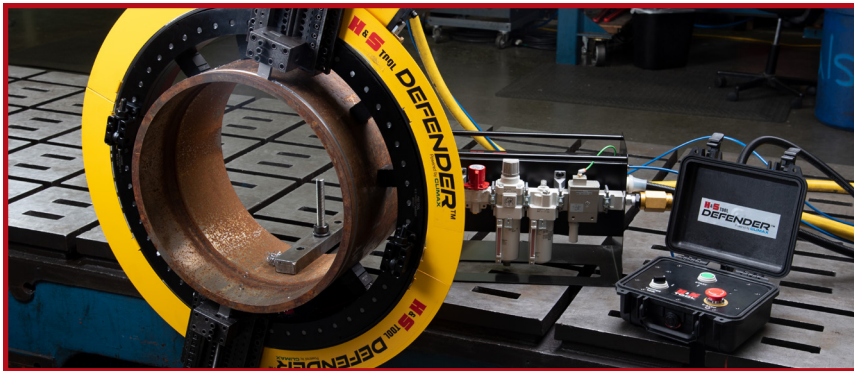


UNIQUELY POWERFUL. UNIQUELY RELIABLE.



POWERFUL PERFORMANCE

Patented outboard drive motor bearing provides rigid and precise support of the motor shaft – increasing the life of the motor and gears and allowing for quick work of light-wall tubing while providing enough torque for heavy-wall alloy tubes.

Patented pocket-style motor mount eliminates motor twisting and ring gear damage, increasing reliability and reducing the total cost of ownership.

Conventional motors are used on the front-drive adapters, eliminating the need for a second motor.

An air caddy assembly is included with all pneumatic machine packages to extend the life of the motor by keeping it lubricated and free of water.

Aluminum Body is rigid and easy to handle, providing the highest strength-to-weight ratio in the industry.

VERSATILITY

Part interchangeability across all models reduces the amount of parts inventory required allowing the operator to swapping from one machine to another in the field, lowering your overall investment and the items that need to be stored or available onsite to your operators.

The patented split bearing design provides a quick and accurate setup. The rigid aluminum body users can size down at least 8" with

extension pads for all AFC models and 14" for all BFC models giving the user the unrivaled ability to tackle more applications with one machine.

The patent-pending Defender Kit™ Flow Control System allows users to control the speed remotely, giving them the ability to slow down for heavy-wall cuts or more precise cutting after machining weld overlay, or speeding up for harder materials with carbide tooling.

Universal components – the counterbore head, tool slide, axial feed slide, and flange facing attachments are plug and play on all AFC & BFC split-frame machines.

No Single Point slide is needed, for heavy wall. The Split-Frame machines can cut a 4-inch wall without changing the standard cutting setup. Operators only need to change the tooling to a compound bevel and straight severs.

Stackable extension pads allow for greater versatility of range on all wall thicknesses. The ¾ inch (19 mm) locator pad adjustment, minimizes the number of extension pads needed to cover the working range. With the H&S TOOL Split-Frame machines, there is no need to buy or rent different extension pads or feet to hold an aggressive cut.

Tool Slides ruggedly built for strength and durability. Four cap screws are all that is required, to securely mount the slides. This dramatically speeds and eases tool slide

mounting and locating. Standard sizes are 1", 2", 3", 4", 7" and 10". Other sizes are available. Out-of-round and axial-feed tool slides are also available.

Motor Adapters are available to mount the motor out the front or at a right angle to the frame for work in congested areas. The patent-pending H&S TOOL motor adapters eliminate the need for additional motors and conversion components.

Counterbore heads with fixed or swivel head design allows for precise counterbores. These are also mounted directly on tool holders or a crossbar attachment to accurately refinish flanges from 4" to 86" O.D. (101.6 to 2184.4 mm) with surface finishes from 63 to 500 RMS..

PARTNER IN SAFETY

The patent-pending Defender Kit™ includes a pneumatic conditioning unit with a low-pressure safety interlock system preventing unintended re-starts after the loss of supplied air pressure and E-stop for quick stops & controlled re-starts.

Designed with user safety in mind, the remote auto-feed system keeps operators' hands safe from moving parts and keeps the job running smoothly.

The Shark Fin™ and Defender ring guards mount cleanly to the clamshell mitigating the pinch points between the rotating slides and motor mount.

TOOL CONFIGURATIONS



AFC CLAMSHELL SPLIT-FRAME MACHINES

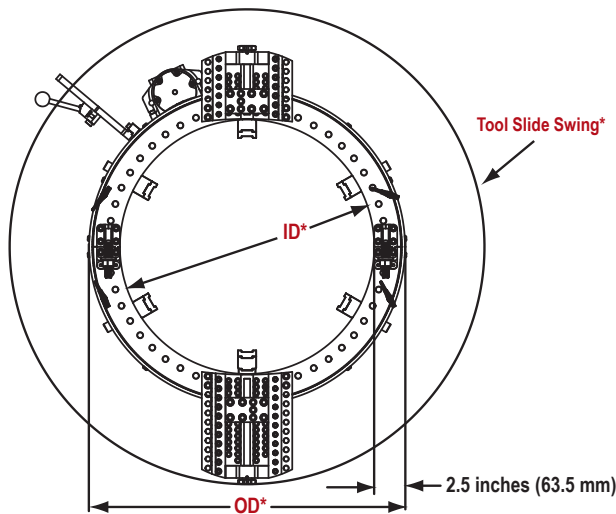
Includes complete machine assembly with DEFENDER™ kit, extension pads, tool slide assembly, air motor, tool kit, Clamshell box, and operating manual.



