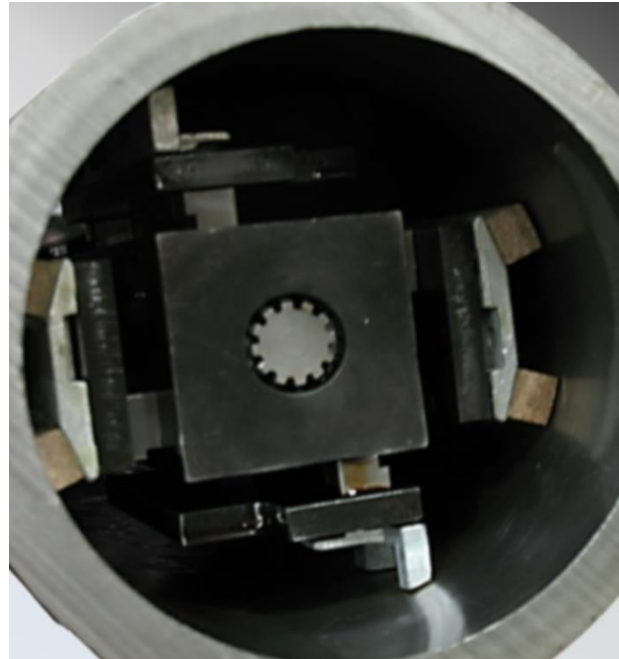




VHT MODULAR SERIES AND MANDREL HONING STONES



Replacement Abrasives and Oils for All Major Brands of Honing Equipment

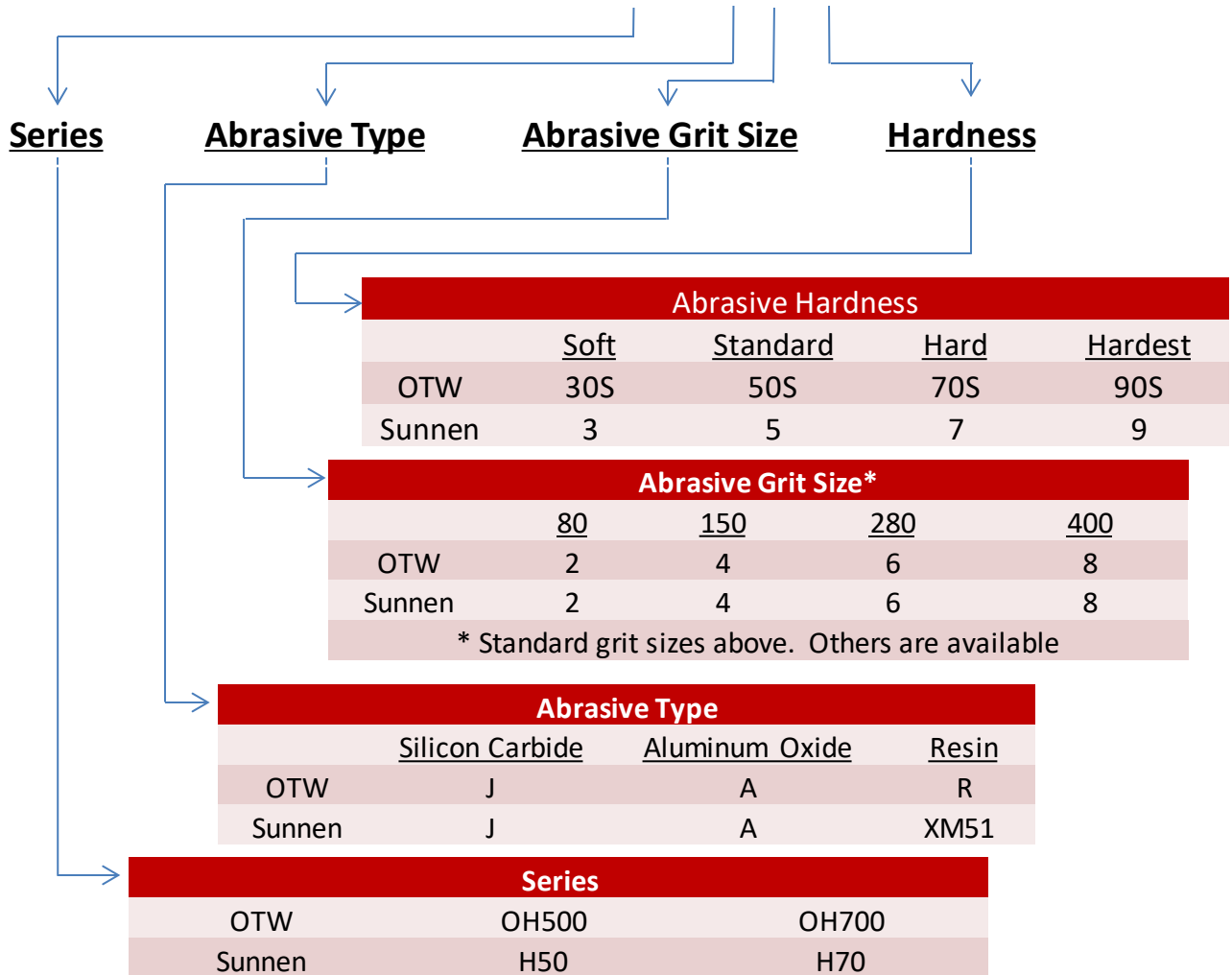
Conventional Vitrified

11% more usable abrasive & sulfur filled

Sunnen Stone Code: H70A45



OTW Stone Code: **OH700 A 4 50 S**



“OH-Series” Abrasives

Recommended Abrasive Selection by Material Type

Material	Fast Stock Removal in Drilled, Bored, or Ground Bores				Fine Finishing Typically in Previously Honed Bores			
	Abrasive Specification		Approx. Finish Ra		Abrasive Specification		Approx. Finish Ra	
	OTW	Sunnen	Inch	Metric	OTW	Sunnen	Inch	Metric
Aluminum	J450S	J45	80	2,00	J850S	J85	15	0,38
Cast Iron	J450S	J45	32	0,80	J850S	J85	6	0,15
Steel (< 50 HRC)	A450S	A45	40	1,00	J850S	J85	12	0,30
