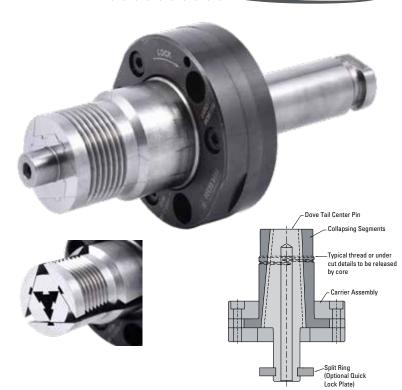
DoveTail Collapsible Cores





DoveTail Core Advantages

- Positive mechanically actuated Collapsible Core
- Collapse amount: 5% to 7% per side
- Eliminates costly Rack and Gear Systems
- · Enables faster mold cycle times
- Patented Quick Lock Plate (optional) helps cut service time
- Built-in center cooling channel
- Standard and custom sizes available

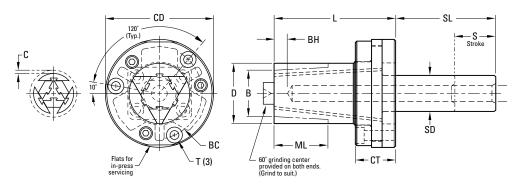


Simplified Mold Design Maximizes Cost Savings

The Collapsible Core DT Series provides a more compact and simplified solution to molding challenging internal undercut features such as o-ring grooves, slots and snap-fit designs. Available in four original standard sizes and in customized sizes, the DT Collapsible Core Series eliminates the need for unscrewing mechanisms.

Dove Tail Collapsible Cores Enable Application Design Flexibility

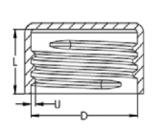
- All standard DT Series Collapsible Cores offer 360 degree molding of threads or other undercut features
- Molded parts are not required to be closed at one end; they may be partially or completely open
- DME offers customized DT Cores with pre-machined part detail
- A variety of coatings and treatments are available
- For an engineering review, email your part drawing or application to dme_mech_eng@milacron.com

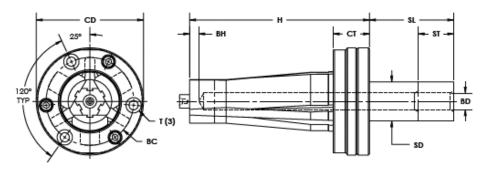


ITEM NUMBER	D MINIMUM OUTER DIAMETER	B MINIMUM INNER DIAMETER +3°/SIDE	ML MAXIMUM MOLDING LENGTH	-	CD CARRIER DIAMETER +0.00 - 0.05	CT CARRIER ASSEMBLY THICKNESS ± 0.05	L CORE LENGTH +0.1 - 0.0	SL SHAFT LENGTH	SD SHAFT DIAMETER +0.00 - 0.02	BD COOLING HOLE DIAMETER	TO	BC MOUNTING SCREW BOLT CIRCLE		S MAXIMUM COLLAPSE STROKE
DT18	21	17	22	1.1	53	21	60	60	16	6	6	40	M5 x 25	34
DT28	33	25	28	1.6	60	22	67	60	20	8	8	47	M5 x 25	38
DT38	42	33	43	2.1	76	28	85	60	25	10	10	60	M6 x 35	54
DT48	54	42	50	2.4	98	37	104	70	30	12	12	78	M8 x 40	62

