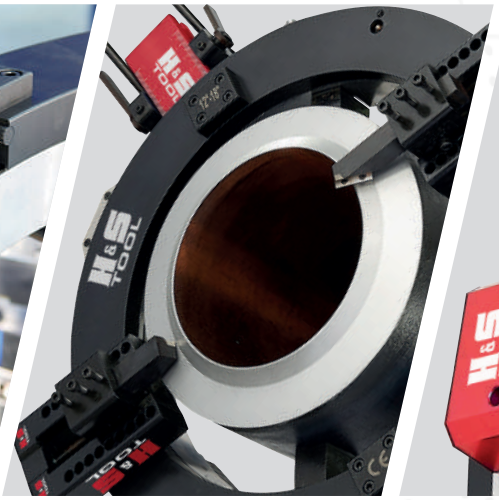
SPLIT FRAME CLAMSHELL COLD CUTTING AND BEVELING MACHINES

1 - 48" o/d / 33.4 - 1,220 mm o/d







SCAN QR CODE TO WATCH VIDEO

H&S TOOL
AN SPE GROUP BRAND

Daonte
Tecnología Metalmecánica

SPLIT FRAME CLAMSHELL COLD CUTTING AND BEVELING MACHINES 1" to 48"

1 - 48" o/d / 33.4 - 1,220 mm o/d
Customized machines available upon request

- **Functions:** External beveling / internal beveling / counter-boring / compound bevels / J-prep beveling
- **Materials:** Any kind of steel and exotic alloy
- **Power:** Pneumatic, electric (110v or 220v), hydraulic or servo electric motor (110v, 220v, three phase 380-480v)

HSSFC3 - HSSFC24 (MODULAR BLOCK LOCKING JAWS)





		HSSFC3	HSSFC6	HSSFC8	HSSFC12	HSSFC16	HSSFC18	HSSFC20	HSSFC24
Pipe Range	inch o/d	1 - 3"	1 - 6"	2 - 8"	6 - 12"	10 - 16"	12 - 18"	14 - 20"	18 - 24"
Pipe Range	mm o/d	33.4 - 88.9	33.4 - 168.3	60.3 - 219.1	168.3 - 323.9	273.1 - 406.4	323.9 - 457.2	355.6 - 508	457.2 - 609.6
Ring Locking Range	inch / mm o/d	0.98 - 3.62" 25 - 92	0.98 - 7.24" 25 - 184	1.97 - 9.25" 50 - 235	6.50 - 13.78" 165 - 350	10.43 - 16.73" 265 - 425	12.48 - 18.78" 317 - 477	13.50 - 20.79" 343 - 528	17.72 - 25.20" 450 - 640

*Selected HSSFC models (HSSFC8-HSSFC24) can be modified to have an extended range of 1" (HSSFC8) or 2" (e.g: HSSFC16 can be extended to 8 to 16") by adding an additional locking jaws set. See price list for more details.

* Selected TSFC models (HSSFC6-HSSFC24) can be fitted with optional complete locking jaws set for stainless steel applications (Part no. TSFCSEJ6-20SS).

HSSFC30 - HSSFC48 (TELESCOPIC LOCKING JAWS)





		HSSFC30	HSSFC36	HSSFC42	HSSFC48
Locking Range	inch o/d	24 - 30"	30 - 36"	36 - 42"	42 - 48"
Locking Range	mm o/d	609.6 - 762	762 - 914.4	914.4 - 1,066.8	1,066.8 - 1,219.2

*Above HSSFC models can be modified to have an extended range of 2" by adjusting the telescopic jaws and by adding the toolbox pair (Part no. HSSFTB11XL) (e.g: HSSFC30 can be extended to 22" to 30").

* Above HSSFC models can be fitted with optional locking jaw pads set for stainless steel applications (Part no. SFCBP6SS).

