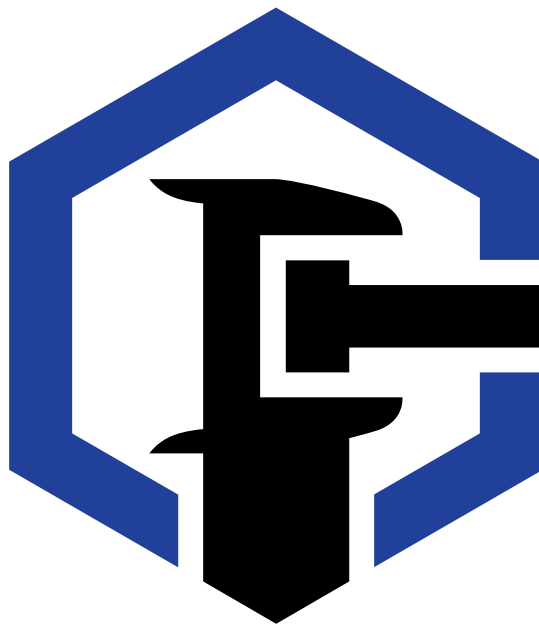




TEGNIKA TRADING
PRODUCT CATALOGUE



TEGNIKA TRADING_{CC}
T/A INDUSTRIAL TOOLING & FASTENING

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Namibia

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CATALOGUE NAVIGATION

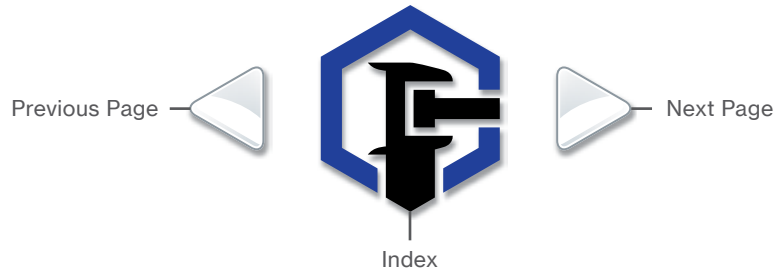


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WELCOME TO TEGNIKA TRADING CC

Industrial Tooling & Fastening specialises in professional tools and materials including tool attachments, engineering steel and plastics, and high-tensile fasteners. ITF is indeed proudly Namibian and have been in business for more than ten years. Our main objective is to supply professional Namibians with top quality specialty tools and materials to support the construction, mining, agricultural, automotive and engineering sectors.

ITF, in association with our trusted suppliers, aim to bring you the highest quality products to suit the professional standard your industry requires.

Although this catalogue provides a brief overview of our products, you are welcome to request more detailed information at itf@iway.na



FASTENERS

WASHERS



Bonded Washers
6x19 & 6x26



Brass Flat Washers
M3 - M12



Flat Washers
zinc plated M3 - M48
black M8 - M20
stainless steel
M2 - M20



Thru Hardened
Washers
black grade 10.9
M8 - M36



Fender Washers
Body
zinc plated M6 - M12
stainless steel M12
BodyE
zinc plated M5 - M10
stainless steel
M6 - M12
BodyS
zinc plated M4 - M12
stainless steel
M4 - M12
BodyL
zinc plated M6 - M12
stainless steel M12
BodyXL
zinc plated M8 - M12
BodyXXL
zinc plated M10 - M12



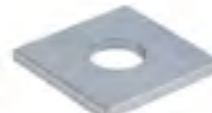
Nordlock Washer
zinc plated
M6 - M24



Spring Washers
zinc plated M3 - M36
stainless steel
M3 - M20



Star Washers
External M3 - M12
Internal M 6 - M12



Square Taper
Washers
zinc plated

PINS



Split Pins
zinc plated 1,6 - 13
stainless steel 3,2 - 5



Sellock Pins 1,5 - 20



R-Clips 3 - 8



NUTS



Brass Hex Nuts
M3 - M12



Castle Nut
zinc plated



Nylock Nuts
zinc plated M3 - M48
stainless steel
M3 - M24
metric fine



Large Flange Nuts
M6 - M16



Hex Nuts
zinc plated M3 - M48
black M8 - M20
stainless steel
M2 - M24
metric fine M7 - M24



Dome Nuts
zinc plated M4 - M16
stainless steel
M3 - M12



Wing Nuts
zinc plated M3 - M16
stainless steel
M4 - M12



Spring Nuts
zinc plated M8



Coupling Nuts
zinc plated M6 - M20



RIV Nuts
small M3 - M10
large M4 - M10
hex M5 - M8



Shear Nuts
zinc plated M6 - M12



T Nuts
zinc plated M5 - M10



Forged/Lifting
Eye Nuts
zinc plated M6 - M24
stainless steel
M6 - M16

SPRINGS



Tension Springs



Compression
Springs



Special Springs
ordered on request



HEX BOLTS & SET SCREWS



Brass Bolts
Mach Screws
M3 - M6
Hex Screws
M6 - M12



High Tensile Steel
Grade 8.8
zinc plated M6 - M48
Grade 8.8
black M8 - M20
Grade 10.9
black M8 - M36



Grade 304
Stainless Steel
M4 - M24



Metric Fine
zinc plated or black
MF7 - MF24



Imperial
UNC
zinc plated or black
 $\frac{1}{4}$ - $1\frac{1}{2}$
stainless steel $\frac{1}{2}$ - $\frac{5}{16}$
UNF
zinc plated or black
 $\frac{1}{4}$ - $1\frac{1}{2}$
BSW
zinc plated or black $\frac{1}{2}$
BSF
zinc plated or black
 $\frac{3}{16}$ - $\frac{5}{8}$

OTHER BOLTS



Carriage Bolts
zinc plated M6 - M16
stainless steel
M6 - M10



D-Shackle M6 - M25



U-Bolts with
Round Bend
zinc plated



Hinge Weld-on
M10 - M30



Countersunk NIB
Bolts



Countersunk Square
Plough Bolts 8.8
M10 - M16



Forged/Lifting
Eye Bolts
zinc plated M16
stainless steel
M6 - M12



Eye Bolts
zinc plated M6 - M24
stainless steel M10



Wire Rope Clamp
M3 - M25



SCREWS



Coach Screws
zinc plated M6 - M12
stainless steel
M6 - M12



Machine Screws
cheese head
M3 - M6
stainless steel
M2 - M6
countersunk head
M3 - M8
stainless steel
M3 - M6
gutter M6



Self Tapping Screws
Pan Combi
zinc plated 2.2 - 6.3
stainless steel
3.5 - 4.8
Countersunk Pozi
zinc plated 2.9 - 5.5
stainless steel
3.5x4.8



Topspeed Screws 6.3



Tek Screws
self drilling 4.2 - 6.3

SOCKET SCREWS



Button Head Bolts
zinc plated grade
10.9 M3 - M12
stainless steel
M3 - M10



Cap Screws
metric & imperial
zinc plated grade
10.9 M3 - M10
stainless steel
M3 - M12



Countersunk Bolts
metric & imperial
zinc plated grade
10.9 M3 - M24
stainless steel
M3 - M12



Grub Screws
metric & imperial
zinc plated or black
M3 - M20
stainless steel
M4 - M12