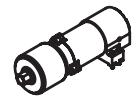
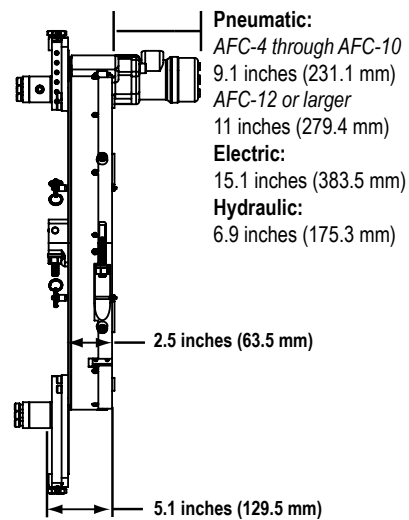
Part Number	Model	Nominal pipe size	Tripper	Extension pad	Tool slide	Air motor
AFC4Dk-R	AFC-4	1 - 4 inches (33.4 - 114.3 mm)	NA	1/2 & 1-inch (12.7 & 25.4 mm)	1-inch (25.4 mm)	3800
AFC6Dk-R	AFC-6	2 - 6 inches (60.3 - 168.3 mm)	4-inch (101.6 mm)	1/2 & 1-inch (12.7 & 25.4 mm)	2-inch (50.8 mm)	3800
AFC8Dk-R	AFC-8	3 - 8 inches (88.9 - 219.1 mm)	4-inch (101.6 mm)	1/2 & 1-inch (12.7 & 25.4 mm)	2-inch (50.8 mm)	3800
AFC10Dk-R	AFC-10	4 - 10 inches (114.3 - 273.1 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	3800
AFC12Dk-R	AFC-12	6 - 12 inches (152.4 - 323.9 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	4800
AFC14Dk-R	AFC-14	6 - 14 inches (168.3 - 355.6 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	4800
AFC16Dk-R	AFC-16	8 - 16 inches (219.1 - 406.4 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	4800
AFC18Dk-R	AFC-18	10 - 18 inches (273.1 - 457.2 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	4800
AFC20Dk-R	AFC-20	12 - 20 inches (323.9 - 508 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	3-inch (76.2 mm)	4800
AFC24Dk-R	AFC-24	16 - 24 inches (406.4 - 609.6 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC26Dk-R	AFC-26	18 - 26 inches (457.2 - 660.4 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC28Dk-R	AFC-28	20 - 28 inches (508 - 711.2 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC30Dk-R	AFC-30	22 - 30 inches (558.8 - 762 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC32Dk-R	AFC-32	24 - 32 inches (609.6 - 812.8 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC32D7k-R	AFC-32	24 - 32 inches (609.6 - 812.8 mm)	7-inch (177.8 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	7-inch (177.8 mm)	4800
AFC36Dk-R	AFC-36	28 - 36 inches (711.2 - 914.4 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC36D7k-R	AFC-36	28 - 36 inches (711.2 - 914.4 mm)	7-inch (177.8 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	7-inch (177.8 mm)	4800
AFC42Dk-R	AFC-42	34 - 42 inches (863.6 - 1066.8 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
AFC42Dk-R	AFC-42	34 - 42 inches (863.6 - 1066.8 mm)	7-inch (177.8 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	7-inch (177.8 mm)	4800

DIMENSIONS

AFC | CLAMSHELL (MOUNTING RANGE: 1 - 42 INCHES (33.4 - 1066.8 MM))



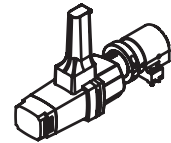
*See below chart for dimensions



Pneumatic



Hydraulic



Electric

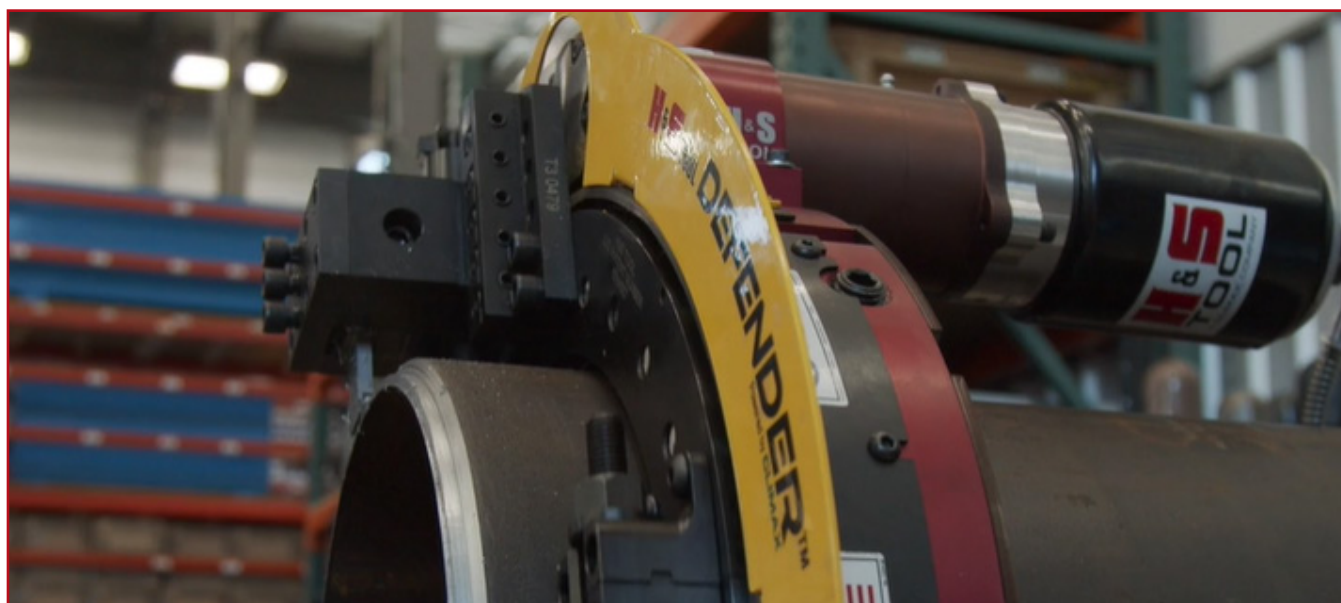
Model		Nom. Pipe Size	OD	ID	Slide Swing					Locator Pads
					1-inch	2-inch	3-inch	4-inch	7-inch	
AFC-4	inch mm	1 - 4 33.4 - 114.3	10.026 254.7	5 127	10.649 270.5	12.869 326.9	14.921 379	16.921 429.8	NA	4
AFC-6	inch mm	2 - 6 60.3 - 168.3	12.150 308.6	7.125 181.0	2.801 325.1	15.021 381.5	17.073 433.7	19.073 484.4	NA	4
AFC-8	inch mm	3 - 8 88.9 - 219.1	14.149 359.4	9.125 231.8	15.149 384.8	17.369 441.2	19.423 493.3	21.421" 544.1	27.370 695.2	4
AFC-10	inch mm	4 - 10 114.3 - 273.1	16.315 414.4	11.250 285.75	17.468 443.7	19.688 500.1	21.740 552.2	23.740 603.0	29.688 754.1	4
AFC-12	inch mm	6 - 12 152.4 - 323.9	18.400 467.4	13.250 336.6	19.014 483.0	21.234 539.3	23.286 591.5	25.286 642.3	31.234 793.3	4
AFC-14	inch mm	6 - 14 168.3 - 355.6	19.650 499.11	14.500 368.3	20.228 513.8	22.448 570.18	24.500 622.3	26.500 673.1	32.449 824.2	4
AFC-16	inch mm	8 - 16 219.1 - 406.4	21.650 549.9	16.500 419.1	22.117 561.8	24.337 618.2	26.389 670.3	28.389 721.1	34.337 872.2	6
AFC-18	inch mm	10 - 18 273.1 - 457.2	23.900 607.1	18.750 476.2	24.540 623.3	26.76 679.7	28.812 731.8	30.812 782.6	36.761 933.7	6
AFC-20	inch mm	12 - 20 323.9 - 508	25.776 654.7	20.750 527.1	26.520 673.6	28.740 730.0	30.792 782.1	32.792 832.9	38.740 984.0	6
AFC-24	inch mm	16 - 24 406.4 - 609.6	29.776 756.3	24.750 628.7	30.439 773.2	32.659 829.5	34.711 881.7	36.711 932.5	42.659 1083.5	10
AFC-26	inch mm	18 - 26 457.2 - 660.4	31.900 810.3	26.750 679.5	32.503 825.6	34.723 882.0	36.775 934.1	38.775 984.9	44.723 1124.5	10
AFC-28	inch mm	20 - 28 508 - 711.2	33.900 861.1	28.750 730.3	34.558 877.8	36.778 920.0	38.830 986.3	40.830 1037.1	46.778 1188.2	10
AFC-30	inch mm	22 - 30 558.8 - 762	36.150 918.5	31.000 781.1	36.861 941.7	39.081 994.4	41.133 1044.8	43.133 1095.6	49.082 1246.7	10
AFC-32	inch mm	24 - 32 609.6 - 812.8	38.150 969.0	33 838.2	38.902 988.1	41.122 1044.5	43.166 1096.4	45.174 1147.4	51.123 1298.5	10
AFC-36	inch mm	28 - 36 711.2 - 914.4	42.150 1070.6	37.000 939.8	42.978 1091.6	45.198 1148.0	47.250 1200.2	49.250 1251.0	55.199 1402.1	10
AFC-42	inch mm	34 - 42 863.6 - 1066.8	48.150 1223.0	43.000 1092.2	49.049 1245.8	51.269 1302.2	53.321 1354.4	55.321 1405.2	61.270 1556.3	12