THE BASICS

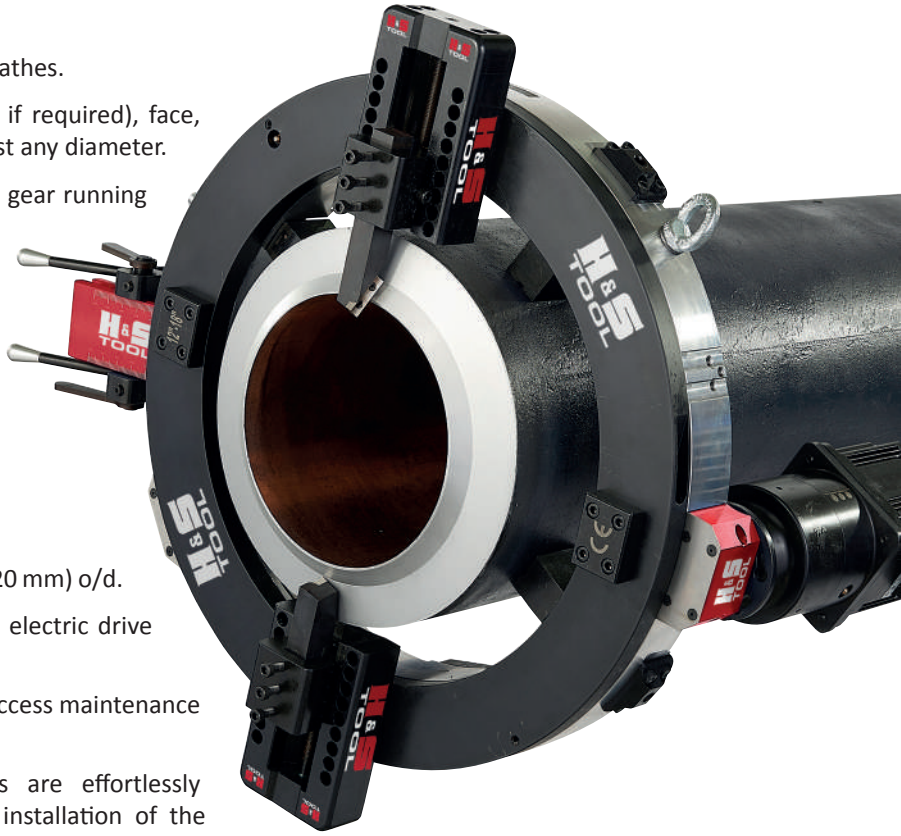
H&S's new split frame clamshells are essentially portable lathes.

Offering the versatility to cut and bevel (simultaneously if required), face, counterbore and o/d machine pipes (and vessels) of almost any diameter.

A light weight aluminium body, encases a steel inner ring gear running on solid bearings, ensuring manageability, yet extreme strength and durability.

Coupled with wide, hardened clamping feet, with easy read rule marks, enable rapid, repeatable concentric setup, even on out of round pipes and joints.

A range of tooling, power units and accessories allow you to tailor your machine to your particular job.

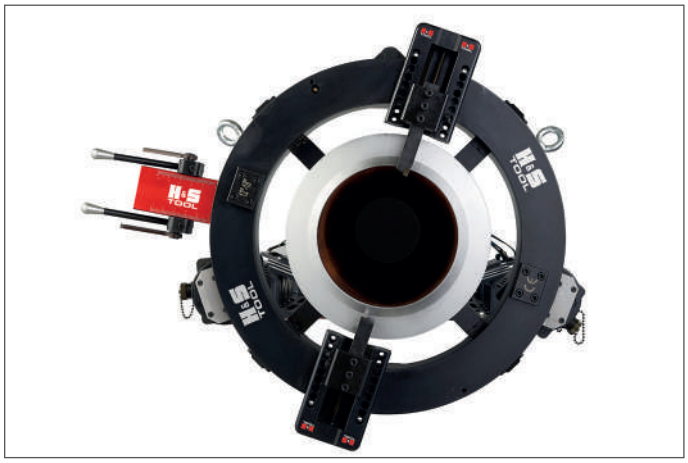


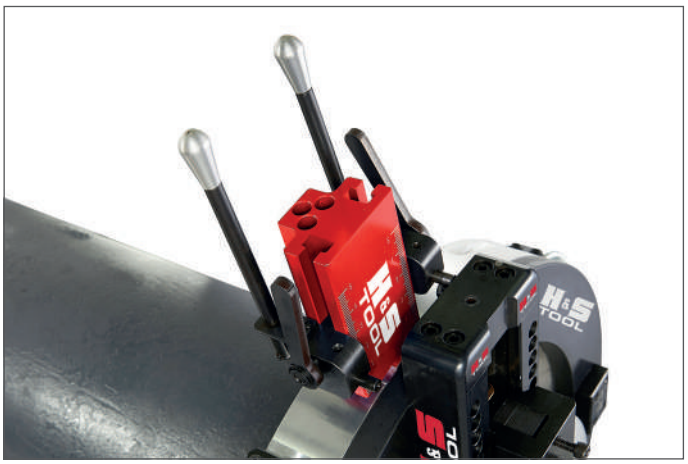
FEATURES AND ADVANTAGES

- 12 models cover a range from 1" (33.4 mm) to 48" (1,220 mm) o/d.
- Pneumatic, hydraulic, standard electric and NC servo electric drive options provide increased versatility.
- Adjustable heavy duty bearings, combined with easy access maintenance points allow inspection and adjustment.
- Modular block locking or telescopic locking jaws are effortlessly individually adjusted and allow for quick and easy installation of the clamshell on the pipe. Feet feature easy read measure marks for rapid setup and adjustment.
- H&S split frame clamshells accept a wide range of accessories to increase performance and expand machine capabilities.
- Unique 'H&S transmission' tool slides with changeable gears for adjustable radial tool feed.