RIVETS



Blind Rivet
stainless steel
3.2 - 4.8
steel 3.2 - 4.8
aluminium 3.2 - 6.4



Countersunk Rivet
Aluminium 3.2 - 4.8



Large Flanged Rivet
Aluminium 3.2 - 4.8



Peeled Aluminium
4.0 - 4.8



Sealed Steel 3.2 - 4.8



Round Head Solid 4.7



ANCHORS



Drop-in Anchors
M8 - M16



Expansion Bolts
M6 - M16



Eye Anchor
M6 - M10



Hook Anchors
M6 - M10



Dry Wall Fischer
Plug & Screw
14 x 22



Anchor Bolts



Wall Plugs M5 - M16



Nail-in Anchors
M6 - M8

GREASE NIPPLES



UNF
Straight
¼ - 45" 5/16 - 90" 3/8



BSP
Straight
45" & 90" 1/8 & 1/4
Long 1/8
Button Straight 1/8
(16) ; 1/4 (16) ; 1/4 (22)



Metric
Straight M5 - M10
Button Straight M10
Flush M6 - 45" &
90" M6 - M10
Long M6
Oil nipple drive M6

FULL THREADED RODS



Brass (1m) M5 - M12

Imperial EN8 (1m)
UNC 5/16 - 1 1/2"
UNF 5/16 - 1"
BSW 1/2"

Metric EN8
(1m) M5 - M52
(3m) M6 - M12

Metric Fine EN8(1m)
MF8 x 1 - MF30 x 1.5

Stainless Steel 304
(1m) M6 - M20

Stainless Steel 316
(1m) M6 - M20

STUDS



Automotive Studs
Metric M6 - M12
Metric Fine
MF10 x 1.25 to
MF12 x 1.5
UNC 3/8 - 1/2

AUTOMOTIVE FASTENERS



NUTS



Conical Wheel Nuts
MF12 x 1.25 to
MF14 x 1.5



Copper Nuts
M8 -M10 &
MF10 x 1.25



Flange Nuts
M6 - M16



Long Mag Wheel Nuts
MF12 x 1.25 to
MF14 x 1.5



Extra Long Mag
Wheel Nuts
MF12 x 1.25 to
MF12 x 1.5



Mag Wheel Nuts
MF12 x 1.25 to
MF12 x 1.5



Speed Nuts M5 - M6



Cage Nuts M5 - M8



Steel Lock Nuts
M6 - M12

WASHERS



Copper Washers
M5 - M24



Hub Washers Closed
M12 - M24



OTHER



Circlips
External 4 - 120
Internal 8 - 120



E Clips
Horse Shoe
2.5 - 19



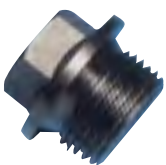
Flange Bolts
M6 - M10 &
MF10 x 1.25 - MF12 x 1.5



Propshaft Bolts
MF8 x 1 - MF14 x 1.5



Wheel Bolts
45° MF12 x 1.5
60° MF12 x 1.5 to
MF14 x 1.5



Sump Plugs
MF10 x 1 to
MF24 x 1.5



Wheel Studs
MF12 x 1.25 to
MF18 x 1.5



Banjo Bolts
M6 - M8 &
MF8 x 1 - MF18 x 1.5



Ball Joints
RH M8 & LH M8



Hose Clamps
zinc plated
2mm - 152mm
stainless steel
7mm - 70mm



Mush Head
Self Tapper
4.2, 4.8 & 5.5



Hex Fender Screws
Self Tapper
4.2, 4.8, 5.5 & 6.3



Sems Screw
M5 - M10

ABRASIVES



Grinding Discs
(various thicknesses)
Steel & Stainless Steel
115 - 230mm



Vitrified Bonded
Specialty Precision
Grinding Wheels
(various grids)



Cutting Wheels
(various thicknesses)
Steel & Stainless Steel
115 - 400mm



Diamond Cutting
Wheels
Masonry & Tile
115 - 230mm



Mop Wheels
(various sizes & grids)



Polyfans/Flap Discs
(various grids)
115 - 180mm



Polycaps



Mounted Points,
Polishing Points &
Abrasive Cones



Tungsten Carbide
Burrs
(various shapes &
sizes)



Automotive Stones
(various grids)



Dressing Tools
Diamond dresser
1.0 CT
Dresser Wheel
Spare Wheels
Diamond Core Bits



Honing Stones
(various grids)



Wire Wheels
(various sizes)
Steel & Stainless steel
Crimp & Knotted



Sanding Paper
Wood
Steel (wet & dry)



Sanding Belts
(various sizes & grids)



Polishing Belts
(various sizes & grids)

Vitrified & Resin
bonded segments

Sets (AN...series)

2 Leg Honers
3 Leg Honers



www.lukas.co.za



Always the right tool





We have 8 decades
of developing tailor-made
tool solutions behind us



LUKAS - quality

We don't talk about quality, we let it speak for itself. Every day and in everything we do. This practice makes LUKAS tools a safe, reliable factor in your manufacturing process and ensures the best possible production quality.

- made in Germany
- top quality raw material
- state-of-the-art test facilities
- Quality management system according to EN ISO 9001:2015
- active membership in trade associations





Nine sections for
any application

The **LUKAS** - Catalogue

Navigate quickly and vividly to the right tool for you. There are coloured dots above each product table to show the material group; you'll find the key at the bottom of each page. Next to them you'll find the product line indication - from one to three stars. Each table row contains recommendations for use; there's more information on these in the practical fold-out in the catalogue cover. New tools are shown on a darker grey background, for easy identification..





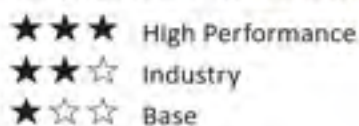
For all materials and for any application

The appropriate material groups for each tool are shown in the table header.



Product line

The product line is indicated with a simple star system:



- A Application area
- B Product line
- C Product series
- D Usage/power tool
- E New products (dark background)
- F Application recommendation for the material group
- G Material key
- H Material classification and safety symbols



Technical Brushes



Cup Brushes with thread						
					Packing Unit : 1	
Stock Code	Quality	Type	Diameter	Wire	Thread	RPM
7WC1401400016	Steel	Crimped	140	0.35	M14	8000
7WC1401410116	Inox	Crimped	140	0.35	M14	8000
7WC1405800016	Steel	Crimped	140	0.35	5/8"	8000
7WC1405810016	Inox	Crimped	140	0.35	5/8"	8000



Cup Brushes with thread						
					Packing Unit : 1	
Stock Code	Quality	Type	Diameter	Wire	Thread	RPM
7WC0651400035	Steel	Crimped	65	0.3	M14	12500
7WC0651401035	Steel	Knotted	65	0.5	M14	12500
7WC0801400035	Steel	Crimped	80	0.3	M14	9000
7WC0801401035	Steel	Knotted	80	0.5	M14	9000
7WC1001400035	Steel	Crimped	100	0.3	M14	8500
7WC1001401035	Steel	Knotted	100	0.8	M14	8500
7WC1201400035	Steel	Knotted	120	0.8	M14	8000
7WC1401400035	Steel	Crimped	140	0.4	M14	8000
7WC1401408035	Steel	Knotted	140	0.8	M14	8000
7WC1405800035	Steel	Crimped	140	0.5	5/8"	8000
7WC1501400035	Inox	Crimped	150	0.3	M14	6500
7WC1505800035	Inox	Crimped	150	0.3	5/8"	6500



Pipeline Cleaning Brushes						
					Packing Unit : 1	
Stock Code	Quality	Type	Diameter	Wire	Bore	RPM
7WS115220320016	Steel	32 Knots	115	0.5	22.23	15000
7WS115220321016	Inox	32 Knots	115	0.5	22.23	15000
7WS178220760016	Steel	76 Knots	178	0.5	22.23	12500