Steel (> 50 HRC)	A430S	A43	20	0,50	J850S	J85	6	0,15

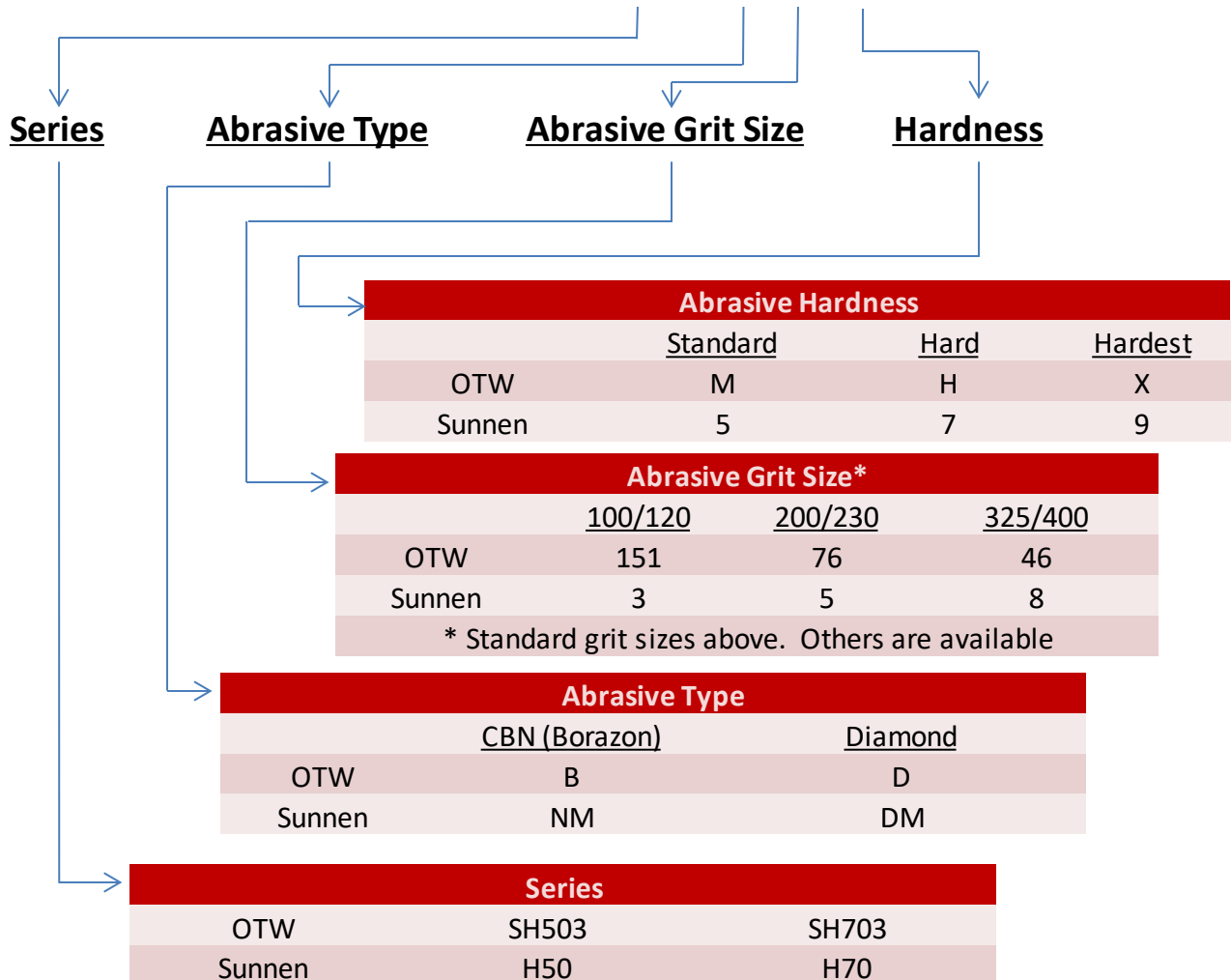
Metal Bond Superabrasives

Up to 50% more usable abrasive

Sunnen Stone Code: H70NM55



OTW Stone Code: **SH703-B 76-M**



Recommended Abrasive Selection by Material Type

Fast Stock Removal

in Drilled, Bored, or Ground Bores

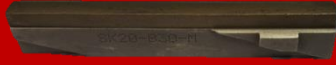
Fine Finishing

Typically in Previously Honed Bores

Material	Abrasive Specification		Approx. Finish Ra		Abrasive Specification		Approx. Finish Ra	
	OTW	Sunnen	Inch	Metric	OTW	Sunnen	Inch	Metric
Aluminum	D46-M	DM85	50	1,25	D30-M	DM05	35	0,88
Carbide	D76-M	DM55	20	0,50	D30-M	DM05	3	0,08
Cast Iron	D76-M	DM55	80	2,00	D30-M	DM05	20	0,50
Ceramic	D76-M	DM55	40	1,00	D30-M	DM05	15	0,38
Steel (< 50 HRC)	B76-M	NM55	40	1,00	B30-M	NM05	16	0,40
Steel (> 50 HRC)	B76-M	NM55	25	0,62	B30-M	NM05	7	0,18