DoveTail Collapsible Cores



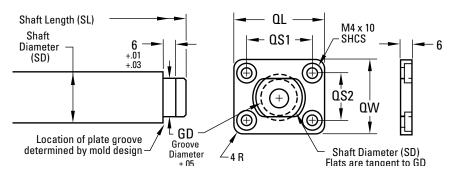




ITEM NUMBER	D MAXIMUM OUTER DIA	U MAX UNDERCUT	L MAX MOLDING LENGTH	ST MAX COLLAPSE STROKE	H CORE LENGTH	SD SHAFT DIAMETER	BD COOLING HOLE DIAMETER	BH DISTANCE TO COOLING HOLE	SL SHAFT LENGTH	CD CARRIER DIAMETER	CT CARRIER ASSEMBLY THICKNESS	BC MOUNTING SCREW BOLT CIRCLE	T MOUNTING SCREWS (SHCS)
DT1010	10.00-10.99mm .394433in	.36mm .014in	7.5mm .295in	43.5mm 1.713in	87mm	10.5mm	3mm	5mm	58mm	50mm	21mm	37mm	M5 x 25
DT1111	11.00-11.99mm .433472in	.41mm .016in	8mm .315in	44.5mm 1.752in	3.425in	.413in	.1in	.2in	2.283in	1.969in	.827in	1.457in	WO X ZO
DT1212	12.00-12.99mm (.472511in	.46mm .018in	8.5mm .335in	45.5mm 1.791in	87mm	12mm	4mm	5mm	59mm	52mm	21mm	38mm	Me v 25
DT1313	13.00-13.99mm .512551in	.51mm .020in	9mm .354in	46.5mm 1.831in	3.425in		.2in	.2in	2.323in	2.047in	.827in	1.496in	M6 x 35
DT1414	14.00-14.99mm .551590in	.56mm .022in	9.5mm .374in	47mm 1.850in	87mm	14mm	5mm	5mm	60mm	54mm	21mm	41mm	ME v 2E
DT1515	15.00-15.99mm .591630in	.61mm .024in	10mm .394in	47.5mm 1.870in	3.425in		.2in	.2in	2.362in	2.126in	.827in	1.614in	M5 x 25
DT1616	16.00-16.99mm .630669in	.66mm .026in	10.5mm .413in	48mm 1.890in	87mm	15.5mm	6mm	5mm	62mm	56mm	21mm	43mm	MEVOE
DT1717	17.00-17.99mm .669708in	.71mm .028in	11mm .433in	48.5mm 1.909in	3.425in	3.425in .610in	.2in	.2in	2.441in	2.205in	.827in	1.693in	M5x25
DT1819	18.00-18.99mm .709787in	.82mm .032in	12mm .472in	50mm 1.969in	99mm	18mm	8mm	6mm	61mm	63mm	24mm	49mm	MC-20
DT2021	20.00-20.99mm .787866in	.92mm .036in	12.5mm .492in	55mm 2.165in	3.898in .709in	.3in .2in	.2in	2.402in	2.480in	.945in	1.929in	M6x30	
DT2224	22.00-24.99mm .866984in	1.04mm .041in	13mm .512in	59mm 2.323in	109mm 2	22mm	10mm	6mm	64mm	69mm 2.717in	24mm .945in	55mm 2.165in	M6x30
DT2527	25.00-27.99mm .984-1.102in	1.20mm .047in	15mm .591in	66.5mm 2.618in	4.291in	.866in	.4in .2ir	.2in	2.520in				
DT2830	28.00-30.99mm 1.102-1.220in	1.36mm .053in	18mm .709in	71mm 2.795in	129mm	28mm	12mm	6mm	60mm	77mm	26mm	63mm	Mey20
DT3133	31.00-33.99mm 1.220-1.338in	1.50mm .059in	21mm .827in	78mm 3.071in	5.079in	1.102in	.5in	.2in	2.362in	3.031in	1.024in	2.480in	M6x30
DT3436	34.00-36.99mm 1.339-1.456in	1.73mm .068in	22mm .866in	79mm 3.110in	139mm	34mm	14mm	6mm	64mm	93mm	27mm	75mm	Movan
DT3739	37.00-39.99mm 1.457-1.574in	1.88mm .074in	24mm .945in	85mm 3.346in	5.472in	1.339in	.6in	.2in	2.520in	3.661in	1.063in	2.953in	M8x30
DT4042	40.00-42.99mm 1.575-1.693in	2.06mm .081in	25mm .984in	86mm 3.386in	151mm	39mm	17mm	6mm	65mm	101mm	32mm	83mm	Movae
DT4345	43.00-45.99mm 1.693-1.811in	2.24mm .088in	27mm 1.063in	93mm 3.661in	5.945in		.7in .2ir	.2in	2.559in	3.976in	1.260in	3.268in	M8x35
DT4648	46.00-48.99mm 1.811-1.929in	2.42mm .095in	28mm 1.102in	94mm 3.701in	161mm	42mm	20mm	6mm	69mm	110mm	32mm	90mm	Movae
DT4951	49.00-51.99mm 1.929-1.047in	2.57mm .101in	31mm 1.220in	99mm 3.898in	6.339in	1.654in	.8in	.2in	2.717in	4.331in	1.260in	3.543in	M8x35
DT5254	52.00-54.99mm 2.047-2.165in	2.77mm .109in	32mm 1.260in	100mm 3.937in									
DT5557	55.00-57.99mm 2.165-2.283in	2.95mm .116in	34mm 1.339in	106mm 4.173in	183mm 7.205in	50mm 1.969in	22mm .9in	6mm .2in	85mm 3.346in	130mm 5.118in	39mm 1.535in	107mm 4.213in	M10x45
DT5860	58.00-60.99mm 2.208-2.401in	3.10mm .122in	36mm 1.417in	111mm 4.370in									



