

LARGE ID RING BIT SYSTEM

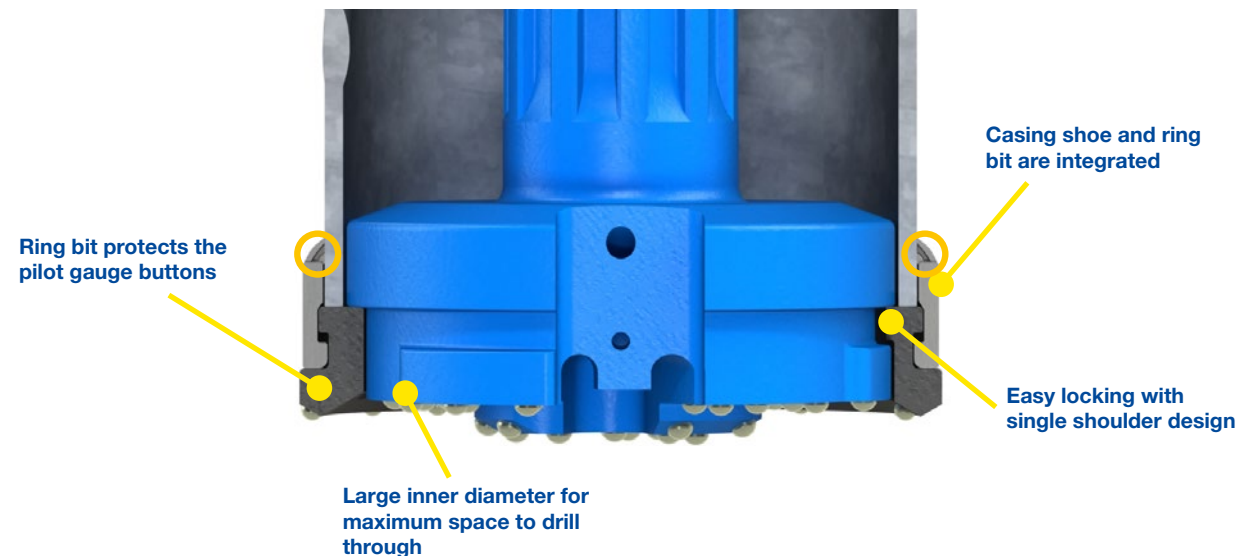


Large ID ring bit system is used with sacrificed casings when there is a requirement to continue the hole after the casing is set. Large ID system is thus ideally suited to energy and water well drilling applications, where the drilling is continued through the ring bit with a separate small size rock bit.

In piling, large ID system also allows maximum size rock sockets to be drilled through the ring bit, using large diameter rock bits.

MAIN APPLICATIONS

- Piling with sacrificed casings and rock socket
- Energy/water wells
- Surface casings (sealing, dewatering)



○ = Welding spot

System is available from 114 to 813 mm casings and for all major shank designs.