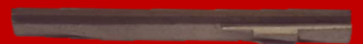


SK Series



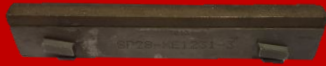
Bore Size- Inch (mm)	OTW	Sunnen
0.100 - 0.120 (2.54 - 3.05)	SK3	K3
0.120 - 0.150 (3.05 - 3.81)	SK4	K4
0.150 - 0.185 (3.81 - 4.70)	SK5	K5
0.185 - 0.245 (4.70 - 6.22)	SK6	K6
0.245 - 0.308 (6.22 - 7.82)	SK8	K8
0.308 - 0.370 (7.82 - 9.40)	SK10	K10
0.370 - 0.495 (9.40 - 12.57)	SK12	K12
0.495 - 0.619 (12.57 - 15.72)	SK16	K16
0.619 - 0.744 (15.72 - 18.90)	SK20	K20

SL Series



Bore Size- Inch (mm)	OTW	Sunnen
0.100 - 0.120 (2.54 - 3.05)	SL3	L3
0.120 - 0.150 (3.05 - 3.81)	SL4	L4
0.150 - 0.185 (3.81 - 4.70)	SL5	L5
0.185 - 0.245 (4.70 - 6.22)	SL6	L6
0.245 - 0.308 (6.22 - 7.82)	SL8	L8
0.308 - 0.370 (7.82 - 9.40)	SL10	L10
0.370 - 0.495 (9.40 - 12.57)	SL12	L12
0.495 - 0.619 (12.57 - 15.72)	SL16	L16
0.619 - 0.744 (15.72 - 18.90)	SL20	L20

SP Series



Bore Size- Inch (mm)	OTW	Sunnen
0.619 - 1.00 (15.72 - 25.40)	SP20	P20
1.000 - 6.00 (25.40 - 152.40)	SP28	P28
1.000 - 6.00 (25.40 - 152.40)	SR28	R28

Recommended Abrasive Selection by Material Type

Material	Fast Stock Removal in Drilled, Bored, or Ground Bores				Fine Finishing Typically in Previously Honed Bores			
	Abrasive Specification		Approx. Finish Ra		Abrasive Specification		Approx. Finish Ra	
	OTW	Sunnen	Inch	Metric	OTW	Sunnen	Inch	Metric
Aluminum	D46-M	DM85	50	1,25	D30-M	DM05	35	0,88
Carbide	D76-M	DM55	20	0,50	D30-M	DM05	3	0,08
Cast Iron	D76-M	DM55	80	2,00	D30-M	DM05	20	0,50
Ceramic	D76-M	DM55	40	1,00	D30-M	DM05	15	0,38
Steel (< 50 HRC)	B76-M	NM55	40	1,00	B30-M	NM05	16	0,40
Steel (> 50 HRC)	B76-M	NM55	25	0,62	B30-M	NM05	7	0,18

Stone Code Conversion

For Standard Products

Sunnen Stone Code: K12NM55



OTW Stone Code: **SK12-B-76 M**

Series

Abrasive Type

Abrasive Grit Size

Hardness

Abrasive Type		
	<u>CBN (Borazon)</u>	<u>Diamond</u>
OTW	B	D
Sunnen	NM	DM

Abrasive Hardness			
	<u>Standard</u>	<u>Hard</u>	<u>Hardest</u>
OTW	M	H	X
Sunnen	5	7	9

Abrasive Grit Size		
<u>Grit Size</u>	<u>OTW</u>	<u>Sunnen</u>
60/80	252	1
80/100	181	3
120/140	126	4
200/230	76	5
230/270	64	6
325/400	46	8
450	45	9
600	30	0
800	25	90
1200	15	00

↑ COURSER
↓ FINER

Stone Inserted Super Mandrels

These mandrels are for applications where a long lasting mandrel is desired. The advantages of using these super mandrels compared to standard mandrels:

1. Consist size, geometry, and finish of the workpiece.
2. Reduced setup time due to the fact of the mandrels long life compared to standard mandrels.

