



CIRCULAR BRUSHES

CONE CUTTER TOOLS These tools use patented ergocentric cutters to clean hard scale from typically larger tubes that are found in boilers. The ergocentric cutters ensure that the same tooth does not touch the same spot when cleaning and prevents grooves being formed in the tube scale. All cone cutter tools are fitted with universal joints to negotiate bends in curved tubes.

1" & UP
I.D.

ONE CONE TOOL These consist of 1 Cone fitted onto a Universal Joint and are used when scale build up is not severe.

TWO CONE TOOL These consist of 2 Cones fitted onto a Universal Joint and are used when scale build up is severe.



SPARE CONE

Straight Tube I.D.		Curved Tube I.D.		One Cone Tool Model	Two Cone Tool Model	Cone Diameter		Spare Cone Model	Spare Universal Joint Model
mm	inch	mm	inch			mm	inch		
27.0-33.3	1.1/16-1.5/16	30.2-36.5	1.3/16-1.7/16	TOCT-1063	TTCT-1063	23.8	15/16	TSCT-937	TUCT-1063
31.7-36.5	1.1/4-1.7/16	36.5-42.9	1.7/16-1.11/16	TOCT-1250	TTCT-1250	27.0	1.1/16	TSCT-1062	TUCT-1250
35.0-39.7	1.3/8-1.9/16	42.9-49.2	1.11/16-1.15/16	TOCT-1375	TTCT-1375	30.2	1.3/16	TSCT-1187	TUCT-1250
38.1-46.0	1.1/2-1.13/16	49.2-55.5	1.15/16-2.3/16	TOCT-1500	TTCT-1500	36.5	1.7/16	TSCT-1437	TUCT-1250
44.5-58.7	1.3/4-2.1/16	55.5-61.9	2.3/16-2.7/16	TOCT-1750	TTCT-1750	42.9	1.11/16	TSCT-1687	TUCT-1250
50.8-60.3	2-2.3/8			TOCT-2000	TTCT-2000	49.2	1.15/16	TSCT-1937	TUCT-1250



ONE CONE TOOL



TWO CONE TOOL



THREE CONE TOOL

THREE CONE TOOL

These consist of 3 Cones fitted onto a base which is fitted with a Universal Joint and are used for cleaning larger (2.5/16" I.D. and up) tubes where scale build up is severe.

Straight Tube I.D.		Curved Tube I.D.		Three Cone Tool Model	Spare Cone Model	Spare Base Model	Spare Universal Joint Model
mm	inch	mm	inch				
58.7-73.0	2.5/16-2.7/8	61.9-79.4	2.7/16-3.1/8	TCT-2313	TSCT-937	TCTB-2313	TUCT-1250
71.4-85.7	2.13/16-3.3/8	77.8-93.7	3.1/16-3.11/16	TCT-2813	TSCT-937	TCTB-2813	TUCT-1250
84.1-96.8	3.5/16-3.13/16	92.1-103.2	3.5/8-4.1/16	TCT-3313	TSCT-1062	TCTB-2813	TUCT-1250

SCRAPER TOOLS

Scraper Tools use scraper blades that 'fly out' when the tool is rotated, coming into contact with scale and scraping it out. These tools can be coupled with brushes for simultaneous 'finishing' of the cleaning operation as with carbide drills to initially drill through tubes that have very hard deposits.

Straight Tube I.D.		Curved Tube I.D.		Scraper Tool Model
mm	inch	mm	inch	
20.6-39.7	13/16-1.9/16	23.8-46.0	15/16-1.13/16	TSCR-813
36.5-58.7	1.7/16-2.1/16	42.9-65.1	1.11/16-2.9/16	TSCR-1438
42.9-77.8	1.11/16-3.1/16	61.9-77.8	2.7/16-3.1/16	TSCR-1687



FLEX HUB ASSEMBLY



REPLACEMENT BLADES



CARBIDE DRILL



UNIVERSAL JOINT

SPARES FOR SCRAPER TOOLS

Model TSCR-813-SB Spare Set of 3 Scraping Blades for TSCR-813.

Model TSCR-1438-SB Spare Set of 3 Scraping Blades for TSCR-1438.

Model TSCR-1687-SB Spare Set of 3 Scraping Blades for TSCR-1687.