Technical Brushes



★★★☆☆

Wheel Brushes, Crimped Wire							
					Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Thickness	Bore	Wire	RPM
7WS150253200016	Steel	Crimped	150	25	32	0.35	6000
7WS150253210016	Inox	Crimped	150	25	32	0.30	6000
7WS200253200016	Steel	Crimped	200	25	32	0.35	6000
7WS250383200016	Steel	Crimped	250	38	32	0.35	3600

★★★☆☆

Pencil & Cup Brushes, Shank 6 mm						
				Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Spindle	Wire	RPM
7WP01200016	Steel	Pencil, Crimped	12	6 mm	0.35	12000
7WP01200116	Steel	Pointed Pencil, Crimped	12	6 mm	0.35	20000
7WP01210116	Inox	Pencil, Crimped	12	6 mm	0.35	12000
7WP02200016	Steel	Pencil, Crimped	22	6 mm	0.35	12000
7WP02200116	Steel	Pointed Pencil, Crimped	22	6 mm	0.35	12000

★★★☆☆

Wheel Brushes, Crimped Wire							
					Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Thickness	Bore	Wire	RPM
7WS150183200935	Steel	Crimped	150	18	32	0.3	6000
7WS150253200035	Steel	Crimped	150	25	32	0.3	6000
7WS200203200935	Steel	Crimped	200	20	32	0.3	4500
7WS200253200035	Steel	Crimped	200	25	32	0.35	4500
7WS250253200035	Steel	Crimped	250	25	32	0.35	3600



Technical Brushes



Bevel Brushes (M14)						
				Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Thickness	Wire	RPM
7WS115140003016	Steel	Knotted	115	12	0.35	15000
7WS115140001016	Inox	Knotted	115	12	0.35	15000



Cylindrical Brushes, Shank 6 mm						
				Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Thickness	Wire	RPM
7WW030060600016	Steel	Crimped	30	6	0.20	20000
7WW040100600016	Steel	Crimped	40	10	0.20	18000
7WW050120600016	Steel	Crimped	50	12	0.30	15000
7WW050120610016	Inox	Crimped	50	12	0.30	15000
7WW070120600016	Steel	Crimped	70	12	0.30	15000
7WW070120610016	Inox	Crimped	70	12	0.30	15000
7WW070200610016	Inox	Crimped	70	20	0.30	15000



Pencil & Cup Brushes, Shank 6 mm						
				Packing Unit : 1		
Stock Code	Quality	Type	Diameter	Thickness	Wire	RPM
7WP01200135	Steel	Pointed pencil, crimped	12			12000
7WC050000535	Steel	Cup, crimped	50		0.3	4500
7WC0651400035	Steel	Cup, crimped	65		0.5	4500
7WC075000535	Steel	Cup, crimped	75		0.3	4500



Welders Hand Brush For Universal Application						
				Packing Unit : 12		
Stock Code	Quality	4 ROW			Wire	
7WH04935	Steel	4 Row Hand Welder Brush Wooden Handle			0.30	



Cutting Discs



Cutting Discs for Steel and Inox						
					Packing Unit : 50	1 mm
					Packing Unit : 25	1.9 mm
					Packing Unit : 25	2.5 mm
					Packing Unit : 25	3 mm
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FA115102288024	T41	115	1.0	22.23	13300	A60Z Inox Progress
5FA115252208024	T41	115	2.5	22.23	13300	A30Z Inox Progress
5FA125102288024	T41	125	1.0	22.23	12200	A60Z Inox Progress
5FA230192208024	T41	230	1.9	22.23	6600	A46Z Inox Progress
5FA230252208024	T41	230	2.5	22.23	6600	A30Z Inox Progress



Cutting Discs for Inox						
					Packing Unit : 50	1 mm
					Packing Unit : 50	1.6 mm
					Packing Unit : 25	1.9 mm
					Packing Unit : 25	2.5 mm
					Packing Unit : 25	3 mm
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FA115102277024	T41	115	1.0	22.23	13300	A60X Inox
5FA115162216024	T41	115	1.6	22.23	13300	A46X Inox
5FA115252235024	T41	115	2.5	22.23	13300	A30X Inox
5FA125102277024	T41	125	1.0	22.23	12200	A60X Inox



Cutting Discs for Steel						
					Packing Unit : 25	2 mm
					Packing Unit : 25	2,5 mm
					Packing Unit : 25	3 mm
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FA100201615051	T41	100	2.5	16	15300	A30V Steel
5FA115302215051	T41	115	2.5	22.23	13300	A30V Steel
5FA125302215051	T41	125	3.0	22.23	12200	A30V Steel
5FA178302218051	T41	178	3.0	22.23	8500	A30V Steel
5FA230302218051	T41	230	3.0	22.23	6600	A30V Steel
5FA230302215051	T41	230	3.0	22.23	6600	A30VSP Steel



Cutting Discs



Cutting Discs for Masonry



Packing Unit : 25

Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FC115302215051	T41	115	3.0	22.23	13300	C30V- BF
5FC125302215051	T41	125	3.0	22.23	12200	C30V- BF
5FC230302218051	T41	230	3.2	22.23	6600	C30V- BF



Cutting Discs for Steel



Packing Unit : 20 1 mm
 Packing Unit : 25 1.9 mm
 Packing Unit : 25 3 mm

Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FA115102201051	T41	115	1.0	22.23	13300	A46T-BF Steel & Inox
5FA115302225051	T41	115	2.5	22.23	13300	A30T-BF Steel
5FA230182215024	T41	230	1.9	22.23	6600	A46T-BF Steel
5FA230182212024	T41	230	1.9	22.23	6600	A46T-BF Inox
5FA230302218151	T41	230	3.0	22.23	6600	A30T-BF Steel



Cutting Discs



Stationary Cutting Discs for Steel							
						Packing Unit : 10	
Stock Code	Type	Diameter	Thickness	Bore	RPM	External Re-Inforced	Quality Internal
5UA30032	T41	300	3.2	25.4	5100	A30R-BF Steel	A30P-BFI Steel
5UA30032	T41	300	3.2	40.0	5100	A30R-BF Steel	A30P-BFI Steel
5UA35032	T41	350	3.2	25.4	4400	A30R-BF Steel	A30P-BFI Steel
5UA35032	T41	350	3.2	40.0	4400	A30R-BF Steel	
5UA35038	T41	350	3.8	25.4	4400	WA30R-BFI Inox	
5UA40040	T41	400	4.0	25.4	3800	A30R-BF Steel	A30P-BFI Steel
5UA40040	T41	400	4.0	40.0	3800	A30R-BF Steel	A30P-BFI Steel
5UA45040	T41	450	4.0	40.0	3400	A30R-BF Steel	A30P-BFI Steel
5UA50040	T41	500	4.0	40.0	3100		A36P-BFI Steel
5UB50040	T41	500	4.0	40.0	3100	BF ALLO/SIC	BFI ALLO/SIC



Cutting Discs for Masonry							
						Packing Unit : 10	
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality	
5UC35032251018	T41	350	3.2	25.4	4400	C24R-BF	



Grinding Discs

★ ★ ★

Cutting and Grinding Disc for Inox - Cool Jobber						
						Packing Unit : 25
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5FA115302255024	T27	115	3	22.23	13300	A36V-BF Inox

