THE

AERONAUTICAL JOURNAL.

The
Organ of the
Aëronautical Society
of
Great Britain.

Entered at Stationers' Hall.



Edited for the Council of the Aëronautical Society of Great Britain by

W. Barnard Faraday, LL.B., F.S.S.

Price to Non-Members and Non-Subscribers, 2s. 9d. post free.

No. 86.

FEBRUARY, 1918.

Vol. XXII.

VICKERS LIMITED.

Contractors to the WAR OFFICE & ADMIRALTY.

Aviation Department, Imperial Court, Basil Street, KNIGHTSBRIDGE, S.W.3.

Telephone
No 6810 KENSINGTON (2 lines).



Telegraphic Address:
"VICKERFYTA-KNIGHTS, LONDON."



C.D.C.

C. C. WAKEFIELD & CO., Ltd., Wakefield House, Cheapside, London, E.C.2. (SIR CHARLES WAKEFIELD, Bart., Governing Director.)



CONTRACTORS
TO THE
WAR OFFICE AND ADMIRALTY
LIVERPOOL HAMMERSMITH LANCASTER



Head Office: OXFORD STREET, W.1.

TELEGRAMS: HAMMERSMITH 1980. "Warings Factories, Hammersmith."

SANDERSON BROTHERS & NEWBOULD, LTD.,

ATTERCLIFFE FORGE and ROLLING MILLS,
SHEFFIELD.

Makers of High-Class

AIRCRAFT STEELS

Either Rolled or Heat Treated to

AIR-BOARD SPECIFICATIONS.

Ask for our Special Book on

HIGH TENSILE STEELS.





Contractors for Aeroplanes and Aeroplane Engines to His Majesty's Government Aeroplanes and Aeroplane Engines constructed to Government Designs Manufacturers of Siddeley-Deasy Motor Carriages of Perfect Comfort



CONTRACTORS TO THE ADMIRALTY.

ESTABLISHED 1912.

SUPERMARINE AVIATION WORKS

LIMITED.

Telegrams-"SUPERMARINE."

Telephone-1337_SOUTHAMPTON Designers and Constructors of AIRCRAF

FLYING WATER AND SLIPWAYS:

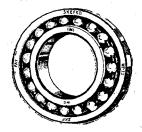
WOOLSTON.

General Manager-H. SCOTT-PAINE. Speciality-

- RAPID PRODUCTION OF -EXPERIMENTAL MACHINES.

OFFICES AND WORKS: SOUTHAMPTON, ENGLAND.

"SKEFKO".SKF



THE EMBODIMENT OF ALL THAT IS PERFECT IN BALL BEARINGS.

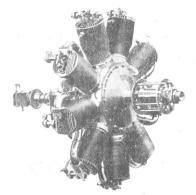
The SKEFKO Ball Bearing Co., Ltd. Head Office and Works · Luton, England.

London Office: 28, Victoria St., Westminster. S.W.1.
Glasgow Office - 45, Bothwell Street.
Parent Factory: A. B. Svenska Kullagerfabriken, Gothenburg, Sweden.

W. H. ALLEN



SON & CO. LTD.



AIRCRAFT ENGINES

Queen's Engineering Works, Bedford.





AEROPLANE DOPE and VARNISH MANUFACTURERS.

TELEGRAMS. LONDON, E.C. "I EFHONE!

AJAWB, AVE, LONDON.

LONDON, VALL: 5359.

WORKS: STIRLING CHEMICAL WORKS, STRATFORD, LONDON, E.

G.H.W

"NIEUPORT"

AND -

General Aircraft Company, Ltd.

Contractors to H.M. Government.

REGISTERED OFFICE AND WORKS:

LANGTON ROAD, CRICKLEWOOD, LONDON, N.W.2.

Telephone (3 lines): WILLESDEN 2455.

Telegrams:

NIEUSCOUT, CRICKLE, LONDON



AEROPLANES PARTS.

A. V. Roe & Co., Ltd.,

HAMBLE (Near SOUTHAMPTON.)

TELEPHONE: HAMBLE 18, TELEGRAMS: ROE, HAMBLE. NEWTON HEATH, MANCHESTER.

TELEPHONES: CITY 8530 & 8531. TELEGRAMS: TRIPLANE. 166, PICCADILLY, LONDON, W.1.