SPECIFICATIONS



The AFC | Clamshell stackable extension pads allow for greater versatility of range on all wall thicknesses. The ¾ inch (19 mm) locator pad adjustment, minimizes the number of extension pads needed to cover the working range. With the H&S TOOL Clamshell machines, there is no need to buy or rent different extension pads or feet to hold an aggressive cut.

Model		Standard Range	Locator Extension Coverage							4-inch
			1/2-inch	1-inch	1.5-inch	2-inch	2.5-inch	3-inch	3.5-inch	
AFC-4	inch	5.000 - 3.500	4.000 - 2.500	3.000 - 1.500	2.000 - 0.500					
	mm	127 - 88.9	101.6 - 63.5	76.2 - 38.1	50.8 - 12.7					
AFC-6	inch	7.125 - 5.625	6.125 - 4.625	5.125 - 3.625	4.125 - 2.625	3.125 - 1.625				
	mm	181.0 - 142.9	155.6 - 117.5	130.2 - 92.1	104.8 - 66.7	79.4 - 41.3				
AFC-8	inch	9.125 - 7.625	8.125 - 6.625	7.125 - 5.625	6.125 - 4.625	5.125 - 3.625	4.125 - 2.625			
	mm	231.8 - 193.7	206.4 - 168.3	181.0 - 142.9	155.6 - 117.5	130.2 - 92.1	104.8 - 66.7			
AFC-10	inch	11.250 - 9.750	10.250 - 8.750	9.250 - 7.750	8.250 - 6.750	7.250 - 5.750	6.250 - 4.750	5.250 - 3.750		
	mm	285.8 - 247.7	260.4 - 222.3	235.0 - 196.9	209.6 - 171.5	184.2 - 146.1	158.8 - 120.7	133.4 - 95.3		
AFC-12	inch	13.250 - 11.750	12.250 - 10.750	11.250 - 9.750	10.250 - 8.750	9.250 - 7.750	8.250 - 6.750	7.250 - 5.750	6.250 - 4.750	
	mm	336.6 - 298.5	311.2 - 273.1	285.8 - 247.7	260.4 - 222.3	235.0 - 196.9	209.6 - 171.5	184.2 - 146.1	158.8 - 120.7	
AFC-14	inch	14.500 - 13.000	13.500 - 12.000	12.500 - 11.000	11.500 - 10.000	10.500 - 9.000	9.500 - 8.000	8.500 - 7.000	7.500 - 6.000	6.500 - 5.000
	mm	368.3 - 330.2	342.9 - 304.8	317.5 - 279.4	292.1 - 254.0	266.7 - 228.6	241.3 - 203.2	215.9 - 177.8	190.5 - 152.4	165.1 - 127.0
AFC-16	inch	16.500 - 15.000	15.500 - 14.000	14.500 - 13.000	13.500 - 12.000	12.500 - 11.000	11.500 - 10.000	10.500 - 9.000	9.500 - 8.000	8.500 - 7.000
	mm	419.1 - 381.0	393.7 - 355.6	368.3 - 330.2	342.9 - 304.8	317.5 - 279.4	292.1 - 254.0	266.7 - 228.6	241.3 - 203.2	215.9 - 177.8
AFC-18	inch	18.750 - 17.250	17.750 - 16.250	16.750 - 15.250	15.750 - 14.250	14.750 - 13.250	13.750 - 12.250	12.750 - 11.250	11.750 - 10.250	10.750 - 9.250
	mm	476.3 - 438.2	450.9 - 412.8	425.5 - 387.4	400.1 - 362.0	374.7 - 336.6	349.3 - 311.2	323.9 - 285.8	298.5 - 260.4	273.1 - 235.0
AFC-20	inch	20.750 - 19.250	19.750 - 18.250	18.750 - 17.250	17.750 - 16.250	16.750 - 15.250	15.750 - 14.250	14.750 - 13.250	13.750 - 12.250	12.750 - 11.250
	mm	527.1 - 489.9	501.7 - 463.6	476.3 - 438.2	450.9 - 412.8	425.5 - 387.4	400.1 - 362.1	374.7 - 336.6	349.3 - 311.2	323.9 - 285.8
AFC-24	inch	24.750 - 23.250	23.750 - 22.250	22.750 - 21.250	21.750 - 20.250	20.750 - 19.250	19.750 - 18.250	18.750 - 17.250	17.750 - 16.250	16.750 - 15.250
	mm	628.7 - 590.6	603.3 - 565.2	577.9 - 539.8	552.5 - 514.4	527.1 - 489.0	501.7 - 463.6	476.3 - 438.2	450.9 - 362.0	425.5 - 387.4
AFC-26	inch	26.750 - 25.250	25.750 - 24.250	24.750 - 23.250	23.750 - 22.250	22.750 - 21.250	21.750 - 20.250	20.750 - 19.250	19.750 - 18.250	18.750 - 17.250
	mm	679.5 - 641.4	654.0 - 616.0	628.65 - 590.6	603.25 - 565.2	577.9 - 539.8	552.5 - 514.4	527.1 - 489.0	501.7 - 463.6	476.3 - 438.2
AFC-28	inch	28.750 - 27.250	27.750 - 26.250	26.750 - 25.250	25.750 - 24.250	24.750 - 23.250	23.750 - 22.250	22.750 - 21.250	21.750 - 20.250	20.750 - 19.250
	mm	730.3 - 692.2	704.9 - 666.8	679.5 - 641.4	654.04 - 616.0	628.7 - 590.6	603.3 - 565.2	577.9 - 539.8	552.5 - 514.4	527.9 - 489.0
AFC-30	inch	31.000 - 29.500	30.000 - 28.500	29.000 - 27.500	28.000 - 26.500	27.000 - 25.500	26.000 - 24.500	25.000 - 23.500	24.000 - 22.500	23.000 - 21.500
	mm	787.4 - 749.3	762.0 - 723.9	736.6 - 698.5	711.20 - 673.1	685.8 - 647.7	660.4 - 622.3	635.00 - 596.9	609.6 - 571.5	584.2 - 546.1
AFC-32	inch	33.000 - 31.500	32.000 - 30.500	31.000 - 29.500	30.000 - 28.500	29.000 - 27.500	28.000 - 26.500	27.000 - 25.500	26.000 - 24.500	25.000 - 23.500
	mm	838.2 - 800.1	812.8 - 774.7	787.4 - 749.3	762.0 - 723.9	736.6 - 698.5	711.2 - 673.1	685.8 - 647.7	660.4 - 622.3	635.0 - 596.9
AFC-36	inch	37.000 - 35.500	36.000 - 34.500	35.000 - 33.500	34.000 - 32.500	33.000 - 31.500	32.000 - 30.500	31.000 - 29.500	30.000 - 28.500	29.000 - 27.500
	mm	939.8 - 901.7	914.4 - 876.3	889.0 - 850.9	863.6 - 825.5	838.2 - 800.1	812.8 - 774.7	787.4 - 749.3	762.0 - 723.9	736.6 - 698.5
AFC-42	inch	43.000 - 41.500	42.000 - 40.500	41.000 - 39.500	40.000 - 38.500	39.000 - 37.500	38.000 - 36.500	37.000 - 35.500	36.000 - 34.500	35.000 - 33.500
	mm	1092.2 - 1054.1	1066.8 - 1028.7	1041.4 - 1003.3	1016.0 - 977.9	990.6 - 952.5	965.2 - 927.1	939.8 - 901.7	914.4 - 876.3	889.0 - 850.9



