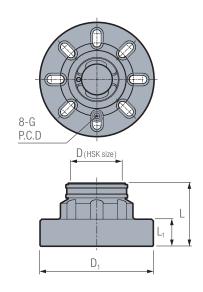
### **Manual Clamping Head (Manual Exchange)**







Part No.	HSK Type	L	ØD	ØD <sub>1</sub>	L,	G	PCD	Clamping Force kN	Kg
MHK-A40-50	HSK-A40	50	40	100	25	M6x30	55~85	10	1.7
MHK-A63-70	HSK-A63	70	63	125	30	M8x35	80~100	20	3.8
MHK-A100-110	HSK-A100	110	100	200	50	M12x50	125~160	30	14

#### **Option**

Mounting plate

#### **Standard Accessories**

- T-handle wrench
- Mounting bolt×4pcs.

#### Note

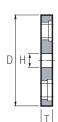
- The manual clamping hole on the work holder is required for mounting.
- When you can't install it directly on the machine table, please use the mounting plate
- Contact us about the custom-mad e mounting plate for your machine table.

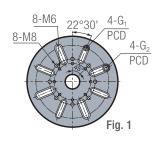
#### **Mounting Plate**

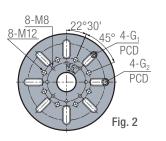
In the case where you can't mount the head directly to your machine table, please use this mounting plate. We can supply a blank that is customisable and also manufacture a special mounting plate just for you. For more information, please feel free to contact us.

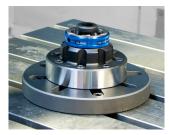


MD200-K63







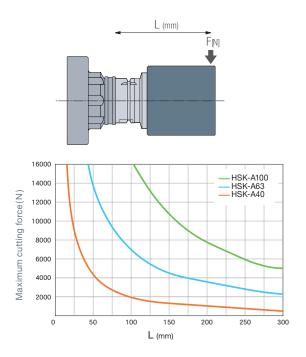


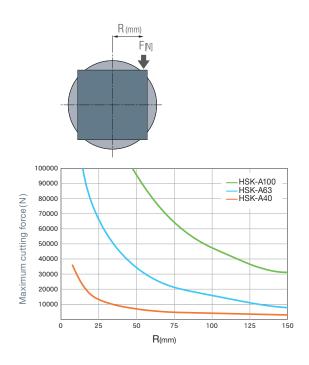
Part No.	HSK Type	Fig.	Т	ØD	ØН	G <sub>1</sub>	$G_{_{\!2}}$	PCD	Kg
MD160-K40	HSK-A40	1	20	160	32	M5x20	M6x20	80~125	2.6
MD200-K40		1	25	200	32	M8x25	M10x25	100~160	5
MD160-K63	HSK-A63	1	20	160	50	M5x20	M6x20	80~125	2.4
MD200-K63		1	25	200	50	M8x25	M10x25	100~160	4.7
MD250-K63		2	30	250	50	M10x30	M12x30	140~200	9.4
MD250-K100	HSK-A100	2	30	250	80	M10x30	M12x30	140~200	8.7

