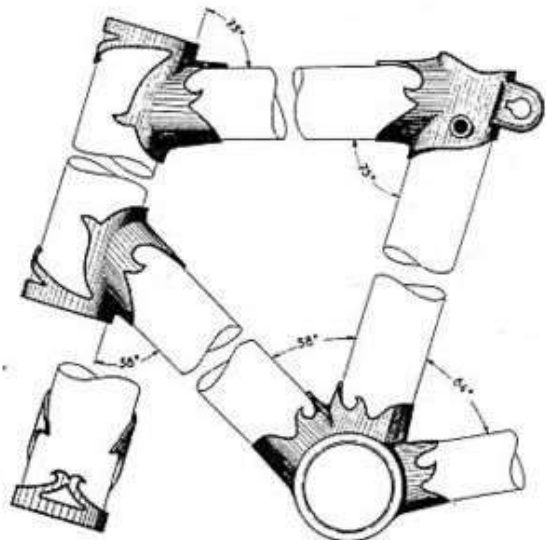
One box containing the following in the model lug set you ordered

- One - Head lug, top
- One - Head lug, bottom
- One - Seat lug, top and bottom cut
 - ° a) without spigot for "Professional" model
 - ° b) with spigot EF for all "Serie Legere" models
- One - Bottom bracket shell "V" Pattern, H = 67 m/m

INDIVIDUAL LUG REFERENCES (Pages 4 to 12)

| French size | English size | Angles | Weight - gr. average |
|-------------|--------------|---------|----------------------|
| 229 | 229A | 75° | 40 |
| 235 | 235A | 58° | 40 |
| 407 | 407A | 75° | 50 |
| 3101 | 3101A | 58°x64° | 180 |

- ° NOTE : If you require the seat lug different from the type described above, refer to page 9 for the correct code specification and add to your order, as per heading a) and b) above.