For Special Abrasives Needs or Application Assistance

Contact Us at (419)281-3700 or info@ohiotoolworks.com



Conventional Vitrified

Sunnen Stone Code: W47A45

↓
OTW Stone Code: **OH-W470 - A 4 50**

Series **Abrasive Type** **Abrasive Grit Size** **Hardness**

Abrasive Hardness				
	<u>Soft</u>	<u>Standard</u>	<u>Hard</u>	<u>Hardest</u>
OTW	30	50	70	90
Sunnen	3	5	7	9

Abrasive Grit Size*				
	<u>80</u>	<u>150</u>	<u>280</u>	<u>400</u>
OTW	2	4	6	8
Sunnen	2	4	6	8

* Standard grit sizes above. Others are available

Abrasive Type			
	<u>Silicon Carbide</u>	<u>Aluminum Oxide</u>	<u>Resin</u>
OTW	J	A	R A41
Sunnen	J	A	XM51

Series (Diameter Range)				
	2.5" - 2.7"	2.7" - 4.1"	3.5" - 5.5"	4.1" - 60"
OTW	OH-G250	OH-M270	OH-N370	OH-W470
Sunnen	G25	M27	N37	W47



“Portable” Abrasives

Metal Bond Superabrasives

Sunnen Stone Code: W47NM55

↓
OTW Stone Code: **OH-W470 - B 76 M**

Series **Abrasive Type** **Abrasive Grit Size** **Hardness**

Abrasive Hardness			
	Standard	Hard	Hardest
OTW	M	H	X
Sunnen	5	7	9

Abrasive Grit Size*				
	<u>100/120</u>	<u>200/230</u>	<u>325/400</u>	<u>600</u>
OTW	151	76	46	30
Sunnen	3	5	8	00

* Standard grit sizes above. Others are available

Abrasive Type		
	<u>CBN (Borazon)</u>	<u>Diamond</u>
OTW	B	D
Sunnen	NM	DM

Series (Diameter Range)				
	2.5" - 2.7"	2.7" - 4.1"	3.5" - 5.5"	4.1" - 60"
OTW	OH-G250	OH-M270	OH-N370	OH-W470
Sunnen	G25	M27	N37	W47

For Special Abrasives Needs or Application Assistance
Contact Us at (419)281-3700 or info@ohiotoolworks.com