QUICK SPLIT FRAME DESIGN











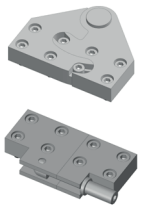
H&S advanced cam roller bearing system enables fine adjustment of bearings for optimal performance and maintenance delivering smooth precise rotation



Using the latest high grade aluminium along with treated steel crown the H&S split frames are designed for heavy duty industrial on-site use

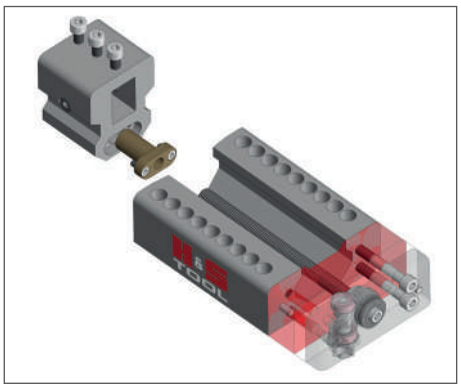


Quick lock/unlock splitting hinge to enable fast setup of machine onto pipes in situ.

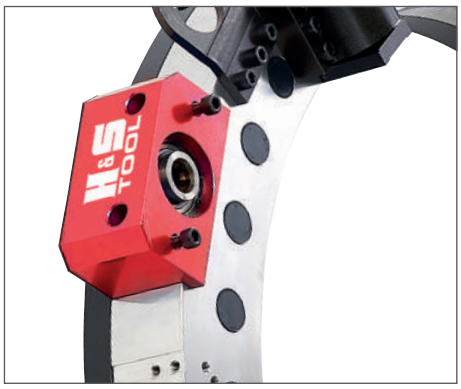




Custom made metal box withfoam insert to insure protection of the machine (up to HSSFC48)



H&S advanced feeding system delivers feed through worm and crown to evenly distribute pressure through the feeding screw, resulting in reduced vibration and wear on cutting tools



Two bolt motor mount enables fast mounting of motors. All power drives utilize the same drive block. Machines from 16" upwards are equipped with two motor mounts. Front drive motor mount optionally available.



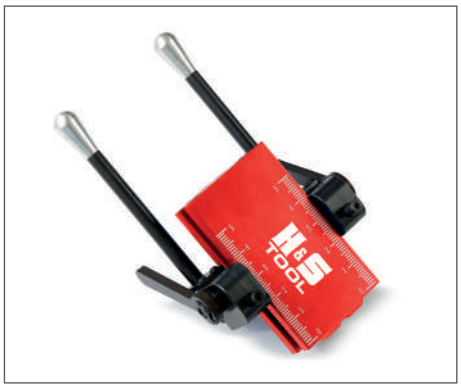
MODULAR BLOCK JAWS

Individual movable modular locking system with H&S advanced external metal plate to take pressure away from aluminium ring, clamping foot size 40 x 60 mm (1.57 x 2.36").



TELESCOPIC JAWS

Individual movable telescopic locking system externally mounted to keep aluminium ring solid for extra strength, increased clamping foot size 55 x 115 mm (2.16 x 4.52") for fast accurate setup.



Double striker enables feeding of 0.2mm (0.008") per revolution, also utilizing H&S extended engaging handle meaning hands free operation

TOOL BOXES AND ACCESSORIES

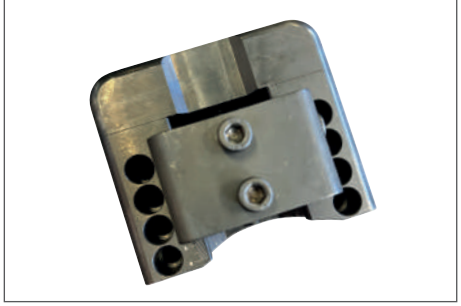
The tool boxes are available in various configurations to accept the full range of H&S tooling.

STANDARD TOOL BOX



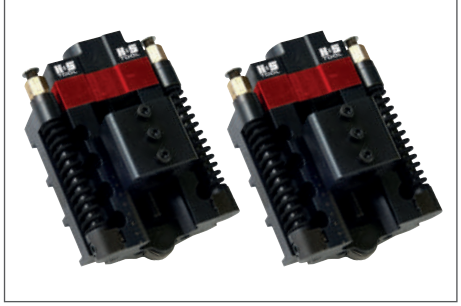
- Supplied as standard with complete machine
- **HSSFC3 (Part No HSSFTB4S)**
- **HSSFC6 - HSSFC8 (Part No HSSFTB7S)**
  Cutting and beveling all materials up to 2.3" / 60 mm wall thickness
- **HSSFC12 - HSSFC24 (Part No HSSFTB9M)**
  Cutting and beveling all materials up to 4.7" / 120 mm wall thickness
- **HSSFC30 - HSSFC42 (Part No HSSFTB9L)**
  Cutting and beveling all materials up to 4.7" / 120 mm wall thickness
- **HSSFC48 (Part No HSSFTB11XL)**
  Cutting and beveling all materials up to 4.7" / 120 mm wall thickness

