

Chamber Cleaning Tools

ScrubWRIGHT™ P/N: FTPEN-1



A unique tool for cleaning small, hard to reach areas. Interchangeable belt-shaped Diamond ScrubBELTS® in various grits create a versatile instrument perfect for polishing stains, scratches and process-induced residue from scratch sensitive surfaces. Spring adjustable for easy mounting and rotation of ScrubWRIGHT® ScrubBELT®.

ADVANTAGES

- **IMPROVED COST OF OWNERSHIP "COO":** Enables in-chamber cleaning of parts and eliminates Downtime and High Cost associated with removing and sending parts out for cleaning
- **HELPS REDUCE PARTICLES:** Effectively removes deposition from areas Critical to Process (Edge of ESC, Beam Defining Apertures...) to prevent unwanted flaking
- **SAFELY REMOVES DEPOSITION FROM SENSITIVE AREAS:** Able to focus Diamond ScrubBELT® directly onto a small area of deposition, preventing excess wear in surrounding areas
- **REDUCES DAMAGE TO CRITICAL PARTS:** Eliminates having to use ScotchBrite, razor blades and ceramic knives.
- **WIDE SELECTION OF DIAMOND ScrubBELTS®:** Allows for quick removal of deposition from aluminum, stainless steel, ceramic, glass, quartz and anodized surfaces

DESCRIPTION

PART NUMBER	DIMENSIONS	TIP DIMENSIONS	MATERIAL	ScrubBELTS®
FTPEN-1	165mm x 13mm x 10mm	6mm/15° Angle	High Impact Plastic w/Spring-Tensioned Attachment Mechanism	Diamond Grit: 280 to 1350 (See Pg 4 for P/N)



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cleaning critical surfaces





ErgoWRENCH®



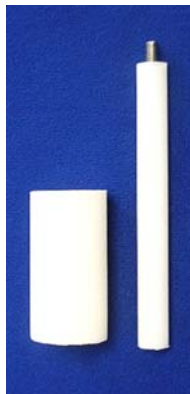
FT822 with 6" Handle (FT850) and Grip (HT5004)

Unique tool used for safer and more efficient scrubbing of hard to reach areas throughout vacuum chambers. The soft ergonomic grip provides ease of use, while stiff swivel head can be adjusted to optimize scrubbing angles. Different size Heads and Handles are interchangeable, which allows the ErgoWRENCH® to be adjusted for different applications.

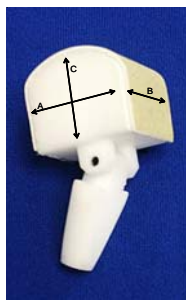
ADVANTAGES

-  **IMPROVES TOOL AVAILABILITY:** Reduces scrub-time by focusing Diamond ScrubPAD directly onto Heavy Deposition buildup, quickly taking chamber back to bare metal.
-  **HELPS REDUCE PARTICLES:** Removes Heavy Deposition from areas Critical to Production, preventing unwanted flaking.
-  **SAFELY REMOVES DEPOSITION FROM SENSITIVE AREAS:** Able to focus Diamond ScrubPAD directly onto area of deposition to prevent excess wear of surrounding areas
-  **WIDE SELECTION OF DIAMOND ScrubPADS:** Allows for quick removal of deposition from aluminum, stainless steel, ceramic, glass, quartz and anodized surfaces while minimizing tool wear.

DESCRIPTION



HT5004 GRIP
FT850 HANDLE



FT821R LARGE SWIVEL HEAD
(38.1 x 38.1 x 38.1)



FT823R LARGE SWIVEL HEAD
(Rotates 90°)
(38.1 x 38.1 x 38.1)



FT822R MEDIUM SWIVEL HEAD
(21.6 x 38.1 x 29.2)



FT824R SMALL SWIVEL HEAD
(12.7 x 38.1 x 22.8)

All head measurements (A x B x C) are in millimeters.

