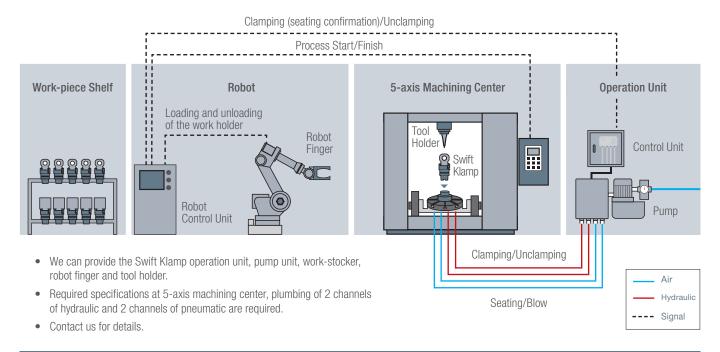
Overview of Automation

The System Development with the Systems Integrator



Hydraulic Automatic Clamping Head (Automatic Exchange)

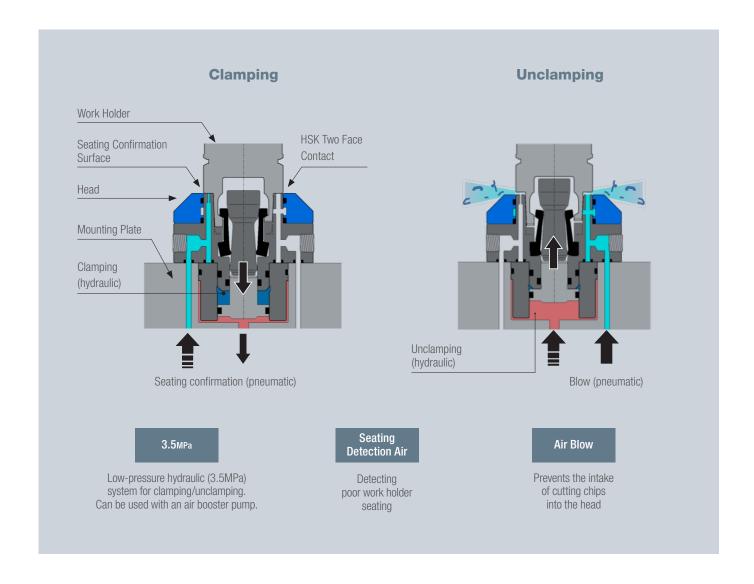


Part No.	HSK Type	L	ØD	ØD ₁	ØS _(g6)	L,	G	PCD ₁	PCD ₂	Clamping Force kN	Max Loading Weight	Kg
AHK-A40-64	HSK-A40	64	40	70	45	35	M5x20	55	35	6	50	1.1
AHK-A63-89	HSK-A63	89	63	100	65	50	M6x30	80	55	24	140	3.1
AHK-A100-139	HSK-A100	139	100	140	100	80	M8x45	120	88	55	640	9.7

Note Hydraulic capacity: 3.5MPa

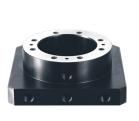


Hydraulic Automatic Clamping Head Specifications



Mounting Plate

A mounting plate is required for the hydraulic clamping-type auto-head. The mounting plate is the adapter for installation on the machine table and for connecting the hydraulic and pneumatic lines.

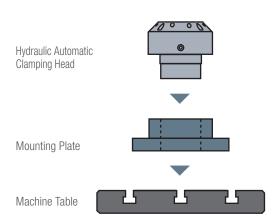




Note

Please provide us with a detailed drawing of your machine table and the plumbing drawing of your hydraulic and pneumatic lines. We can design and produce an exclusive mounting plate, so please contact us for more information.

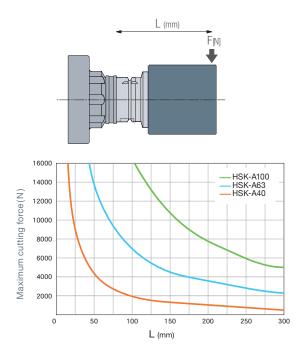
Seating confirmation

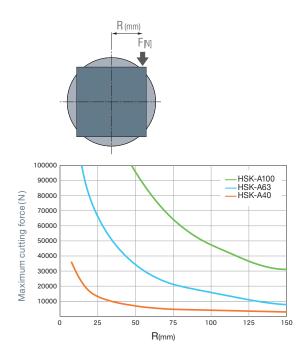


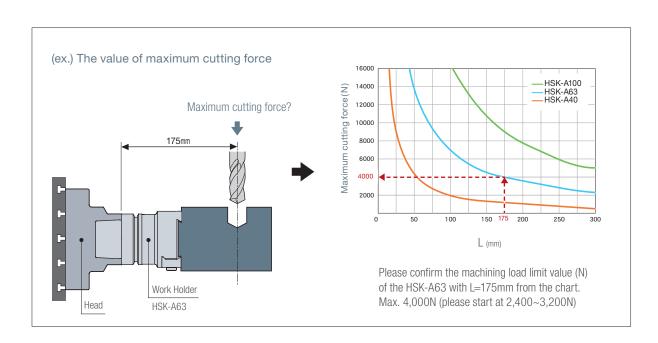
Technical Data

Maximum Cutting Force

Using the charts below, please confirm the machining load limits for your work-piece size (length L and dia R.). When you start machining using the Smart Grip, reduce the machining load 60~80% based upon the chart. Please choose the optimum work holder for your machining conditions.