TELEPHONE: GERRARD 3186. TELEGRAMS: SENALPIRT, PHONE.

PETTERS LIMITED.

AIRCRAFT CONSTRUCTORS TO THE ADMIRALTY.

Orders can be accepted for Complete Machines Propellers Parts.

WESTLAND AIRCRAFT WORKS

(Branch of Petters Limited), YEOVIL. ENGLAND.

Telegrams: "Airgraft-Yeovil."

Telephone: Yeovil 129.



IMPORTANT NOTICE

TO ALL



Engineering Firms

. . . AND . . .

Aircraft Manufacturers.

We beg to call your attention to the following work that we specialise in, and solicit your valued inquiries. We can quote prices and deliveries that will be attractive to you for all classes of work, or to any special specification and requirements for all work in connection with Ministry, Admiralty, or Air Board.

Drop Stampings and Forgings for all purposes, in Steel and Iron.

Brass or Bronze (Hot Stampings).

Sand or Die Castings in All Metals.

Sheet Metal Pressings.

Soft Grey Iron Castings; Malleable Iron and Cast Steel Castings.

Wood Wheels; Axles; Swingle Trees; Chain Work; Leather Work, and General Iron Work for all types General Service Vehicles.

ALSO

Component Parts in Steel Forgings or Stampings for Aeroplane Work, including A.G.S. No. 158 Shackles; Steel Stampings, sizes A, B, C, D, E & F.

THE ANGER MANUFACTURING AND SUPPLY CO., LIMITED,

PRESTON, Lancashire.

Telephone: 1033. Telegrams: "Brakjuster, Preston."



THE BRITISH AND COLONIAL AEROPLANE Co., Ltd.,

FILTON, BRISTOL.

CONSTRUCTORS OF



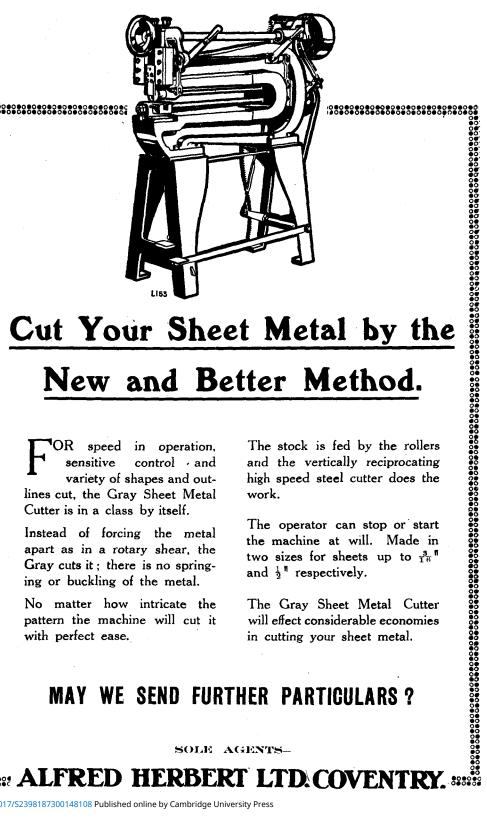
CONTRACTORS TO

H.M. AIR FORCES.

TELEGRAMS:
"AVIATION. FILTON."



TELEPHONES: 3906 BRISTUL.



Cut Your Sheet Metal by the

New and Better Method.

OR speed in operation, sensitive control . and variety of shapes and outlines cut, the Gray Sheet Metal Cutter is in a class by itself.

Instead of forcing the metal apart as in a rotary shear, the Gray cuts it; there is no springing or buckling of the metal.

No matter how intricate the pattern the machine will cut it with perfect ease.

MAY WE SEND FURTHER PARTICULARS?

TELEPHONE:-

OFFICE ... 912 REGENT.

WORKS ... 4762 KENSINGTON.
... 281-2-3 WEMBLEY.

TELEGRAMS:-"SOCIABLE, PHONE, LONDON."

HOOPER & CO.



AEROPLANE BUILDERS TO H.M. AIR COUNCIL.



BY ROYAL WARRANT.



BY ROYAL WARRANT.



BY ROYAL WARRANT.

