

Extreme metal removal

- new profiling aluminium cutters feature high speed and high metal removal rate

Stellram is a globally integrated technological leader in the development of metal-cutting answers for turning, milling, threading, drilling and grooving applications.


Stellram's new 5702 family of cutters are designed for extreme metal removal and high speeds in aluminium.

The 5702 cutter is the only one on the market designed, manufactured and tested according to ISO Standards 15641 and stocked balanced at G = 2.5 at 30,000rpm. These cutters can run safely up to 45,000rpm.

Cutters are available standard with cylindrical shanks or HSK. Diameters range from 0.75" to 1.5" and 20 to 40mm. Inserts are available with radii from 0.079" to 0.236" (2 to 6mm).

In one application, Stellram's new Mini Aerostell cutters attained a metal removal rate of 5,000cc/minute at a speed of 2500m/min and 24,000rpm for a cut 230m long. Machining time was 15 minutes.

5702 cutters also offer the following advantages: They are ideal for high metal removal on

aluminum components; high positive geometry and precision-balanced cutter body produce excellent surface finish even on thin-walled components; for pocketing, slotting and edge milling; and, have up to 11-degree ramp angle. 

Datum 1800 232 120 or www.datum.net.au



Case Study 5702VZ

	Stellram Case Study	Stellram Case Study
Material:	Aluminium	Aluminium
Cutter:	5702VZP14CA025R73	5702VZD14CA020R73
Insert:	ZPCX140440R-701 GH1	ZDCX140340R-701 GH1
Speed:	1,880m/min	1,880m/min
Feed / Tooth:	0.18mm	0.098mm
RPM:	24,000	20,500
Feed Rate:	8,640mm/min	4,000mm/min
DOC:	6mm	6mm