All dimensions should be considered reference. Contact your H&S TOOL Representative for precision dimensions. Specifications are subject to change without notice. Actual results for test data may vary depending on setup, machining conditions and machine maintenance. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.

TOOL CONFIGURATIONS

BFC CLAMSHELL SPLIT-FRAME MACHINES

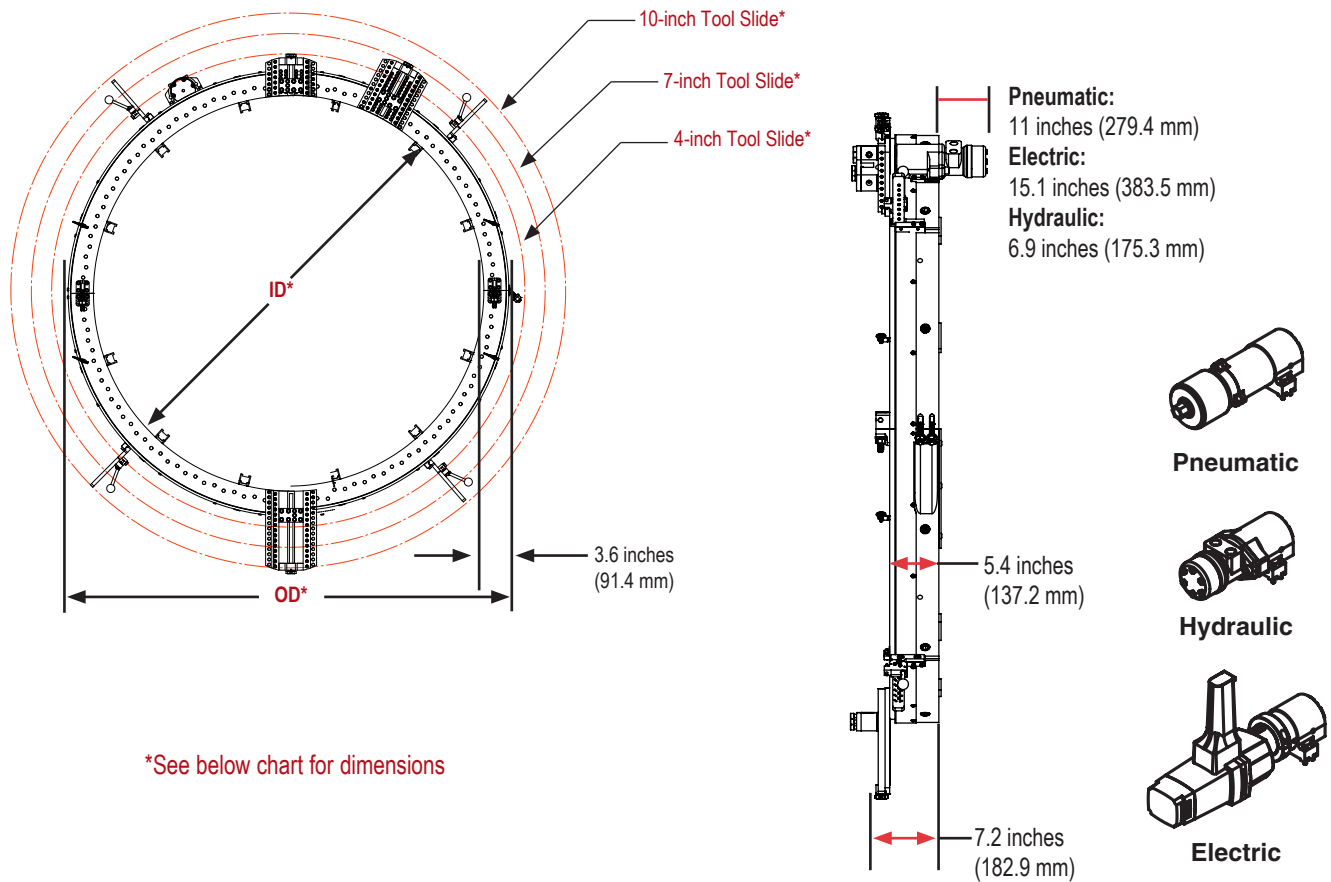
Includes complete machine assembly with DEFENDER™ kit, extension pads, tool slide assembly, air motor, tool kit, Clamshell box, and operating manual.