★ ★ ★

Grinding Discs for Steel						
						Packing Unit : 10
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5DA115702208024	T27	115	7.0	22.23	13300	A24X-BF Steel
5DA230702208024	T27	230	7.0	22.23	6600	A24X-BF Steel

★ ★ ☆

Grinding Discs for Inox						
						Packing Unit : 10
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5DA115702204024	T27	115	7.0	22.23	13300	A24X-BF Inox
5DA230702204024	T27	230	7.0	22.23	6600	A24X-BF Inox



Grinding Discs



Grinding Discs for Steel						
						Packing Unit : 10
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5DA100401615051	T27	100	4.5	16	15300	A30T Steel
5DA100601615051	T27	100	6.0	16	15300	A30T Steel
5DA115602215051	T27	115	6.0	22.23	13300	A30V Steel
5DA125602215051	T27	125	6.0	22.23	12200	A30V Steel
5DA230402218251	T27	230	4.5	22.23	6600	A24V Steel
5DA230602218251	T27	230	6.0	22.23	6600	A24V Steel



Grinding Discs for Steel						
						Packing Unit : 20
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5DA230402218251	T27	230	4.0	22.23	6600	A24V Steel



Grinding Discs for Masonry						
						Packing Unit : 10
Stock Code	Type	Diameter	Thickness	Bore	RPM	Quality
5DB230602218151	T27	230	6.0	22.23	6600	B30V



Pedestal Grinding Wheels



Vitrified Bench /Pedestal Grinding Wheels				
				Packing Unit : 1
Stock Code	Diameter	Thickness	Bore	Quality
5ZA12520	125	20	31.75	A36, A46, A60
5ZA15016	150	16	31.75	A36, A46, A60
5ZA15020	150	20	31.75	A36, A46, A60, A80
5ZC15020	150	20	31.75	GC60, GC80
5ZA15025	150	25	31.75	A36, A46, A60
5ZC15025	150	25	31.75	GC60, GC80
5ZA20020	200	20	31.75	A36, A46, A60
5ZC20020	200	20	31.75	GC60
5ZA20025	200	25	31.75	A36, A46, A60
5ZC20025	200	25	31.75	GC60, GC80, CG100
5ZA20032	200	32	31.75	A36, A46, A60
5ZA20032	200	32	50.8	A36, A60
5ZC20032	200	32	50.8	GC60
5ZA25025	250	25	31.75	A36, A46, A60
5ZC25025	250	25	31.75	GC60, GC80
5ZA25032	250	32	31.75	A36, A46, A60
5ZC25032	250	32	31.75	GC60
5ZA25032	250	32	50.8	A36, A46, A60
5ZA25040	250	40	50.8	A36, A46, A60
5ZC25040	250	40	50.8	GC60
5ZA30040	300	40	50.8	A36, A46, A60
5ZC30040	300	40	50.8	GC60
5ZA30040	300	40	76.2	A36, A46, A60
5ZA30050	300	50	50.8	A36, A46, A60
5ZA35040	350	40	76.2	A36, A46, A60
5ZA35050	350	50	50.8	A36, A46, A60
5ZA40050	400	50	127	A36, A46, A60



Diamond Cutting Discs - Segmented

★★★

Diamond Cutting Blades - Segmented					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302201003	Segmented Rim	115	2.5	22.23	13300
7DB125302201003	Segmented Rim	125	2.5	22.23	12200
7DB180302201003	Segmented Rim	180	2.5	22.23	8500
7DB230302201003	Segmented Rim	230	2.5	22.23	6600
7DB350302501003	Segmented Rim	350	3.2	25.00	5400
7DB350302502003	Segmented Rim (Asphalt*)	350	3.2	25.00	4400

★★★

Diamond Cutting Blades - Segmented					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302201103	Segmented Rim	115	2.5	22.23	13300
7DB230302201103	Segmented Rim	230	2.5	22.23	6600

★★★

Diamond Cutting Blades - Segmented					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302201503	Segmented Rim	115	2.5	22.23	13300
7DB230302201503	Segmented Rim	230	2.5	22.23	6600

Applications :

General purpose Dry cutting of Masonry and Concrete applications.

Re-inforced concrete, clay pipes, concrete pipes, concrete, pre-stressed concrete, clay pavers, semi face bricks, face bricks, refractory bricks, clay roof tiles, cement roof tiles, concrete paving slabs, terracotta floor tiles, slate

* For use in the cutting of Asphalt, Abrasive materials, pre-mixed materials , wet application



Diamond Cutting Discs - Turbo Cut



Diamond Cutting Blades - Turbo Cut					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302202003	Turbo Cut	115	2.5	22.23	13300
7DB125302202003	Turbo Cut	125	2.5	22.23	12200
7DB180302202003	Turbo Cut	180	2.5	22.23	8500
7DB230302202003	Turbo Cut	230	2.5	22.23	6600



Diamond Cutting Blades - Turbo Cut					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302202103	Turbo Cut	115	2.5	22.23	13300
7DB230302202103	Turbo Cut	230	2.5	22.23	6600

Application :

General purpose Wet or Dry cutting of Masonry, Concrete and Marble.

Granite with the characteristics of a "chip-free" cut.

Clay pipes, clay pavers, face bricks, terracotta floor tiles, slate, terrazzo, tiles, glazed tiles, granite, marble



Diamond Cutting Discs - Continuous Rim



Diamond Cutting Blades - Continuous Rim					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302203003	Continuous Rim	115	2.5	22.23	13300
7DB125302203003	Continuous Rim	125	2.5	22.23	12200
7DB180302203003	Continuous Rim	180	2.5	22.23	8500
7DB200302503003	Continuous Rim	200	2.5	25.00	8500
7DB230302203003	Continuous Rim	230	2.5	22.23	6600
7DB250302503003	Continuous Rim	250	2.5	25.00	6100
7DB300302503003	Continuous Rim	300	2.5	25.00	5000



Diamond Cutting Blades - Continuous Rim					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302203103	Continuous Rim	115	2.5	22.23	13300
7DB230302203103	Continuous Rim	230	2.5	22.23	6600



Diamond Cutting Blades - Continuous Rim					
			Packing Unit : 1		
Stock Code	Type	Diameter	Thickness	Bore	Max RPM
7DB115302203503	Continuous Rim	115	2.5	22.23	13300
7DB230302203503	Continuous Rim	230	2.5	22.23	6600

Application :

General purpose Wet cutting of Ceramics, Masonry and Marble.

Granite with the characteristics of a "chip-free" cut.