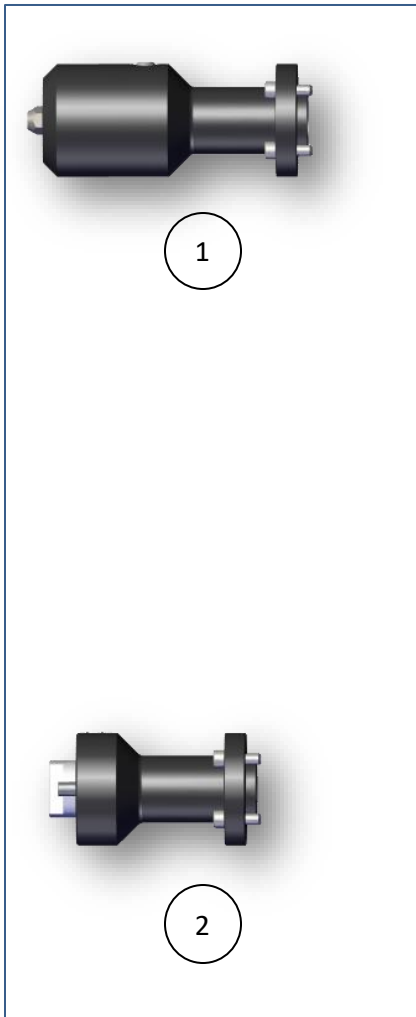
Selection Guide

“Portable” Selection Guide

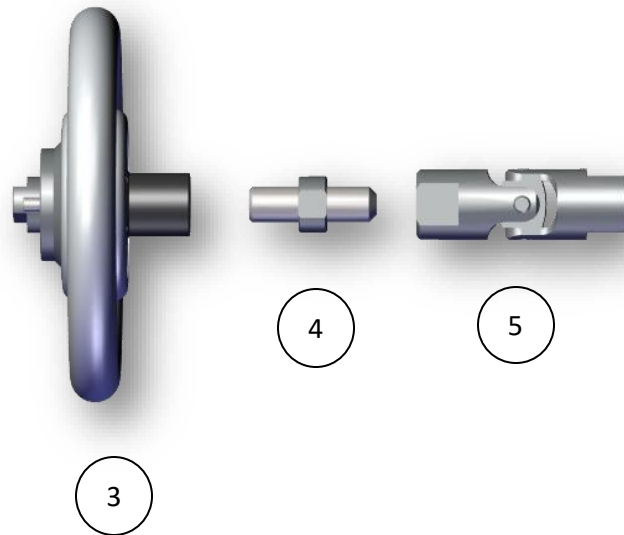
Conventional Vitrified	Fast stock Removal in Drilled, Bored or Ground Bores						
		2.5" - 2.7" 64-69 mm	2.7" - 4.1" 69-104 mm	3.5" - 5.5" 89-140 mm	4.1" - 60" 104-1524 mm	Approx. Finish (Ra)	
						Inch	Metric
	Aluminum	OH-G250-J450	OH-M270-J450	OH-N370-J450	OH-W470-J450	80	2.00
	Brass	OH-G250-J450	OH-M270-J450	OH-N370-J450	OH-W470-J450	32	0.80
	Bronze	OH-G250-J450	OH-M270-J450	OH-N370-J450	OH-W470-J450	80	2.00
	Cast Iron	OH-G250-J450	OH-M270-J450	OH-N370-J450	OH-W470-J450	32	0.80
	Steel Soft < 50 HRC	OH-G250-A450	OH-M270-A450	OH-N370-A450	OH-W470-A450	36	0.85
	Steel Hard > 50 HRC	OH-G250-A430	OH-M270-A430	OH-N370-A430	OH-W470-A430	20	0.50
	Fine Finishing Typically in Previously Honed Bores						
		2.5" - 2.7" 64-69 mm	2.7" - 4.1" 69-104 mm	3.5" - 5.5" 89-140 mm	4.1" - 60" 104-1524 mm	Approx. Finish (Ra)	
						Inch	Metric
Aluminum	OH-G250-J870	OH-M270-J870	OH-N370-J870	OH-W470-J870	15	0.38	
Brass	OH-G250-J870	OH-M270-J870	OH-N370-J870	OH-W470-J870	15	0.38	
Bronze	OH-G250-J870	OH-M270-J870	OH-N370-J870	OH-W470-J870	15	0.38	
Cast Iron	OH-G250-J870	OH-M270-J870	OH-N370-J870	OH-W470-J870	6	0.15	
Steel Soft < 50 HRC	OH-G250-J870	OH-M270-J870	OH-N370-J870	OH-W470-J870	7	0.18	
Steel Hard > 50 HRC	OH-G250-J850	OH-M270-J850	OH-N370-J850	OH-W470-J850	5	0.13	
Metalbond Super-abrasives	Fast stock Removal in Drilled, Bored or Ground Bores						
		2.5" - 2.7" 64-69 mm	2.7" - 4.1" 69-104 mm	3.5" - 5.5" 89-140 mm	4.1" - 60" 104-1524 mm	Approx. Finish (Ra)	
						Inch	Metric
	Aluminum	OH-G250-D46-M	OH-M270-D46-M	OH-N370-D46-M	OH-W470-D46-M	50	1.25
	Carbide	OH-G250-D76-M	OH-M270-D76-M	OH-N370-D76-M	OH-W470-D76-M	20	0.50
	Cast Iron	OH-G250-D76-M	OH-M270-D76-M	OH-N370-D76-M	OH-W470-D76-M	80	2.00
	Ceramic	OH-G250-D76-M	OH-M270-D76-M	OH-N370-D76-M	OH-W470-D76-M	40	1.00
	Steel Soft < 50 HRC	OH-G250-B76-M	OH-M270-B76-M	OH-N370-B76-M	OH-W470-B76-M	40	1.00
	Steel Hard > 50 HRC	OH-G250-B76-M	OH-M270-B76-M	OH-N370-B76-M	OH-W470-B76-M	25	0.62
	Fine Finishing Typically in Previously Honed Bores						
		2.5" - 2.7" 64-69 mm	2.7" - 4.1" 69-104 mm	3.5" - 5.5" 89-140 mm	4.1" - 60" 104-1524 mm	Approx. Finish (Ra)	
						Inch	Metric
Aluminum	OH-G250-D30-M	OH-M270-D30-M	OH-N370-D30-M	OH-W470-D30-M	35	0.88	
Carbide	OH-G250-D30-M	OH-M270-D30-M	OH-N370-D30-M	OH-W470-D30-M	3	0.08	
Cast Iron	OH-G250-D30-M	OH-M270-D30-M	OH-N370-D30-M	OH-W470-D30-M	20	0.50	
Ceramic	OH-G250-D30-M	OH-M270-D30-M	OH-N370-D30-M	OH-W470-D30-M	15	0.38	
Steel Soft < 50 HRC	OH-G250-B30-M	OH-M270-B30-M	OH-N370-B30-M	OH-W470-B30-M	16	0.40	
Steel Hard > 50 HRC	OH-G250-B30-M	OH-M270-B30-M	OH-N370-B30-M	OH-W470-B30-M	7	0.18	

Accessories

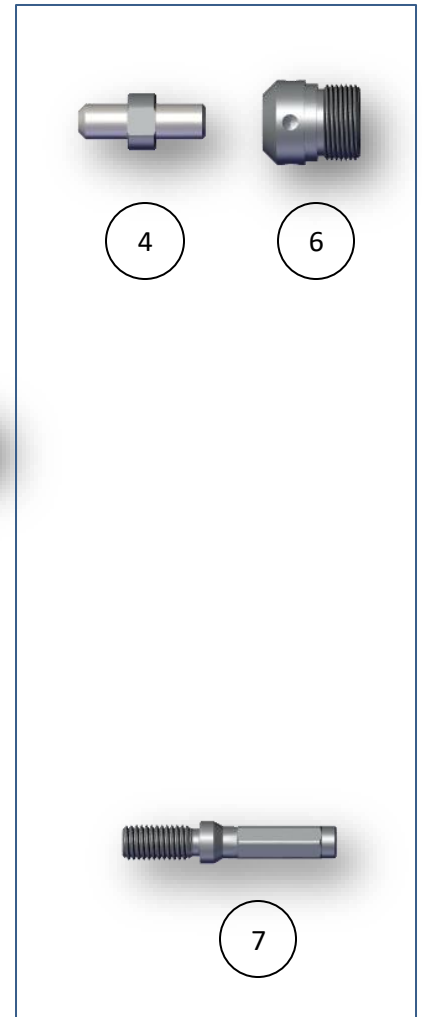
Tool Connection



Remote Feed Adjusting Head



Drive Connection



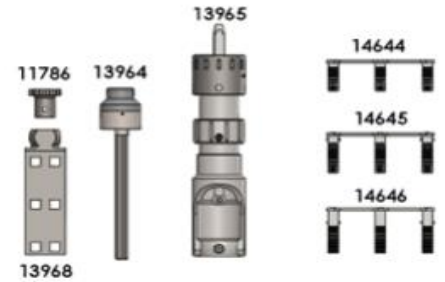
Item	Description	Part Number
1	THREADED FEED CLUTCH ASSEMBLY	16709
2	FLANGED FEED CLUTCH ASSEMBLY	16682
3	HAND-WHEEL FEED ASSEMBLY	16680
4	EXTENSION COUPLER	16701
5	UNIVERSAL JOINT ASSEMBLY	16700
6	YOKE CONNECTION ADAPTER	16716
7	HEX CONNECTION ADAPTER	16699



