



M A N U F A C T U R I N G G U I D E



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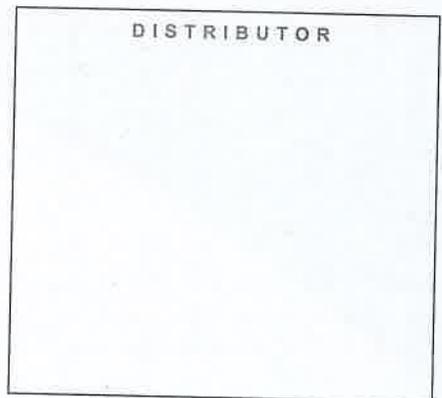
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WORLD CLASS MANUFACTURER OF CUTTING TOOLS



Manufacturers & Suppliers of Drills, Reamers, End Mills, Bore Cutters, Taps & Dies, Toolbits, Custom Tools & Surface Coating Technologies

Somta Tools was founded in 1954 by Samuel Osborn Ltd of Sheffield, England, through its subsidiaries Osborn Steels and Osborn Musher Tools. The name Somta was chosen as the acronym for these companies operating in South Africa.

Somta continues to operate from its original site on Edendale Road in Pietermaritzburg. Somta's expansion has been brought about by the acquisition of two cutting tool companies during the 1980's. Additional growth is realised by continual investment in new plant, with emphasis on state of the art CNC equipment such as Junker, Normac, Rollomatic, Walter, Reinecker and Reishauer machines.

From humble beginnings in 1954 with 20 employees, Somta has grown into one of the largest cutting tool manufacturers in the southern hemisphere, operating from offices and modern manufacturing facilities laid out over 7.5 acres of land with a complement of 600 employees.

The factory in Pietermaritzburg manufactures 25 000 standard items and a further 6 000 made-to-order items to serve the domestic and export markets in over 60 countries worldwide.

Somta Tools specialises in the design and manufacture of drills, reamers, milling cutters, toolbits, threading tools and custom tools for the industrial and "do it yourself" markets.

The company's vision of "To manufacture and supply superior cutting tools, driven by a culture of service excellence, to global and domestic markets" is supported by ISO 9001 which was achieved in 1991.

Product categories can be summarised as drills, cutters, and threading tools, which are made in a wide range of sizes, using various materials and coatings.

Providing custom industrial cutting tool solutions

The design and development of quality cutting tools together with world class manufacturing facilities have always ensured that Somta are leaders in the cutting tool industry.

Somta's standard catalogue range of precision cutting tools are supplied through an extensive network of industrial merchants, backed up by technical sales representatives who are available to provide technical assistance where required.

Should a special production application requiring specially designed custom tooling be requested, Somta is able to provide a full technical design service.



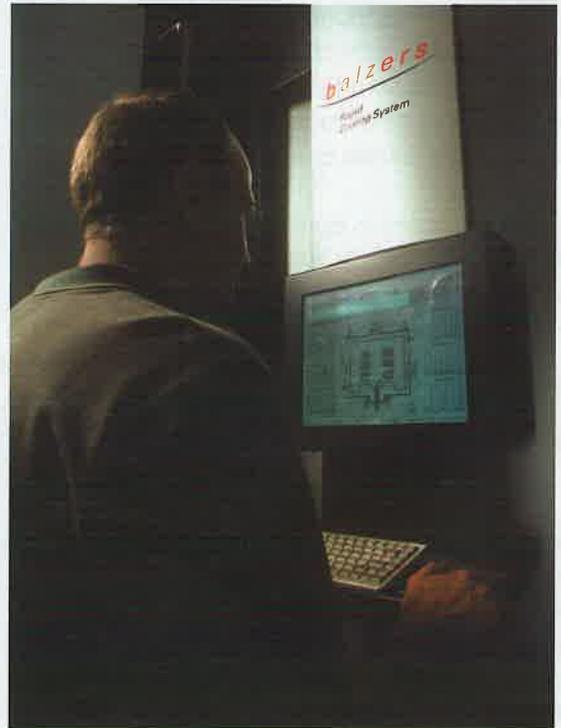


Manufacturers of precision industrial and DIY coated cutting tools.
Standard and custom designed tooling