DoveTail Collapsible Cores DT Series Collapsible Cores Optional Quick Lock Plate

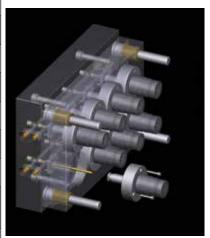


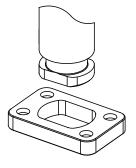
OPTIONAL QUICK LOCK PLATE

Material: A-2, 54-57 HRC

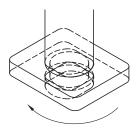
Utilizing the exclusive Quick Lock mounting configuration, the DT Core can be removed and serviced while the mold remains in the press. The feature allows for a higher cavitation percentage and lower maintenance costs than other tool design approaches

ITEM NUMBER	USE WITH DT CORE	GD	QL +0.00 -0.05	QVV +0.00 -0.05	QS1	QS2	Н	B (MOUNTING SCREWS)
DTQLP1011	DT1010 DT1111	7.43mm .93in	26.01mm 1.024in	18.01mm .709in	17.50mm .689in	9.50mm .774in	4mm .1575in	M3
DTQLP1213	DT1212 DT1313	9.02mm .355in	27.99mm 1.102in	18.01mm .709in	19.51mm .768in	9.50mm .374in	4mm .1575in	M3
DTQLP1415	DT1414 DT1515	9.81mm .386in	30mm 1.181in	19.99mm .787in	21.49mm .846in	11.51mm .453in	5mm .1969in	M3
DTQLP1617	DT1616 DT1717	10.60mm .417in	32mm 1.260in	22mm .866in	23.50mm .925in	13.49mm .531in	5mm .1969in	M3
DTQLP1821	DT1819 DT2021	12.99mm .511in	35mm 1.378in	24.99mm .984in	24.99mm .984in	15.01mm .591in	6mm .2362in	M4
DTQLP2227	DT2224 DT2527	16.16mm .636in	38mm 1.496in	27.99mm 1.102in	27.99mm 1.102in	18.01mm .709in	6mm .2362in	M4
DTQLP2833	DT2830 DT3133	21.72mm .855in	43.99mm 1.732in	32mm 1.260in	34.01mm 1.339in	22mm .866in	6mm .2362in	M4
DTQLP3439	DT3436 DT3739	25.69mm 1.011in	51.99mm 2.047in	40.01mm 1.575in	40.01mm 1.575in	27.99mm 1.102in	8mm .3150in	M5
DTQLP4045	DT4042 DT4345	30.45mm 1.199in	56.01mm 2.205in	43.99mm 1.732in	43.99mm 1.732in	32mm 1.260n	8mm .3150in	M5
DTQLP4651	DT4648 DT4951	34.42mm 1.355in	57.99mm 2.283in	46mm 1.811in	46mm 1.811in	34.01mm 1.339in	8mm .3150in	M5
DTQLP5260	DT5254 DT5557 DT5860	39.18mm 1.543in	65.99mm 2.598in	54mm 2.126in	53.01mm 2.087in	41mm 1.614in	10mm .3937in	M6
DTQLP18	DT18	12mm .472in	35mm 1.378in	22mm .866in	25mm .984in	12mm .472in	6mm .2362in	M4
DTQLP28	DT28	15mm .591in	38mm 1.496in	25mm .984in	28mm 1.102in	15mm .591in	6mm .2362in	M4
DTQLP38	DT38	19mm .748in	41mm 1.614in	31mm 1.220in	30mm 1.181in	20mm .787in	6mm .2362in	M4
DTQLP48	DT48	23mm .906in	44mm 1.732in	35mm 1.378in	34mm 1.339in	25mm .984in	6mm .2362in	M4