Part Number	Model	Nominal pipe size	Tripper	Extension pad	Tool slide	Air motor
BFC48Dk-R	BFC-48	34 - 48 inches (863.6 - 1219.2 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
BFC48D7k-R	BFC-48	34 - 48 inches (863.6 - 1219.2 mm)	7-inch (177.8 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	7-inch (177.8 mm)	4800
BFC48D10k-R	BFC-48	34 - 48 inches (863.6 - 1219.2 mm)	10-inch (254 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	10-inch (254 mm)	4800
BFC56Dk-R	BFC-56	42 - 56 inches (1066.8 - 1422.4 mm)	4-inch (101.6 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	4-inch (101.6 mm)	4800
BFC56D7k-R	BFC-56	42 - 56 inches (1066.8 - 1422.4 mm)	7-inch (177.8 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	7-inch (177.8 mm)	4800
BFC56D10k-R	BFC-56	42 - 56 inches (1066.8 - 1422.4 mm)	10-inch (254 mm)	1/2, 1, & 2 inches (12.7, 25.4, & 50.8 mm)	10-inch (254 mm)	4800
BFC66Dk-R	BFC-66	52 - 66 inches (1320.8 - 1676.4 mm)	4-inch (101.6 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	4-inch (101.6 mm)	4800
BFC66D7k-R	BFC-66	52 - 66 inches (1320.8 - 1676.4 mm)	7-inch (177.8 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	7-inch (177.8 mm)	4800
BFC66D10k-R	BFC-66	52 - 66 inches (1320.8 - 1676.4 mm)	10-inch (254 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	10-inch (254 mm)	4800
BFC72Dk-R	BFC-72	58 - 72 inches (1473.2 - 1828.8 mm)	4-inch (101.6 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	4-inch (101.6 mm)	4800
BFC72D7k-R	BFC-72	58 - 72 inches (1473.2 - 1828.8 mm)	7-inch (177.8 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	7-inch (177.8 mm)	4800
BFC72D10k-R	BFC-72	58 - 72 inches (1473.2 - 1828.8 mm)	10-inch (254 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	10-inch (254 mm)	4800
BFC86Dk-R	BFC-86	72 - 86 inches (1828.8 - 2184.4 mm)	4-inch (101.6 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	4-inch (101.6 mm)	4800
BFC86D7k-R	BFC-86	72 - 86 inches (1828.8 - 2184.4 mm)	7-inch (177.8 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	7-inch (177.8 mm)	4800
BFC86D10k-R	BFC-86	72 - 86 inches (1828.8 - 2184.4 mm)	10-inch (254 mm)	1/2, 1, 2, & 3 inches (12.7, 25.4, 50.8, & 76.2 mm)	10-inch (254 mm)	4800

DIMENSIONS

BFC | CLAMSHELL DIMENSIONS



Model		Nom. Pipe Size	OD	ID	Slide Swing			Locator Pads
					4-inch	7-inch	10-inch	
BFC-48	inch	34 - 48	56.420	49.250	61.507	67.457	73.455	12
	mm	863.6 - 1219.2	1433.1	1251.0	1562.3	1713.4	1865.8	
BFC-56	inch	42 - 56	64.420	57.250	69.229	75.179	81.177	12
	mm	1066.8 - 1422.4	1636.3	1454.2	1758.4	1909.5	2061.9	
BFC-66	inch	52 - 66	74.754	67.500	79.671	85.621	91.619	12
	mm	1320.8 - 1676.4	1898.8	1714.5	2023.6	2174.8	2327.1	
BFC-72	inch	58 - 72	80.904	73.500	85.672	91.608	97.626	12
	mm	1473.2 - 1828.8	2054.9	1866.9	2176.0	2326.8	2479.7	
BFC-86	inch	72 - 86	94.904	87.500	99.671	105.621	111.618	12
	mm	1828.8 - 2184.4	2410.5	2222.5	2531.6	2682.7	2835.1	

SPECIFICATIONS



The BFC | Clamshell stackable extension pads allow for greater versatility of range on all wall thicknesses. The ¾ inch (19 mm) locator pad adjustment, minimizes the number of extension pads needed to cover the working range. With the H&S TOOL Clamshell machines, there is no need to buy or rent different extension pads or feet to hold an aggressive cut.