Tiles, glazed tiles, porcelain, marble



Lamellar Flap Discs



SLTT Steel, our Turbo Flap Disc for universal application on Steel and Aluminium					
 					Packing Unit : 10
Stock Code	Diameter	Bore		RPM	Quality
6FL115	115	22.23	Steel	13300	ZK40, ZK60
6FL125	125	22.23	Steel	12250	ZK40, ZK60
6FL150	150	22.23	Steel	10100	ZK40
6FL178	178	22.23	Steel	8500	ZK40, ZK60
V2 Power INOX to work on Stainless Steel					
 					Packing Unit : 10
Stock Code	Diameter	Thickness	Bore	RPM	Quality
6FL230	230	22.23	Steel	6600	ZKS40
V2 Power Steel for universal application on Steel and Aluminium					
 					Packing Unit : 10
Stock Code	Diameter	Thickness	Bore	RPM	Quality
6FL115	115	22.23	Steel	13300	ZK40, ZK60
6FL125	125	22.23	Steel	12250	ZK40
6FL178	178	22.23	Steel	8500	ZKS40, ZKS60
V2 Power ALU					
 					Packing Unit : 10
Stock Code	Diameter	Bore	Application	RPM	Quality
6FL115	115	22.23	Alu	13300	SIC 40
6FL178	178	22.23	Alu	8500	SIC 36



Lamellar Flap Discs

★★★

Purple Grain Discs				
				Packing Unit : 1
Stock Code	Description	Diameter	RPM	Quality
6DC115220369024	Purple Grain Single	115	13300	CERAMIC 36
6DC115140368024	Purple Grain Multi	115	13300	CERAMIC 36

★★★

SLTflex				
				Packing Unit : 10
Stock Code	Diameter	Bore	RPM	Quality
6FL115	115	M14	13300	ZK40, ZK60

★★☆

SLTR - Lamellar Flap Discs, Zirconia Blue (reinforced fibre backing)				
				Packing Unit : 10
Stock Code	Diameter	Bore	RPM	Quality
6FL100	100	16	15300	ZK40, ZK60, ZK120
6FL115	115	22.23	13300	ZK40, ZK60, ZK80, ZK120
6FL178	178	22.23	8500	ZK40, ZK60, ZK80, ZK120

★☆☆

Lamellar Flap Discs, competitively priced (reinforced fibre backing)				
				Packing Unit : 10
Stock Code	Diameter	Bore	RPM	Quality
6FL115	115	22.23	13300	ZK40, ZK60, ZK80



Lamellar Flap Discs



SLTO - Flat Lamellar Flap Disc, Zirconia Blue (reinforced fibre backing)					
				Packing Unit : 10	
Stock Code	Diameter	Bore	RPM	Quality	
6FL115080125024	115	22.23	13300	ZK80	



ASVT, Nylon disc for angle grinder, with reinforced fibre backing					
				Packing Unit : 10	
Stock Code	Diameter	Thickness	Bore	RPM	Quality
6FL115000001024	115	13	22.23	4900	ASVT - Coarse

- Removal of paint & adhesives
- Removal of cement & concrete residues
- De-rusting, restoring and polishing of a wide variety of surfaces
- Graining and the finishing of wood
- Derusting and preparation work on boats and ships, e.g. barnacles
- Usable without supporting-plate on adjustable & slow speed angle grinders.



SLTP, Polishing Disc				
			Packing Unit : 10	
Stock Code	Diameter	Bore	RPM	Quality
6FP115000513024	115	22.23	8350	Soft
6FP115000523024	115	22.23	8350	Medium

Ideal for working on stainless steel, aluminium and other non ferrous metals. With the SLTP deburring, cleaning and polishing applications could be accomplished. The fleece fibre construction avoids the logging of this tool. The high tool life and the less edge abrasion enhance the efficiency. Usable without supporting-place on adjustable and slow-speed angle grinders.



SLTV, Nawaroflex - for finishing and polishing				
			Packing Unit : 10	
Stock Code	Diameter	Bore	RPM	Quality
6FV115221042024	115	22.23	4900	A104
6FV115221062024	115	22.23	4900	A106

Usable without supporting-plate on adjustable and slow-speed angle grinders.



Mounted flap wheels of abrasive cloth



Mounted flap wheels of abrasive cloth				
				Packing Unit : 10
Stock Code	Diameter	Thickness	Shank	Grit Size
6FS02010	20	10	3	80
6FS02015	20	15	6	80
6FS02020	20	20	6	80,120,240
6FS02515	25	15	6	80,120
6FS03005	30	5	6	60,80,120
6FS03010	30	10	3	60,120,240,320
6FS03010	30	10	6	60,80,150
6FS03015	30	15	6	60,80,120
6FS03020	30	20	6	60
6FS04010	40	10	6	80
6FS04015	40	15	6	60,80,120,180,240,320,400
6FS04020	40	20	6	60,80,240
6FS04025	40	25	6	60,80,120
6FS04040	40	40	6	60,80,120
6FS05010	50	10	6	80
6FS05015	50	15	6	40,60,80,120,240
6FS05020	50	20	6	40,60,80,120,240
6FS05030	50	30	6	60,80,120
6FS05040	50	40	6	60,80,120
6FS06015	60	15	6	80
6FS06020	60	20	6	60,80,120
6FS06030	60	30	6	40,60,80,120,240
6FS06040	60	40	6	40,60,80,120,240
6FS06050	60	50	6	60
6FS08020	80	20	6	60,80,120
6FS08030	80	30	6	60,80,120,240
6FS08050	80	50	6	40,60,80,120

These tools consist of individual flaps of Aluminium Oxide cloth or fleece radially located around the hub of the tool; they are mainly used in hand-held power tools.

Examples of applications for cloth flappers:

- finishing
- deburring
- surface grinding
- decorative finishing
- derusting
- fettling
- bevelling



Mounted flap wheels of abrasive fleece



SFV Mounted Flap Wheels of abrasive fleece shaft mounted - Aluminium Oxide				
				Packing Unit : 10
Stock Code	Diameter	Thickness	Shank	Grit Size
6FN040200610424	40	20	6	Course A104
6FN040200610624	40	20	6	Medium A106
6FN040300610724	40	30	6	Fine A107
6FN050300610624	50	30	6	Medium A106
6FN080500610424	80	50	6	Coarse A104
6FN080500610624	80	50	6	Medium A106
6FN080500610724	80	50	6	Fine A107

Applications for fleece flappers: - matting, conditioning, polishing, finishing, fine surface finishing



SFM Combination Mounted Flap Wheels of abrasive fleece and abrasive cloth shaft mounted				
				Packing Unit : 10
Stock Code	Diameter	Thickness	Shank	Grit Size
6FN080500680024	80	50	6	Coarse A104/80

Applications for fleece flapper with abrasive cloth : - preparation work, de-rusting, pre-finishing



Flap Wheels of abrasive cloth



LSL, Flap Wheels of abrasive cloth							
						Packing Unit : 1	
Stock Code	Size	40	60	80	120	180	240
6FG1502525	150X25X25		X	X	X		X
6FG1505025	150X50X25		X	X	X	X	X
6FG2002525	200X25X25		X	X	X		X
6FG2005025	200X50X25		X	X	X		X

LSL - Flap Wheels of abrasive cloth

These wheels with various bore dimensions can be used on both hand-held and floor-stand type machines. The type LSL consists of individual flaps imbedded radially into a very substantial resin-based core.



LSL, Flap Wheels of abrasive cloth for angle grinder							
						Packing Unit : 1	
Stock Code	Size	40	60	80	120		
6FG1252014	125X20X14	X	X	X	X		

LSL - Flap wheels of abrasive cloth for angle grinder

LSL Flappers is designed to go on your standard angle grinder, mounting is made easy with a 14 mm thread. Certified to operate at 80 m/s. Currently available in 125 mm.



LSV, Flap Wheels of abrasive fleece			
			Packing Unit : 1
Stock Code	Size	Medium A106	Fine A107
6FN1502525	150X25X25	X	
6FN1505025	150X50X25	X	X



Surface Conditioning Rolls



LWL, Flap Rolls of abrasive cloth for conditioning machines				
			Packing Unit : 1	
Stock Code	Diameter	Thickness	Bore	Grit Size
6FG1001001908024	100	100	19	80

LWL - Flap rolls of abrasive cloth for conditioning machines. Application : preparation of work, deburring, de-rusting.

These rolls have a nineteen mm bore with four keyways, they are used on hand-held surface conditioning machines. These tools consists of individual flaps which are radially embedded into a resin core.