MOTOR BODY-BUILDERS AND COACHBUILDERS

BY APPOINTMENT TO

H.M. THE KING H.M. THE QUEEN H.M. QUEEN ALEXANDRA

54, St. James's Street,
PICCADILLY, LONDON, S.W.1

JAMES W. SOUTHERN & Son L., Manchester



GWYNNES

LIMITED.

CONTRACTORS TO H.M. ADMIRALTY AND WAR OFFICE.

SOLE LICENSEES AND MANUFACTURERS IN THE BRITISH EMPIRE

OF THE

"CLERGET" PATENT AERO ENGINES



works offices: Crisp Road, Hammersmith, W. 6. Church Wharf, Chiswick, W. 4. LONDON.

Telephones: {1910 Hammersmith (3 lines).

Telegrams: "Gwynne, London."

Woodside Engineering Company, Limited, Possilpark, Glasgow.

AEROPLANE TIERODS

IN

STREAMLINE & ROUND SECTIONS

COMPLETE WITH

:: UNIVERSAL OR FORK JOINTS ::

LARGE STOCKS.

PROMPT DELIVERY.

WORKS: 1495 DOUGLAS (2 Lines). OFFICE: 3456 CENTRAL (3 Lines).

(Private Branch Exchange).

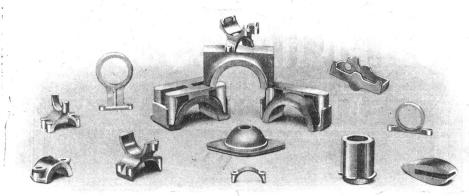
TELEGRAMS: "FUSELAGE," GLASGOW.

Registered Office:

50, WELLINGTON STREET, GLASGOW.



AERATORS, Limited.
PRANA WORKS, EDMONTON, LONDON, N.18.



ALUMINIUM DIE CASTINGS for ALL PURPOSES.

Speciality-

ALUMINIUM CASTINGS for AERO ENGINES, FIELD TELEPHONES, Etc., Etc.

WE MAKE TO ORDER-

ALLOYS

Involving the use of the following:

ALUMINIUM ANTIMONY BISMUTH BORON BERYLLIUM CHROMIUM COBALT
CADMIUM
COPPER
IRON
LEAD
MAGNESIUM

MANGANESE
MOLYBDENUM
NICKEL
SILICON
TIN
TITANIUM

Tungsten Tantalum Uranium Vanadium Zinc Zirconium

METALS.

MINERALS.

THERMIT.

THE BRITISH THERMIT COMPANY, Limited,
49 TO 55, THE ALBANY,
LIVERPOOL.

Telegrams: "Thermetal, Liverpool."

Works: GARSTON.





There is no element of speculation

about the cutting value, durability and quality of a Twist Drill bearing the name "B.S.A." The fact that thousands of B.S.A. Twist Drills are daily employed in the manufacture of the famous B.S.A. Productions is the finest possible recommendation. The B.S.A. name has been associated with highest quality of material and workmanship for over half-a-century.

WRITE FOR LATEST CATALOGUE.



SELLING AGENTS FOR ENGLAND:

Manufactured by the Birmingham Small Arms Co., Ltd., Birmingham.

BURTON, GRIFFITHS & CO., Ltd.,

1. LUDGATE SQUARE, LUDGATE HILL, LONDON, E.C.4.

ALSO AT BIRMINGHAM, MANCHESTER & GLASGOW.

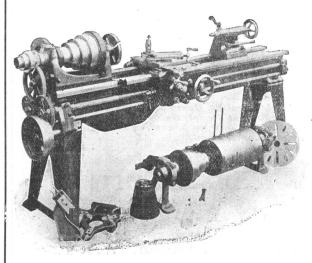
(No. 1.)

Telegrams:
"Capstan, Birmingham."

CENTAUR

Telephone:
208-209 Smethwick.