| System product code | Casing OD mm | Casing OD inch | Max wall mm | Max wall inch | Ring bit ID mm | Ring bit ID inch | Ring bit OD mm | Ring bit OD inch | Pilot bit OD mm | Pilot bit OD inch | Recommended hammer |
|---------------------|--------------|----------------|-------------|---------------|----------------|------------------|----------------|------------------|-----------------|-------------------|--------------------|
| I114-5.5-91 | 114.3 | 4.5" | 5.5 | 0.22" | 91 | 3.58" | 133 | 5.24" | 101.5 | 4.00" | MP30-DH |
| I127-5.5-103 | 127 | 5" | 5.5 | 0.22" | 103 | 4.06" | 147 | 5.79" | 114 | 4.49" | MP30-DH |
| I140-5.5-116 | 139.7 | 5.5" | 5.5 | 0.22" | 116 | 4.56" | 160 | 6.30" | 127.5 | 5.02" | MP4H-MQ |
| HDI140-5.5-116* | 139.7 | 5.5" | 5.5 | 0.22" | 116 | 4.56" | 168 | 6.61" | 127.5 | 5.02" | MP4H-MQ |
| I152-6-128 | 152.4 | 6" | 6 | 0.24" | 128 | 5.040" | 174 | 6.85" | 139 | 5.47" | MP4H-MQ |
| I159-6-134 | 158.8 | 6.25" | 6 | 0.24" | 134 | 5.28" | 179 | 7.05" | 145 | 5.71" | MP4H-MQ |
| I168-6-142 | 168.3 | 6.63" | 6 | 0.24" | 142 | 5.59" | 189 | 7.44" | 154 | 6.06" | MP50-MQ |
| HDI168-6-142* | 168.3 | 6.63" | 6 | 0.24" | 142 | 5.59" | 196 | 7.72" | 154 | 6.06" | MP50-MQ |
| I178-7-153 | 177.8 | 7" | 7 | 0.28" | 153 | 6.02" | 204 | 8.03" | 162 | 6.38" | MP50-MQ |
| I194-6-166 | 193.7 | 7.63" | 6 | 0.24" | 166 | 6.54" | 220 | 8.66" | 179 | 7.05" | MP60-MQ |
| I219-6.5-190 | 219.1 | 8.63" | 6.5 | 0.26" | 190 | 7.48" | 245 | 9.65" | 203 | 7.99" | MP70-MC-D160 |
| I244-8-212 | 244.5 | 9.63" | 8 | 0.31" | 212 | 8.35" | 270 | 10.63" | 225 | 8.86" | MP80-MQ |
| I254-8-222 | 254 | 10" | 8 | 0.31" | 222 | 8.74" | 280 | 11.02" | 235 | 9.25" | MP80-MQ |
| I273-8-242 | 273 | 10.75" | 8 | 0.31" | 242 | 9.53" | 299 | 11.77" | 254 | 10" | MP80-MQ |
| I301-10-260 | 301.6 | 11.87" | 10 | 0.39" | 260 | 10.24" | 327 | 12.87" | 279 | 10.98" | MP80-MQ |
| I323-10-280 | 323.9 | 12.75" | 10 | 0.39" | 280 | 11.02" | 350 | 13.78" | 298 | 11.73" | MP100-MC |
| I339-10-295 | 339.7 | 13.37" | 10 | 0.39" | 295 | 11.61" | 366 | 14.41" | 316 | 12.44" | MP100-MC |
| I355-10-311 | 355.6 | 14" | 10 | 0.39" | 311 | 12.24" | 383 | 15.08" | 332 | 13.07" | MP100-MC |
| I406-10-365 | 406.4 | 16" | 10 | 0.39" | 365 | 14.37" | 436 | 17.17" | 382 | 15.04" | MP120-MC |
| I457-10-405 | 457.2 | 18" | 10 | 0.39" | 405 | 15.94" | 487 | 19.17" | 432 | 17.01" | MP120-MC |
| I508-12.7-450 | 508 | 20" | 12.7 | 0.5" | 450 | 17.72" | 538 | 21.18" | 478 | 18.82" | MP150-MC |
| I559-12.7-500 | 558.8 | 22" | 12.7 | 0.5" | 500 | 19.69" | 589 | 23.19" | 528 | 20.79" | MP150-MC |
| I610-12.7-555 | 609.6 | 24" | 12.7 | 0.5" | 555 | 21.85" | 644 | 25.35" | 580 | 22.83" | MP180-MQ |
| I660-12.7-600** | 660.4 | 26" | 12.7 | 0.5" | 600 | 23.62" | 690 | 27.17" | 629 | 24.76" | MP180-MQ |
| I711-12.7-641** | 711.2 | 28" | 12.7 | 0.5" | 641 | 25.24" | 741 | 29.17" | 679 | 26.73" | MP240-MQ |
| I762-12.7-690** | 762 | 30" | 12.7 | 0.5" | 690 | 27.1" | 794 | 31.26" | 729 | 28.70" | MP240-MQ |
| I813-12.7-735** | 812.8 | 32" | 12.7 | 0.5" | 735 | 28.94" | 845 | 33.27" | 780 | 30.71" | MP240-MQ |

*Heavy duty systems for deep casing drilling. Special design with large ID.

**Large diameter system can be engineered based on the specific customer requirements (660–1 524 mm).