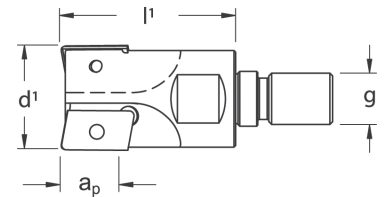


# Modular Milling System

## Screw-On Milling Cutters

Modular tool design offering many combinations:

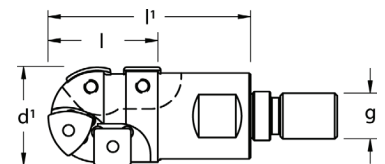
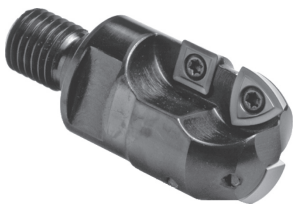
- Cylindrical Shank holders
- Complete range of extensions & reducers
- Milling cutters with M6, M8, & M10 thread-on shanks
- Strong connection between the adaptor and the screw-on mill by means of a cylindrical fit, face contact and a thread-on screw
- Common holder for different applications, thereby reducing inventories



### TX90 Screw-On Milling Cutters

Designation	d <sup>1</sup>	d <sup>1</sup> mm	g	l <sup>1</sup>	Max. ap	flutes	Insert	Insert Screw	Wrench
TXD90-0500-TS	.500	12.70	M6	1.10	.33	1	222.79.600 222.79.610	214.80.687	214.80.866 (S/D) 214.80.011 (F/T)
TXD90-0625-TS	.625	15.87	M8	1.10	.33	2			
TXD90-0750-TS	.750	19.05	M10	1.18	.33	2			
TXD90-0984-TS	.984	25.00	M12	1.18	.33	3			
TXD90-1000-TS	1.000	25.40	M12	1.50	.33	3			
TXD90-1260-TS	1.260	32.00	M16	1.57	.33	5			
TXP90-0975-TS	.975	24.77	M12	1.50	.55	2	222.79.400 222.79.500 222.79.510 222.79.550 222.79.564 222.79.572 222.79.574	214.80.388	214.80.824 (S/D) 214.80.012 (F/T)
TXP90-0984-TS	.984	25.00	M12	1.18	.55	2			
TXP90-1000-TS	1.000	25.40	M12	1.50	.55	2			
TXP90-1250-TS	1.250	31.75	M16	1.75	.55	3			
TXP90-1260-TS	1.260	32.00	M16	1.57	.55	3			
TXP90-1378-TS	1.378	35.00	M16	1.57	.55	3			
TXP90-1500-TS	1.500	38.10	M16	1.75	.55	3			
TXP90-1575-TS	1.575	40.00	M16	1.57	.55	4			

Remember to use COPASLIP® anti-seize compound on all insert screws



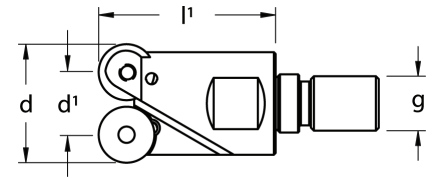
### TBNR Screw-On Milling Cutters

Designation	d <sup>1</sup>	g	l <sup>1</sup>	l	flutes	Insert		Insert Screw	Screw Driver Type Wrench
						Radius (QTY.)	Square (QTY.)		
TBNR-0625-TS	.625	M8	1.50	.71	1	222.67.102 (2)	SPNX-21.51 (2)	214.80.061(Rad.) 214.80.687(Sq.)	214.80.059 214.80.866
TBNR-0750-TS	.750	M10	1.50	.75	1	222.67.104 (2)	SPNX-21.51 (2)	214.80.687	214.80.866
TBNR-1000-TS	1.000	M12	2.00	1.10	1	222.67.106 (2)	SDNT-322 (2)	214.80.951	214.80.824
TBNR-1250-TS	1.250	M16	1.75	1.22	1	222.67.108 (2)	SDNT-322 (2)	214.80.388	214.80.824