The major functions the end user, apprentice or student can expect from Somta's technical representatives and design departments are as follows:

- Provision of technical literature to assist with the correct application of Somta's tooling.
- Assistance with and solution of any tooling design and application relating to Somta's custom tooling.
- Advice, suggestions and recommendations on product improvement or innovation. Provision of training in the use, care and resharpenering of high speed steel cutting tools on request.
- Liaison between the customer and Somta's factory estimator and production staff, to deliver the required tooling on time according to specification, to the customers complete satisfaction.

Contact our technical department on **Tel: +27 33 355 6600** or **e-mail: tech@somta.co.za** for technical assistance if experiencing a cutting tool problem.



Somta has integrated a state of the art Balzers PVD Rapid Coating System into it's manufacturing programme, offering the innovative range of Balzers BALINIT® high performance coatings on all cutting tools.



Application products



Colour Band Drills & Taps

A premium range of colour coded drills & taps, each designed with different geometry for specific material groups with enhanced efficiency over general purpose drills & taps. Major efficiency improvements are experienced in machining of high tensile, tough and ductile materials.



UD Parabolic Flute Drills

A comprehensive range of heavy duty drills designed with improved point and flute geometries for enhanced penetration and chip removal in long chip forming, short chip forming and abrasive material groups. This range of Parabolic Flute Ultra Drills are designed to meet the challenges of a broad spectrum of difficult drilling applications.



Roughing End Mills

An efficient range of roughing end mills, designed for rapid stock removal and superior finish in a single operation. The flat crest provides a better finish than conventional knuckle form cutters, while the centre cutting end teeth up to 20mm diameter provide plunge and cavity cutting capabilities, ideal for CNC machining applications.



Chipbreaker Drills

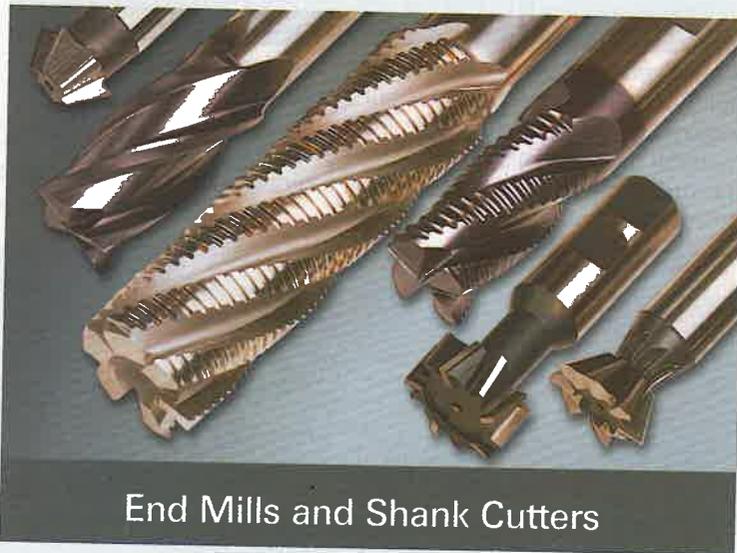
This outstanding development increases drill cutting efficiency by means of chip control. As the chipbreaker rib extends along the full length of the flutes, the chipbreaker form is maintained throughout the drill life irrespective of the number of sharpenings. The cutting action of the Chipbreaker Drill is the same as a standard drill, the cut being effected by the full length of the cutting edge, with the chip down the face of the flutes. Contact with the chipbreaker rib then curls and breaks the chip into short lengths. Drill resharpening is the same as with standard drills.