Model TCB-750 Carbide Drill for use with TSCR-1438Scraper tool to drill through tubes with very hard deposits.

Model TCB-875 Carbide Drill for use with TSCR-1687Scraper tool to drill through tubes with very hard deposits.

Model TUCT-1250Universal Joint for use with scraper tool for use with curved tubes.



CUTTER TOOLS

1" & UP
I.D.

COMBINATION CONE-CARBIDE DRILL TOOL

These combination tools use the extreme hardness of a carbide drill coupled with the ergonomic cleaning properties of cone cleaning cutters to drill through and simultaneously clean tubes that are choked with very hard deposits.

Tube I.D.		Combination Cone-Carbide Drill Tool Model
mm	inch	
23.8-27.0	15/16-1.1/16	TCCD-938
27.0-30.2	1.1/16-1.3/16	TCCD-1063
30.2-36.5	1.3/16-1.7/16	TCCD-1188
36.5-42.9	1.7/16-1.11/16	TCCD-1438
42.9-49.2	1.11/16-1.15/16	TCCD-1687



COMBINATION CONE-CARBIDE DRILL TOOL

CYLINDER CUTTER TOOL

These tools are used typically in boilers and other larger tubes that have a light to medium deposit. These tools use patented ergonomic cutting wheels that ensure the same tooth of the cutter wheel does not touch the same spot when cleaning. This prevents grooves being formed in the tube scale. The cutters 'fly out' when the tool is rotated and perform cleaning action.

Tube I.D.		Cylinder Cutter Tool Model	Spare Cylinder Cutter Model
mm	inch		
36.5-47.6	1.7/16-1.7/8	TCCD-1438	TCYC - 1438
46.0-73.0	1.13/16-2.7/8	TCCD-1813	TCYC - 1438
55.5-81.0	2.3/16-3.3/16	TCCD-2188	TCYC - 2188
79.4-98.4	3.1/8-3.7/8	TCCD-3125	TCYC - 2188



CYLINDER CUTTER TOOL

WING TOOLS-STIFF ARM CUTTER

These tools use long stiff arms with patented cone cutters on their ends, that spread out when rotated. These tools are used to clean light to medium deposits in large diameter tubes and pipes.

Tube I.D.		Wing Tool-Stiff Arm Cutter Model	Spare Cone Cutter Model
mm	inch		
42.9-101.6	1.11/16-4	TWTS-1688	TSCT-937
100.0-165.1	3.15/16-6.1/2	TWTS-3938	TSCT-937



WING TOOLS-STIFF ARM CUTTER

WING TOOLS-FLEXIBLE ARM CUTTER

These tools are similar in operation to the Stiff Arm Winged Tools, but patented Cone Cutters are attached onto flexible arms. These tools are used in typically very large vertical pipes and are used in cleaning pipes from top to bottom.

Tube I.D.		Wing Tool - Flexible Arm Cutter Model	Spare Cone Cutter Model
mm	inch		
100.0-309.0	3.15/16-12	TWTF-3938	TSCT-937



WING TOOLS-FLEXIBLE ARM CUTTER

WING TOOLS-FLEXIBLE ARM-CARBIDE BALL TIP

These tools are similar in operation to the Flexible Arm Cutter Wing Tools except these use carbide balls for removing light scale in large diameter tubes and pipes.

Tube I.D.		Wing Tool - Flexible Arm Carbide Ball Tip Model	Number of Balls Used
mm	inch		
23.8-52.4	15/16-2.1/16	TWTC-938	4
49.2-103.2	1.15/16-4.1/16	TWTC-1938	6
100.0-204.8	3.15/16-8.1/16	TWTC-3938	6



WING TOOLS-FLEXIBLE ARM-CARBIDE BALL TIP

WING TOOLS-FLEXIBLE NYLON ROD

These tools are fitted with abrasive nylon rods that spread out when rotated. These tools are used to clean light deposits in thin tubes and pipes of exotic materials where damage to tubes is to be avoided.

Tube I.D.		Wing Tool - Flexible Nylon Rod Model
mm	inch	
49.2-431.8	1.15/16-17	TWTN-1938



WING TOOLS-FLEXIBLE NYLON ROD