Model		Standard Range	Locator Extension Coverage							
			1/2-inch	1-inch	1.5-inch	2-inch	2.5-inch	3-inch	3.5-inch	4-inch
BFC-48	inch	49.250 - 47.750	48.250 - 46.750	47.250 - 45.750	46.250 - 44.750	45.250 - 43.750	44.250 - 42.750	43.250 - 41.750	42.250 - 40.750	41.250 - 39.750
	mm	1251.0 - 1212.9	1225.6 - 1187.5	1200.2 - 1162.1	1174.8 - 1136.7	1149.4 - 1111.3	1124.0 - 1085.9	1098.6 - 1060.5	1073.2 - 1035.1	1047.8 - 1009.7
BFC-56	inch	57.250 - 55.750	56.250 - 54.750	55.250 - 53.750	54.250 - 52.750	53.250 - 51.750	52.250 - 50.750	51.250 - 49.750	50.250 - 48.750	49.250 - 47.750
	mm	1454.2 - 1416.1	1428.8 - 1390.7	1403.4 - 1365.3	1378.0 - 1339.9	1352.6 - 1314.5	1327.2 - 1289.1	1301.8 - 1263.7	1276.4 - 1238.3	1251.0 - 1200.2
BFC-66	inch	67.500 - 66.000	66.500 - 65.000	65.500 - 64.000	64.500 - 63.000	63.500 - 62.000	62.500 - 61.000	61.500 - 60.000	60.500 - 59.000	59.500 - 58.000
	mm	1714.5 - 1676.4	1689.1 - 1651.0	1663.7 - 1625.6	1638.3 - 1600.2	1612.9 - 1574.8	1587.5 - 1549.4	1562.1 - 1524.0	1536.7 - 1498.6	1511.3 - 1473.2
BFC-72	inch	73.500 - 72.000	72.500 - 71.000	71.500 - 70.000	70.500 - 69.000	69.500 - 68.000	68.500 - 67.000	67.500 - 66.000	66.500 - 65.000	65.500 - 64.000
	mm	1866.9 - 1828.8	1841.5 - 1803.4	1816.1 - 1778.0	1790.7 - 1752.6	1765.3 - 1727.2	1739.9 - 1701.8	1714.5 - 1676.4	1689.1 - 1651.0	1663.7 - 1625.6
BFC-86	inch	87.500 - 86.000	86.500 - 85.000	85.500 - 84.000	84.500 - 83.000	83.500 - 82.000	82.500 - 81.000	81.500 - 80.000	80.500 - 79.000	79.500 - 78.000
	mm	2222.5 - 2184.4	2197.1 - 2159.0	2171.7 - 2133.6	2146.3 - 2108.2	2120.9 - 2082.8	2095.5 - 2057.4	2070.1 - 2032.0	2044.7 - 2006.6	2019.3 - 1981.2
			4.5-inch	5-inch	5.5-inch	6-inch	6.5-inch	7-inch	8-inch	
BFC-48	inch		40.250 - 38.750	39.250 - 37.750	38.250 - 36.750	37.250 - 35.750	36.250 - 34.750	35.250 - 33.750	N/A	
	mm		1022.4 - 984	997.0 - 958.9	971.6 - 933.5	946.2 - 908.1	920.8 - 882.7	895.4 - 857.3		
BFC-56	inch		48.250 - 46.750	47.250 - 45.750	46.250 - 44.750	45.250 - 43.750	44.250 - 42.750	43.250 - 41.750	41.250 - 39.750	
	mm		1022.4 - 1187.5	1200.2 - 1162.1	1174.8 - 1136.7	1149.4 - 1111.3	1124.0 - 1085.9	1098.6 - 1060.5	1047.8 - 1009.7	
BFC-66	inch		58.500 - 57.000	57.500 - 56.000	56.500 - 55.000	55.500 - 54.000	54.500 - 53.000	53.500 - 52.000	51.500 - 50.000	
	mm		1485.9 - 1447.8	1460.5 - 1422.4	1435.1 - 1397.0	1409.7 - 1371.6	1384.3 - 1346.2	1358.9 - 1320.8	1308.1 - 1270.0	
BFC-72	inch		64.500 - 63.000	63.500 - 62.000	62.500 - 61.000	61.500 - 60.000	60.500 - 59.000	59.500 - 58.000	57.500 - 56.000	
	mm		1638.3 - 1600.2	1612.9 - 1574.8	1587.5 - 1549.4	1562.1 - 1524.0	1536.7 - 1498.6	1511.3 - 1473.2	1460.1 - 1422.4	
BFC-86	inch		78.500 - 77.000	77.500 - 76.000	76.500 - 75.000	75.500 - 74.000	74.500 - 73.000	73.500 - 72.000	71.500 - 70.000	
	mm		1993.9 - 1955.8	1968.5 - 1930.4	1943.1 - 1905.0	1917.7 - 1879.6	1892.3 - 1854.2	1866.9 - 1828.8	1816.1 - 1778.0	

*All locator extensions over 4 inches (101.6 mm) are achieved by combining other sizes (i.e. 7-inch [177.8 mm] can use a 4-inch and 3-inch [101.6 and 76.2 mm] or a 4, 2, and 1 inch [101.6, 50.8 and 25.4 mm]).

ACCESSORIES AFC/BFC

Motor Adapters

Right angle drive assembly - includes right angle motor and adapter for BFC machines RAD-R

Front drive adapter (flips 4800 or 3800 air motors from the back of the machine to the front of the machine) - does not include motor (adapter only) FA-R

Reversing front drive adapter (adapter only) requires purchase of motor and front drive adapter (fa-r) Reva-R

Motors (includes motor, housing, and screws)

3800 Air motor assembly

IR3-R

4800 Air motor assembly

IR4-R

110V electric Motor assembly

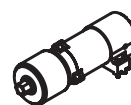
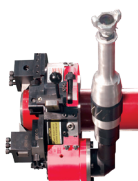
EM1-R

220V electric motor assembly

EM2-R

Hydraulic motor assembly

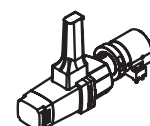
HYC-R



Pneumatic



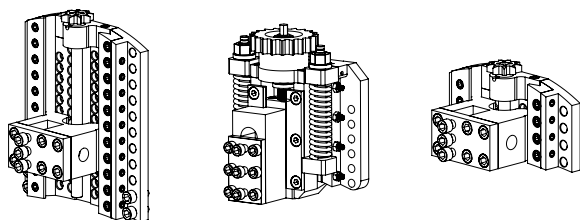
Hydraulic



Electric

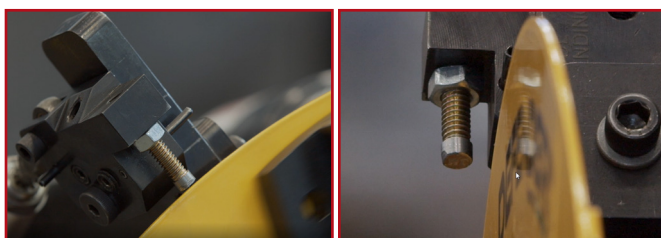
Tool Slide Assemblies

1-inch (25.4 mm) tool slide assembly	2100010
2-inch (50.8 mm) tool slide assembly	2100020
3-inch (76.2 mm) tool slide assembly	2100300
4-inch (101.6 mm) tool slide assembly	2100400
7-inch (177.8 mm) tool slide assembly	2100700
10-inch (254 mm) tool slide assembly	2100010



Tripper Assemblies

4-inch (101.6 mm) standard tripper	5004444
7-inch (177.8 mm) standard tripper	5007777
10-inch (254 mm) standard tripper	5557777



