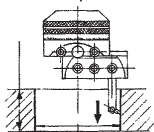
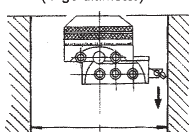


Universal Facing And Boring Head Sets

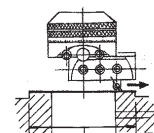
1. Bores (small diameter)



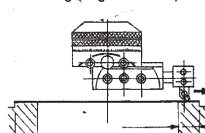
2. Bores (large diameter)



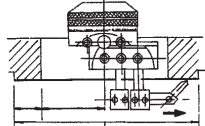
3. Surfacing (low diameter)



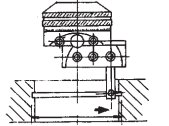
4. Surfacing (large diameter)



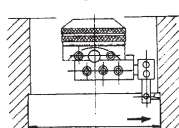
5. Surfacing (rear)



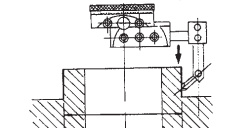
6. Slotting



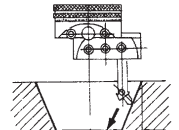
7. Recesses in large bores



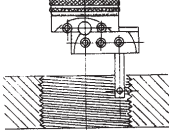
8. External turning



9. Taper turning



10. Tapping



The facing and boring head is a major accessory of Boring Machine, Milling Machine, CNC Machine etc. It also can carry out such operations as facing, outside & inside boring, boring step and inner and outside groove cutting featuring manual fine feed, rapid adjustment, various velocities for radial automatic feed and overload protection.

Type of taper shanks available for the boring heads are as following:

R8, MT3-MT6, MW3-MW6, TZIO, ISO30, 40, 45, 50, etc.



Descriptions	Order No. 220-1701	Order No. 220-1801	Order No. 220-1901
Max. facing and boring dia (mm)	150	350	450
Dia. of tool post holes in slide (mm)	18	22	22
Fine feed per graduation (mm)	0.005	0.005	0.005
Weight of head without shank (kgs)	2.9	6.1	7.8
Max. stroke of slide (mm)	+/-15	+/-25	+/- 50
Self-acting feed per revolution (mm)	0.02, 0.04, 0.06, 0.08, 0.10, 0.12	0.03, 0.06, 0.09, 0.12, 0.15, 0.18	0.03, 0.06, 0.09, 0.12, 0.15, 0.18
Max. dia. of slide (mm)	90	120	168
Height of head without shank	87.5	118	118
The length of sliding block (mm)	75	105	160
The width of sliding block (mm)	70	90	90

Solid Lathe Centers

- Hardened and ground to the closest tolerance.
- There are three type to meet your need carbon steel, high speed steel tipped, carbide tipped



Carbon Steel and High Speed Steel



Carbide Tipped

Morse Taper	Overall Length	Carbon Steel Order No.	H.S.S. Order No.	Carbide Tipped Order No.
MT1	3-3/16"	251-3011	251-3071	251-3051
MT2	3-15/16"	251-3012	251-3072	251-3052
MT3	4-15/16"	251-3013	251-3073	251-3053
MT4	6-5/16"	251-3014	251-3074	251-3054
MT5	7-7/8"	251-3015	251-3075	251-3055
MT6	11"	251-3016	251-3076	251-3056
MT7	14"	251-3017	251-3077	251-3057

Half-Notched Lathe Centers



Morse Taper	Order No.
MT1	251-3801
MT2	251-3802
MT3	251-3803
MT4	251-3804
MT5	251-3805
MT6	251-3806
MT7	251-3807

Bull Nose Live Centers



Morse Taper	Small End Dia.	Large End Dia.	Order No.
MT2	1/2"	2-7/16"	251-3702
MT3	3/4"	3"	251-3703
MT3	1-1/4"	4"	251-3704
MT3	1-1/2"	5"	251-3705
MT4	1-3/8"	5"	251-3706
MT4	2"	6"	251-3707
MT5	1-3/8"	6"	251-3708
MT5	2-1/8"	8"	251-3709

Precision Live Centers

Light Duty



Morse Taper	Accuracy	Order No.
MT1	.0004"	251-3031
MT2	.0004"	251-3032
MT3	.0004"	251-3033
MT4	.0004"	251-3034
MT5	.0004"	251-3035
MT6	.0004"	251-3036
MT7	.0004"	251-3037

