



HELICAL GEAR

We **turn** complexity
into simplicity



PRODUCTIVITY SIMPLICITY INNOVATION

SACMI brand-new Helical Gear system: an innovative solution designed on customers' needs with incredible performances and features.

With the possibility to realise pressed parts with **helix angle up to 45° and a tooth density up to 7.5 g/cm³**, this system allows the compaction of complicated parts with the maximum **simplicity**.

In fact, thanks to the revolutionary design, **with a single system it is possible to compact all the possible helical gears**, no more tool-to-tool systems!

Programming a new helical part can be done **easily** from the control panel of the machine thanks to the software integrated in the press; moreover, **the tool set-up of helical parts is as simple as for standard parts**. In fact, it is limited to the replacement of active tool parts, in contrast to different systems which require time-consuming and complicated activities.

A strong point is the **flexibility**: in fact, our system allows for **inner and outer helical profiles** using a combination of rotating movements of upper axes, lower axes and die plate. Also concerning the shape, we have the possibility to keep all levels of the press also with rotating axes.

Compaction can occur both with **cold and warm die**, thanks to the possibility to heat it up or cool it down according to the final part to produce.

MPH presses with HG system keep their very high production rate as well as the finest tolerances and extreme precision, without any reduction of maximum pressing force.

Helical gear **tools have now a much longer life** than the actual one, thanks to **reduced friction** generated with the new HG system, comparable to cylindrical tools.

In order to facilitate the switch from cylindrical to Helical components, the presses can be equipped with a **semi-automatic system to exchange two adaptors** in order to produce cylindrical and helical parts with a single machine!

Developed on the MPH202, the system will be extended to the complete range of SACMI MPH presses, starting from the low tonnages to the higher ones.

You are warmly invited to visit our premises
and see our system live on the MPH202: you can also have
the possibility of producing your own parts!
We are looking forward to see you!

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