MACHINE TOOLS



SPECIFICATION

	Height of Ce	ntre	***			7in.			
	Takes between	en Ce	ntres		3	ft. 3in.			
	Standard len	gth o	of Bed			6ft.			
	Largest step	of Co	one			9in.			
	Width of Co.	ne				21in.			
	Diameter of h	ole th	rough	Spir	idle	18in.			
	Size of Coun	tersha	ift Pu	lleys	10in.	×51in.			
	Speed								
	work)				120 F	R.P.M.			
4	Swing over co								
	Travel of top								
	Pitch of leading screw 6 threads per in.								
	Approximate	weigh	it (pac	eked 1	for				
			ship	ment) 1	7 cwt.			
	,,	,,				ewt.			
			-:::						

Makers-

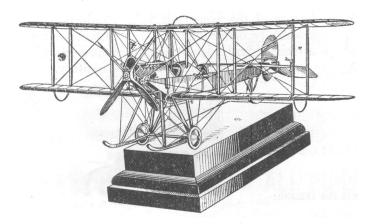
Centaur Tool Works

LTD

SMETHWICK: BIRMINGHAM.

Makers to British, French, and Russian Governments.





Aeroplane Models

THE Silver Model of an Aeroplane illustrated shows how technical knowledge and skilled workmanship are allied in the models produced by the Goldsmiths and Silversmiths Company.

Infinite care is taken to ensure every detail being accurate and of proper proportions, and to reproduce an exact replica of the original.

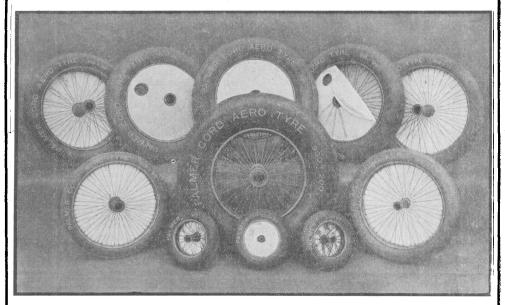
Modelscan be prepared from the original or from a photograph. Estimates and designs will be submitted free upon application.

The Goldsmiths and Silversmiths Company have no other establishments in Regent Street, Oxford Street, or anywhere else in London, and no branches in the Provinces or Abroad.

GOLDSMITHS & SILVERSMITHS COMPANY LTD with which is incorporated The Goldsmiths following the follow

112, Regent Street, London, W. I.

PALMER Landing Wheels and Tyres.



STANDARD SIZES:

Tyre	Wheel No.	Hub.		Track	Tyre	Wheel	Hub.		Track	
Sizes.		Length	Bore.	Line.	Sizes.	No.	Length.	Bore.	Line.	
		m/m	m/m	m/m		1	m/m	m/m	m/m	
300 x 60	16	111.12	25.4	Cent al	700 x 100	96	178.	55.	132/46	
,, .	17	72.39	12.7	Central	750 x 125	92	185.	55.	135/50	
450 x 60	30	89.	31 75	Central	,,	95	185.	55.	Central	
575 x 60	111	150.	38.09	104/46	,,	77	178.	44.45	132/46	
1 ,,	21	160.	28.	Central	,,	93	150.	40.	Central	
, ,	34	150.	31.75	104/46	,,	33	150.	38.09	Central	
650 x 65	78	178.	44.45	132/46	,,	99	178.	38.89	132/46	
,,	100	178.	38.09	132/46		96	178.	55.	132/46	
	101	178.	31.75	132/46	800 x 150	82	185.	55.	135/50	
600 x 75	111	150.	38.09	104/46	,,	85	185.	55.	Central	
,,	21	160.	28.	Central] ;;	†36	185.	55.	135/50	
	34	150.	31.75	104/46	l "	†40	185.	60.32	135/50	
700 x 75	78	178.	44.45	132 46	1000 x 150	97	250.	65.4	Central	
, , ,	100	178.	38.09	132/46	,,	102	185.	55.	125/60	
1 "	101	178.	31.75	132/46		201	185.	60.32	125/60	
1 ",	*80	178.	44.45	132/46	900 x 200	39	185	55.	Central	
"	*91	178.	31.75	132/46		42	185.	60.32	125/60	
	*98	178.	44.45	Central	",	47	185.	55.	125/60	
700 x 100	92	185	. 55.	135/50		202	185.	60.32	Central	
,,	95	185.	55.	Central	1100 x 200	52	185,	55.	116/69	
",	77	178	41.45	132/46		57	185.	55	Central	
] ;;	93	150	40.	Central	,,	203	185.	60 32	116/69	
, ,	33	150.	38, 09	Central	1	201	185.	60.32	Central	
] "	99	178	38.89	132/46		203	. 200.		Centrat	

^{*} Wheels Nos. 80, 91 and 98 are fitted with a wider and stronger rim, and the 700 x 75 tyres when fitted to this rimicaliper 83 m.m.