Remember to use COPASLIP® anti-seize compound on all insert screws

# Modular Milling System

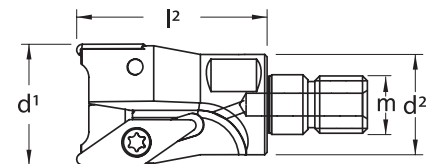
## Screw-On Milling Cutters



### TR360 Screw-On Mills using 15° Positive Inserts for Copying & Face Milling

Designation	d	d mm	d'	g	l'	flutes	Insert	Insert Screw	Wrench
TR360-0500-TS	.500	12.70	.185	M6	1.10	1	(8mm insert size) RDM_-0802MOT	214.80.013	214.80.866 (S/D) 214.80.011 (F/T)
TR360-0500L-TS	.500	12.70	.185	M8	2.00	1			
TR360-0625-TS	.625	15.87	.310	M8	1.10	2			
TR360-0750-TS	.750	19.05	.435	M10	1.18	2			
TR360-1000R08-TS	1.000	25.40	.685	M12	1.50	3			
TR360-1250R08-TS	1.250	31.75	.935	M16	1.75	5	(10mm insert size) RDM_-1003MOT	214.80.951	214.80.824 (S/D) 214.80.012 (F/T)
TR360-0984-TS	.984	25.00	.591	M12	1.18	2			
TR360-1000R10-TS	1.000	25.40	.606	M12	1.50	3			
TR360-1181-TS	1.181	30.00	.787	M16	1.57	3			
TR360-1250R10-TS	1.250	31.75	.856	M16	1.75	4			
TR360-0945-TS	.945	24.00	.472	M12	1.18	2	(12mm insert size) RDM_-1204MOT-X	214.80.388	214.80.824 (S/D) 214.80.012 (F/T)
TR360-1000-TS	1.000	25.40	.528	M12	1.50	2			
TR360-1250-TS	1.250	31.75	.778	M16	1.75	2			
TR360-1378-TS	1.378	35.00	.906	M16	1.57	3			
TR360-1500-TS	1.500	38.10	1.028	M16	1.75	3			
TR360-1575-TS	1.575	40.00	1.102	M16	1.57	4			
TR360-1260-TS	1.260	32.00	.630	M16	1.57	2	(16mm insert size) RDM_-1605MOT-X	214.80.072	214.80.994 (S/D) 214.80.076 (F/T)

Remember to use COPASLIP® anti-seize compound on all insert screws



### TV90 Screw-On Mills Optimized Design for Aluminum

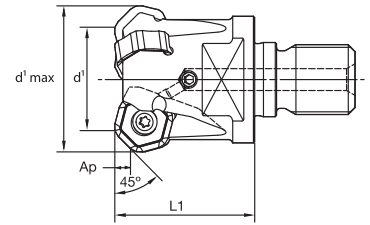
Designation	d'	d <sup>2</sup>	l <sup>2</sup>	m	Max. ap	Max Plunge	flutes	Insert	Insert Screw	Wrench
<b>Standard Non-Through Coolant</b>								VPGT-221-ALM	LF-89972	214.80.866 (S/D) 214.80.011 (F/T)
TVP90-0750-TS	.750	.709	1.18	M10	.40	.200	2			
<b>Through Coolant Enabled</b>										
TVP90-1000XC-TS	1.000	.827	1.57	M12	.40	.200	3	VPGT-333-ALM VPGT-33 PPR-ALM*	LF-57106	214.80.824 (S/D) 214.80.012 (F/T)
TVP90-1000C-TS	1.000	.827	1.57	M12	.53	.250	2			
TVP90-1250C-TS	1.250	1.142	1.97	M16	.53	.250	2			
TVP90-1500C-TS	1.500	1.142	1.97	M16	.53	.250	3			

\* To provide necessary clearance when using VPGT-33PPFR-ALM inserts, the cutting body must be relieved

Remember to use COPASLIP® anti-seize compound on all insert screws

# Modular Milling System

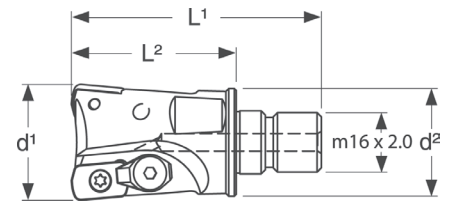
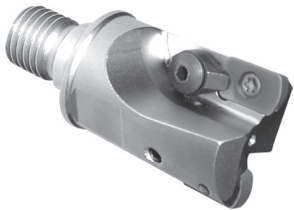
## Screw-On Milling Cutters



### Mini Screw-On Milling Cutters using 1/2" I.C. Inserts

Designation	Dia D <sup>1</sup>	D <sup>1</sup> Max	L <sup>1</sup>	Ap	Thread	Flutes	Insert	Insert Screw	Wrench
M1200MINI-1.00HN2TS	1.00	1.34	1.25	.138	M16	2	HNGJ-0704_ HNPJ-0704_ XNGJ-0704_	214.60.345	214.80.824 (S/D) 214.80.012 (F/T)
M1200MINI-1.00HN3TS	1.00	1.34	1.25	.138	M16	3			
M1200MINI-1.25HN3TS	1.25	1.59	1.50	.138	M16	3			
M1200MINI-1.25HN4TS	1.25	1.59	1.50	.138	M16	4			
M1200MINI-1.50HN4TS	1.50	1.84	1.50	.138	M16	4			
M1200MINI-1.50HN5TS	1.50	1.84	1.50	.138	M16	5			