STANDARD LOW CLEARANCE TOOL BOX



- Available as accessory
- Low profile for tight access situations
- **HSSFC6 - HSSFC8 (Part No HSSFTB4S)**
  Cutting and beveling all materials up to 1” / 25 mm wall thickness
- **HSSFC12 - HSSFC24 (Part No HSSFTB7S)**
  Cutting and beveling all materials up to 2.3” / 60 mm wall thickness
- **HSSFC30 - HSSFC48 (Part No HSSFTB9M)**
  Cutting and beveling all materials up to 4.7" / 120 mm wall thickness

SPRING LOADED O/D TRACKING TOOL BOX



- Available as accessory
- Ensuring accurate weld prep and root face by mechanically tracking the o/d of the pipe (ideal for out of round and large diameters pipe)
- **HSSFC6 - HSSFC24 (Part No HSSFCSLTBM)**
  Cutting and beveling all materials up to 0.8" / 20 mm wall thickness
- **HSSFC30 - HSSFC42 (Part No HSSFCSLTBL)**
  Cutting and beveling all materials up to 0.8" / 20 mm wall thickness
- **HSSFC48 (Part No HSSFCSLTBXL)**
  Cutting and beveling all materials up to 0.8" / 20 mm wall thickness

COUNTER BORE TOOL SLIDE



PART NO: HSSFCIT150MM (HSSFC6-24)
PART NO: HSSFCIT150ML (HSSFC30-48)
*** PART NO: TSFCIBE50**

The standard counter bore slide module accessory bolts directly to the standard tool slide and can be installed immediately upon completion of the cut and external bevel, to remove any internal inconsistencies prior to welding. The counter bore tool slide can be adjusted from 0 to 45 degree and has 6" / 150 mm feed.

* The internal bevel tool extension offers 0.79”/20 mm feed and is ideal for automatic orbital welding preparation.

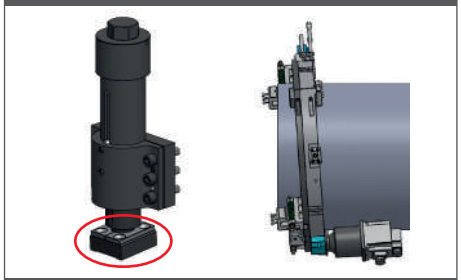
OUTSIDE BEVEL TOOL SLIDE



PART NO: HSSFOBT (HSSFC6 - 24)
PART NO: HSSFOBTL (HSSFC30 - 48)

The outside bevel tool slide accessory allows to remove an external pipe cover and/or reduce the outside diameter of the pipe. The accessory bolts on to the clamshell ring and is 11.8" / 300 mm in size, with a functional feed of 9.85" / 250 mm. Tooling is specifically designed per application.

SWIVEL LOCKING JAWS



PART NO: TSFCSJS (HSSFC6 - 24)
PART NO: TSFCSJSEL (HSSFC30 - 48)

The set of swivel locking jaws allows the machine to be positioned offset to the pipe with an inclination of 1 to 5 degrees. This accessory is useful on elbows, conic surfaces and for offset cutting.

H&S CLAMSHELL POWER OPTIONS & DRIVE UNITS

To meet the varying needs of job-sites worldwide, H&S's clamshell motors and drives are available in a range of configurations.

Drive motors are available in servo electric, hydraulic, pneumatic and electric configurations. Motor mounting flanges are standard available in straight back (in-line) and elbow / right angle version. Front drive reversible version is optional.

HSSFC3 - HSSFC24: IN-LINE MOTORS (STANDARD)

SERVO ELECTRIC MOTOR *

RECOMMENDED



HSSFC6 - HSSFC24

PART NO: HSSFCSEMG16-110V
PART NO: HSSFCSEMG16-220V

PNEUMATIC MOTOR *



HSSFC3 - HSSFC24

PART NO: HSSFCPMG16

HYDRAULIC MOTOR



HSSFC6 - HSSFC24

PART NO: TSFCHMG16

ELECTRIC MOTOR



HSSFC3 - HSSFC12

PART NO: HSSFCECK110
PART NO: HSSFCECK220

*On HSSFC16 - HSSFC120 Double Servo Electric and Double Pneumatic motorization is possible. For double pneumatic motorization, the double pneumatic conversion connectors and hose (PART NO. TSFCDPCCS) must be used.

HSSFC3 - HSSFC24: ELBOW MOTORS & FRONT DRIVE MOTOR MOUNT (OPTIONAL)

ELBOW SERVO ELECTRIC MOTOR *

RECOMMENDED



HSSFC6 - HSSFC24

PART NO: XP-TSFCSEMG16
PART NO: XP-TSFCSEMG16-3P

ELBOW PNEUMATIC MOTOR *



HSSFC3 - HSSFC24

PART NO: HSSFCEPMG16

FRONT DRIVE MOTOR MOUNT **



HSSFC8 - HSSFC24

PART NO: TSFCFMAL

*On HSSFC16 - HSSFC120 Double Servo Electric and Double Pneumatic motorization is possible. For double pneumatic motorization, the double pneumatic conversion connectors and hose (PART NO. TSFCDPCCS) must be used.
** On HSSFC16 - HSSFC48 two front drive motor mounts can be installed and these can be fitted with servo electric, electric, pneumatic and hydraulic motor.