1.98-3.50" VHT-500 Hone Head Module (13957)

VHT-500 Hone Head Module includes:

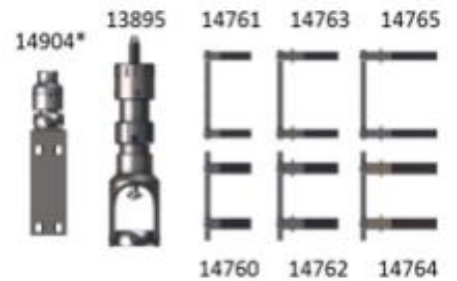
13968	Hone Body		Qty. 1
11786	External Spline		Qty. 1
13964	Eccentric Drive		Qty. 1
13965	Shank, Drive Assembly		Qty. 1
14644	Rack Assembly - Stone	1.98-2.38	Qty. 2
14645	Rack Assembly - Stone	2.38-3.00	Qty. 2
14646	Rack Assembly - Stone	3.00-3.50	Qty. 2



3.50-7.00" VHT-700 Hone Head Module (13901)

VHT-700 Hone Head Module includes:

14904	Body (Assembly)*		Qty. 1
13895	Shank, Drive Assembly		Qty. 1
14760	Rack Assembly - Stone	3.50-4.50	Qty. 2
14761	Rack Assembly - Guide		Qty. 2
14762	Rack Assembly - Guide	4.50-5.50	Qty. 2
14763	Rack Assembly - Stone		Qty. 2
14764	Rack Assembly - Stone	5.00-7.00	Qty. 2
14765	Rack Assembly - Guide		Qty. 2



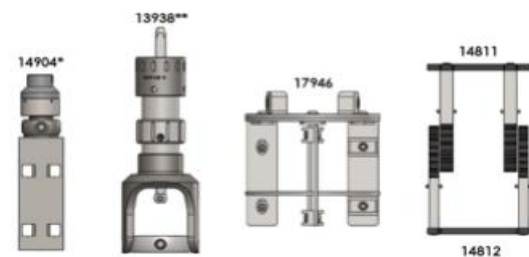
7.00-9.00" VHT-800 Hone Head Expansion Module (14020 B.E.)

VHT-800 Hone Head Expansion Module includes:

17946	Cage Assembly		Qty. 1
14811	Rack Assembly - Stone		Qty. 2
14812	Rack Assembly - Guide		Qty. 2

Also Required For Use (sold separately):

14904	Body (Assembly)*		Qty. 1
13938	Shank, Drive Assembly**		Qty. 1



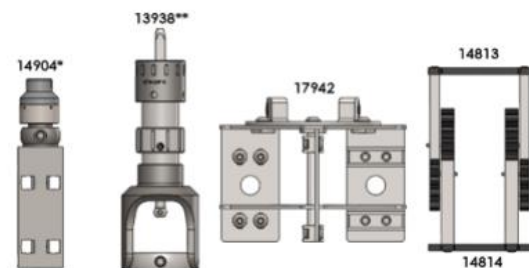
9.00-11.00" VHT-820 Hone Head Expansion Module (14047 B.E.)

VHT-820 Hone Head Expansion Module includes:

17942	Cage Assembly		Qty. 1
14813	Rack Assembly - Guide		Qty. 2
14814	Rack Assembly - Stone		Qty. 2

VHT-820 Hone Head Expansion Module includes:

14904	Body (Assembly)*		Qty. 1
13938	Shank, Drive Assembly**		Qty. 1



System Overview

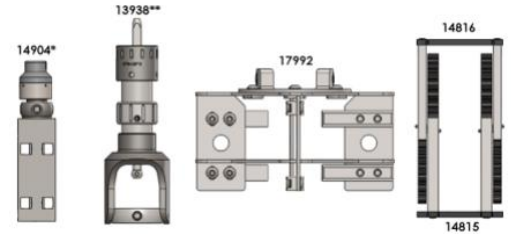
11.0-15.00" VHT-830 Hone Head Expansion Module (14063 B.E.)

VHT-830 Hone Head Expansion Module includes:

17992	Cage Assembly	Qty. 1
14815	Rack Assembly - Stone	Qty. 2
14816	Rack Assembly - Guide	Qty. 2

VHT-830 Hone Head Expansion Module requires:

14904	Body (Assembly)*	Qty. 1
13938	Shank, Drive Assembly**	Qty. 1



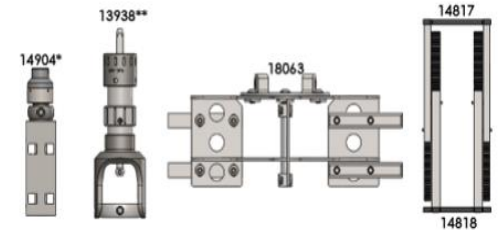
14.0-18.00" VHT-840 Hone Head Expansion Module (13942 B.E.)