THE PALMER TYRE LIMITED,

Contractors to the Admiralty and to the War Office, 119, 121, 123, SHAFTESBURY AVENUE, LONDON, W.C.2.

Telegrams: "TYRICORD, WESTCENT, LONDON."

Telephone: GERRARD 1214 (Five Lines).

PARIS: 24. Boulevard de Villiers, Levallois-Perret.

[†] Wheels Nos. 36 and 40 are of stronger type than the other wheels for 800 x 150 tyres.

HIDE GLUES

FOR

AIRSCREWS

AND

AIRCRAFT CONSTRUCTION.

APPROVED BY
H.M. ADMIRALTY and A.I.D.

Manufacturers—

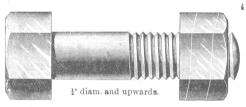
WM. OLDROYD & SONS, Ltd., 9, MINCING LANE, LONDON,

TELEPHONE
4978 Avenue.

E.C. 3.

BOLTS & NUTS.

ENGINEERS' MILD STEEL STUDS, Etc.



"HELICOID" LOCK-NUT

A GOIL OF STEEL.
VIBRATION ACTUALLY
TIGHTENS THE GRIP.



MADE FROM IN. TO 2111.

CATALOGUE FREE ON APPLICATION.

BAYLISS, JONES & BAYLISS, Ltd.

WOLVERHAMPTON.

LONDON OFFICES & SHOWROOMS:-139/141, CANNON STREET, E.C. 4.

For many years Engineers who used leather for clutches and brakes have substituted FERODO FRICTION SURFACES which are vastly more efficient.

Over twenty years ago we invented Ferodo Fabrics. Since then, by specialising on the one product, and as a result of practical experience, we have so improved them that they are to-day readily acknowledged to be the finest friction surfaces in the world.

They are entirely unaffected by water, oil or acid, and absorb more foot lbs. of energy per square inch than any other material known. Wood and leather linings char and quickly wear out. Ferodo Fabrics are spark-proof and non-inflammable.

Ferodo Fabrics have the name stamped on each foot. Look for it when ordering your new linings.



FRICTON SURFACES

Contractors to the War Office and Admiralty, London General Omnibus Company, and Underground Electric Railways of London and Paris. List "A.J." from

THE HERBERT FROOD CO., LTD.

Works: CHAPEL-EN-LE-FRITH.

'Phone-19 and 20 Chapel. Wires-" Friction, Chapel."

Depots at London, Birmingham, Belfast, Bristol, Cardiff, Edinburgh, Glasgow,

Liverpool, Manchester and Newcastle.



ALUMINIUM CYLINDERS.

WATER AND AIR COOLED.

ALUMINIUM CASTINGS

Of every description for

AEROPLANE AND MOTOR ENGINES

IN SPECIAL STRONG LIGHT ALLOYS.

CAST IRON CYLINDERS

WATER AND AIR COOLED

FOR

AEROPLANE & MOTOR ENGINES.

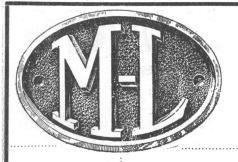
WILLIAM MILLS, Ltd.,

Contractors to H.M. Government,

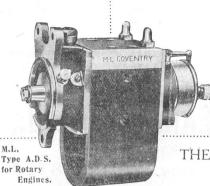
Grove Street,

Telegrams -- "WILMIL, BIRMINGHAM."
Telephone-SMETHWICK 9.

BIRMINGHAM,



All British Magnetos



M.-L. ALL British Magnetos are smaller, lighter (yet stronger) and more efficient than any pre-war magneto of like electrical capacity.

The M-L. Magneto, Type A.D.S., is designed for use on rotary or other engines in which the distributor is carried on the engine itself and does not form a part of the magneto. It is fitted with an "H" armature and gives two sparks per revolution.

THE M-L MAGNETO SYNDICATE, Ltd., Victoria Works, Coventry.

Godbolds

SANKEY Pressings & Stampings.

... Light Steel ... STAMPINGS for AEROPLANES

Any size or weight; Rough or Machined; Single Piece or Combination pressed and welded by Oxy Acetylene and other processes.