Standard products



Straight Shank Drills



End Mills and Shank Cutters



Threading Tools



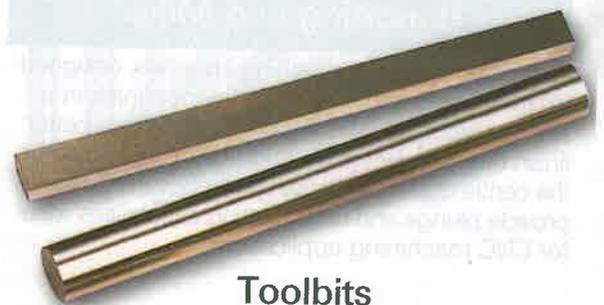
Morse Taper Shank Drills



Reamers, Countersinks &
Counterbores



Bore Cutters



Toolbits

THREADING TOOLS

PRODUCT	APPLICATION	CODE TYPE	SPEC.	RANGE
 Short Hand Taps - Metric Coarse - HSS	For hand or machine tapping of through or blind holes.	501	ISO 529	1-68
 Short Hand Taps - Metric Coarse - Left Hand - HSS	For hand or machine tapping of through or blind holes.	519	ISO 529	3-36
 STE - Short Machine Taps - Metric Coarse Spiral Point - HSSE-V3	For machine tapping of through holes.	508	ISO 529	2-36
 STE - Short Machine Taps - Metric Coarse Spiral Flute 15° - HSSE-V3	For machine tapping of blind holes.	509	ISO 529	3-24
 STE - Short Machine Taps - Metric Coarse Spiral Flute 35° - HSSE-V3	For machine tapping of blind holes.	510	ISO 529	3-24
 CBA - Yellow Band Spiral Point Taps Metric Coarse - HSSE-V3	For machine tapping of through holes in soft materials eg. Aluminium.	538	DIN 371	3-10
 CBA - Yellow Band Spiral Point Taps Metric Coarse - HSSE-V3	For machine tapping of through holes in soft materials eg. Aluminium.	548	DIN 376	12-24
 CBA - Yellow Band Spiral Flute Taps 40° Metric Coarse - HSSE-V3	For machine tapping of blind holes in soft materials eg. Aluminium.	558	DIN 371	3-10
 CBA - Yellow Band Spiral Flute Taps 40° Metric Coarse - HSSE-V3	For machine tapping of blind holes in soft materials eg. Aluminium.	569	DIN 376	12-24
 CBA - Yellow Band Fluteless Taps Metric Coarse - TiN Coated - HSSE-V3	For hand or machine tapping of through and blind holes in ductile materials	512	DIN 371	3-12
 CBA - Blue Band Spiral Point Taps Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of through holes in tough materials eg. Stainless Steel.	539	DIN 371	3-10
 CBA - Blue Band Spiral Point Taps Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of through holes in tough materials eg. Stainless Steel.	549	DIN 376	12-24
 CBA - Blue Band Spiral Flute Taps 40° Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of blind holes in tough materials eg. Stainless Steel.	559	DIN 371	3-10
 CBA - Blue Band Spiral Flute Taps 40° Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of blind holes in tough materials eg. Stainless Steel.	570	DIN 376	12-24
 CBA - Red Band Spiral Point Taps Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of through holes in high tensile materials eg. Tool Steel.	540	DIN 371	3-10
 CBA - Red Band Spiral Point Taps Metric Coarse - TiAIN Coated - HSSE-V3	For machine tapping of through holes in high tensile materials eg. Tool Steel.	550	DIN 376	12-24

