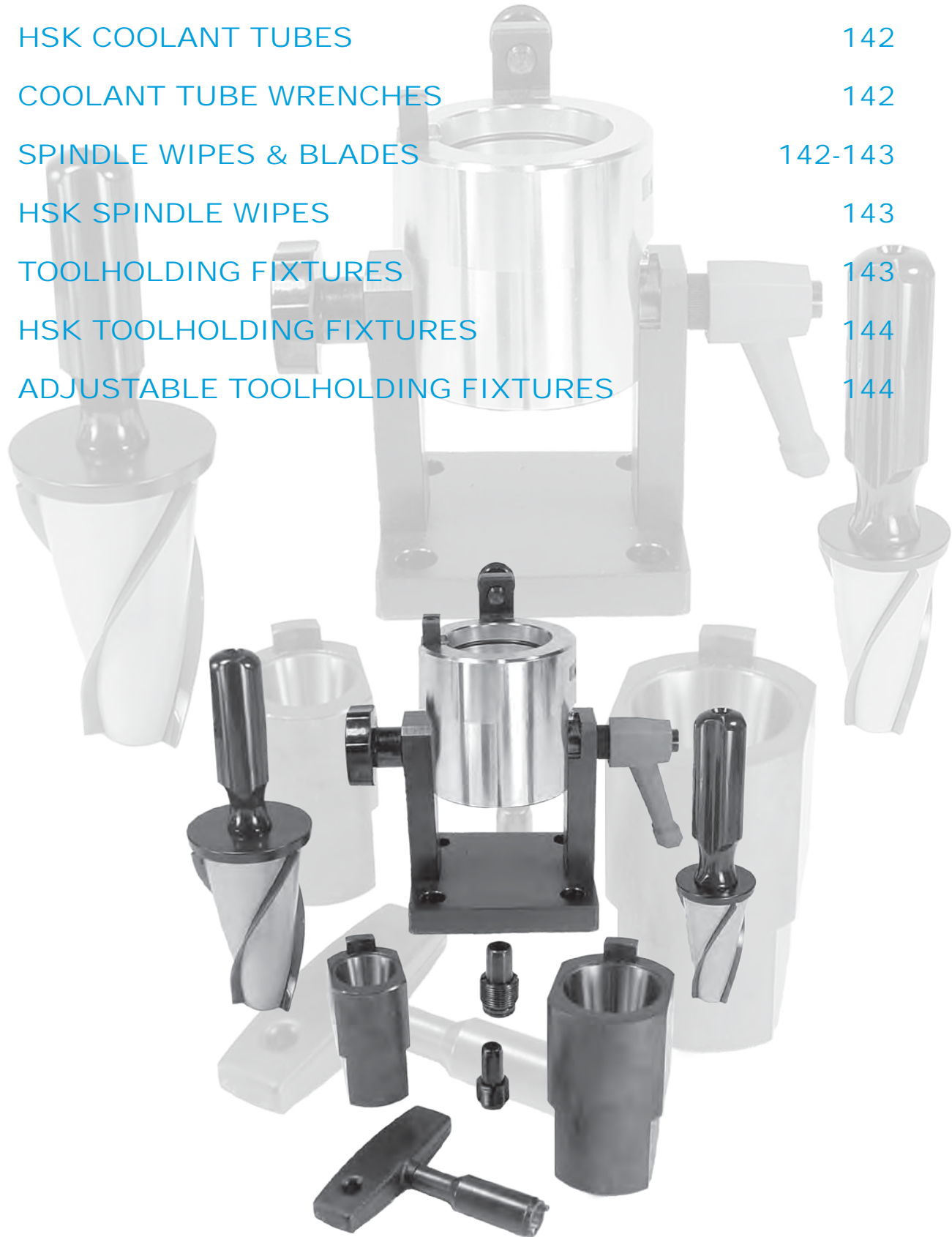


HSK COOLANT TUBES	142
COOLANT TUBE WRENCHES	142
SPINDLE WIPES & BLADES	142-143
HSK SPINDLE WIPES	143
TOOLHOLDING FIXTURES	143
HSK TOOLHOLDING FIXTURES	144
ADJUSTABLE TOOLHOLDING FIXTURES	144



SHELL MILL
HOLDERS

END MILL
HOLDERS

MILLING
CHUCKS

SHRINK FIT
HOLDERS

COLLET
CHUCKS

RADIAL
COMP.
HOLDERS

DRILL
CHUCKS

TAP
HOLDERS

BLANK
BARS

RETENTION
STUDS

ACCESSORIES

TECHNICAL
INFO.

INDEX

SHELL MILL
HOLDERS

END MILL
HOLDERS

MILLING
CHUCKS

SHRINK FIT
HOLDERS

COLLET
CHUCKS

RADIAL
COMP.
HOLDERS

DRILL
CHUCKS

TAP
HOLDERS

BLANK
BARS

RETENTION
STUDS

ACCESSORIES

TECHNICAL
INFO.

INDEX



HSK COOLANT TUBES

PART NUMBER	DESCRIPTION
HSK32-CTC	HSK32 Coolant Tubes
HSK40-CTC	HSK40 Coolant Tubes
HSK50-CTC	HSK50 Coolant Tubes
HSK63-CTC	HSK63 Coolant Tubes
HSK80-CTC	HSK80 Coolant Tubes
HSK100-CTC	HSK100 Coolant Tubes

Coolant tubes are used for coolant thru the tool on HSK toolholders. Coolant tubes are a two-piece design utilizing two rubber O-rings.