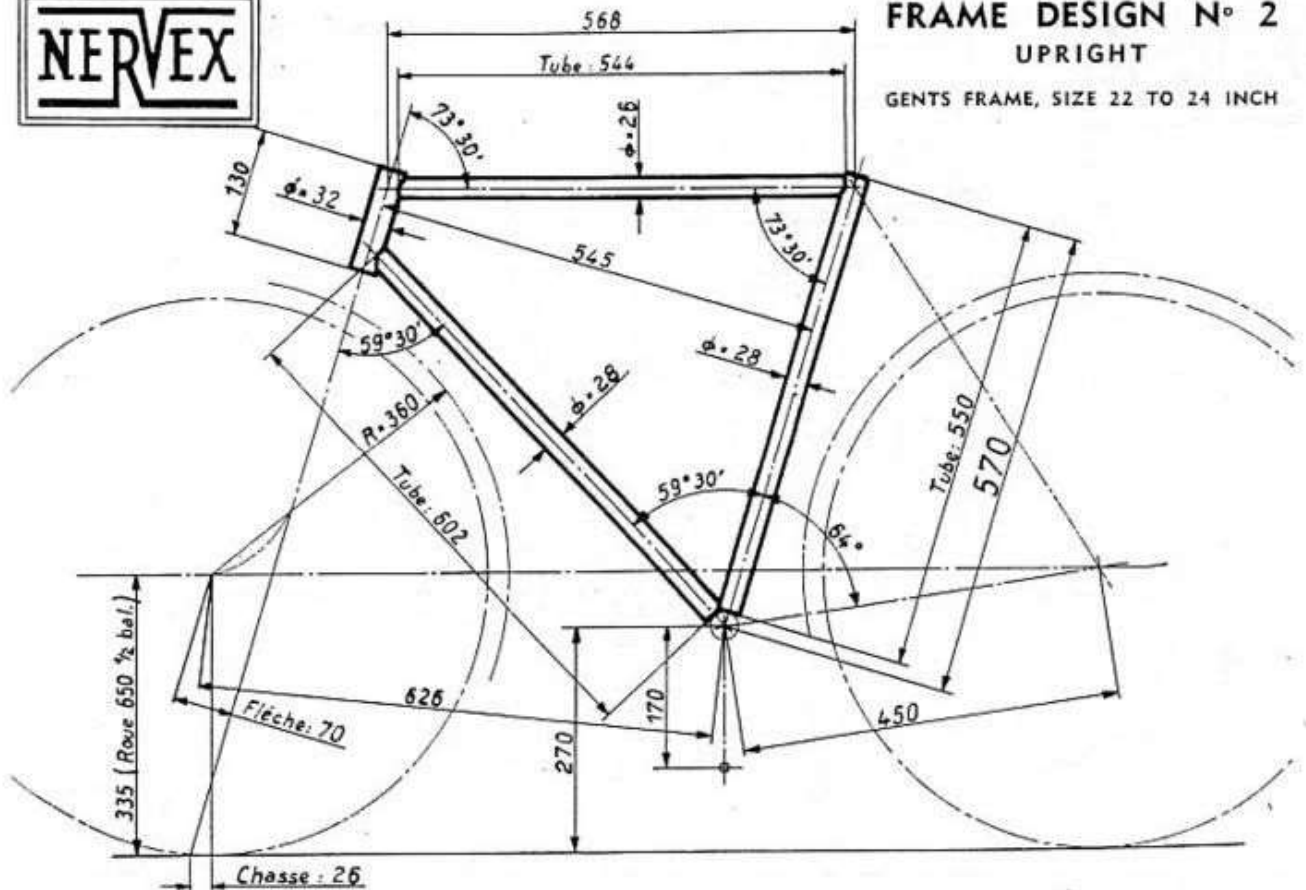
MODELS

Lug sets for frame design N° 1 are readily available in sets Models 45/159, 48/161, 49/162 (see illustrations on pages 5, 6, 7). Other models on request.

STANDARD PACKING 150 sets per case - GW : 61 kg - NW : 49 kg - Measurements : 75 cm x 55 cm x 42 cm
134 lb - 108 lb - 2'6" x 1'10" x 1'4 1/2"

FRAME DESIGN N° 2 UPRIGHT

GENTS FRAME, SIZE 22 TO 24 INCH



COMPOSITION AND ORDERING

YOUR ORDER : (code for standard specification).

- One NERVEX lug set, "Professional" model 49/162 for frame design N° 2, boxed. (English/French size - specify).
- One NERVEX lug set, "Serie Legere" model..... (specify reference of feature cut and nozzle cut required), for frame design N° 2, boxed. (English/French size - specify).

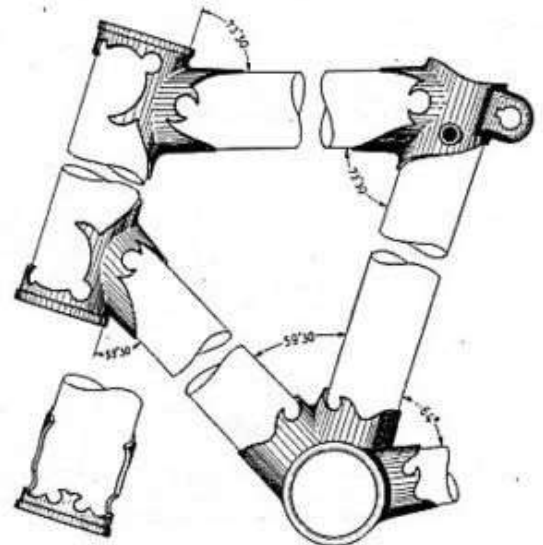
WE SHALL DELIVER :

One box containing the following in the model lug set you ordered

INDIVIDUAL LUG REFERENCES (Pages 4 to 12)

| | French size | English size | Angles | Weight-gr. average |
|---|-------------|--------------|--------------|--------------------|
| One - Head lug, top | 228 | 228A | 73.30° | 40 |
| One - Head lug, bottom | 236 | 236A | 59.30° | 40 |
| One - Seat lug, top and bottom cut ° a) without spigot for "Professional" model ° b) with spigot EF for all "Serie Legere" models | 406 | 406A | 73.30° | 55 |
| One - Bottom bracket shell "V" Pattern, H = 67 m/m | 3103 | 3103A | 59.30° x 64° | 180 |

* NOTE : If you require the seat lug different from the type described above, refer to page 9 for the correct code specification and add to your order, as per heading a) and b) above.