LWV, Flap Rolls of abrasive fleece for conditioning machines				
			Packing Unit : 1	
Stock Code	Diameter	Thickness	Bore	Grit Size
6FN1001001910424	100	100	19	A104
6FN1001001910624	100	100	19	A106
6FN1001001910724	100	100	19	A107

LWV - Flap rolls of abrasive fleece for conditioning machines. Application: conditioning, polishing, finishing, final finishing

This product type consists of abrasive fleece flaps, the special fleece gives the tool flexibility and conforms to the individual work piece profile.



LWM, Flap Rolls of abrasive fleece / abrasive cloth combination				
			Packing Unit : 1	
Stock Code	Diameter	Thickness	Bore	Grit Size
6FN100100198024	100	100	19	A104/80
6FN100100191524	100	100	19	A106/150

LWM - Flap rolls of abrasive fleece with abrasive cloth insert for conditioning machines

Due to the combination of coated abrasive and abrasive fleece, greater stock removal is achieved compared to the product type LWV.



Fibre Discs

★★★

Ceramic Resin Fibre Discs



Packing Unit : 25

Resin Fibre Discs

Stock Code	Size	Type	36	50	60	80			
6DC115	115 X 22	Red Ceramic	X		X	X			
6DC180	180 X 22	Red Ceramic	X	X	X				

★★★☆☆

Resin Fibre Discs



Packing Unit : 25

Resin Fibre Discs

Stock Code	Size	Type	16	24	36	60	80	100	120
6DD10016	100 x 16	RB314 Aluminium Oxide	X	X	X	X			
6DD11522	115 X 22	RB314 Aluminium Oxide		X	X	X	X	X	X
6DD11522	115 X 22	RB414 Zirconia		X	X	X	X	X	X
6DD12522	125 X 22	RB314 Aluminium Oxide	X	X	X	X	X	X	
6DD18022	180 X 22	RB314 Aluminium Oxide	X	X	X	X	X	X	X
6DD18022	180 X 22	RB414 Zirconia			X	X			

★★★☆☆

Semi Flex Discs



Packing Unit : 25

Semi Flex Discs

Stock Code	Size	Type	16	36					
6DC11522	115 X 22	Semi-Flex Sic Discs	X	X					
6DC18022	180 X 22	Semi-Flex Sic Discs	X	X					

★★★☆☆

Resin Fibre Discs



Packing Unit : 25

Resin Fibre Discs

Stock Code	Size	Type	16	24	36	60	80	100	120
6DD10016	100 x 16	Aluminium Oxide	X	X	X	X			
6DD11522	115 X 22	Aluminium Oxide	X	X	X	X	X	X	X
6DD11522	115 X 22	Zirconia		X	X	X	X	X	X
6DC11522	115 X 22	Silicone Carbide		X	X	X	X		
6DD12522	125 X 22	Aluminium Oxide	X	X	X	X	X	X	
6DD18022	180 X 22	Aluminium Oxide	X	X	X	X	X	X	
6DD18022	180 X 22	Zirconia		X	X	X	X	X	X
6DC18022	180 X 22	Silicone Carbide	X	X	X	X	X		



Velcro Discs



★★★

Velcro Discs												
									Packing Unit : 50			
VC153 - Velcro Discs (Brown Aluminium Oxide)												
Stock Code	Size	Type	40	60	80	100	120	150	220			
6ZD125	125	No Hole	X	X	X	X						
6ZD125	125	8 Holes	X	X	X	X						
6ZD150	150	No Hole	X	X	X	X	X	X	X			
6ZD150	150	6 Holes	X	X	X	X	X					
6ZD150	150	8 Holes	X	X	X	X	X					
									Packing Unit : 50			
VC152 - Stick-it Discs												
Stock Code	Size	Type	40	60	80	120	150	220				
6BD125	125	No Hole			X	X						
6BD150	150	No Hole	X	X	X	X	X	X				

★★★

Velcro Discs													
									Packing Unit : 50				
Stearate Velcro Discs, PRO-X													
Stock Code	Size	Type	60	80	100	120	150	180	220	320	400		
6ZC125	125	No Hole	X	X	X	X	X		X	X	X		
6ZC150	150	No Hole	X	X	X	X	X	X	X	X	X		
6ZC150	150	6 Hole		X			X		X	X			
									Packing Unit : 50				
Gold Velcro Disc, PRO-X													
Stock Code	Size	Type	80	100	120	150	180	220	240	320	400	600	
6ZD150	150	No Hole	X	X	X	X	X	X	X	X	X	X	
6ZD150	150	6 Hole	X	X	X	X	X	X	X	X	X	X	



Quick Change Discs - PSG



Quick Change Discs - PSG				
			Packing Unit : 50	
Stock Code	Type	Diameter	Grit	Max RPM
6SD0500605024	ZIRCONIA	50	Z60	30000
6SD0500805024	ZIRCONIA	50	Z80	30000
Quick Change Discs - PSG				
			Packing Unit : 50	
Stock Code	Type	Diameter	Grit	Max RPM
6SD0500360024	Brown Alo	50	NK36	30000
6SD0500600024	Brown Alo	50	NK60	30000
6SD0500800024	Brown Alo	50	NK80	30000
6SD0501200024	Brown Alo	50	NK120	30000
Quick Change Discs - PSG				
			Packing Unit : 50	
Stock Code	Type	Diameter	Grit	Max RPM
6SD0500901024	Fleece	50	coarse	8000
6SD0500902024	Fleece	50	medium	8000



GTG, Mandrels for quick change abrasive discs				
			Packing Unit : 10	
Stock Code	Type	Diameter	Shank	Max RPM
6SH050060024	GTG Hard	50	6	30000



Cloth Belts



★★☆

Cloth Belts for portable sanders, Belt RB320 skived with lap joint						
					Packing Unit : 10	
Stock Code	Size	40	60	80	100	120
6MB013457	13 X 457	X	X	X	X	
6MB030533	30 X 533	X	X	X	X	
6MB060400	60 X 400	X	X	X	X	
6MB065410	65 X 410	X	X	X	X	
6MB075457	75 X 457	X	X	X	X	X
6MB075480	75 X 480	X	X	X	X	
6MB075510	75 X 510	X	X	X	X	
6MB075533	75 X 533	X	X	X	X	X
6MB075610	75 X 610	X	X	X	X	
6MB100533	100 X 533	X	X	X	X	
6MB100560	100 X 560	X	X	X	X	
6MB100610	100 X 610	X	X	X	X	X
6MB100620	100 X 620	X	X	X	X	
6MB100915	100 X 915	X	X	X	X	
6MB110620	110 X 620	X	X	X	X	

Various other sizes custom made sanding belts on request in Brown Aluminium, Silicone Carbide & Zirconia material.