Joseph Sankey & Sons, Ltd.,

Hadley Castle Works,

WELLINGTON :: SHROPSHIRE. ==

Anti-Friction BEARINGS

FOR ALL PURPOSES.

TO ENSURE

ACCURACY, EFFICIENCY, AND ECONOMY,

instal ANTI-FRICTION BEARINGS made and lined under

THE WALKER-HANNA PATENTS

FOR

MOTOR CARS, ELECTRIC MOTORS, TRAMWAYS,

AND ALL OTHER PURPOSES.

NO MACHINING REQUIRED, absolute INTERCHANGEABILITY with those you are at present using.

Write us on any question concerning Bearings.

WALKER-HANNA BEARINGS, Ltd.,

IMPERIAL WORKS, GREAT JACKSON STREET,

'Phone: 85 OPENSHAW.

WEST GORTON, MANCHESTER.



Established

THE ROPE MAKERS

1770.

Highest Quality
STEEL WIRE CORDS &
STRANDS FOR AIRCRAFT.

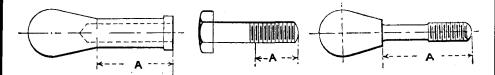
Contractors to H. M. Admiralty and War Office.

J. & E. WRIGHT, Ltd.,

Universe Wire Rope Works, BIRMINGHAM.

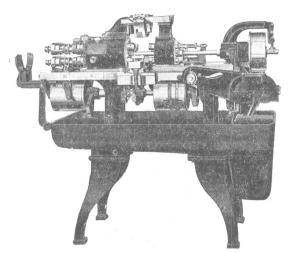
Telegrams: "UNIVERSE, BIRMINGHAM."
Telephone: CENTRAL 6914 (3 lines)

For the production of these and similar parts



USE

National Acme Automatics.



Because-

- They produce each part in the time required for turning the length marked A, thus effecting a saving of 50 to 75 per cent. in comparison to single spindle production.
- 2. They are entirely automatic.
- 3. They save labour and floor space.
- 4. They ensure accuracy and output.

$1\frac{5}{8}$ and $2\frac{1}{4}$ MACHINES IN STOCK.

 $\frac{8}{4}$ " and 1" MACHINES NOW IN TRANSIT.

We can equip them with Tools to suit your requirements, and set up the Machines in your shops.

SOLE AGENTS-

BURTON, CRIFFITHS & CO., LTD.

LONDON MANCHESTER GLASGOW BIRMINGHAM Contractors to H.M. Government.

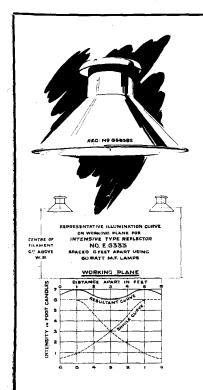


Telephones: PUTNEY 2240-1.

AERONAUTICAL ENGINEERS

Designers, Manufacturers and Contractors,

126-132, NEW KINGS ROAD, FULHAM, LONDON, S.W.6.



SIMPLEX SCIENTIFIC SLIGHTING REFLECTORS

Specially designed for Factories and Aerodromes. With Simplex Steel Reflectors properly installed every ray of light is diverted to useful work, and there is no glare.

Write for special leaflet.

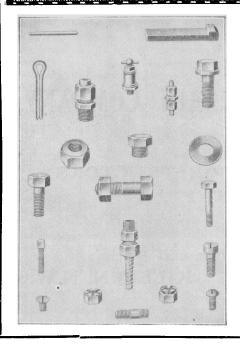
SIMPLEX - CONDUITS - LTD.,

GARRISON LANE, BIRMINGHAM.

II3-II7, CHARING CROSS ROAD, LONDON.
AND AT

MANCHESTER - GLASGOW - NEWCASTLE BRISTOL - LIVERPOOL - LEEDS SWANSEA AND CARDIFF.

BURTON, DELINGPOLE & @



MANUFACTURERS OF

CAPSTAN & AUTOMATIC WORK

IN BRASS, STEEL, GUNMETAL, ETC.,

FOR ALL BRANCHES OF THE MOTOR & AEROPLANE INDUSTRIES.

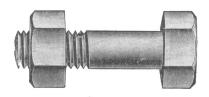
DROPFORGINGS

STAMPINGS ONLY OR FINISHED—
MACHINED TO CUSTOMERS' REQUIREMENTS.

