



CRUING
thinking beyond

Mach 3.2

Fast Nesting and Routing



Arrow Diamond Tooling LTD g01.co.uk

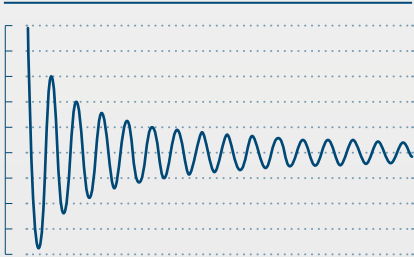
Fast Nesting and Routing

The **Mach 3.2** is a PCD router manufactured from a solid carbide rod, making it twice as stiff as a conventional tool made from steel and far denser, this allows the Mach 3.2 to run at operating speeds **up to 40m/min.** in Nesting and Routing operations

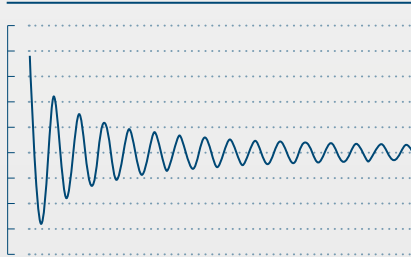


Avoiding **tool vibration** is an important factor as it causes "chatter-marks" on your component and ultimately **leads to tool breakage**. The use of **solid carbide** for the Mach 3.2 body provides the **best resistance to vibration**, compared to steel and heavy metals.

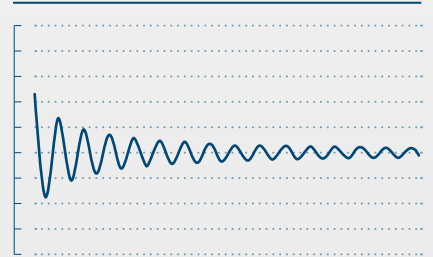
Steel



Heavy metal

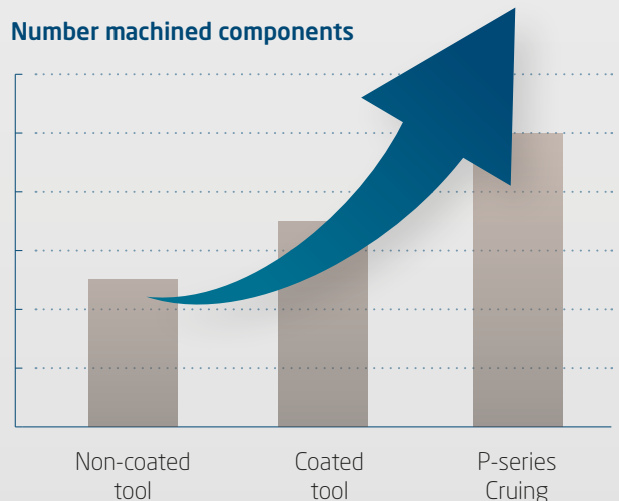


Solid carbide



Carefully calculated flute geometries are designed to **optimize chip-flow** and the sharp cutting angles of the Mach 3.2 provide a **high quality edge finish** which is preserved by a **protective coating known as P-Series**. In real production environments worldwide, the P-Series has proven to give **double the tool-life** of the same uncoated router from new.

Number machined components



Advantages

Greater strength and durability

- PCD router with a solid carbide body
- The solid carbide body eliminates tool vibration that can cause chatter-marks and lead to tool breakage
- Double tool-life from new compared to steel standard tool
- You can produce more, and faster

Fast feed speed

- Feed speeds up to 40 mt/min
- Increased productivity and reduced manufacturing costs

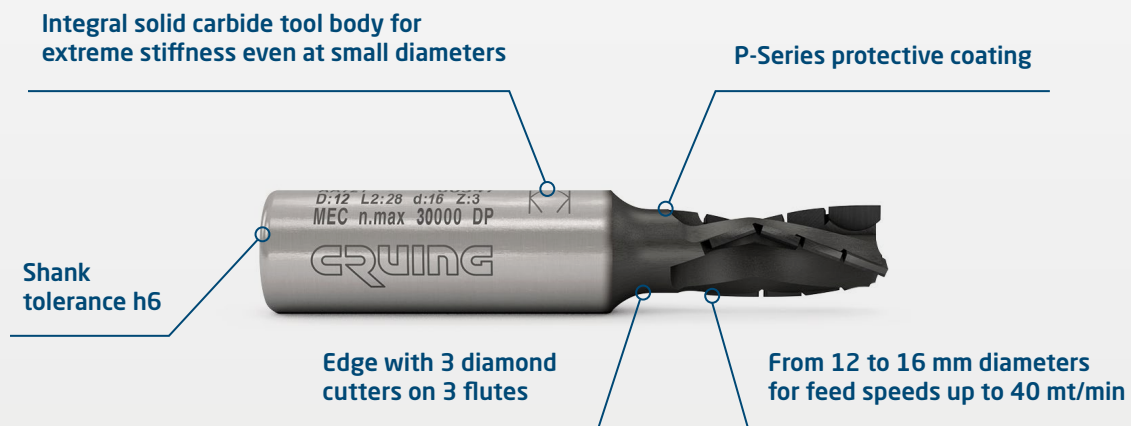
P-Series Quality



- Diamond cutters with P-Series special protective coating
- Excellent wear resistance and double tool-life compared to non-coated standard tools

