

# SPIRALFLUSH®



## INTEGRATED RING BIT SYSTEMS

**INTEGRATED RING BIT SYSTEMS** are designed for drilling end bearing piles to bed rock. System is designed to drill straight piles through boulders, rock layers and into inclined bed rock. Heavy duty ring bit is integrated to casing shoe, which makes it safe to drill in loose ground and over the water.



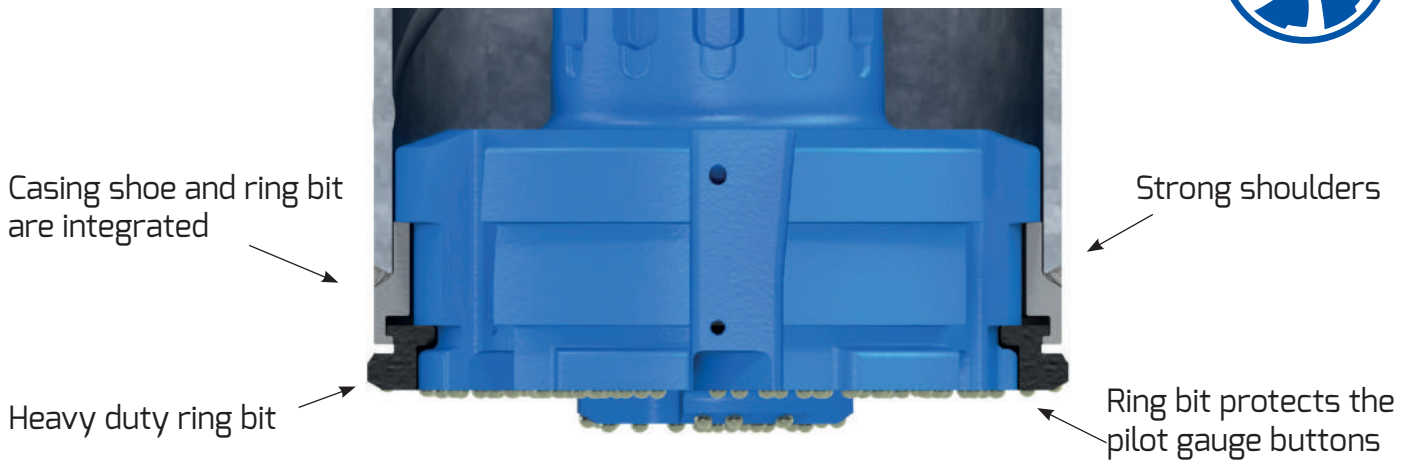
Main **applications** for integrated systems are:

1. End bearing piles including micro piling
2. Pilings with sacrificed casings, which have no large ID ring bit requirements
3. Slope stabilization
4. Pipe walls, king piles



The Driller's Choice Worldwide  
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# INTEGRATED SYSTEM DESIGN FEATURES



System is available from 114 to 1524 mm casings and for all major shank designs.