This work-piece clamping system maximizes the performance of your 5-axis machining center

The HSK interface (between the head and the work-holder) and the dovetail clamping (between the work-holder and the work-piece) create a compact design with less interference and high rigidity for metalworking applications

- The rigid system developed for metalworking applications.
- No interference and superior accessibility.
- Handling the work-piece is easy using a general-purpose robot.

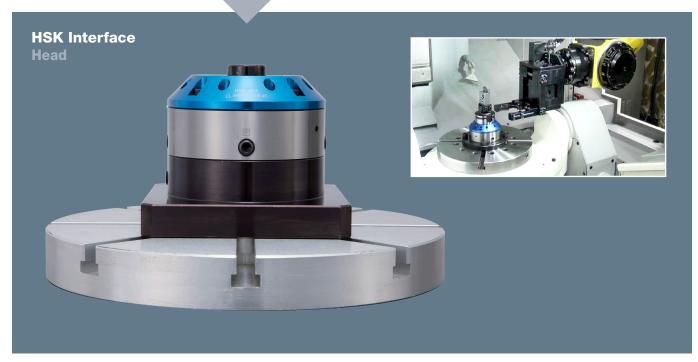
2-Face Clamping Work-Piece



Dovetail Clamping Work-Holder







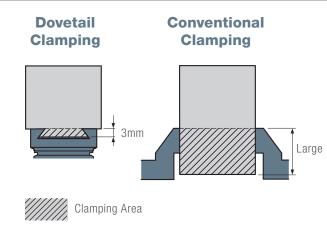


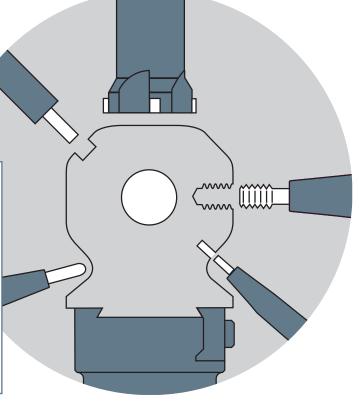
Dovetail Clamping System

Strong Clamping with Small Clamping Area

 By minimizing the clamping surface of the work-piece, optimum tool holder accessibility is possible.

 It allows stable and heavy machining from various directions without the work-piece rising.



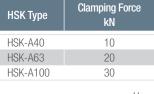


HSK Interface

Strong Clamping

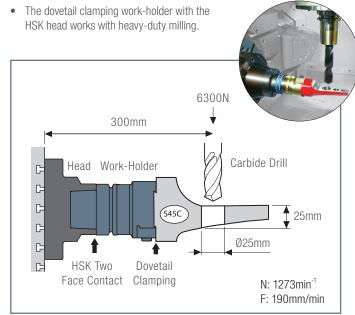
 Uses the HSK-A type, time-proven tool holder shank to connect the head and the work-piece holder.





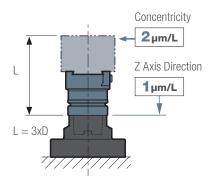


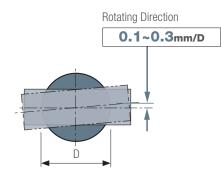
Superior Bending Rigidity





High Positioning Accuracy



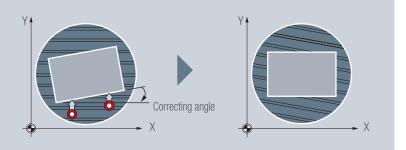


	D
HSK-A40	40
HSK-A63	63
HSK-A100	100

Offsetting the work-piece position in the rotating direction using a touch probe

 Measuring two locations along the work-piece side face using a touch probe enables you to offset the machine table angle easily.

BLUM high accuracy touch probe



Quick Work-piece Changing (Manual Clamping Head)

Off-line setup in advance allows quick work-piece changing, minimizing machine downtime.







For Automation (Hydraulic Automatic Clamping Head)

The hydraulic clamping design allows for automated work-piece changing, and makes it possible for you to combine your machining centers with robots to create a fully-automated system.

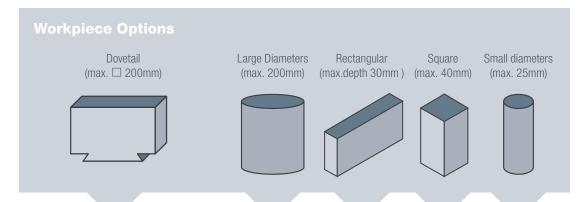
Hydraulic Automatic Clamping Head





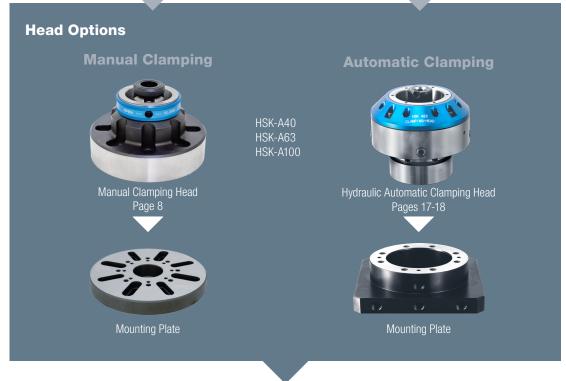
Work-piece Clamping & Mounting Options

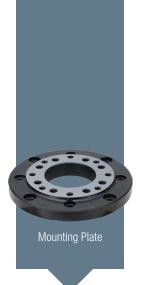
The Swift Klamp System:











Machine Table