High shear angle

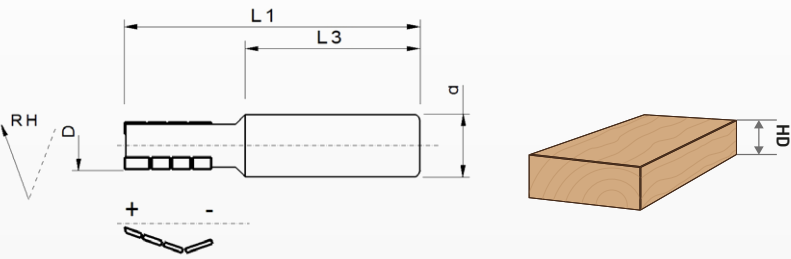
- Optimised cutting angles
- Reduced cutting pressure
- High quality edge finish
- Less metal fatigue and better tool-life



Comparative chart Mach 3.2

	Competitor A	Mach 3 Evo Cruing	Competitor B	Mach 3 Cruing	Competitor C	NEW Mach 3.2 Cruing
Tool rod	Steel	Steel	Heavy metal	Heavy metal	Solid carbide (W)	Solid carbide (W)
Diameter	16 - 25 mm	16 - 25 mm	12 - 16 mm	12 - 16 mm	12 mm	12 - 16 mm
Feed speed	Up to 20 mt.	Up to 20 mt.	Up to 20 mt.	Up to 20 mt.	Up to 20 mt.	Up to 40 mt.
Cutters	DP	DP	DP	DP	DP	DP
Coating	No	Yes	No	No	No	Yes
Performance	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★

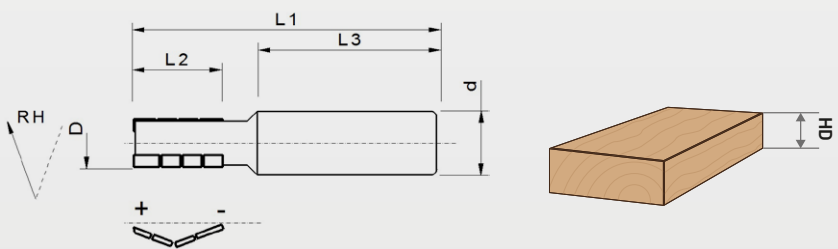
Technical features for Nesting operations



D	HD	d	L3	L1	Z	cod. (RH)
12	15/16	12	40	70	3	AEH501D
12	15/16	16	45	72	3	AEH502D
12	18/19/20	12	40	75	3	AEH503D
12	18/19/20	16	45	76	3	AEH504D
12	22	12	40	77	3	AEH505D
12	22	16	45	78	3	AEH506D
12	25	12	40	80	3	AEH507D
12	25	16	45	82	3	AEH508D
mm						



Technical features for Routing operations



D	L2	d	L3	L1	Z	HD	cod. (RH)
12	22	16	45	76	3	15-20	DP3F301D
12	22	25	55	86	3	15-20	DP3F302D
12	28	16	45	82	3	22-25	DP3F303D
12	28	25	55	92	3	22-25	DP3F304D
14	35	16	45	92	3	22-32	DP3F309D
14	35	25	55	102	3	22-32	DP3F30AD
16	45	16	45	100	3	32-40	DP3F30FD
16	45	25	55	110	3	32-40	DP3F30GD
mm							



Go dust free: use the Aerotech® Hydro

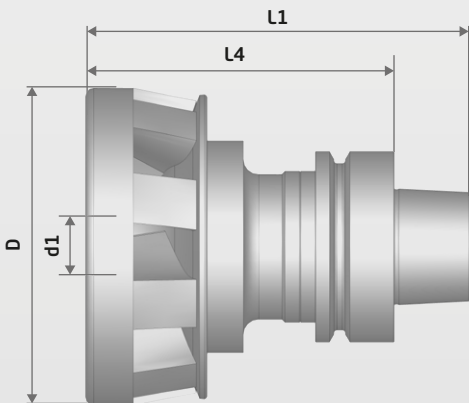
To optimise your Nesting and Routing operations use the Mach 3.2 with an Aerotech Hydro and **GO DUST FREE**. Cruing's Aerotech Hydro is a revolutionary tooling solution that **thoroughly evacuates dust** produced during Nesting and Routing operations.

It will **improve the air quality** within your factory, **save** on operator **time for cleaning**, reduce your energy costs and **lower machine maintenance** for dust related breakdowns.



Aerotech® Hydro 95

recommended for **Nesting** operations

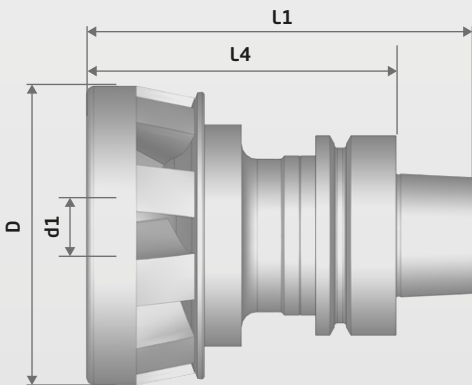


D	d	d1	L1	L4		Cod.
95	HSK63F	16	122,5	97,5	9 wings	AER-55A



Aerotech® Hydro 105

recommended for **Routing** operations



D	d	d1	L1	L4		Cod.
105	HSK63F	25	132	107	9 wings	AER-41A



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