

# SPECIALITIES



## Elephant Brand High Speed Steel

<p>TRADE MARK</p>  <p>NONPAREIL</p>	<p><b>"ELEPHANT" BRAND EXTRA HIGH SPEED STEEL.</b> INSTRUCTIONS FOR TREATMENT.—(1) Heat gradually, but thoroughly, to a good red, and forge to shape. (2) Re-heat the CUTTING POINT to a LIGHT yellow, and quench out entirely in whale oil and grind. Where material to be operated on is excessively hard, heat to LIGHT yellow and cool quickly the NOSE of tool in water, quenching out in whale oil. FOR FINE TOOLS, always harden in oil. Re-grind in ordinary way when necessary.</p> <p>W. TYZACK, SONS &amp; TURNER, LIMITED, SHEFFIELD.</p>	<p><b>18% TUNGSTEN</b></p>
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<p>TRADE MARK</p>  <p>NONPAREIL</p>	<p><b>"ELEPHANT" BRAND HIGH SPEED STEEL.</b> INSTRUCTIONS FOR FORGING.—(1) Heat gradually, but thoroughly, to a good red, and forge to shape. (2) Re-heat the CUTTING POINT to a good yellow, cool quickly in the open air WITHOUT WATER, and grind. For Fine Tools quench in whale oil. The tool is then ready for use. Re-grind in the ordinary way when necessary. CAUTION—This Steel should on no account come in contact with water whilst hot.</p> <p>W. TYZACK, SONS &amp; TURNER, LIMITED, SHEFFIELD.</p>	<p><b>14% TUNGSTEN</b></p>
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We stock the usual standard sizes of Squares, Rounds, Flats and Bevels, thus enabling us to effect prompt delivery.

Sold only under our famous "Elephant" Trade Mark, which in itself is a guarantee of the very highest quality obtainable, this steel is known and used all over the world, and will be found to give absolute satisfaction.

The instructions for treatment are given on each bar and should be strictly adhered to, thus eliminating wasteful experiments with this high-grade steel.

# Best Crucible Cast Steel

FOR ALL KINDS OF ENGINEERS', SHIP-BUILDERS' and MACHINE TOOLS.  
Supplied in 8 tempers, as per facsimile of labels below.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND

Best Cast Steel for Turning Tools, Planing and Slotting Tools.  
Must be worked at LOW heat and WILL NOT WELD.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

T.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND

Best Cast Steel for Dies, Small Shear Blades, Punches, Taps,  
Milling Cutters.

Must be worked at LOW heat. DO NOT WELD.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

B.D.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND

Best Cast Steel for Engineers' Tools, Machinery, etc. To be  
worked at a low heat and hardened and tempered in  
Whale Oil. NOT TO WELD.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

E.D.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND

Best Cast Steel for Cold Chisels, Miners' Drills for hard rock.  
NOT RECOMMENDED TO WELD.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

C.C.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND

Best Cast Steel for Granite. EXTRA quality for extremely  
hard drilling. Must be worked at LOW heat and WILL  
NOT WELD.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

G.

TRADE MARK



NONPAREIL

## "ELEPHANT" BRAND A.1. EXTRA.

For Machine Shear Blades subject to heavy wear and to give maximum  
service. Heat carefully to light yellow, about 550° C., and quench in whale oil.  
Temper deep brown to purple, about 250° C., according to material intended to  
shear. After tempering, the blade must be so left that it will just file.

W. TYZACK, SONS & TURNER, LIMITED, SHEFFIELD.

TEMPER

A.1.

EXTRA.

# Steel Tempering Diagram



Saws for Wood ... ..	...	...	...	...	Springs in General
Moulding and Planing Cutters for Soft Wood ... ..	...	...	...	...	Cold Setts for Iron
Firmer Chisels ... ..	...	...	...	...	
Saws for Bone and Ivory ...	...	...	...	...	
Axes and Adzes ... ..	...	...	...	...	Cold Setts for Steel
Augers ... ..	...	...	...	...	
Coopers' Tools ... ..	...	...	...	...	Circular Cutters for Wood
Wood Borers ... ..	...	...	...	...	Drifts
Cup Tools ... ..	...	...	...	...	Circular Saws for Metal
Plane Irons ... ..	...	...	...	...	Twist Drills
Moulding and Planing Cutters for Hard Wood ... ..	...	...	...	...	Stone Cutting Tools
Pen Knives ... ..	...	...	...	...	Brace Bits
Drill Chucks and Picks ...	...	...	...	...	Rimers
Rock Drills ... ..	...	...	...	...	Dies and Punches
	...	...	...	...	Chasing Tools
	...	...	...	...	Taps
Leather Cutting Dies ... ..	...	...	...	...	Screwing Dies
	...	...	...	...	Boring Cutters
Wood Engraving Tools ...	...	...	...	...	Shear Blades in General
Paper Cutting Knives... ..	...	...	...	...	Circular Cutters for Metal
Ivory Cutting Tools ... ..	...	...	...	...	Planing Tools for Iron
	...	...	...	...	
Hammer Faces ... ..	...	...	...	...	Planing Tools for Steel
	...	...	...	...	
	...	...	...	...	Light Turning Tools
Steel Engraving Tools ...	...	...	...	...	