Remember to use COPASLIP® anti-seize compound on all insert screws



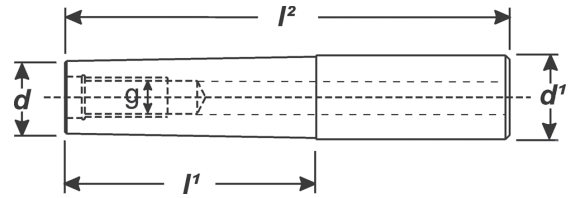
### Screw-On Milling Cutters

Designation	d <sup>1</sup>	d <sup>2</sup>	L <sup>1</sup>	L <sup>2</sup>	flutes	Insert	Clamp	Clamp Screw	Torx Screw	Torx Wrench
TXD95HF-1250-TS	1.250	1.142	2.65	1.75	2	XDGW-1604HO XDGW-1604H20 XDGW-1604TH05 XDGW-1604TH20	214.85.892	214.85.898	214.80.388	214.80.824
TXD95HF-1500-TS	1.500	1.142	3.03	2.12	3					

Remember to use COPASLIP® anti-seize compound on all insert screws

# Modular Milling System

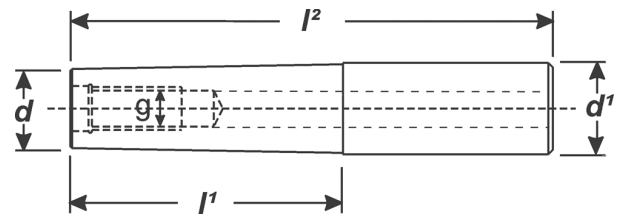
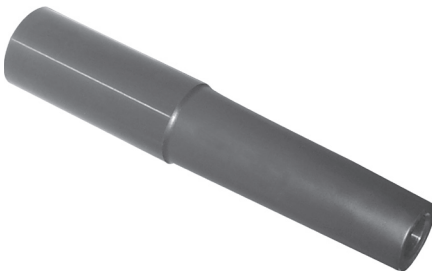
## Straight Shanks



### Weldon Straight Shanks

Designation	g	d	d¹	l¹	l²
SS050-M6-2	M6	.382	.500	2.00	3.78
SS050-M6-3	M6	.382	.500	3.00	4.78
SS063-M8-2	M8	.512	.625	2.00	3.90
SS063-M8-3	M8	.512	.625	3.00	4.90
SS063-M8-4	M8	.512	.625	4.00	5.90
SS075-M10-3	M10	.709	.750	3.00	5.03
SS075-M10-5	M10	.709	.750	5.00	7.03
SS100-M12-3*	M12	.827	1.000	3.00	5.28
SS125-M12-5*	M12	.827	1.250	5.00	7.28
SS125-M16-3*	M16	1.142	1.250	3.00	5.28
SS125-M16-5*	M16	1.142	1.250	5.00	7.28
SS125-M16-7*	M16	1.142	1.250	7.00	9.28

\* With internal coolant supply



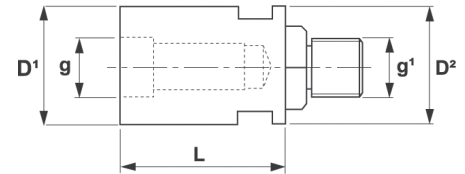
### Cylindrical Straight Shanks

Designation	g	d	d¹	l¹	l²
SS050CY-M6-2	M6	.382	.500	2.00	3.78
SS050CY-M6-3	M6	.382	.500	3.00	4.78
SS063CY-M8-2	M8	.512	.625	2.00	3.90
SS063CY-M8-3	M8	.512	.625	3.00	4.90
SS063CY-M8-4	M8	.512	.625	4.00	5.90
SS075CY-M10-3	M10	.709	.750	3.00	5.03
SS075CY-M10-5	M10	.709	.750	5.00	7.03
SS100CY-M12-3*	M12	.827	1.000	3.00	5.28
SS125CY-M12-5*	M12	.827	1.250	5.00	7.28
SS125CY-M16-3*	M16	1.142	1.250	3.00	5.28
SS125CY-M16-5*	M16	1.142	1.250	5.00	7.28
SS125CY-M16-7*	M16	1.142	1.250	7.00	9.28

\* With internal coolant supply

# Modular Milling System

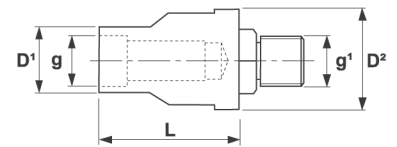
## Extensions / Reducers



### Extensions

Designation	g	g <sup>1</sup>	D <sup>1</sup>	D <sup>2</sup>	L
EX-M6	M6	M6	.382	.382	.98
EX-M8	M8	M8	.512	.512	1.18
EX-M10	M10	M10	.709	.709	1.37
EX-M12*	M12	M12	.827	.827	1.57
EX-M16*	M16	M16	1.142	1.142	1.57

\* With internal coolant supply



### Reducers

Designation	g	g <sup>1</sup>	D <sup>1</sup>	D <sup>2</sup>	L
RD-M8/M6	M6	M8	.382	.512	.98
RD-M10/M8	M8	M10	.512	.709	1.18
RD-M12/M10	M10	M12	.709	.827	1.38
RD-M16/M12*	M12	M16	.827	1.142	1.57

\* With internal coolant supply