Note: Red denotes Somta Premium Products

THREADING TOOLS

PRODUCT	APPLICATION	CODE TYPE	SPEC.	RANGE
 CBA - Red Band Spiral Flute Taps 15° Metric Coarse - TiAlN Coated - HSSE-V3	For machine tapping of blind holes in high tensile steels eg. Tool Steel.	564	DIN 371	3-10
 CBA - Red Band Spiral Flute Taps 15° Metric Coarse - TiAlN Coated - HSSE-V3	For machine tapping of blind holes in high tensile steels eg. Tool Steel.	576	DIN 371	12-24
 CBA - White Band Spiral Flute Taps 15° Metric Coarse - TiAlN Coated - HSSE-V3	For machine tapping of blind holes or through holes in Cast Iron	578	DIN 371	3-10
 CBA - White Band Spiral Flute Taps 15° Metric Coarse - TiAlN Coated - HSSE-V3	For machine tapping of blind holes or through holes in Cast Iron	579	DIN 376	12-24
 CBA - Green Band Spiral Point Taps Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of through holes.	561	DIN 371	3-10
 CBA - Green Band Spiral Point Taps Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of through holes.	566	DIN 376	3.5-24
 CBA - Green Band Spiral Flute Taps 15° Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of blind holes.	562	DIN 371	3-10
 CBA - Green Band Spiral Flute 15° Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of blind holes.	567	DIN 376	3.5-24
 CBA - Green Band Spiral Flute Taps 35° Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of blind holes.	563	DIN 371	3-10
 CBA - Green Band Spiral Flute Taps 35° Metric Coarse - TiN Coated - HSSE-V3	For machine tapping of blind holes.	568	DIN 376	3.5-24
 CBA - Green Band Spiral Point Taps Metric Fine - TiN Coated - HSSE-V3	For machine tapping of through holes.	572	DIN 371 DIN 374	5-24
 CBA - Green Band Spiral Flute Taps 35° Metric Fine - TiN Coated - HSSE-V3	For machine tapping of blind holes.	552	DIN 371 DIN 374	5-24
 Serial Hands Taps - Metric Coarse - HSSE-V3	For hand tapping of through or blind holes in ferrous and non-ferrous alloys.	518	DIN 352	3-24
 Short Hand Taps - Metric Coarse - HSS	For hand or machine tapping of through or blind holes.	565	DIN 376	3.5-24
 Short Hand Taps - Metric Fine - HSS	For hand or machine tapping of through or blind holes.	511	ISO 529	2-52
 STE - Short Machine Taps - Metric Fine HSSE-V3	For machine tapping of through holes.	515	ISO 529	4-24

THREADING TOOLS

PRODUCT	APPLICATION	CODE TYPE	SPEC.	RANGE
 BSW - Short Hand Taps - HSS	For hand or machine tapping of through or blind holes.	521	ISO 529	1/16-2"
 BSW - Short Machine Taps - Spiral Point HSSE-V3	For machine tapping of through holes.	526	ISO 529	1/8-1"
 BSW - Short Machine Taps - Spiral Flute 35° HSSE-V3	For machine tapping of through or blind holes.	528	ISO 529	1/8-1"
 BSF - Short Hand Taps - HSS	For hand or machine tapping of through or blind holes.	531	ISO 529	3/16-2"
 UNC - Short Hand Taps - HSS	For hand or machine tapping of through or blind holes.	541	ISO 529	No.4-2"
 UNC - Short Machine Taps - Spiral Point HSSE-V3	For machine tapping of through holes.	545	ISO 529	No.6-1"
 UNC - Short Machine Taps - Spiral Flute 35° HSSE-V3	For machine tapping of blind holes.	546	ISO 529	No.6-1"
 UNF - Short Hand Taps - HSS	For hand or machine tapping of through or blind holes.	551	ISO 529	No.4-1.1/2"
 UNF - Short Machine Taps - Spiral Point HSSE-V3	For machine tapping of through holes.	555	ISO 529	No.4-1"
 UNF - Short Machine Taps - Spiral Flute 35° HSSE-V3	For machine tapping of blind holes.	556	ISO 529	No.4-1"
 BSP - Parallel Pipe Taps - HSS	For hand or machine tapping of through or blind holes.	571	ISO 2284	1/8-3"
 BSPT - Taper Pipe Hand Taps - HSS	For hand or machine tapping of through or blind holes.	575	ISO 2284	1/8-2"
 BSW - Short Machine Taps - Spiral Point HSSE-V3	For machine tapping of blind holes.	573	ISO 2284	1/8-3/4"
 NPS - Parallel Pipe Taps - HSS	For hand or machine tapping of through or blind holes.	581	ISO 2284	1/8-2"
 NPT - Taper Pipe Taps - HSS	For hand or machine tapping of through or blind holes.	585	ISO 2284	1/8-2"
 BA - Short Hand Taps - HSS	For hand or machine tapping of through or blind holes.	591	ISO 529	12-0

Note: Red denotes Somta Premium Products



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