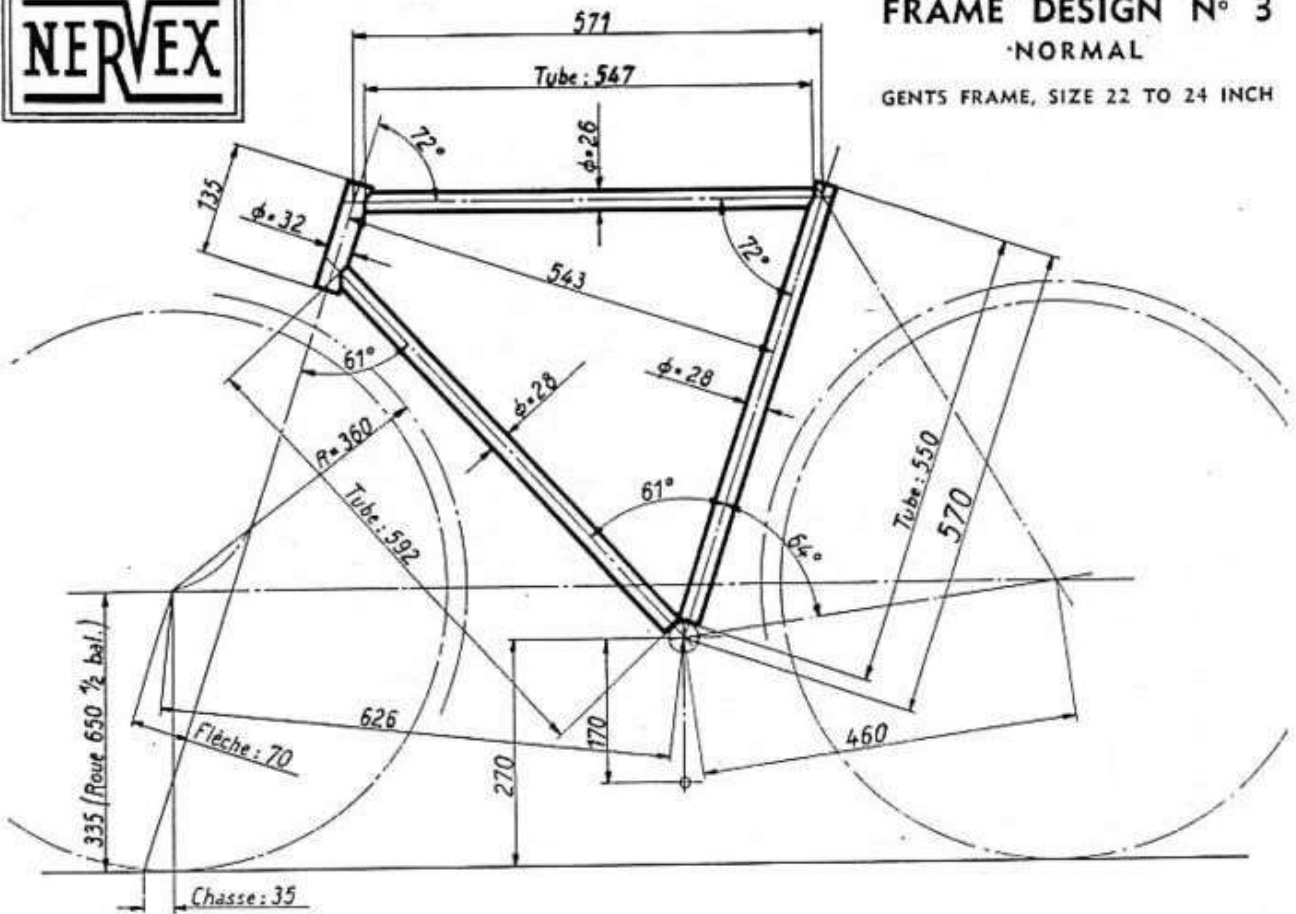
MODELS

Lug sets for frame design N° 2 are readily available in sets Models 85/156, 86 bis/158, 45/159, 48/161 49/162 (see illustrations on pages 5, 6, 7). Other models on request.

STANDARD PACKING : 150 sets per case - GW : 61 kg - NW : 49 kg - Measurements : 75 cm x 55 cm x 42 cm
134 lb - 108 lb - 2'6" x 1'10" x 1'4 1/2"



FRAME DESIGN N° 3
 -NORMAL
 GENTS FRAME, SIZE 22 TO 24 INCH



COMPOSITION AND ORDERING

YOUR ORDER : (code for standard specification).

- a) One NERVEX lug set, "Professional" model 49/162 for frame design N° 3, boxed. (English/French size - specify).
- b) One NERVEX lug set, "Serie Legere" model.... (specify reference of feature cut and nozzle cut required), for frame design N° 3, boxed. (English/French size - specify).

WE SHALL DELIVER :

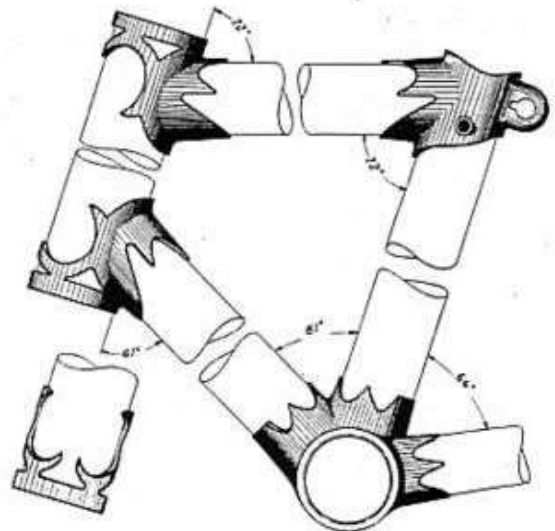
One box containing the following in the model lug set you ordered

- One - Head lug, top
- One - Head lug, bottom
- One - Seat lug, top and bottom cut
 - ° a) without spigot for "Professional" model
 - ° b) with spigot EF for all "Serie Legere" models
- One - Bottom bracket shell "V" Pattern, H = 67 m/m

INDIVIDUAL LUG REFERENCES
 (Pages 4 to 12)

| French size | English size | Angles | Weight - gr. average |
|-------------|--------------|---------|----------------------|
| 227 | 227A | 72° | 40 |
| 237 | 237A | 61° | 40 |
| 405 | 405A | 72° | 55 |
| 3105 | 3105A | 61°x64° | 180 |

° NOTE : If you require the seat lug different from the type described above, refer to page 9 for the correct code specification and add to your order, as per heading a) and b) above.