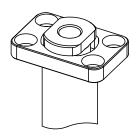




Align and push end of Center Pin through Quick Lock Plate



Rotate Center Pins clockwise 90° to lock into plate



Bottom view of Center Pin and Quick Lock Plate in locked position

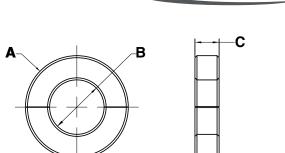
DoveTail Collapsible CoresDT Series Collapsible Cores Split Rings & Optional Retention Sleeve

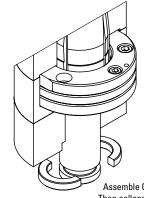


Material: A-2, 54-57 HRC

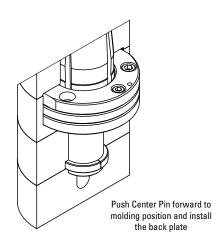
Utilizing the split ring allows for a simpler attachment method.

Othizing the	spill tilly all	UVVS 101 a SIII	ipier attachme	ili illetilou.
ITEM NUMBER	USE WITH DT CORE	A OUTER DIAMETER	B INNER DIAMETER	C THICKNESS
DTSR1011	DT1010	16mm	7.95mm	3.99mm
	DT1111	.63in	.313in	.157in
DTSR1213	DT1212	17.53mm	9.53mm	3.99mm
	DT1313	.69in	.375in	.157in
DTSR1415	DT1414	20.32mm	10.31mm	5mm
	DT1515	.80in	.406in	.197in
DTSR1617	DT1616	21.08mm	11.13mm	5mm
	DT1717	.83in	.438in	.197in
DTSR1821	DT1819	25.40mm	13.49mm	5.99mm
	DT2021	1.00in	.531in	.236in
DTSR2227	DT2224	28.70mm	16.66mm	5.99mm
	DT2527	1.13in	.656in	.236in
DTSR2833	DT2830	34.29mm	22.23mm	5.99mm
	DT3133	1.35in	.875in	.236in
DTSR3439	DT3436	42.16mm	26.19mm	8mm
	DT3739	1.66in	1.031in	.315in
DTSR4045	DT4042	46.99mm	30.96mm	8mm
	DT4345	1.85in	1.219in	.315in
DTSR4651	DT4648	50.80mm	34.93mm	8mm
	DT4951	2.00in	1.375in	.315in
DTSR5260	DT5254 DT5557 DT5860	59.69mm 2.35in	39.70mm 1.563in	9.98mm .393in
DTSR18	DT18	24.89mm .98in	12.70mm .500in	6.35m .250in
DTSR28	DT28	27.94mm 1.10in	15.88mm .625in	6.35mm .250in
DTSR38	DT38	34.80mm 1.37in	20.62mm .812in	6.35mm .250in
DTSR48	DT48	37.59mm 1.48in	25.40mm 1.000in	6.35mm .250in





Assemble Core into the Mold. Then collapse the core to inatall the split ring.



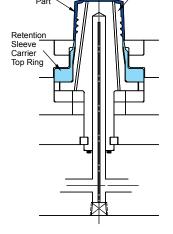
Optional Retention Sleeve

Material: D-2, 60-62 HRC

Retention Sleeves for the DoveTail Cores assure the position of the molded part during core collapse and part ejection. Email dme_mech_eng@milacron.com for more information.







Molded



Collapsible

