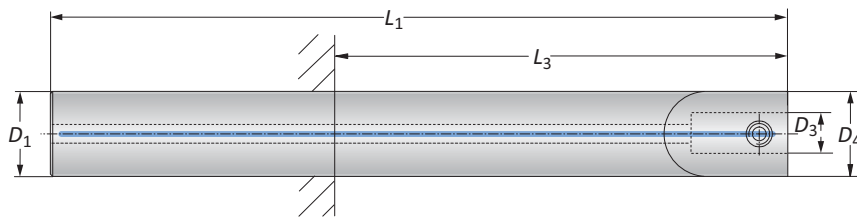


Carbide Master Shanks

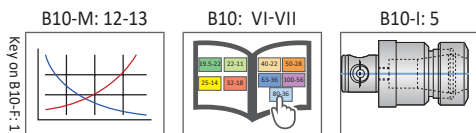


Connection	Shank			L_3 min				Weight	Part No.	
	D_4 D_3	L_1	D_1	L_3 max	SK 40	SK 50	HSK-A 63			HSK-A 100
Ⓜ	18 - 11	155.00	18.00	107.00	39.00	26.00	60.00	67.00	0.50 (kg)	299009*
	22 - 11	140.00	22.00	92.00	28.00	28.00	45.00	52.00	0.70 (kg)	299001*
	22 - 11	190.00	22.00	142.00	74.00	56.00	95.00	102.00	0.90 (kg)	299002*
	22 - 11	231.00	22.00	183.00	115.00	97.00	136.00	143.00	1.10 (kg)	299003*
	25 - 14	165.00	25.00	117.00	49.00	36.00	70.00	77.00	1.00 (kg)	299004*
	25 - 14	215.00	25.00	167.00	99.00	81.00	120.00	127.00	1.30 (kg)	299005*
	32 - 18	210.00	32.00	-	136.00	136.00	139.00	137.00	2.10 (kg)	299006**
	32 - 18	260.00	32.00	-	186.00	186.00	189.00	187.00	2.60 (kg)	299007**
40 - 22	415.00	40.00	-	-	333.00	-	333.00	5.20 (kg)	299008**	

NOTE: Adapter shanks are used for extensions up to 10xD

*Recommended clamping element: collet chuck ISO 15488 (DIN 6499-B) (pg. B10-I: 5)

**Recommended clamping element: collet chuck ISO 10897 (DIN 6388) (pg. B10-I: 5)



Ⓜ = Metric (mm)

⚠ WARNING Exceeding weight capacity for machine tool spindle and tool changer can cause machine damage and/or serious injury. To prevent:

- Consult machine tool builder for machine's weight limitations.
- Refer to example on page B10-M: 11 for calculating tool assembly weight
- Factory technical assistance is also available for specific applications through our Application Engineering department. *email: engineering.eu@alliedmachine.com*

⚠ WARNING Tool failure can cause serious injury. To prevent:

- Do not exceed recommended 10xD length-to-diameter ratio or exceed 4 total components (including shank)
- When using Alu-Line® components, do not exceed recommended 5xD length-to-diameter ratio
- When using tool steel components, do not exceed recommended 6xD length-to-diameter ratio
- When using heavy metal reducers, do not exceed recommended 8xD length-to-diameter ratio
- When using a carbide shank, do not exceed recommended 9xD length-to-diameter ratio
- When using a NOVI^{TECH}® module, do not exceed recommended 10xD length-to-diameter ratio
- Refer to examples on pages B10-M: 8-10 for calculating length-to-diameter ratio
- Factory technical assistance is available for your specific applications through our Application Engineering department. *email: engineering.eu@alliedmachine.com*