HEAD OFFICES MOSELEY ST., BIRMINGHAM.

WORKS: BIRMINCHAM & OLD HILL (STAFFS).

A. BEEBEE, FALLING'S HEATH, WEDNESBURY





HIGH CLASS BOLTS, NUTS, STUDS, SCREWS, WASHERS, ETC.

Contractors to the Admiralty and Air Board.



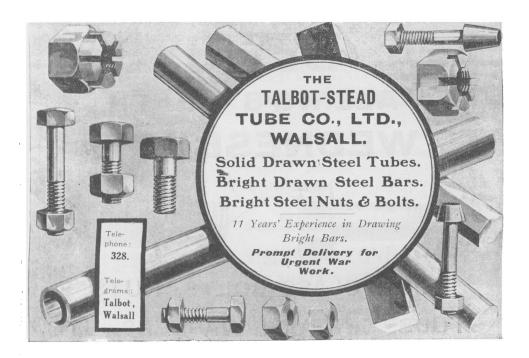
THE CENTRAL AIRCRAFT COMPANY,

DESIGNERS AND CONSTRUCTORS OF AIRCRAFT.

Office and Works: KILBURN, N.W.6.

Telegrams: AVIDUCTION, PHONE, LONDON.

Telephone: HAMPSTEAD 4403, 4404.





IT CANNOT BE SPLINTERED.



TRIPLEX'
IS THE
ONLY
SAFETY
GLASS FOR
WINDSCREENS,
OBSERVATION
PANELS,
GOGGLES, Etc.

GOGGLES FROM 7/6 PER PAIR.

TRIPLEX'SAFETY GLASS

Manufactured Solely by

The 'Triplex' Safety Glass Co., Ltd., (Reginald Delpech, Managing Director.)

1, Albemarle Street, Piccadilly, London, W.1.

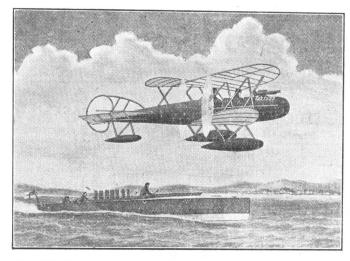
₩.

S. E. SAUNDERS, Limited.

Established 1830.

Designers and Constructors of Air and Marine Craft

Contractors
to the
Admiralty
and
War Office.



Telegrams:

Consuta

East Cowes

'Phone

Cowes 193 (4 lines).

EAST COWES, I.W.

SEAPLANES LAND MACHINES
OSBORNE WORKS. WEST MEDINA AERODROME

Telephone: Central 1449. Cable & Telegraphic Address "Cantonia," Sheffield.

THE

CANTON STEEL & TOOL CO.,

CANTON STEEL WORKS,

CORNISH STREET, SHEFFIELD.

Manufacturers of . . .

"Canton" High Speed Steel.

CAST & TOOL STEELS for EVERY DESCRIPTION of TOOLS.

AIRCRAFT STEELS to A.I.D. Inspection and Tests.

W. GILBERTSON & CO.,

LIMITED,

PONTARDAWE, GLAMORGAN.

Contractors to Admiralty, War Office, India Office, etc.

Manufacturers of Special Steels of all kinds.

STEEL BARS.
STEEL BILLETS.
SPECIAL STEEL.
HIGH CARBON STEEL.
ALLOY STEEL.
GALVANISED SHEETS.

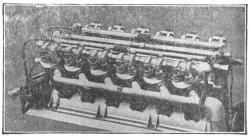
3,000 tons per week.

CORRUGATED SHEETS.
BLACK SHEETS.
ARMATURE SHEETS.
TINPLATES.
TERNE PLATES.
ALUMINIUM Coated Plates

HOYT BEARING METALS,

IN LARGEST USE FOR AERO ENGINES.

300-H.P. "GREEN" AERO ENGINE.



BEARINGS: HOYT METAL LINED.

NUMBER ELEVEN—THE WORLD'S BEST.

OUTLASTS ALL OTHERS.



ABSOLUTELY THE HIGHEST QUALITY WHITE METAL MADE. SPECIMEN TWISTED AND HAMMERED COLD, SHOWING TOUGHNESS. COMPRESSION REQUIRED TO CRACK TEST SAMPLES: 20'55 TONS So. IN.

