

WriteStar



R20



RM20



RQ20



RS20



RM12



RP20



WriteStar - inscription tools

How they work

The WriteStar creates permanent markings using a combination of material compaction and displacement. The stylus we have specially developed creates an engraving effect similar to that derived from rolling. This is achieved by the use of an extremely hard ball. The tool works both with and without rotation, regardless of whether the surface to be machined is greased or not. Unlike many other methods of permanent marking, this method neither weakens nor otherwise damages the surface. If the tool is used correctly no burrs are created.

The patented construction enables a higher marking speed than other modern machine tools can achieve. The special construction and very high-quality mounting make it possible for this tool to mark both rough and smooth surfaces that have an unevenness of up to 5 mm, without height compensation, in an even and uniform, high-quality fashion.

In most cases it is possible to adapt the tool without the need for removal and with continuous variability to different materials, material hardness and marking depths.

Range of Application

The tools are suitable for the permanent marking of the most diverse materials up to a hardness of 60 HRC.

Plastics can be marked just as easily as graphite, titanium and steel.

WriteStars are ideally suited for use in CNC machines and can also be used in robot cells, as neither fluid supply nor rotational speed are necessary.

Lifetime

Even after 40 km of continuous marking on a steel surface with a hardness of 45 HRC, no wear was apparent on the WriteStar.

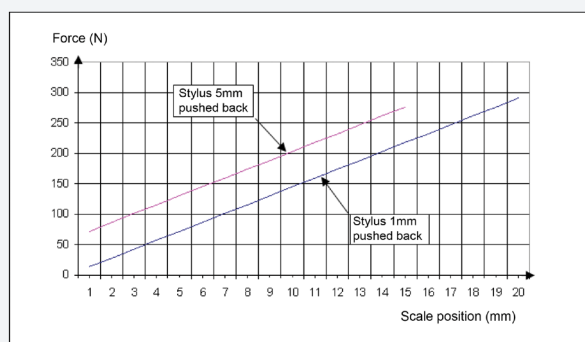
Practical applications indicate a normal operational lifetime for the special stylus of between 2 and 5 years without any need for regrinding.

In the R- and RS-tool series the styluses may be exchanged by NC-Automation or authorized distributors without any difficulty, so it may safely be assumed that the base tool will have an active lifetime of many years.

Technical data

Mass without tool-holder	< 1 kg
Marking speed	< 200 m/min
Rotation speed	0 – 500 1/min
Length compensation	3 – 8 mm

The following diagram shows the low level of load on the tool spindle, e.g. in an axial orientation in relation to the scale setting.



Ordersystem Automatic - Marking - Tools

Order-Example:

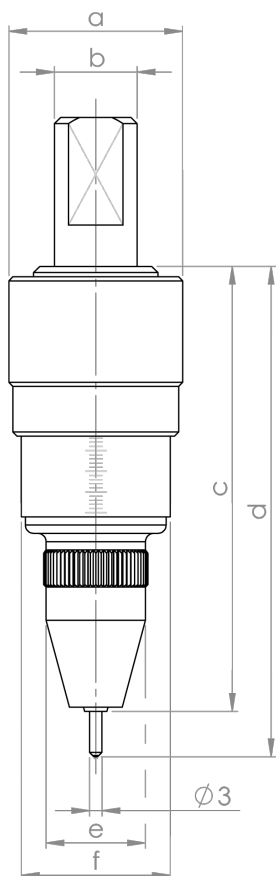
AMT-RM20-90R10

Detail	Description	Code	Example
Tool type	Marking tool	AMT	AMT
Series	Standard WriteStar with 20 mm parallel shank WriteStar for particularly strong marking Universal WriteStar for lathes and milling machines Miniature WriteStar for marking in boreholes and small machines Universal WriteStar with cross fixture Miniature WriteStar with cross fixture Universal WriteStar with special holder for marking down to the base coat	R20 RS20 RM20 RM12 RQ20 RQ12 RP20	R20
Marking stylus	Universal stylus for broad line width Universal stylus for medium line width Universal stylus for narrow line width Stylus for plastics and broad line width Stylus for plastics and medium line width Stylus for plastics and narrow line width Stylus for tough and hard materials e.g. stainless steel and broad line width Stylus for tough and hard materials e.g. stainless steel and medium line width Stylus for tough and hard materials e.g. stainless steel and narrow line width Special styluses available upon request	90R10 90R05 90R03 60R10 60R05 60R03 120R10 120R05 120R03	90R10

Optional: The following tool holding fixtures are available for AMT:

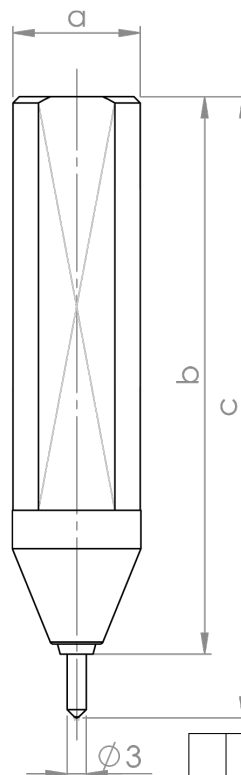
Tool fixtures	All fixtures for tool shanks with diameters of 12 mm and 20 mm All bit fixtures with clamp heights of 10 mm and 16 mm	SK30, SK40, SK50 BT30, BT40, BT50 HSK50, HSK63, HSK100 KM40 - KM80 Capto C5, C6 VDI 16 - VDI 50	SK40/63
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Standard-WriteStar R20 + RS20



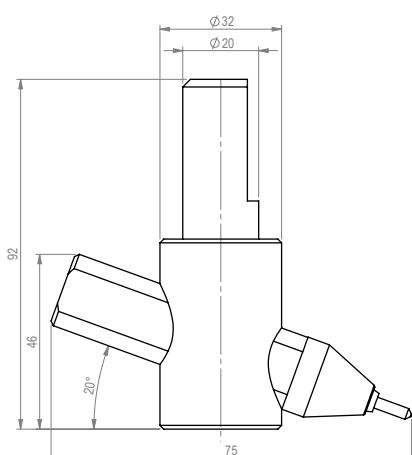
	R 20	RS 20
a	42	46
b	20	20
c	108	113
d	119	124
e	24	26
f	36	40

Universal-WriteStar RM20 Miniature-WriteStar RM12

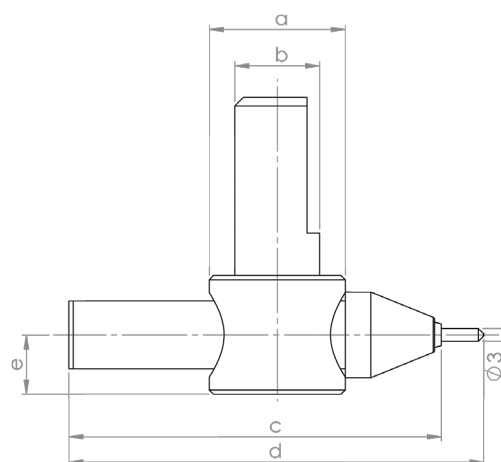


	RM 20	RM 12
a	20	12
b	88	66
c	98	71

Universal-WriteStar with special fixture for marking up to bottom RP20



Universal-WriteStar with cross fixture RQ20 Miniature-WriteStar with cross fixture RQ12



	RQ20	RQ12
a	32	28
b	20	20
c	88	66
d	98	88
e	14	10