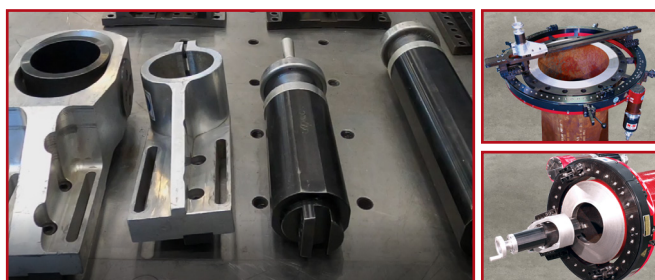
Counterbore Heads

Swivel counterbores (include the swivel base, boring bar, insert holder, and pack of 10 inserts)

Swivel counterbore with 6-inch (152 mm) boring bar	BB06-R
Swivel counterbore with 10-inch (254 mm) boring bar	BB10-R

Fixed counterbore (includes fixed base and boring bar-tooling is not included and needs to be added per the application)

Fixed counterbore with 6-inch (152 mm) boring bar	CB-R
Fixed counterbore with 10-inch (254 mm) boring bar	CB



Extension Pads

1/2-inch (12.7 mm) extension pad	3120012
1-inch (25.4 mm) extension pad	3120100
2-inch (50.8 mm) extension pad	3120200
3-inch (76.2 mm) extension pad	3120300

Carbide Holders		Carbide Insert	
Max depth of cut/max wall capacity = 3.5-inches [89 mm]			
#4 Insert Holder	2201300	#4 Insert	2201301
#6 Insert Holder	2201303	#6 Insert	2201304
#8 Insert Holder	2201331	#8 Insert (M5 X 0.80 X 20mm screw)	2201333
#10 Insert Holder	2201332	#10 Insert (M6 X 1.0 X 25mm screw)	2201334
37° Insert holder max wall capacity = 1.090" (27.7 mm)			
37° x 3.5-inch (89 mm) RH Insert Holder	2201352	RH Bevel Insert LH Bevel Insert M4 Torx screw	220-8010 2208011 SCRMP38
37° x 3.5-inch (89 mm) LH Insert Holder	2201351		
37° x 7-inch (178 mm) RH Insert Holder	2201344		
37° x 7-inch (178 mm) LH Insert Holder	2201343		
30° Insert holder max wall capacity = 1.190" (30.2mm)			
30° x 3.5-inch (89 mm) RH Insert Holder	2201350	RH Bevel Insert LH Bevel Insert M4 Torx screw	2208010 2208011 SCRMP38
30° x 3.5-inch (89 mm) LH Insert Holder	2201349		
30° x 7-inch (178 mm) RH Insert Holder	2201342		
30° x 7-inch (178 mm) LH Insert Holder	2201341		
37° - 30° Max wall capacity = 3.180-inch (80.8 mm)			
37° - 30° x 7-inch (178 mm) RH Insert Holder	2201348	RH Bevel Insert LH Bevel Insert M4 Torx screw	2208010 2208011 SCRMP38
37° - 30° x 7-inch (178 mm) LH Insert Holder	2201347		

Standard AFC and BFC Tooling

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Item	Description															Part Number		Item	Description															Part Number	
1	37° R.H. Bevel, 7-inch (178 mm)															2201013		19	37° R.H. Sever, 7-inch (178 mm)															2201063	
1	37° R.H. Bevel, 3.5-inch (89 mm)															2201064		19	37° R.H. Sever, 3.5-inch (89 mm)															2201062	
2	37° L.H. Bevel, 7-inch (178 mm)															2201014		20	37° L.H. Sever, 7-inch (178 mm)															2201060	
	37° L.H. Bevel, 3.5-inch (89 mm)															2201061		20	37° L.H. Sever, 3.5"															2201059	
3*	37° R.H. Double Bevel, 7-inch (178 mm)															2201016		21	1/4-inch (6.35 mm) Sever, 7-inch (178 mm)															2201002	
3*	37° R.H. Double Bevel, 3.5-inch (89 mm)															2201077		21	1/4-inch (6.35 mm) Sever, 3.5-inch (89 mm)															2201041	
4*	37° L.H. Double Bevel, 7-inch (178 mm)															2201015		22	3/8-inch (9.53 mm) Sever, 7-inch (178 mm)															2201001	
4*	37° L.H. Double Bevel, 3.5-inch (89 mm)															2201078		22	3/8-inch (9.53 mm) Sever, 3.5-inch (89 mm)															2201042	
5	37° Double Bevel Sever, 7-inch (178 mm)															2201080		23	10° Counter Bore, 2- inch (50.8 mm)															2201081	
5	37° Double Bevel Sever, 3.5-inch (89 mm)															2201020		24*	37° - 10° R.H. Double Bevel, 7-inch (178 mm)															2201018	
6	20° - 10° R.H. Bevel, 7-inch (178 mm)															2201025		25*	1/8-inch (3.18 mm) Sever, 6-inch (152.4)															2201248	
7	20° - 10° L.H. Bevel, 7-inch (178 mm)															2201023		26*	37° - 10° L.H. Double Bevel, 7-inch (178 mm)															2201017	
8	30° - 10° R.H. Bevel, 7-inch (178 mm)															2201029		27	45° R.H. Bevel, 7-inch (178 mm)															2201225	
9	30° - 10° L.H. Bevel, 7-inch (178 mm)															2201027		27	45° R.H. Bevel, 3.5-inch (89 mm)															2201223	
10	37° - 10° R.H. Bevel, 7-inch (178 mm)															2201009		28	45° L.H. Bevel, 7-inch (178 mm)															2201226	
11	37° - 10° L.H. Bevel, 7-inch (178 mm)															2201012		28	45° L.H. Bevel, 3.5-inch (89 mm)															2201224	
12	37° - 10° R.H. Sever, 7-inch (178 mm)															2201010		29	30° R.H. Bevel, 7-inch (178 mm)															2201129	
13	37° - 10° L.H. Sever, 7-inch (178 mm)															2201011		29	30° R.H. Bevel, 3.5-inch (89 mm)															2201099	
14	30° - 10° R.H. Sever, 7-inch (178 mm)															2201028		30	30° L.H. Bevel, 7-inch (178 mm)															2201131	
15	30° - 10° L.H. Sever, 7-inch (178 mm)															2201026		30	30° L.H. Bevel, 3.5-inch (89 mm)															2201125	
16	20° - 10° R.H. Sever, 7-inch (178 mm)															2201024		31	Counterbore Insert Holder															2201308	
17	20° - 10° L.H. Sever, 7-inch (178 mm)															2201022		31	Carbide Insert															INS38N	
18	37° Double Bevel, 7-inch (178 mm)															2201079		* Blades used as a set.																	
18	37° Double Bevel, 3.5-inch (89 mm)															2201019																			



H&S TOOL DEFENDER™ Powered by CLIMAX

Distractions, improper usage, insufficient experience, deviation from best practices, or adverse chance events in the work environment can lead to worker injuries. To further mitigate against these hazards, the DEFENDER™ Protection System safeguards operators, creating a much safer work environment for onsite machinists across the globe.

