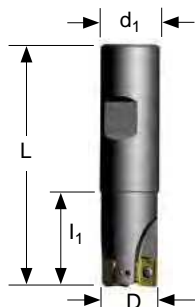
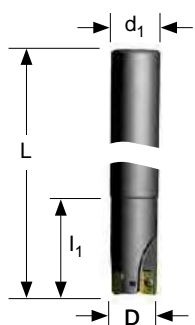




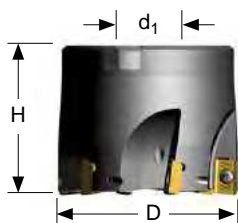
End Mills & Face Mills



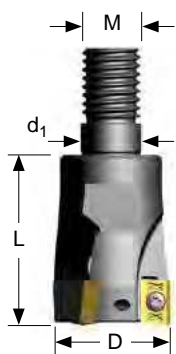
Weldon Shank



Cylindrical Shank



Shell Mill Fixation



Modular Head



Depth of Cut (ap)

Product		Dimensions (mm)						Spares				
EDP	Item Description	D	L/H	l ₁	d ₁	a _p max	No. of Teeth	EDP		EDP		Screw Tightening Nm
7690VA09 Weldon Shank												
021693	7690VA09WA010R	10	68	20	16	8,50	1	015267	F2505TP	018488	T7	0,80
021694	7690VA09WA012R	12	70	22	16	8,50	1	015267	F2505TP	018488	T7	0,80
021695	7690VA09WA014R	14	73	25	16	8,50	1	015267	F2505TP	018488	T7	0,80
021696	7690VA09WA016R	16	75	27	16	8,50	2	015267	F2505TP	018488	T7	0,80
021697	7690VA09WA018R	18	80	30	20	8,50	2	015267	F2505TP	018488	T7	0,80
021698	7690VA09WA020R	20	82	32	20	8,50	3	015267	F2505TP	018488	T7	0,80
021699	7690VA09WA025R	25	96	40	25	8,50	4	015268	F2506TP	018488	T7	0,80
023055	7690VA09WA032R	32	96	40	25	8,50	5	015268	F2506TP	018488	T7	0,80
7690VA09 Cylindrical Shank - Medium and Fine Pitch												
031084	7690VA09CA016Z2R30	16	150	30	16	8,50	2	015267	F2505TP	018488	T7	0,80
031107	7690VA09CA020Z2R40	20	180	40	20	8,50	2	015267	F2505TP	018488	T7	0,80
031108	7690VA09CA020Z3R40	20	180	40	20	8,50	3	015267	F2505TP	018488	T7	0,80
031109	7690VA09CA025Z3R50	25	200	50	25	8,50	3	015268	F2506TP	018488	T7	0,80
7690VA09 Shell Mill Fixation												
021690	7690VA09-A032R	32	28	-	13	8,50	5	015268	F2506TP	018488	T7	0,80
017986	7690VA09-A040R	40	32	-	16	8,50	6	015268	F2506TP	018488	T7	0,80
021691	7690VA09-A050R	50	40	-	22	8,50	7	015268	F2506TP	018488	T7	0,80
021692	7690VA09-A063R	63	40	-	22	8,50	8	015268	F2506TP	018488	T7	0,80

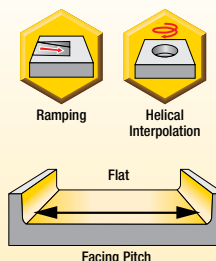
Product		Dimensions (mm)						Spares				
EDP	Item Description	D	L/H	M	d ₁	a _p max	No. of Teeth	EDP		EDP		Screw Tightening Nm
7690VA09 Modular Head - Medium and Fine Pitch												
031114	7690VA09SA016Z2R25	16	25	M8	8,50	8,50	2	015267	F2505TP	018488	T7	0,80
031115	7690VA09SA020Z3R35	20	35	M10	10,50	8,50	3	015267	F2505TP	018488	T7	0,80
031116	7690VA09SA025Z3R35	25	35	M12	12,50	8,50	3	015268	F2506TP	018488	T7	0,80
031117	7690VA09SA025Z4R35	25	35	M12	12,50	8,50	4	015268	F2506TP	018488	T7	0,80
031118	7690VA09SA032Z5R35	32	35	M16	17,00	8,50	5	015268	F2506TP	018488	T7	0,80

Note: For cylindrical shank extensions in high density alloy with through coolant refer to page A76.

Note: To use radius larger than 1,20mm the cutter body needs to be modified for additional clearance by the end user.

7690VA09 Technical Information (mm)

Product		Dimensions						ap max Helical / Linear	Max RPM
EDP	Item Description	Facing Pitch	Ramping Angle °	Helical Hole min. - max.					
021693	7690VA09WA010R	10	9.60	9	18	1,00	8500		
021694	7690VA09WA012R	12	8.60	13	22	1,00	8300		
021695	7690VA09WA014R	14	6.60	17	26	1,00	7100		
021696	7690VA09WA016R	16	5.10	21	30	1,00	6350		
021697	7690VA09WA018R	18	4.10	25	34	1,00	5750		
021698	7690VA09WA020R	20	3.40	29	38	1,00	5300		
021699	7690VA09WA025R	25	2.40	39	48	1,00	4550		
023055	7690VA09WA032R	32	1.70	53	62	1,00	3850		
031084	7690VA09CA016Z2R30	16	5.10	21	30	1,00	6350		
031107	7690VA09CA020Z2R40	20	3.40	29	38	1,00	5300		
031108	7690VA09CA020Z3R40	20	3.40	29	38	1,00	5300		
031109	7690VA09CA025Z3R50	25	2.40	39	48	1,00	4550		
021690	7690VA09-A032R	32	1.70	53	62	1,00	3850		
017986	7690VA09-A040R	40	1.25	69	78	1,00	3400		
021691	7690VA09-A050R	50	1.00	89	98	1,00	2950		
021692	7690VA09-A063R	63	0.80	115	124	1,00	2600		
031114	7690VA09SA016Z2R25	16	5.10	21	30	1,00	6350		
031115	7690VA09SA020Z3R35	20	3.40	29	38	1,00	5300		
031116	7690VA09SA025Z3R35	25	2.40	39	48	1,00	4550		
031117	7690VA09SA025Z4R35	25	2.40	39	48	1,00	4550		
031118	7690VA09SA032Z5R35	32	1.70	53	62	1,00	3850		



Note: If using a insert with radius, then the facing pitch for all 7690VA series cutters is equal to the cutting diameter (D) minus 2 x chosen radius.