FEATURES	MATERIAL	ScrubPADS
Swivel Parallel to Curve (FT823R Swivel Perpendicular to Curve)	Delrin Plastic w/Hook for ScrubPAD Attachment	280, 360 & 800 Diamond Grits Available (See Pg 4 for P/N's)

cleaning critical surfaces

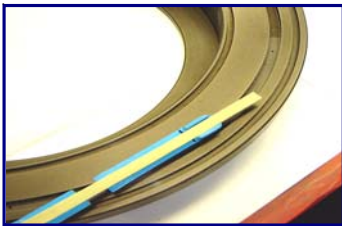
VAT VALVE PM HANDLE



FT830 with FT852 18" Handle

A unique tool used to reach back into the deep areas of confined spaces, such as VAT Valves, Beam-Lines, Pump-Ports, Chamber Throats...

APPLICATIONS



FTPEN-1

- O-RING GROOVES
- DETAILED AREAS



ErgoWRENCH®

- HEAVY DEPOSITION BUILD-UP AREAS
- HARD TO REACH AREAS



VAT VALVE PM HANDLE

- FITS INTO TIGHT AREAS
- REACHES BACK INTO TIGHT AREAS



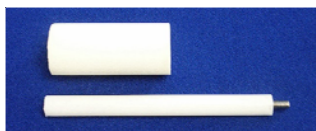
PARTS LIST



ScrubWRIGHT®		ScrubBELTS®	
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
FTPEN-1	ScrubWRIGHT® PEN	HT4528DW-5	280 Grit Diamond ScrubBELTS
		HT4536DW-5	360 Grit Diamond ScrubBELTS
		HT4580DW-5	800 Grit Diamond ScrubBELTS
		HT4513PDW-5	1350 Grit Diamond ScrubBELTS



ErgoWRENCH® HEAD		ErgoWRENCH® ScrubPADS			
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION		
FT818	FIXED SQUARE HEAD	HT4528DR5-1	280 Grit Diamond ScrubPAD		
		HT47818	UltraSOLV® Foam Wiper		
		HT57818	MiraWIPE® Over Foam		
FT821	FIXED HEAD	HT4528D81-1	280 Grit Diamond ScrubPAD		
FT821R	SWIVEL HEAD: <u>LARGE</u>	HT4536D81-1	360 Grit Diamond ScrubPAD		
		HT4580D81-1	800 Grit Diamond ScrubPAD		
		HT4528D82-1	280 Grit Diamond ScrubPAD		
FT822	FIXED HEAD	HT4536D82-1	360 Grit Diamond ScrubPAD		
		FT822R	SWIVEL HEAD: <u>MEDIUM</u>	HT4580D82-1	800 Grit Diamond ScrubPAD
				HT4528D81-1	280 Grit Diamond ScrubPAD
FT823	SWIVEL HEAD: <u>LARGE</u> (ROTATES 90° FROM FT821R HEAD)	HT4536D81-1	360 Grit Diamond ScrubPAD		
		HT4580D81-1	800 Grit Diamond ScrubPAD		
		FT824	FIXED HEAD	HT4528D83-1	280 Grit Diamond ScrubPAD
FT824R	SWIVEL HEAD: <u>SMALL</u>			HT4536D83-1	360 Grit Diamond ScrubPAD
				HT4580D83-1	800 Grit Diamond ScrubPAD



HT5004 Grip & FT850 Handle

HANDLES INTERCHANGEABLE WITH ALL HEADS		VAT VALVE HEADS - FIXED		
FT850	6" HANDLE	FT830 VAT VALVE PM HEAD		
FT851	12" HANDLE			
FT852	18" HANDLE			
HT5004	FOAM GRIP	HT4528D84A-1	280 Grit Diamond ScrubPAD	
		HT4528D85B-2		
		HT47830A-1	UltraSOLV® Foam Wiper	
		HT47830B-2		
		HT57830A-1		MiraWIPE® Over Foam
		HT57830B-2		

Rev. C