HSSFC30 - HSSFC48: IN-LINE MOTORS (STANDARD)

SERVO ELECTRIC MOTOR *

RECOMMENDED



PART NO: HSSFCSEMG25-110V
PART NO: HSSFCSEMG25-220V

PNEUMATIC MOTOR *



PART NO: HSSFCPMG25

HYDRAULIC MOTOR



PART NO: TSFCHMG25

*On HSSFC16 - HSSFC120 Double Servo Electric and Double Pneumatic motorization is possible. For double pneumatic motorization, the double pneumatic conversion connectors and hose (PART NO. TSFCDPCCS) must be used.

HSSFC30 - HSSFC48: ELBOW MOTORS & FRONT DRIVE MOTOR MOUNT (OPTIONAL)

ELBOW SERVO ELECTRIC MOTOR *

RECOMMENDED



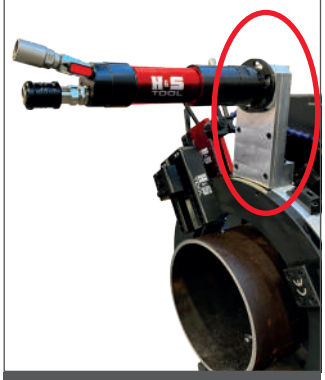
PART NO: XP-TSFCSEMG25
PART NO: XP-TSFCSEMG25-3P

ELBOW PNEUMATIC MOTOR *



PART NO: HSSFCEPMG25

FRONT DRIVE MOTOR MOUNT **



PART NO: TSFCFMAXL

***On HSSFC16 - HSSFC120 Double Servo Electric and Double Pneumatic motorization is possible. For double pneumatic motorization, the double pneumatic conversion connectors and hose (PART NO. TSFCDPCCS) must be used.**
****On HSSFC16 - HSSFC48 two front drive motor mounts can be installed and these can be fitted with servo electric, electric, pneumatic and hydraulic motor.**

H&S'S ELECTRIC NC SERVO DRIVE MOTOR SYSTEM

H&S's electric NC (Numerically Controlled) Servo Motor System offers an unrivaled level of speed, versatility, efficiency and overall cutting and bevel performance. The Delta 1.5 kW servo motor provides constant torque and does not slow down or strain under load.

H&S offers 2 versions of the NC Servo Drive Motor System:

- The **single servo motor system** (from HSSCF6 upwards) (single phase, 110v or 220v) is equipped with 1 Delta 1.5 kW servo motor, an NC control unit with a wired remote.
- The **double servo motor system** (from HSSCF16 upwards) (single phase, 220v or three phase 380-480v) is equipped with 2 Delta 1.5 kw servo motors, an NC control unit with operator's touch screen (allowing detailed RPM and program setting controls) and wireless remote, providing additional safety to machine operator.

The single servo motor system is advised to be used upto 1" / 25 mm wall thickness applications, whereas the double servo system is to be used on wall thickness above 1" /25 mm, larger diameter pipe (as of 24" / 609.6 mm) and exotic materials.

Single servo control



Double servo control



TOOLING

H&S offers two ranges of standard HSS-Co (High Speed Steel-Cobalt) tooling:

- H&S formed / solid tooling: including sever/cut, bevel, double-bevel, compound bevel, J-prepping and counter bore tools. The tooling is available in a range of different lengths and sizes, allowing for a precise match between the tooling and its applications.
- H&S holder and insert tooling (**recommended**): including sever/cut, bevel, compound bevel and counter bore tools. Many holders utilize the same interchangeable inserts, reducing the quantity of consumable parts.

H&S also offers, next to its extensive range of standard tooling, custom designed tooling for particular applications, projects and materials.



All shapes, sizes and angles available

Specific tooling for automatic orbital welding applications with Magnatech is available.