| System product code | Casing OD |         | Max wall |        | Ring bit ID |         | Ring bit OD |         | Pilot bit OD |         |
|---------------------|-----------|---------|----------|--------|-------------|---------|-------------|---------|--------------|---------|
|                     | mm        | inch    | mm       | inch   | mm          | inch    | mm          | inch    | mm           | inch    |
| I114-10-76          | 114.3     | 4.5"    | 10       | 0.394" | 76          | 2.992   | 130         | 5.118"  | 89           | 3.504"  |
| I127-10-87          | 127       | 5"      | 10       | 0.394" | 87          | 3.425"  | 145         | 5.709"  | 105          | 4.134"  |
| I140-10-100         | 139.7     | 5.5"    | 10       | 0.394" | 102         | 4.016"  | 160         | 6.299"  | 118          | 4.646"  |
| I152-10-112         | 152.4     | 6"      | 10       | 0.394" | 112         | 4.409"  | 172         | 6.772"  | 130          | 5.118"  |
| I159-10-118         | 158.8     | 6.25"   | 10       | 0.394" | 118         | 4.646"  | 179         | 7.047"  | 137          | 5.394"  |
| I168-12.7-125       | 168.3     | 6.625"  | 12.7     | 0.5"   | 125         | 4.921"  | 189         | 7.441"  | 140          | 5.512"  |
| I178-12.7-135       | 177.8     | 7"      | 12.7     | 0.5"   | 135         | 5.315"  | 199         | 7.835"  | 151          | 5.945"  |
| I194-12.7-147       | 193.7     | 7.625"  | 12.7     | 0.5"   | 147         | 5.787"  | 221         | 8.701"  | 166          | 6.535"  |
| I219-12.7-171       | 219.1     | 8.625"  | 12.7     | 0.5"   | 171         | 6.732"  | 243         | 9.567"  | 188          | 7.402"  |
| I244-12.7-190       | 244.5     | 9.625"  | 12.7     | 0.5"   | 190         | 7.480"  | 269         | 10.590" | 216          | 8.504"  |
| I254-14.2-197       | 254       | 10"     | 14.2     | 0.559" | 197         | 7.756"  | 279         | 10.984  | 223          | 8.780"  |
| I273-12.7-220       | 273       | 10.742" | 12.7     | 0.5"   | 220         | 8.661"  | 299         | 11.772" | 244          | 9.606"  |
| I301-14.2-220       | 301.6     | 11.875" | 14.2     | 0.559" | 220         | 8.661"  | 312         | 12.283  | 270          | 10.630" |
| I323-14.2-240       | 323.9     | 12.742" | 14.2     | 0.559" | 240         | 9.449"  | 335         | 13.189" | 291          | 11.457" |
| I339-14.2-255       | 339.7     | 13.375" | 14.2     | 0.559" | 255         | 10.039" | 350         | 13.780" | 308          | 12.126" |
| I355-14.2-270       | 355.6     | 14"     | 14.2     | 0.559" | 270         | 10.630" | 367         | 14.449" | 324          | 12.756" |
| I406-16-318         | 406.4     | 16"     | 16       | 0.630" | 318         | 12.520" | 418         | 16.457" | 370          | 14.567" |
| I457-16-360         | 457.2     | 18"     | 16       | 0.630" | 360         | 14.173" | 469         | 18.465" | 423          | 16.654" |
| I508-16-422         | 508       | 20"     | 16       | 0.630" | 422         | 16.614" | 520         | 20.472" | 471          | 18.543" |
| I559-16-470         | 558.8     | 22"     | 16       | 0.630" | 470         | 18.504" | 571         | 22.480" | 521          | 20.512" |
| I610-16-502         | 609.6     | 24"     | 16       | 0.630" | 502         | 19.764" | 622         | 24.488" | 572          | 22.520" |
| I660-20-545         | 660.4     | 26"     | 20       | 0.787" | 545         | 21.457" | 675         | 26.575" | 615          | 24.213" |
| I711-16-610         | 711.2     | 28"     | 16       | 0.630" | 610         | 24.016" | 735         | 28.937" | 675          | 26.575" |
| I762-20-655         | 762       | 30"     | 20       | 0.787" | 655         | 25.787" | 785         | 30.906" | 715          | 28.150" |
| I813-16-700         | 812.8     | 32"     | 16       | 0.630" | 700         | 27.559" | 830         | 32.677" | 769          | 30.276" |
| I863-20-750         | 863.6     | 34"     | 20       | 0.787" | 750         | 29.528" | 880         | 34.646" | 815          | 32.087" |
| I914-20-800         | 914.4     | 36"     | 20       | 0.787" | 800         | 31.5"   | 930         | 36.614" | 866          | 34.094" |
| I1016-20-880 *      | 1016      | 40"     | 20       | 0.787" | 880         | 34.646" | 1032        | 40.630" | 966          | 38.031" |
| I1066-20-930*       | 1066.8    | 42"     | 20       | 0.787" | 930         | 36.614" | 1086        | 42.756" | 1014         | 39.921" |
| I1220-20-1080 *     | 1219.2    | 48"     | 20       | 0.787" | 1080        | 42.520" | 1240        | 48.819" | 1168         | 45.984" |
| I1321-22-1150 *     | 1320.8    | 52"     | 22       | 0.866" | 1150        | 45.276" | 1344        | 52.913" | 1247         | 49.094" |
| I1422-22-1250*      | 1422.4    | 56"     | 22       | 0.866" | 1250        | 49.213" | 1446        | 56.929" | 1348         | 53.071" |
| I1524-22-1340 *     | 1524      | 60"     | 22       | 0.866" | 1340        | 52.756" | 1548        | 60.945" | 1462         | 57.559" |

\*Large diameter system can be engineered based on the specific customer requirements