

Viel-Funktions-Werkzeug 90°, 8 Operationen

Outil-Multi-Fonctions 90°, 8-Operations

Multi-function-tool 90°, 8 operations

Ideales Werkzeug für den Einsatz auf BA-Zentren und NC-Maschinen

L'outil idéal p. les centres d'usage et les machines à commandes numériques:

Ideal tooling for the application on machining centres and NC-machines

Komb.Mehrfachbearbeit.: Reduktion der Rüstzeit, Reduktion der Bearbeitungszeit

Usinage multiples comb.: Diminution des temps de réglage, réduct. des temps de cycles.

Comb.multi machining: Reduction of set-up times, reduction of cycle times.

Verbesserte Leistung Sehr feine Schnittkanten, verbesserte Schmitteinwirkung und Oberflächen-Finish

Performances accrues: arrête de coupe très fine, pénétration et état de surface améliorés, carbures micro-grains monobloc: Meilleure résistance à l'usure et rigidité garanties, hélice 30°: évaluation des copeaux favorisée.

Improved performance Very fine cutting edges, improved cutting applications and surface finish. Micro-grain K15: High wear resistance and hardness garanted. Helice angle 30°: Chip flow improved.

Erleichterte Lagerhaltung: Kleinere Anzahl Werkzeugvarianten führt zur Reduktion des Lagers. **Beschichtung:** TiAlN zur Wahl

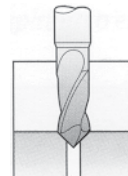
Stockage facilité: diminution du nombre d'outils utilisés, réduction du stock.

Facilitated stock-management. Reduced number of tool variants results to the reduction of stock. **Coating: TiAlN on request.**

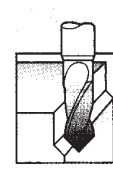
Kleine Ø mit verstärkt.Schaft T=Seelendurchmesser=0,1xd1 Toleranzen (alle Dim. in mm):

petits Ø = queues renforcées T = 0,1xd1 épaisseur d'âme Tolerances (tous dim. en mm): Toleranzen/tolérances

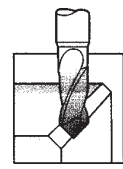
d1	α	l1	l2	d2
Ø 0,5-10 = h9	± 1°	± 1	+1	h6
Ø 12 - 20 = d9				4354VTOL



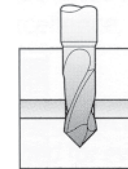
60 -90-120°
Senken
chanfreinage
champhering



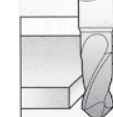
60 - 90 - 120°
Längs-Entgratsenken/chanfreins longitudinaux
longitudinal champhering



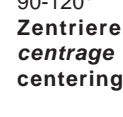
90-120°
Zentrieren
centrage
centering



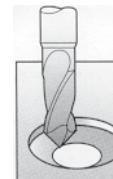
90 - 120°
Bohren
perçage
drilling



60 - 90 - 120°
Konturfräsen
contournage
contouring



90 - 120°
Bearbeitung mit Interpolation
usinage par interpolation
maching with interpolation

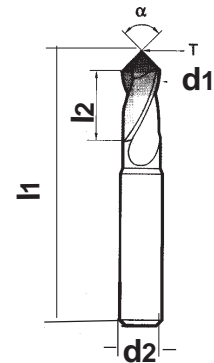


90 - 120°
"V"-Nutenfräsen
rainurage en "V"
"V" slotting

4.354V1029						90°
d1	d2	l2	l1	T	4354V10..	CHF
h9	h6					
0.5	3	1.0	39	0.05	46.30	
0.6	3	1.2	39	0.06	46.30	
0.7	3	1.4	39	0.07	46.30	
0.8	3	1.6	39	0.08	46.30	
0.9	3	1.8	39	0.09	46.30	
1.0	3	2.0	39	0.10	46.30	
1.2	3	2.4	39	0.12	46.30	
1.4	3	2.8	39	0.14	46.30	
1.5	3	3.0	39	0.15	46.30	
1.8	3	3.6	39	0.18	46.30	
2.0	3	4.0	39	0.20	46.30	

4.354V1029						90°
d1	d2	l2	l1	T	4354V10..	CHF
h9	h6					
2.5	3	5.0	39	0.25	46.30	
3.0	4	6.0	50	0.30	54.00	
4.0	5	8.0	50	0.40	64.60	
5.0	6	10.0	50	0.50	74.00	
6.0	8	12.0	60	0.60	91.00	
8.0	10	16.0	70	0.80	134.95	
10.0	12	18.0	70	1.00	135.00	
12.0	12	20.0	70	1.20	146.00	
16.0	16	26.0	80	1.60	159.00	
20.0	20	32.0	100	2.00	281.90	

90°
4354V10...
4354V12...(TiAlN)



4354V12...(TiAlN) auf Anfrage / sur demande / on request

60/120°

4354V60..

4354V120...

4354V60H..

4354V120H..

TiAlN



Winkel					60°		120°	
d1	d2	l2	l1	T	4354V60..	4354V60H..	4354V120..	4354V120H..
h9*	h6				CHF	TiAlN CHF	CHF	TiAlN CHF
1.0	3	2.0	39	0.10				
1.5	3	3.0	39	0.15				
2.0	3	4.0	39	0.20				
2.5	3	5.0	39	0.25	Preise auf Anfrage			
3.0	4	6.0	50	0.30	Prix sur demande			
4.0	5	8.0	50	0.40				
5.0	6	10.0	50	0.50				
6.0	8	12.0	60	0.60	Prices on request			
8.0	10	16.0	70	0.80				
10.0	12	18.0	70	1.00				
12.0	12	20.0	70	1.20				
16.0	16	26.0	80	1.60				
20.0	20	32.0	100	2.00				

* ab/dès Ø 12 mm d 9

4.354V60110