MAGNATECH
AN OEG GROUP BRAND

FIXED ANGLE BEVEL



COMPOUND BEVEL

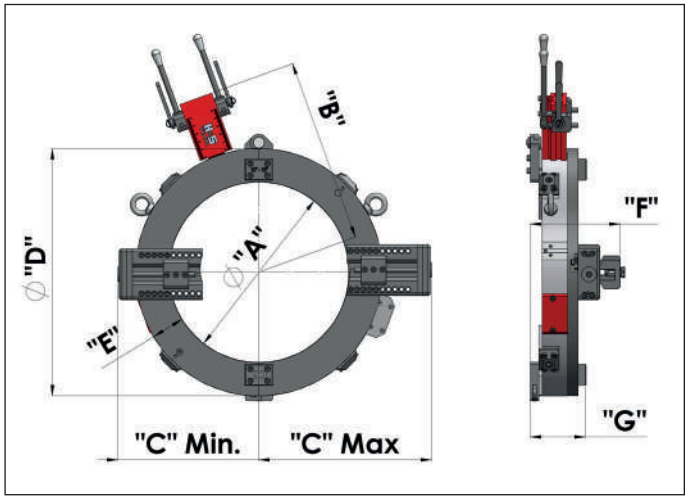


J PREP

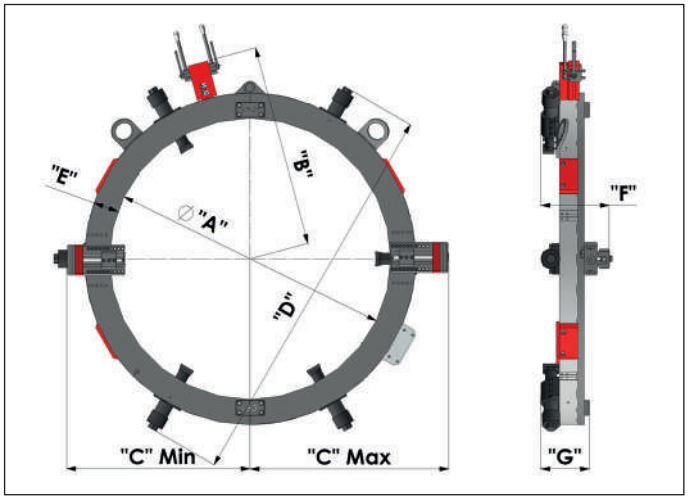


RING DIMENSIONS

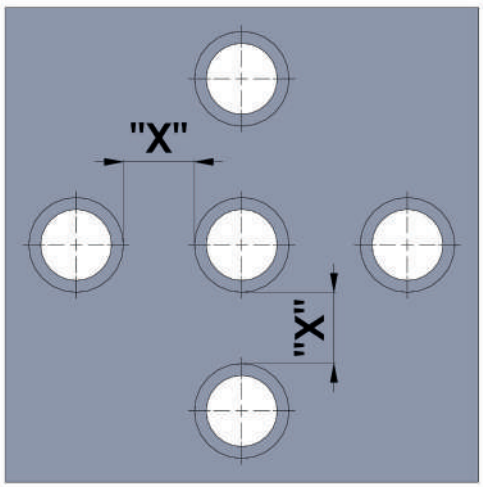
		HSSFC3	HSSFC6	HSSFC8	HSSFC12	HSSFC16	HSSFC18	HSSFC20	HSSFC24	HSSFC30	HSSFC36	HSSFC42	HSSFC48
O/D RANGE	inch	1 - 3”	1 - 6"	2 - 8"	6 - 12"	10 - 16"	12 - 18"	14 - 20"	18 - 24"	24 - 30"	30 - 36"	36 - 42"	42 - 48"
A	mm / inch	95.0 / 3.74	184.0 / 7.24	235.0 / 9.25	350.0 / 13.78	425.0 / 16.73	477.0 / 18.78	528.0 / 20.79	640.0 / 25.20	800.0 / 31.50	956.0 / 37.64	1108.0 / 43.62	1280.0 / 50.39
B	mm / inch	223.0 / 8.78	283.0 / 11.14	308.5 / 12.15	396.0 / 15.59	433.5 / 17.07	459.5 / 18.09	485.0 / 19.09	541.0 / 21.30	635.0 / 25.00	713.0 / 28.07	789.0 / 31.06	895.0 / 35.24
C MIN	mm / inch	136.0 / 5.35	187.0 / 7.36	212.5 / 8.37	270.0 / 10.63	307.5 / 12.11	333.5 / 13.13	359.0 / 14.13	415.0 / 16.34	523.5 / 20.61	601.5 / 23.68	677.5 / 26.67	783.5 / 30.85
C MAX	mm / inch	168.0 / 6.61	197.0 / 7.76	222.5 / 8.76	356.0 / 14.02	393.5 / 15.49	419.5 / 16.52	445.0 / 17.52	501.0 / 19.72	615.0 / 24.21	693.0 / 27.28	769.0 / 30.28	875.0 / 34.45
D	mm / inch	220.0 / 8.66	340.0 / 13.39	391.0 / 15.39	506.0 / 19.92	581.0 / 22.87	633.0 / 24.92	684.0 / 26.93	796.0 / 31.34	1180.0 / 46.46	1336.0 / 52.60	1488.0 / 58.58	1800.0 / 70.87
E	mm / inch	62.5 / 2.46	78.0 / 3.07	78.0 / 3.07	78.0 / 3.07	78.0 / 3.07	78.0 / 3.07	78.0 / 3.07	78.0 / 3.07	100.0 / 3.94	100.0 / 3.94	100.0 / 3.94	120.0 / 4.72
F	mm / inch	172.5 / 6.79	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	267.5 / 10.53	267.5 / 10.53	267.5 / 10.53	277.5 / 10.93
G	mm / inch	81.5 / 3.21	124.0 / 4.88	124.0 / 4.88	124.0 / 4.88	124.0 / 4.88	124.0 / 4.88	124.0 / 4.88	124.0 / 4.88	196.0 / 7.72	196.0 / 7.72	196.0 / 7.72	206.0 / 8.11
X	mm / inch	119.0 / 4.69	130.0 / 5.12	130.0 / 5.12	210.0 / 8.27	210.0 / 8.27	210.0 / 8.27	210.0 / 8.27	210.0 / 8.27	255.0 / 10.04	255.0 / 10.04	255.0 / 10.04	265.0 / 10.43
Low clearance options or custom machines available on request in case of access restrictions													
F Ring only		172.5 / 6.79	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	195.5 / 7.70	267.5 / 10.53	267.5 / 10.53	267.5 / 10.53	267.5 / 10.53
F Pneumatic Motor		527 / 20.75	535.5 / 21.08	535.5 / 21.08	535.5 / 21.08	535.5 / 21.08	535.5 / 21.08	535.5 / 21.08	535.5 / 21.08	727.6 / 28.65	727.6 / 28.65	727.6 / 28.65	727.6 / 28.65
F Servo Motor		575 / 22.64	525.5 / 20.69	525.5 / 20.69	525.5 / 20.69	525.5 / 20.69	525.5 / 20.69	525.5 / 20.69	525.5 / 20.69	642.5 / 25.30	642.5 / 25.30	642.5 / 25.30	642.5 / 25.30
F Hydraulic Motor		n/a	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73	425.0 / 16.73
Right angle drive motors are available on request (extra at cost)													