VHT-840 Hone Head Expansion Module includes:

18063	Cage Assembly	Qty. 1
14817	Rack Assembly - Stone	Qty. 2
14818	Rack Assembly - Guide	Qty. 2

VHT-840 Hone Head Expansion Module requires:

14904	Body (Assembly)*	Qty. 1
13938	Shank, Drive Assembly**	Qty. 1



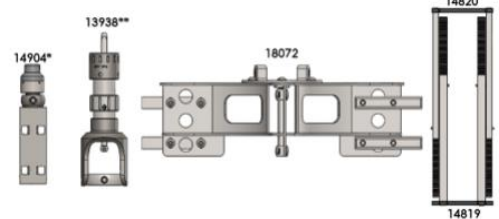
18.0-22.0" VHT-850 Hone Head Expansion Module (14346 B.E.)

VHT-850 Hone Head Expansion Module includes:

18072	Cage Assembly	Qty. 1
14819	Rack Assembly - Stone	Qty. 2
14820	Rack Assembly - Guide	Qty. 2

VHT-850 Hone Head Expansion Module requires:

14904	Body (Assembly)*	Qty. 1
13938	Shank, Drive Assembly**	Qty. 1



VHT - Options and Accessories

14904	Body Assembly* (includes:)	
	13894 Hone Body	Qty. 1
	13902 External Spline	Qty. 1
	13890 Eccentric Drive	Qty. 1
	11791 Drive Screw	Qty. 2
13938	Shank, Drive Assembly**	
14359	MPS to VHT Adaptor	
5353	Swaging Tool	



Honing Fluids

Using the right honing oil is an essential part of bore sizing precision, finish and efficiency. OTW makes it easy with our specialty honing lubricants, which are specifically formulated and tested to cool, flush, and optimize your honing operation. OTW's proprietary cutting fluids help customers optimize their material removal rates, extend their abrasive and tooling life, and obtain superior bore finishes.



OTW-8915 HONING OIL:

OTW-8915 Honing Fluid is a pre-mixed honing oil and is an excellent choice for most honing applications. Available in 5-gallon pails, 55-gallon drums and 275 gallon totes.

OTW-AF-5 HONING FLUID ADDITIVE:

OTW-AF-5 Honing Fluid is a base oil for use with most conventional honing coolants. Available in 5 gallon & 55 gallon drums.

OTW-8920 HONING OIL:

OTW-8920 Honing Fluid is a premium pre-mixed honing oil and is an ideal choice for applications where surface finishes are most critical.

OTW-8920 is a direct replacement for customers who currently use Sunnen #MB-30.

Available in 5-gallon pails, 55-gallon drums and 275 gallon totes.

OTW-PROCUT 78-275 DRILLING OIL:

Available in 55 gallon drums and 275 gallon totes.

Honing Machines

> OTW's ever-growing lineup of horizontal and vertical honing machines is a result of the Company's unmatched efforts to continuously develop and introduce breakthrough honing technology



Horizontal

Model	Duty	Bore Diameter Range (I.D.)
VersaHone Horizontal	Flexible	2.0" – 22.0" (50 – 559 mm)
PowerHone Horizontal	Medium	0.5" – 22.0" (12 – 559 mm)
UltraHone Horizontal	Production	1.5" – 24.0" (38 – 610 mm)
UltraHone - XL Horizontal	Heavy	1.5" – 26.0" (38 – 660 mm)



Vertical

Model	Duty	Bore Diameter Range (I.D.)
VersaHone Vertical	Flexible	0.250" – 6.0" (6 – 152 mm)
PowerHone Vertical	Medium	1.5" – 16.0" (38 – 406 mm)
UltraHone Vertical	Production	1.5" – 22.0" (38 – 559 mm)
UltraHone - XL Vertical	Heavy	1.5" – 24.0" (38 – 610 mm)

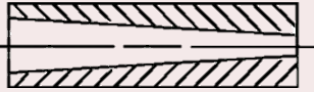
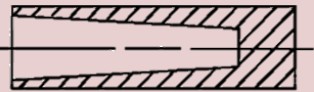
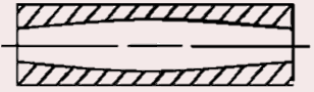
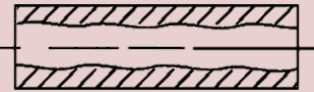
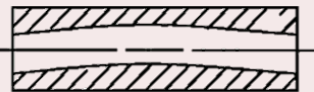
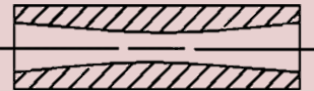
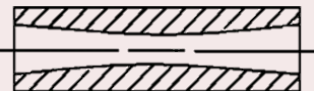


Honing Tooling Products

Offerings	Description
Complete Tooling Assemblies (Standard & Custom)	Light Duty – Ultra Heavy Duty Standard & Expandable Mandrels Single Stage – Multi-Stone Tools, OTW & Sunnen-Style Mounts
VHT Expandable Tooling System	Ultra versatile tooling system for processing a variety of part sizes with minimal setup time.
Tooling Components	Adjusting Hone Heads Various Stoneholder Configurations Drive Shafts & Drive Adaptors

