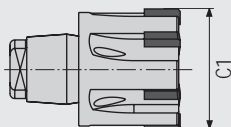


MAPAL HPR Replaceable Reamer Heads with configurable parameters

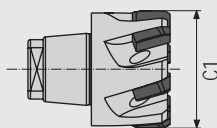
The standard versions of the HPR Replaceable Reamer Heads can be easily adapted individually with configurable parameters. These semi-standard items are based on a standardised design where one or more parameters can be configured. The coding for the different types which can be configured follow the coding for the normal version but is given an additional "C" (configurable).

1. Configurable parameters for Replaceable Heads HPR 100C, HPR 110C and HPR 150C

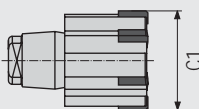
HPR 100C



HPR 110C



HPR 150C



- Blade diameter and grinding dimension can be configured (C1)

For HPR 100C, 110C and 150C versions the ground blade diameter and the grinding dimension for the Replaceable Reamer Head can be selected individually. This means the maximum dimension of the blade diameter is then determined. No adjustment supplement is charged for the configuration which deviates from the standard.

Order example for Replaceable Reamer Head HPR 110C

- diameter of bore: $\varnothing 20^{H7 (+21 \mu\text{m})}$
- for use in steel
- layout for medium tolerance

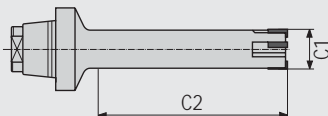
Order details:

HPR110C-20H7ME1GCT4

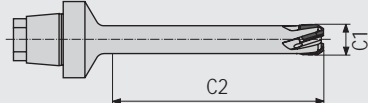
Maximum tool diameter: $\varnothing 20.011 \text{ mm}$

2. Configurable parameters for Replaceable Heads HPR 130C, HPR 131C and HPR 180C

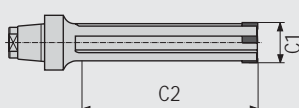
HPR 130C



HPR 131C



HPR 180C



- Blade diameter and grinding dimension can be configured (C1)
- Working length can be configured (C2)

For HPR 130C, HPR 131C and HPR 180C versions the ground blade diameter and the grinding dimension can be selected individually. This means that the maximum dimension of the blade diameter is then determined. No adjustment supplement is charged for the configuration which deviates from the standard.

In addition the working length can also be configured for these versions, with the exception of solid carbide designs W/W2. For Replaceable Heads for working lengths which are modified a supplement is charged depending on quantity.

Order example for Replaceable Reamer Head HPR 131C

- diameter of bore: $\varnothing 16^{H7}$
- for use in steel
- configured working length 50 mm (standard 45 mm)

Order details:

HPR131C-16H7ME1GCT4

Working length: 45 mm

MAPAL HFS Holders with configurable parameters

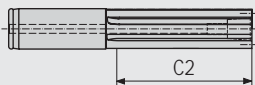
The standard versions of the HFS Holders can be easily adapted individually with configurable parameters. These semi-standard items are based on a standard holder design where the working length can be configured. The coding for the different types which can be configured follow the coding for the original design but is given an additional "C" (configurable).

Configurable parameters for HFS Holders

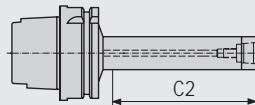
Cylindrical shank



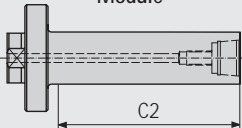
Cylindrical shank



HSK-A



Module



- Configurable working length (C2)

The working length (L₅ or L₃ for cylindrical shank holders) given in the individual tables can be configured for all the versions. A supplement is charged for these length modifications.

Order example for HFS Holder HFS 945RC-12 (HSK-A 63 holder with HFS 12)

- configured working length 85 mm (standard 75 mm)

Order details:

HFS945RC-12

Working length: 75 mm

Advantages:

- Simple, high precision adjustment of the tool diameter where there are difficult machining conditions caused by thin-walled components, difficult materials and the effects of component geometry or clamping.
- No special tools linked to drawings required for adjusting the working length for Replaceable Heads (only HPR 130, HPR 131 and HPR 180) or for HFS Holders.
- Because of the easy configuration using parameters, a tool system is supplied on request which is best suited to the machining task and consists of HPR Replaceable Reamer Head and HFS Holder.