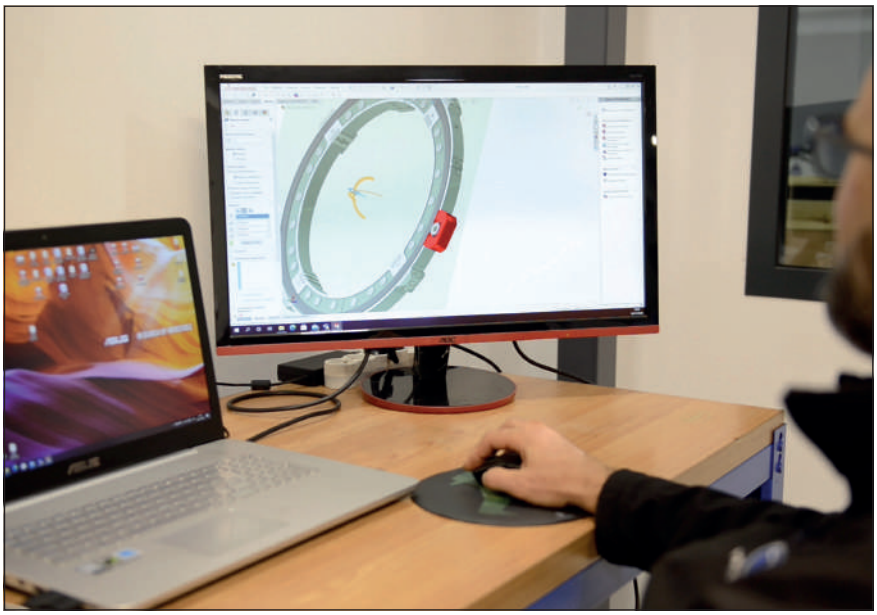


HSSFC3 - HSSFC24



HSSFC30 - HSSFC48





SPLIT FRAME TECHNICAL FEATURES

		HSSFC3	HSSFC6	HSSFC8	HSSFC12	HSSFC16	HSSFC18	HSSFC20	HSSFC24	HSSFC30	HSSFC36	HSSFC42	HSSFC48
Locking Range	inch o/d	1 - 3”	1 - 6"	2 - 8"	6 - 12"	10 - 16"	12 - 18"	14 - 20"	18 - 24"	24 - 30"	30 - 36"	36 - 42"	42 - 48"
Locking Range	mm o/d	33.4 - 88.9	33.4 - 168.3	60.3 - 219.1	168.3 - 323.9	273.1 - 406.4	323.9 - 457.2	355.6 - 508	457.2 - 609.6	609.6 - 762	762 - 914.4	914.4 - 1,066.8	1,066.8 - 1,219.2
Ring Only Weight	kg	12	23	32	46	53	58	62	76	183	204	242	323
Toolbox Stroke	mm / inch	30 / 1.18	60 / 2.36	60 / 2.36	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54	90 / 3.54
Motor Mount Positions	qty	1	1	1	1	2	2	2	2	2	2	4	4
Striker Mount Positions	qty	1	1	1	2	3	3	3	3	3	4	4	5
Bearing size	S/L	S	S	S	S	S	S	S	S	L	L	L	L
Spline Drive Size	mm / inch	16 / 0.63	16 / 0.63	16 / 0.63	16 / 0.63	16 / 0.63	16 / 0.63	16 / 0.63	16 / 0.63	25 / 0.98	25 / 0.98	25 / 0.98	25 / 0.98
Pneumatic Idle Speed	rpm	5 - 44	5 - 36	5 - 28	5 - 21	5 - 18	5 - 17	5 - 16	5 - 15	1 -8	1 - 8	1 - 7	1 - 6
Electric Idle Speed	rpm	5 - 40	5 - 20	5 - 16	5 - 12	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Servo Electric Idle Speed	rpm	n/a	1 - 45	1 - 36	1 - 27	1 - 23	1 - 21	1 - 19	1 - 18	1 - 9	1 - 9	1 - 8	1 - 7
Hydraulic Idle Speed	rpm	n/a	5 - 30	5 - 28	5 - 25	5 - 20	5 - 19	5 - 17	5 - 16	1 - 8	1 - 8	1 - 8	1 - 8
Pneumatic Motor Power	hp	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	3.5	3.5	3.5	3.5
Double Pneumatic Motor(s) Power	hp	n/a	n/a	n/a	n/a	3.7	3.7	3.7	3.7	7.0	7.0	7.0	7.0
Electric Motor Power	watt	1900	1900	1900	1900	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Single Servo Electric Motor Power	Kw	n/a	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Double Servo Electric Motor(s) Power	Kw	n/a	n/a	n/a	n/a	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Hydraulic Motor Power	hp	n/a	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40
Electric / Servo Electric Voltage	volt	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220	110 / 220
Electric / Servo Electric Voltage (3 phase)	volt	n/a	n/a	n/a	n/a	380-480	380-480	380-480	380-480	380-480	380-480	380-480	380-480
Electric / Servo Electric Frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Air Working Pressure	psi / bar	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5	90 / 6.5