MODELS

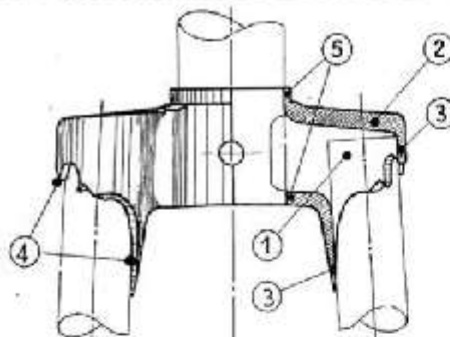
Lug sets for frame design N° 3 are readily available in sets Models 85/156, 86 bis/158, 45/159, 48/161 49/162 (see illustrations on pages 5, 6, 7). Other models on request.

STANDARD PACKING 150 sets per case - GW : 61 kg - NW : 49 kg - Measurements : 75 cm x 55 cm x 42 cm
 134 lb - 108 lb - 2'6" x 1'10" x 1'4 1/2"



FORK CROWNS

OUR MANUFACTURING TECHNIQUE



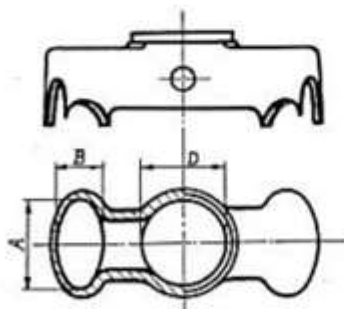
Like our Bottom Bracket Shells, NERVEX "construction" of FORK CROWNS is unique. In most pressed steel Fork Crowns, the metal thickness is at its lowest where it is required most : ..at the Bends. NERVEX Fork Crowns are so designed that Maximum metal strength is available in the right spots.

- 1) Hollow Body of the Crown avoids a line of continuity between the Fork Column and the Fork Blades. When this continuity exists as in some cast Fork Crowns, breakage can occur through metal cristallisation caused by the vibrations of the Fork.
This defect does NOT exist with NERVEX Fork Crowns.
- 2) The main body of the Fork Crown is 3 m/m thick. This matches and blends with the Gauge of the Fork Column/Tube.
- 3) Gradual decreasing thickness from the Crown's Body-Bends-Tips, (— 3 - 2,5 - 1,5 m/m), gives optimum progressive adherence to the fork blades.
- 2 & 3) Also, Progressive thickness at the JOIN Fork Column to Crown.
This ensures :
 - During Brazing, AN OVERALL EQUAL TEMPERATURE is applied on all parts of the Crown.
This is important, since if unequal temperatures are applied at various points, there is the grave risk of overheating which will weaken the metal of the Blades, the Crown and the Column at their points of contact.
This risk is negligible with NERVEX Fork Crowns.
 - Maximum elasticity all along the Fork is achieved.
- 4) Adherence points of the crown to the blades are at optimum through a calculated design. This avoids localisation of vibrations and reduces breakages as a result of metal cristallisation.
- 5) Design of Fork Crown ensures maximum adherence surface between the Fork Crown and the Fork Column.

FORK CROWNS AND COVERS

" JUVENILE "

(between blades : 59 m/m)



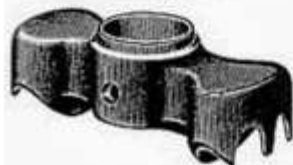
| FORK CROWN Reference | A | B | D | Weight | COVER Reference |
|----------------------|----|----|----|---------|-----------------|
| 2505 | 26 | 14 | 23 | 100 gr. | 2570 |
| 2506 | 26 | 14 | 25 | 100 gr. | 2571 |



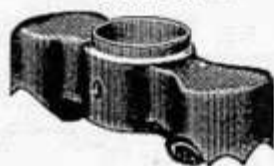
Steel cover, self colour or chrome plated



Fork crown, Pattern No 2



Pattern No 1



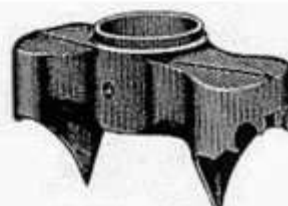
Pattern No 4



Pattern No 6



Pattern No 7 (SPORT and TOURIST)



Pattern No 5 "PROFESSIONAL"