Surface Conditioning

★★☆

PSH - Quick change discs with non woven material, velcro self fixing system & Holder				
				Packing Unit : 10 (Discs) Packing Unit : 1 (Holder)
Stock Code	Type	Quality	Diameter	Grit
7FD115	PSH	Non Woven Disc	115	Very Fine (Blue)
7FD115	PSH	Non Woven Disc	115	Maroon (Medium)
7FD115	PSH	Non Woven Disc	115	Coarse (Brown)
6DB11514100324	GTH	Back up Pad	115	M14

★★☆

Surface Conditioning Flap Discs (AN701-50)				
				Packing Unit : 10
Stock Code	Type	Quality	Diameter	Grit
7FD1150206067	Flap Disc	Non Woven	115	Very Fine (280#)
7FD1150205067	Flap Disc	Non Woven	115	Fine (Blue) (180#)
7FD1150204067	Flap Disc	Non Woven	115	Maroon (Medium) (100#)
7FD1150203067	Flap Disc	Non Woven	115	Coarse (Brown) (80#)

★★☆

Burnishing Machine (Conditioning Machine), Cushion Wheel, Adaptor & Accessories				
				Packing Unit : 1
Stock Code	Type	Quality	Diameter	ZAR Price Excl. VAT
1BUR1001001077	Conditioning Machine 100 mm			On request
1DC94472001	Cushion Wheel			On request
1DC058014001	Cushion Adaptor 5/8 to M14			On request
	90x400 Surface Conditioning Belts			V/Fine, Fine, Medium, Coarse
	90x400 Zirconia & Brown Alu Belts			Various grits

★★☆

Felt Surface Conditioning Flap Discs & Polishing Discs				
				Packing Unit : 1
Stock Code	Type	Quality	Diameter	Grit
6FF115220103080	Flap Disc	3 mm felt	115 x 22	Felt
6FF115220106080	Flap Disc	6 mm felt	115 x 22	Felt

FORCE

PROFESSIONAL TOOLS



Power you on



DRILLS & THREADING



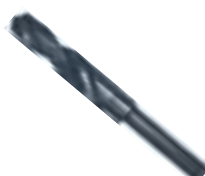
DRILLS



Straight Shank
Jobber Drills HSS



Double Ended Sheet
Metal/ Body Drills
HSS (stub drill)



Reduced Shank
Drills HSS



Straight Shank Long
Series Drills HSS



Straight Shank Extra
Long Series
Drills HSS



Masonry Drills



Center Drills
Form A HSS



Heavy Duty
SDS Drills



Morse Taper Shank
Drills HSS



Armour Piercing
Drills MTS



Parallel Shank
Countersunk
Stainless Steel



Straight Shank
Counter Bores HSS



Hand Taper Pin
Reamers HSS



Adjustable Hand
Reamers



Reduction Sleeves



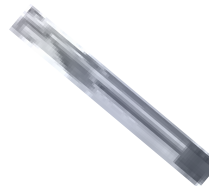
Straight Shank Jobber Drill Sets & Counter
Dispensers HSS 0.5 - 1.13mm



Slitting Saws



Extension Sockets



Slot Drills 2 Flute
Regular & Long
Series
metric & imperial



Roughing End Mills
Regular & Long
Series



End Mills Long



End Mills 3 Flute



End Mills 4 Flute



Dovetail Mills



Broach Cutter



Mill Corner
Rounding



Woodruff Mill



Ball Nose Mills
Regular & Long
Series

TAPS & DIES



Tap & Die Sets



Short Hand Taps HSS:
metric & metric fine;
imperial; BSP; NPT;
UNEF; BSPT; BSP-G



Short Hand Left
Hand Taps



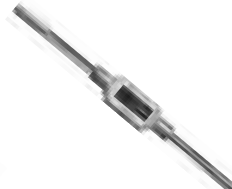
35° Spiral Flute
Machine Tap



Gun Nose
Spiral Point Machine
Taps
Yellow & Blue Ring



Die Stocks



Adjustable Tap
Wrenches HSS



Circular Solid Dies
metric & metric fine;
imperial; BSP; left
hand



Die Nuts
metric & metric fine;
imperial; BSP; left
hand



BRAZED TOOLS - ANSI

PILOT



EXTERNAL TURNING
TOOLHOLDERS

PILOT



**POSITIVE & NEGATIVE
INSERTS**

PILOT

TURNING



ENGINEERING METALS & PLASTICS



FERROUS METALS

KEY STEEL
Square

MILD STEEL
Round MS
Square MS

CARBON STEELS
EN8 Bright Round Bar
EN8 Black Round Bar
EN8 Square Bar
EN8 Hex Bar

ALLOY STEEL
EN19 As Rolled
EN19T Heat Treated
EN24 As Rolled
EN36B Case
Hardening Steel

CAST IRON
Round Bar

ST52
Hollow Bar

NON-FERROUS METALS

**PHOSPHOR
BRONZE**
Hollow Bar
Round Bar

**ALUMINUM
BRONZE**
Round Bar

OILITE BRONZE

COPPER
Round Bar
Flat Bar

ALUMINUM
Round Bar
Flat Bar

BRASS
Round Bar
Hex Bar

STAINLESS STEEL
Round Bar

SILVER STEEL
Round Bar

ENGINEERING PLASTICS

**PA 6 NATURAL
(NYLON)**
Round Bar

MOLY (NYLATRON)
Round Bar
Hollow Bar

NYLANITE
Round Bar

**HIGH-DENSITY
POLYETHYLENE
(HDPE)**
Round Bar

TEFLON (PEEK)
Round Bar

ERTALYTE (PTFE)
Round Bar
Hollow Bar



FERROUS METALS SPECIFICATIONS

080M40 (EN8) BRIGHT

BS 970	SAE (AISI)	WERKSTOFF NO
080 M 40	1040	1.1186

CHEMICAL COMPOSITION

	Minimum %	Maximum%
CARBON	0.36	0.44
SILICON	0.05	0.35
MANGANESE	0.60	1.00
SULPHUR	0.00	0.05
PHOSPHORUS	0.00	0.05

MECHANICAL PROPERTIES

	NORMAL- IZED	CONDITION	
		Q	R
Limited Ruling Section Min.	150	64	19
Tensile Strength, Tons/Sq. in. Min.	35	620/770	690/850
Yield stress, Tons/Sq. in.	18	385	465
Elongation, percent Min.	20	16	16
Izod Impact Value, Ft. LB. Min.		33,4	33,4
Brinell Hardness Number	152 / 207	179/229	201/255

STANDARD STOCK SIZES: 6mm – 330mm Diameter (Stock Availability to be confirmed)
SIZES NOT REFLECTED AVAILABLE ON ENQUIRY

TYPICAL USES:

DYNAMO AND MOTORSHAFTS, HEAT-TREATED BOLTS, CRANKSHAFTS, CONNECTING RODS, DRIVING RINGS AND FLANGES, RAILWAY COUPLINGS, AXLES, BRACKETS, HOUSINGS, MISCELLANEOUS GUN CARRIAGE AND SMALL ARMS PARTS NOT SUBJECTED TO HIGH STRESSES OR SEVERE WEAR.



HEXAGONS (EN8)

BS970	SAE (AISI)	WERKSTOFF NO
080 M 40	1040	1.1186



CHEMICAL COMPOSITION

	Minimum %	Maximum %		Minimum %	Maximum %
CARBON	0.07	0.15	CARBON	0.36	0.44
SILICON	0.00	0.40	SILICON	0.05	0.35
MANGANESE	0.90	1.30	MANGANESE	0.60	1.00
SULPHUR	0.20	0.30	SULPHUR	0.00	0.05
PHOSPHORUS	0.00	0.07	PHOSPHORUS	0.00	0.05

MECHANICAL PROPERTIES

EN1A		EN8
100	Limited Ruling Section Min.	150
23	Tensile Strength, Tons/Sq. in. Min.	35
	Yield Stress, Tons/Sq. in.	18
26	Elongation, percent Min.	20
	Izod Impact Value, Ft. LB. Min.	
103	Brinell Hardness Number	152/207

STANDARD STOCK SIZES: 10mm – 120mm Diameter (Stock Availability to be confirmed)
SIZES NOT REFLECTED AVAILABLE ON ENQUIRY

TYPICAL USES: EN1A

FOR HIGH SPEED PRODUCTION OF REPETITION WORK (E.G. MANUFACTURING OF BUSHES, PINS, BOLTS, NUTS, STUDS AND COUPLINGS) WHERE THE MAJOR REQUIREMENTS ARE RAPID MACHINING AND MAXIMUM TOOL LIFE

TYPICAL USES: EN8

DYNAMO AND MOTORSHAFTS, HEAT-TREATED BOLTS, CRANKSHAFTS, CONNECTING RODS, DRIVING RINGS AND FLANGES, RAILWAY COUPLINGS, AXLES, BRACKETS, HOUSINGS, MISCELLANEOUS GUN CARRIAGE AND SMALL ARMS PARTS NOT SUBJECTED TO HIGH STRESSES OR SEVERE WEAR.