Air hose Connection	inch	½	½	½	½	½	½	½	½	¾	¾	¾	¾
Air Consuming Flux (Double x2)	cfm/ LPM	50 / 1400								90 / 2500			
Feed Rate per Revolution	mm / inch	0.2 / 0.008								0.2 / 0.008			
Locking System		MODULAR								TELESCOPIC			

Our group policy is one of continuous improvement. Products and data tables are subject to change or vary from those illustrated.

- All complete machines are supplied with: machine ring/body, motor, tool boxes, striker, locking jaws, machine box, service tools.
- A protective custom built metal box is supplied with HSSFC6 - HSSFC48, all larger sizes are supplied in a custom built wooden box. HSSFC3 is supplied in a plastic hard cover protective box.
- Drawings, instruction manual and warranty certificate are also supplied as standard.
- Pneumatic machine must be used with filter lubricator and oil - use without will void warranty.



SPLIT FRAME PACKING WEIGHTS AND DIMENSIONS

SPLIT FRAME MODEL	HSSFC3	HSSFC6	HSSFC8	HSSFC12	HSSFC16	HSSFC18	HSSFC20	HSSFC24	HSSFC30	HSSFC36	HSSFC42	HSSFC48
Pneumatic	48 kg / 106 lbs.	167 kg / 368 lbs.	177 kg / 390 lbs.	197 kg / 434 lbs.	238 kg / 525 lbs.	241 kg / 531 lbs.	249 kg / 549 lbs.	262 kg / 578 lbs.	300 kg / 661 lbs.	335 kg / 738 lbs.	375 kg / 826 lbs.	445 kg / 981 lbs.
Double Pneumatic	n/a	n/a	n/a	n/a	258 kg / 569 lbs.	261 kg / 575 lbs.	269 kg / 593 lbs.	282 kg / 622 lbs.	320 kg / 705 lbs.	355 kg / 782 lbs.	395 kg / 870 lbs.	465 kg / 1,002 lbs.
Single Servo Electric	n/a	182 kg / 401 lbs.	182 kg / 401 lbs.	212 kg / 467 lbs.	253 kg / 558 lbs.	256 kg / 564 lbs.	264 kg / 582 lbs.	277 kg / 611 lbs.	315 kg / 694 lbs.	345 kg / 760 lbs.	385 kg / 848 lbs.	455 kg / 1,003 lbs.
Double Servo Electric	n/a	n/a	n/a	n/a	283 kg / 624 lbs.	286 kg / 631 lbs.	289 kg / 637 lbs.	307 kg / 677 lbs.	345 kg / 760 lbs.	380 kg / 837 lbs.	420 kg / 926 lbs.	490 kg / 1,080 lbs.
Hydraulic	n/a	162 kg / 357 lbs.	172 kg / 379 lbs.	192 kg / 423 lbs.	233 kg / 514 lbs.	236 kg / 520 lbs.	244 kg / 538 lbs.	257 kg / 567 lbs.	290 kg / 639 lbs.	320 kg / 705 lbs.	365 kg / 805 lbs.	435 kg / 960 lbs.
Packing Dimensions	800 x 600 x 450 mm/ 31.4 x 23.6 x 17.7"	1,200 x 900 x 470 / 47.2 x 35.4 x 18.5			1,450 x 1,000 x 510 mm / 57.1 x 39.4 x 20.1"				1,460 x 1,460 x 500 mm 57.5 x 57.5 x 19.7"		1,600 x 1,600 x 500 mm / 63 x 63 x 19.7"	1,960 x 1,960 x 500 mm / 77 x 77 x 19.7"

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