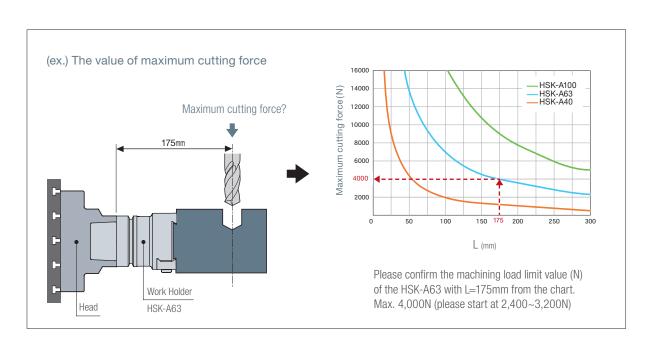
#### **Technical Data**

#### **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.

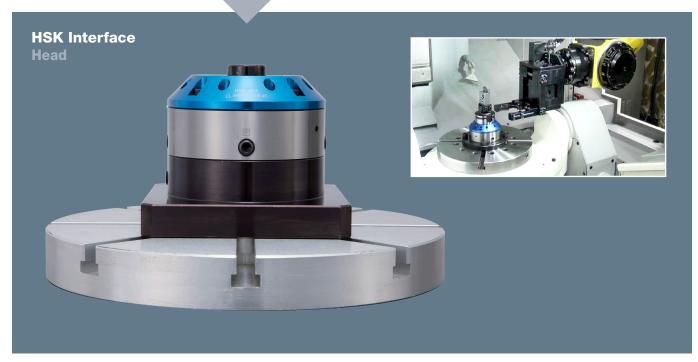
# 2-Face Clamping Work-Piece



# **Dovetail Clamping Work-Holder**







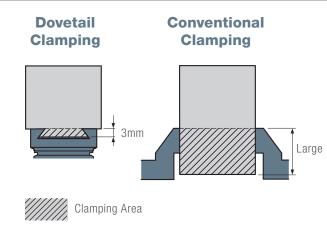


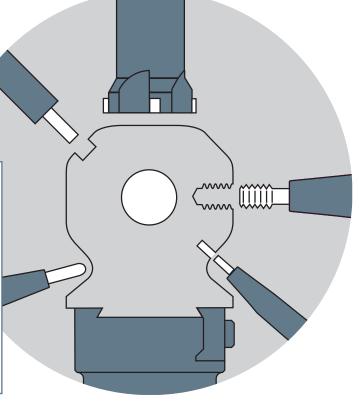
#### **Dovetail Clamping System**

#### **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.



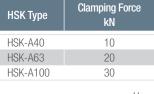


#### **HSK Interface**

#### **Strong Clamping**

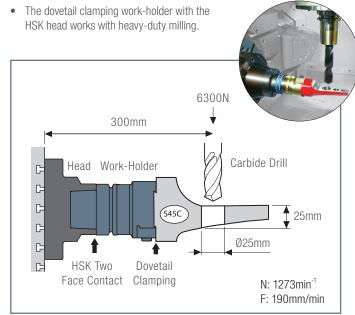
 Uses the HSK-A type, time-proven tool holder shank to connect the head and the work-piece holder.





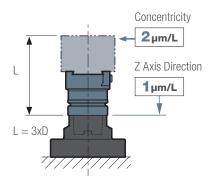


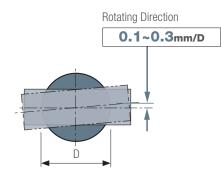
# **Superior Bending Rigidity**





### **High Positioning Accuracy**



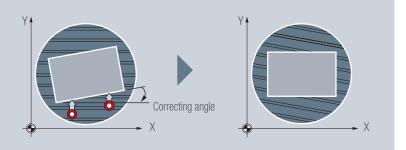


	D
HSK-A40	40
HSK-A63	63
HSK-A100	100

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.

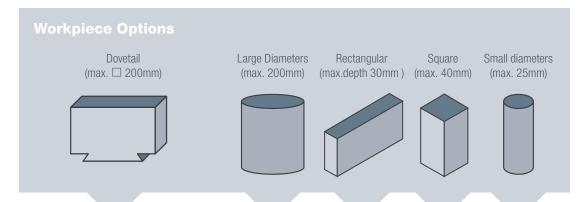
Hydraulic Automatic Clamping Head





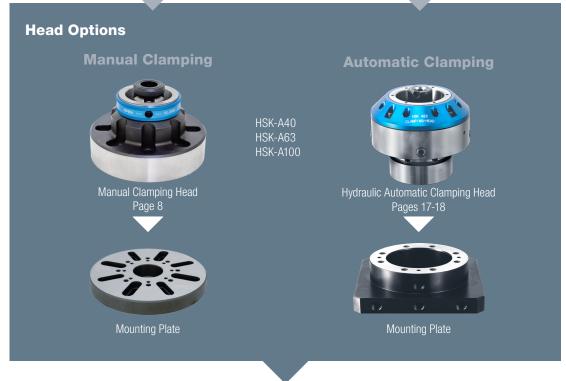
## **Work-piece Clamping & Mounting Options**

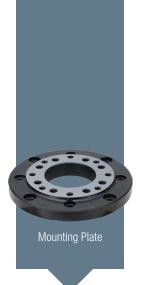
### The Swift Klamp System:











**Machine Table** 