THE HOYT METAL CO., LTD.,

(WORKS: MILLWALL, E.) 189, HAMMERSMITH ROAD, LONDON, W.6.

GRAHAME-WHITE

AVIATION CO., Ltd.

(1)

AERONAUTICAL DESIGNERS & CONSTRUCTORS

(1)

CONTRACTORS TO THE ADMIRALTY AND WAR OFFICE.

PROPRIETORS OF THE LONDON AERODROME and the GRAHAME-WHITE SCHOOL OF AVIATION.

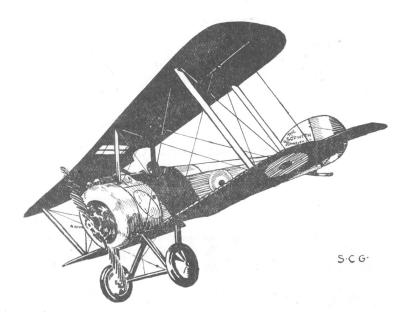
HENDON.

TRUEGRAMS: "VOLPLANE, HYDE, LONDON."

- HEAD OFFICE AND WORKS: LONDON AERODROME, HENDON, N.W. 9.

TELEPHONE: KINGSBURY 120 (Five Lines)

SOPWITH



AVIATION COMPANY, LIMITED KINGSTON-ON-THAMES, ENGLAND.

CONTRACTORS TO H.M. GOVERNMENT.

Telephone: KINGSTON 1988 (8 lines). Telegrams: SOPWITH, KINGSTON.



Paris Office:

21, RUE DU MONT THABOR.

The Aëronautical Journal.

THE ORGAN OF THE AERONAUTICAL SOCIETY OF GREAT BRITAIN.

CONTENTS, FEBRUARY, 1918.

For the opinions expressed in papers that are signed or initialled the authors alone are responsible. None of the papers or paragraphs must be taken as expressing the opinion of the Council of the Aëronautical Society, unless such is definitely stated to be the case.

													AGE
I.	Notices					•••	•••	• • •	• • •			•••	37
II.	THE USE												
	WH. EX.	, A.M	.I.C.E.	, M.I.I	£.E.,	F.A.ë.S.	• • • • •		•••	•••		• • •	39
III.	"FLYING 1	n Cl	ouns,''	BY SI	r He	xry Fo	WLER,	K.B.E				•••	49
IV.	THE NOM												
	Prof. G	. H. I	3ryan,	D.Sc.	, F.R	.S., Fel	LOW		•••	•••		•••	51
V.	THE JUVE	NILE I	ECTU	RE		• • • •	•••				•••		54
VI.	PROCEEDIN	IGS OF	Four	тн Ма	EETIN	G, 53RD	SESSI	ON		•••			61
VII.	CORRESPO	NDENC	Е			•••		•••		• • •	•••		67
III.	REVIEWS	•••	•••	•••		• • • •						•••	68

All communications respecting Editorial Matters should be addressed to-

THE EDITOR, 7, Albemarle Street, W.1.

Telegrams: "Didaskalos, Piccy, London."

TELEPHONE: 7373 GERRARD.

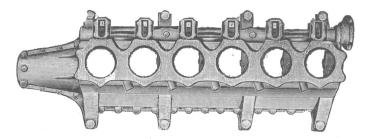
All communications respecting Advertisement Matters should be addressed to-

The Advertisement Manager, 63, Ludgate Hill, London, E.C. 4.

THE ALUMINIUM CASTINGS CO LD

-ESTABLISHED 1901,

SOUND CASTINGS.



PROMPT DELIVERIES.

Ingleston Foundry, GREENOCK, SCOTLAND.

DURABILITY FLEXIBILITY ECONOMY . .

The Original Non-Poisonous

(Free from Tetrachlorethane and all Spirit derivatives of Chlorine)

TITANINE DOPE



Affords the Greatest Resistance o Flame.

Manufacturers and Sole Proprietors—

THE BRITISH AEROPLANE VARNISH Co., Ltd., 166, PICCADILLY, LONDON, W.1.

Telegrams: "Tetrafree, Piccy." London.

Telephone: Gerrard 2312.

Works: FELLING-ON-TYNE and HENDON, LONDON, N.W.

CONTRACTORS TO H.M. GOVERNMENT.