709M40 (EN19)

● As Rolled / Heat Treated ●

BS 970	SAE (AISI)	WERKSTOFF NO
709 M 40	4140	1.7225

CHEMICAL COMPOSITION

	Minimum %	Maximum %
CARBON	0.36	0.44
SILICON	0.10	0.35
MANGANESE	0.70	1.00
CHROMIUM	0.90	1.20
MOLYBDENUM	0.25	0.35
SULPHUR	0.00	0.40
PHOSPHORUS	0.00	0.035

**MECHANICAL PROPERTIES**

	CONDITION				
	R	S	T	U	V
Limited Ruling Section; mm	254	152	102	64	29
Tensile Strength; MPa	695/849	772/926	849/1004	926/1080	1004/1158
Yield stress; Mpa Min.	495	585	680	755	850
Elongation; percent Min.	15	13	13	12	12
Izod Impact Value; Joule	28	50	50	42	42
Brinell Hardness Number	201/255	223/277	248/302	269/331	293/352

EN19 STANDARD STOCK SIZES: 16mm – 330mm Diameter (Stock Availability to be confirmed)

EN19T STANDARD STOCK SIZES: 16mm – 170mm Diameter (Stock Availability to be confirmed)

SIZES NOT REFLECTED AVAILABLE ON ENQUIRY

TYPICAL USES

AXLESHAFTS, CRANKSHAFTS, CONNECTING RODS, GEARS, HIGH TENSILE BOLTS AND STUDS, PROPELLER SHAFT JOINTS, RIFLE BARRELS AND BREECH MECHANISMS FOR SMALL ARMS PARTS, INDUCTION HARDENED TRACK PINS

817M40 (EN24)



As Rolled / Heat Treated

BS 970	SAE (AISI)	WERKSTOFF NO
817 M 40	9850	1.6565

CHEMICAL COMPOSITION

	Minimum %	Maximum %
CARBON	0.36	0.44
SILICON	0.10	0.35
MANGANESE	0.45	0.70
NICKEL	1.30	1.70
CHROMIUM	1.00	1.40
MOLYBDENUM	0.20	0.35
SULPHUR	0.00	0.04
PHOSPHORUS	0.00	0.035

MECHANICAL PROPERTIES

	CONDITION				
	T	U	V	W	X
Limited Ruling Section; mm	254	102	64	29	29
Tensile Strength; MPa	849/1004	926/1080	1004/1158	1080/1235	1158/1312
Yield stress; Mpa Min.	650	755	850	940	1020
Elongation; percent Min.	13	12	12	11	10
Izod Impact Value; Joule	35	42	42	35	28
Brinell Hardness Number	248/302	269/331	293/352	311/375	341/401

STANDARD STOCK SIZES: 110mm & 120mm Diameter (Stock Availability to be confirmed)

SIZES NOT REFLECTED AVAILABLE ON ENQUIRY

TYPICAL USES

AUTOMOBILE MAIN SHAFTS, AXLE SHAFTS, CONNECTING RODS BOLTS, SYNCHRONISING CONES, PUSH RODS, STUDS, DIFFERENTIAL

SHAFTS, MOTORCYCLE KICK STARTER, RATCHETS, PINION SLEEVES, MANDREL BARS FOR TUBE MANUFACTURING, GUN BARRELS, BREECH MECHANISM PARTS, HIGH DUTY ENGINE CONNECTING RODS, HIGH TEMPERATURE BOLTS IN OIL REFINING AND STEM INSTALLATIONS, VARIOUS PARTS OF MACHINE TOOLS SUCH AS SPINDLE GEARS, COMPENSATING WASHERS, POWER TRANSMISSION GEARS, SLIDE RACKS AND SLIDE CAMS.



655M13 (EN36B)

BS 970	SAE (AISI)	WERKSTOFF NO
655 M 13	3316	1.5752

CHEMICAL COMPOSITION

	Minimum %	Maximum%
CARBON	0.10	0.16
SILICON	0.10	0.35
MANGANESE	0.35	0.60
NICKEL	3.00	3.75
CHROMIUM	0.70	1.00
SULPHUR	0.00	0.035
PHOSPHORUS	0.00	0.040

MECHANICAL PROPERTIES

Tensile Strength; Mpa Minimum.....
 Elongation; Percent Minimum.....
 Izod Impact Value; Joule
 Brinell Hardness Number

STANDARD STOCK SIZES: 25mm – 210mm Diameter (Stock Availability to be confirmed)
 SIZES NOT REFLECTED AVAILABLE ON ENQUIRY

TYPICAL USES

HIGH DUTY GEARS FOR AIRCRAFT, AUTO AND HEAVY VEHICLE TRANSMISSION COMPONENTS, STEERING WORMS, TRACK ROD PINS, GUDGEON PINS, TIMING WHEELS, BREECH MECHANISMS AND SMALL ARMS PARTS

INTERNATIONAL EQUIVALENT TO BS SPECIFICATION

STEEL TYPE	EN	BS	DIN	AISI SAE	AFNOR	UNI
Black alloy Steels	EN19	709M40	(42CrMo 4)	4140	(42 CD 4)	40 CrMo 4
	EN24	817M40	(40 NiCrMo6)	4340	-	40 NiCrMo 7
	EN30 B	835M30	30NiCrMo16-6)	-	35NCD16	-
Black carbon Steels	EN8	080M40	ST 60	(1040)	A 60	Fe 60
	EN9	070M55	ST 70	(1050)	A 70	Fe 70
Free cutting steels	EN1A	220M07	9 SMn 28	B1112	S 200	9 SMn 28
	E11A + Pb	-	9 SMnPb 28	-	S 200 Pb	9 SMnPb 28
Case hardening steels	EN32C	080M15	Ck 15	1015	(XC 12)	c 16
	EN36B	655M13	21 NiCrMo 2	8620	20 NCD 2	20 NiCrMo 2
	EN3A	070M20	(Ck 22)	(1020)	(XC 18 S)	C 20

MISCELLANEOUS



Grommets


Tool Bits
HSS Square &
Round

Outside micrometer
0 - 125mm

Gasket Cork
1 x 1m or 1 x 1.5m

Velamoid
1 x 1m or 1 x 1.5m

Heat Shrink
Cut to Size


Dial Gauges


Measuring Verniers
manual & digital

Calipers
Inside
Magnetic base fine
adjustment


Scribers


Gauges
Radius
Thread Pitch
Feeler (metric)
Dial

Hole Saws
Sheet Metal
Tungsten Carbide
Arbours
Pilot Drills
Kits


Q Series



Spanjaard


Pretley, Tapmatic &
Cutting Fluids



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