> Trusted by many of the largest tube and cylinder manufacturers in the world, OTW offers unparalleled applications engineering and customized solutions for all of its machine and tooling lines



<u>Problem</u>	<u>Possible Cause(s)</u>	<u>Solutions</u>
Tapered Bore 	<ol style="list-style-type: none"> 1. Mandrel not trued 2. Improper stroke length 3. Misalignment of fixture to spindle 	<ol style="list-style-type: none"> 1. True stones/mandrel 2. Extend stroke length on tight end(s) 3. Verify alignment 4. Reverse workpiece on mandrel
Tapered Blind Bore 	<ol style="list-style-type: none"> 1. Improper stone length 2. Inadequate coolant flow 3. Insufficient relief at blind end 	<ol style="list-style-type: none"> 1. Shorten stone and shoes by $\frac{3}{4}$ length of the bore 2. True stones and shoes frequently 3. Adjust coolant flow 4. Provide additional relief 5. Use hard tipped stone
Barrel Bore 	<ol style="list-style-type: none"> 1. Mandrel not trued 2. Improper stone length 3. Improper stone 	<ol style="list-style-type: none"> 1. True stone and shoes 2. Use longer stone & shorten guide shoes on both ends 3. Use mandrel with longer stone & shoes 4. Use finer grit stone
Waviness in Bore 	<ol style="list-style-type: none"> 1. Improper stone/tool length 	<ol style="list-style-type: none"> 1. Use stone/tool of sufficient length to span the "peaks" of wave in bore
Bowed Bore 	<ol style="list-style-type: none"> 1. Improper tool length 2. Improper stroke 3. Improper stone 	<ol style="list-style-type: none"> 1. Use tool which accommodates stone length of 1.5 times the length of the bore 2. Shorten over stroke 3. Use softer stone
Bellmouth Bore (> 2/3 stone length) 	<ol style="list-style-type: none"> 1. Mandrel not true 2. Short or unbalanced part 3. Improper stone 4. Improper stone length 	<ol style="list-style-type: none"> 1. True stones & guides 2. Shorten stroke length 3. Use softer stone 4. Shorten stone slightly on each end
Bellmouth Bore (< 2/3 stone length) 	<ol style="list-style-type: none"> 1. Mandrel not true 2. Short or unbalanced part 3. Improper stone 4. Improper stone length 	<ol style="list-style-type: none"> 1. True stones & guides 2. Shorten stroke length 3. Use softer stone 4. Shorten stone & guides equally to 1-1/2 times bore length

<u>Problem</u>	<u>Possible Cause(s)</u>	<u>Solutions</u>
Out-of-Round Bore	<ol style="list-style-type: none"> Undersized honing tool Mandrel not true Workpiece flexing/deformed Improper stone 	<ol style="list-style-type: none"> Change honing tool True stones & guides Decrease cutting pressure Use softer stone
Stone Not Cutting	<ol style="list-style-type: none"> Stone glazing Stone loading 	<ol style="list-style-type: none"> Dress stone Increase cutting pressure Increase stroking speed Use softer stone Check coolant Dress stone Increase stroking speed Use softer stone Use coarser stone Check coolant
Slow Stock Removal	<ol style="list-style-type: none"> Improper spindle speed Inadequate stone feed up Improper stone Improper/diluted coolant 	<ol style="list-style-type: none"> Increase spindle speed Increase cutting pressure Use softer stone Use coarser stone Check coolant
Poor Stone Life	<ol style="list-style-type: none"> Excessive stone feed Inadequate spindle speed Improper stone Improper/diluted coolant 	<ol style="list-style-type: none"> Decrease cutting pressure Increase spindle speed Use harder stone Use coarser grit Check coolant
Rough Finish	<ol style="list-style-type: none"> Improper feed Mandrel not true Improper stone choice Improper or contaminated coolant Soft or exotic workpiece material 	<ol style="list-style-type: none"> Decrease cutting pressure True stones & guides to exact hole diameter Use finer stone Check coolant Use bronze mandrel/guide shoes
Scratches in Bore	<ol style="list-style-type: none"> Improper feed Improper stone Improper tool Improper or contaminated coolant 	<ol style="list-style-type: none"> Decrease cutting pressure Use finer stone Use softer stone Use softer mandrel Check coolant

NOTE: Improper or contaminated coolant is the main cause of many common honing problems, such as poor abrasive life, poor cutting, rough surface finish and excessive heat build up. Coolant can easily become contaminated with water (especially condensation), hydraulic oil, coolant from previous operations and tramp oil/rust preventatives. If you have questions about you coolant condition or application, please don't hesitate to **Contact Us at (419)281-3700** or info@ohioutilworks.com



REPLACEMENT ABRASIVES

With more than 100 years of honing industry experience, Ohio Tool Works' dedicated staff of customer-facing engineers are fluent with all major honing abrasive manufacturers and systems. As result, we are proud to provide our customers both standard and custom replacement abrasives for tooling of other manufacturers.

MANUFACTURERS:

- Sunnen
- General Hone
- Barnes
- Micromatic
- Century
- Nagel
- Delapena
- Gehring
- Superior
- Others



To discuss how **OTW's Quality Honing Products** can meet your honing needs, please contact :

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