Key features include:

Patent Pending Dynamic Automated 'Hands-Free' Remote Control and Protection System will reshape the way you approach your pipe cutting and beveling projects.

Pneumatic conditioning unit with a low-pressure safety interlock system prevents unintended re-starts after the loss of supplied air pressure and E-stop for quick stops & controlled re-starts.

The Flow Control allows users to control the speed remotely – Slow down for heavy-wall, for more precise cutting after machining weld



overlay, or speed up for harder materials with carbide tooling.

The Shark Fin™ and DEFENDER™ ring guards mount cleanly to the clamshell mitigating the pinch points between the rotating slides and motor mount.

The Self Adjusting Shark Fin™ can adjust to the tripper position at any angle and requires no tools for setup eliminating pinch points between the rotating slides and tripper post.

Compatible Machine	DEFENDER™ kit with 4-inch (102 mm) tripper (includes PCU, pendant, tripper and guard)	DEFENDER™ kit with 7-inch (178 mm) tripper (includes PCU, pendant, tripper and guard)	DEFENDER™ kit with 10-inch (254 mm) tripper (includes PCU, pendant, tripper and guard)	Shark Fin™ and DEFENDER™ ring guards only
AFC 4				97204
AFC 6				97205
AFC 8	97176			97206
AFC 10	97177			97207
AFC 12	97178			97208
AFC 14	97179			97209
AFC 16	97180			97210
AFC 18	97181			97211
AFC 20	97182			97212
AFC 24	97183	97481		97213
AFC 26	97184	97482		97214
AFC 28	97185	97484		97215
AFC 30	97186	97485		97216
AFC 32	97187	97486		97217
AFC 36	97188	97487		97218
AFC 42	97189	97488		97219
BFC 48	97190	97489	97496	97220
BFC 56	97191	97490	97497	97221
BFC 66	97192	97491	97498	97222
BFC 72	97193	97492	97499	97223
BFC 86	97493	97494	97500	97501

Hands-Free Kit (includes pneumatic conditioning unit, tripper, and control pendant)

1/2 NPT air control assembly, 4-inch (101.6 mm) tripper 97274

1/2 NPT air control assembly, 7-inch (177.8 mm) tripper 97275





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Typical Courses Include:

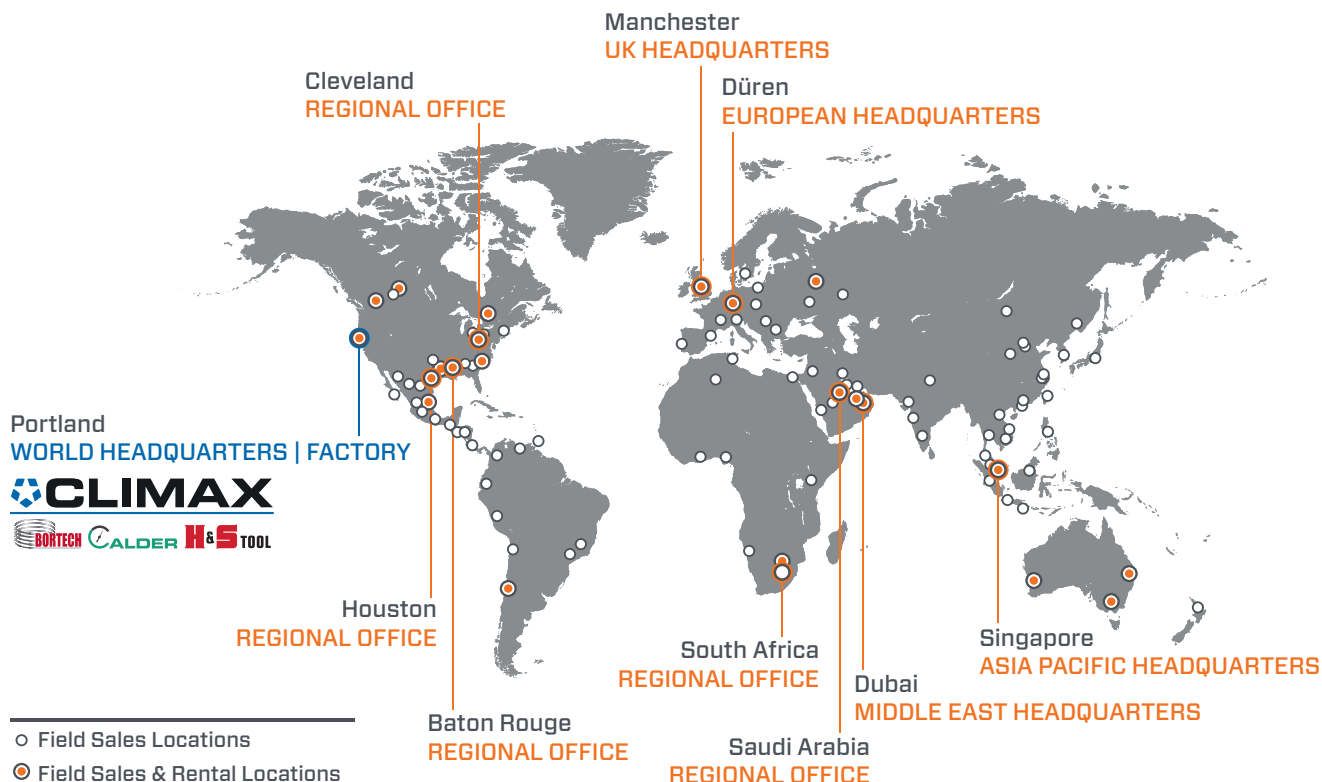
- ✓ Operator safety
- ✓ Tool component review and setup
- ✓ Standard operational techniques
- ✓ Overview of cutting tools and recommend usage
- ✓ Maintenance procedures
- ✓ A certificate of achievement - is-sued to each student immediately following course completion

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