HSK COOLANT TUBE WRENCHES

PART NUMBER	DESCRIPTION
HSK32-WTC	HSK32 Coolant Tube Wrench
HSK40-WTC	HSK40 Coolant Tube Wrench
HSK50-WTC	HSK50 Coolant Tube Wrench
HSK63-WTC	HSK63 Coolant Tube Wrench
HSK80-WTC	HSK80 Coolant Tube Wrench
HSK100-WTC	HSK100 Coolant Tube Wrench

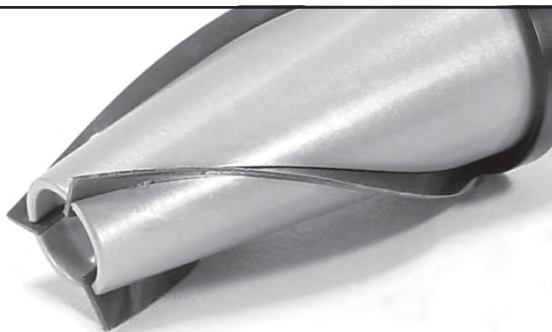
Coolant tube wrenches are intended for use with slotted coolant tubes.



SPINDLE WIPES

PART NUMBER	DESCRIPTION
SW-30	30 Taper Spindle Wipe
SW-40	40 Taper Spindle Wipe
SW-50	50 Taper Spindle Wipe

Spindle Wipes are an essential tool for precision machining. They assure the most important connection - the one between the spindle and toolholder, is free of contaminants allowing continuous positive contact. Spindle Wipes include a set of standard cleaning (STD) and a set of varnish removal (VRB) blades.



SPINDLE WIPE BLADES

PART NUMBER	DESCRIPTION
SW-30STD	30 Taper Standard Cleaning Blades
SW-30VRB	30 Taper Varnish Removal Blades
SW-30PBS	30 Taper Even Polishing Blades
SW-40STD	40 Taper Standard Cleaning Blades
SW-40VRB	40 Taper Varnish Removal Blades
SW-40PBS	40 Taper Even Polishing Blades
SW-50STD	50 Taper Standard Cleaning Blades
SW-50VRB	50 Taper Varnish Removal Blades
SW-50PBS	50 Taper Even Polishing Blades



HSK SPINDLE WIPES

PART NUMBER	DESCRIPTION
SW-HSK32	HSK32 Spindle Wipe
SW-HSK40	HSK40 Spindle Wipe
SW-HSK50	HSK50 Spindle Wipe
SW-HSK63	HSK63 Spindle Wipe
SW-HSK80	HSK80 Spindle Wipe
SW-HSK100	HSK100 Spindle Wipe

Spindle Wipes assure the most important connection - the one between the spindle and toolholder, is free of contaminants allowing continuous positive contact.



TOOL HOLDING FIXTURES

PART NUMBER	DESCRIPTION
THF30	30 Taper Tool Holding Fixture
THF40	40 Taper Tool Holding Fixture
THF50	50 Taper Tool Holding Fixture

Tool Holding Fixtures have an internal ground taper to prevent any damage from occurring to your toolholder taper.

Flats have been machined along the sides, making it easier to mount in your bench vise.

SHELL MILL
HOLDERS

END MILL
HOLDERS

MILLING
CHUCKS

SHRINK FIT
HOLDERS

COLLET
CHUCKS

RADIAL
COMP.
HOLDERS

DRILL
CHUCKS

TAP
HOLDERS

BLANK
BARS

RETENTION
STUDS

ACCESSORIES

TECHNICAL
INFO.

INDEX

SHELL MILL
HOLDERS

END MILL
HOLDERS

MILLING
CHUCKS

SHRINK FIT
HOLDERS

COLLET
CHUCKS

RADIAL
COMP.
HOLDERS

DRILL
CHUCKS

TAP
HOLDERS

BLANK
BARS

RETENTION
STUDS

ACCESSORIES

TECHNICAL
INFO.

INDEX



HSK TOOLHOLDING FIXTURES

PART NUMBER	DESCRIPTION
HSK40-THF	HSK40 Tool Holding Fixture
HSK50-THF	HSK50 Tool Holding Fixture
HSK63-THF	HSK63 Tool Holding Fixture
HSK80-THF	HSK80 Tool Holding Fixture
HSK100-THF	HSK100 Tool Holding Fixture

The HSK Tool Holding Fixtures accept all forms of HSK from A-F (including pin style) eliminating **the need for form specific fixtures.**

A special roller bearing clamps the toolholder **on the flange diameter protecting the taper** from contact. The open bottom allows for easy access to the coolant tube.

Four mounting holes are provided for easy mounting to either a workbench or tool cart.



ADJUSTABLE TOOLHOLDING FIXTURES

PART NUMBER	DESCRIPTION
30-ATHF	30 Taper Adjustable Tool Holding Fixture
40-ATHF	40 Taper Adjustable Tool Holding Fixture
50-ATHF	50 Taper Adjustable Tool Holding Fixture

The Adjustable Tool Holding Fixture accepts all forms of 30, 40 or 50 Steep Taper.

The fixture can be locked in the vertical or horizontal position depending upon the operation desired. Simply lock the tool in place with **the thumb screw, position the fixture, using the large knob, to the desired angle and tighten the lever.** Easy access to either the cutting tool or retention stud is gained by **adjusting the fixture.**

Four mounting holes are provided for easy mounting to either a workbench or toolcart.