Medium Duty



Morse Taper	Accuracy	Order No.
MT1	.0008"	251-3021
MT2	.0008"	251-3022
MT3	.0008"	251-3023
MT4	.0008"	251-3024
MT5	.001	251-3025
MT6		251-3026

Heavy Duty



Morse Taper	Accuracy	Order No.
MT1	.0003"	251-3001
MT2	.0003"	251-3002
MT3	.0003"	251-3003
MT4	.0003"	251-3004
MT5	.0004"	251-3005
MT6	.0004"	251-3006

Carbide Tipped Live Centers

Medium Duty

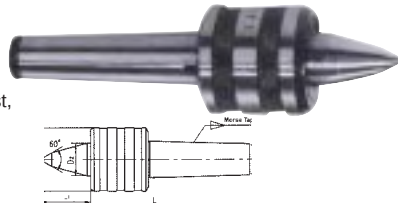


Morse Taper	Accuracy	Order No.
MT1	0.010mm	251-3091
MT2	0.010mm	251-3092
MT3	0.010mm	251-3093
MT4	0.010mm	251-3094
MT5	0.015mm	251-3095
MT6	0.015mm	251-3096

Long Nose Live Centers

Head-Driving Type for N/C & Copying Lathes

- Usable at high speeds-3,000 RPM on MT3, MT4. 2,000 RPM on MT5 and 1500RPM on MT6.
- Run out with in .0002".
- Unique head-driving mechanism ensures that no dust, chips, or foreign oils can enter and destroy bearings.



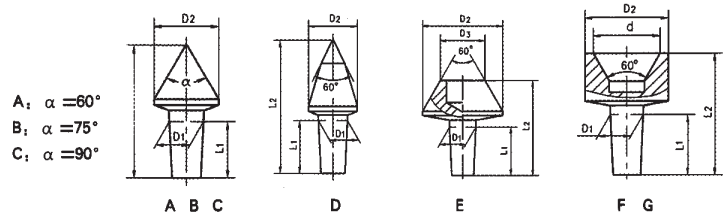
Morse Taper	L1	D	D2	L	Order No.
MT3	1.42"	1.77"	.87"	6.50"	251-3043
MT4	1.42"	1.77"	.87"	7.40"	251-3044
MT5	2.44"	3.07"	1.57"	10.55"	251-3045
MT6	2.95"	4.02"	1.97"	13.62"	251-3046

Medium Duty Multi-Purpose Live Centers & Sets

- The body of these sets is constructed similar to medium live centers.
- The sets consists of 3 large male centers, 1 female center, 4 smaller, different sized male center.



Morse Taper	Head A Order No.	Head B Order No.	Head C Order No.	Head D Order No.	Head E Order No.	Head F Order No.	Head G Order No.	SETS Order No.
MT2	251-3201	251-3202	251-3203	251-3204	251-3205	251-3206	251-3207	251-3082
MT3	251-3301	251-3302	251-3303	251-3304	251-3305	251-3306	251-3307	251-3083
MT4	251-3401	251-3402	251-3403	251-3404	251-3405	251-3406	251-3407	251-3084
MT5	251-3501	251-3502	251-3503	251-3504	251-3505	251-3506	251-3507	251-3085
MT6	251-3601	251-3602	251-3603	251-3604	251-3605	251-3606	251-3607	251-3086



Dimensions (mm)

Morse Taper	D1	L1	D2	Head A L2	Head B D2 L2	Head C D2 L2	Head D D2 L2	Head E D2 D3 L2	Head F D2 L2 d	Head G D2 L2 d
2	10	20	16	39	16 35.5	16 33	16 46	25 10 40	16 36 10	20 39 16
3	12	24	20	48	20 43.5	20 40.5	18 56	35 15 50	22 42 18	35 48 30
4	15	30	28	61.5	28 55.5	28 51.5	26 73	55 30 61.5	40 55 35	55 60 48
5	20	40	36	80	36 72.45	36 66.87	36 101	70 41 78	60 81 50	70 85 61
6	30	55	55	117	55 113	55 108	50 138	90 50 107.5	75 110 60	90 116 75