

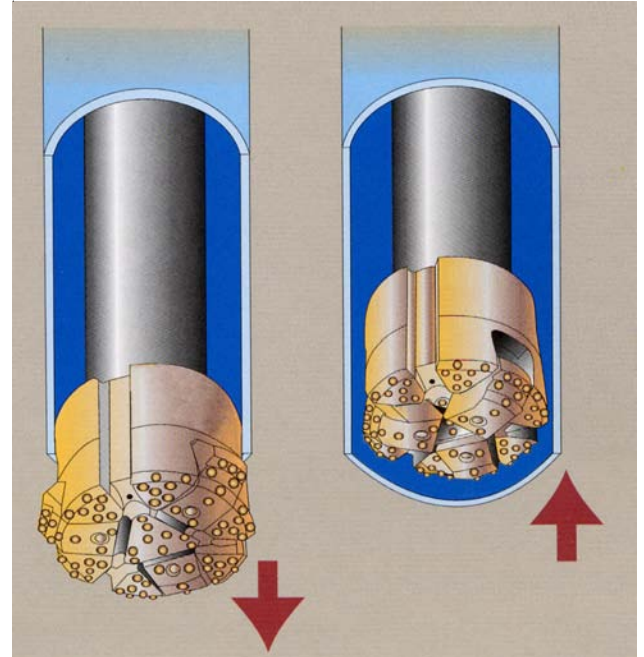
SUPER JAWS[®]*

Overburden Drill Bits

ND / DUPLEX DRILLING

FEATURES

- Micropile / Tieback / Soil Nail and various construction applications.
- Systems for use with heavy wall casing. No drive shoe required.
- A revolutionary, new under overburden system for simultaneously drilling and casing hole sizes 5-1/8" to 16" (130 mm - 406 mm) in diameter.
- Designed for top performance in both overburden and solid rock formations.
- Large bit face area for transferring blow energy to the formation yielding faster penetration rates.
- Uniquely designed bit wings extend out further than the casing O.D. when the bit reaches bottom to allow simultaneous drilling and casing.
- The bit can be used to the full operating pressure of the hammer resulting in rapid penetration and minimum drilling time.
- Bit wings retract inside the casing when the hammer is pulled off bottom. No reverse rotation, which can cause unscrewing problems, is required.
- No ring bits or other drilling equipment is left down the hole.

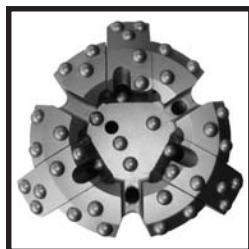


Drilling Position

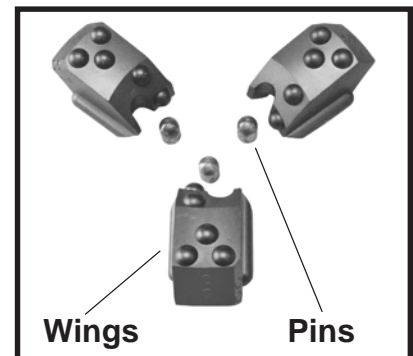
Retract Position



2 Wing
T105 ND - T165 ND



3 Wing
T190 ND - T302 ND



Patents USA: 5,881,827
Korea: 0461525
Patents pending in other countries.

* manufactured under license from TONE Corporation

Super Jaws[®] - Overburden Drill Bits

ND / DUPLEX DRILLING

SPECIFICATIONS

System	Shank	No. of Wings	Outer Diameter of Bit		Applicable Casing		Weight *
			Expanded	Retracted	Inner Dia.	Outer Dia.	
T105 ND	C35	2	5.540" (140.7mm)	4.074" (103.5mm)	4.250" (108.0mm)	5.125" (130.2mm)	21.2 (9.6Kg)
T117 ND	340A	2	6.000" (152.4mm)	4.589" (116.6mm)	4.670" (118.6mm)	5.500" (139.7mm)	39.0 (17.7Kg)
T130 ND	340A	2	6.400" (162.6mm)	4.983" (126.6mm)	5.118" (130.0mm)	6.000" (152.4mm)	46.0 (20.9Kg)
T140 ND	QL50	2	7.280" (184.9mm)	5.551" (141.0mm)	5.625" (142.9mm)	6.625" (168.3mm)	66.0 (29.9Kg)
T150 ND	QL50 360/QL60	2	7.750" (196.9mm)	5.880" (149.4mm)	6.000" (152.4mm)	7.000" (177.8mm)	80.0 (36.3Kg)
T165 ND	QL50 360/QL60	2	8.340" (211.8mm)	6.500" (165.1mm)	6.625" (168.3mm)	7.625" (193.7mm)	81.0 (36.7Kg) 94.0 (42.6Kg)
T190 ND	360/QL60	3	9.329" (237.0mm)	7.520" (191.0mm)	7.625" (193.7mm)	8.625" (219.1mm)	118.0 (53.5Kg)
T215 ND	380	3	10.375" (263.5mm)	8.307" (211.0mm)	8.565" (217.6mm)	9.625" (244.5mm)	188.0 (85.3Kg)
T240 ND	380	3	11.420" (290.1mm)	9.449" (240.0mm)	9.560" (242.8mm)	10.750" (273.1mm)	224.0 (101.6Kg)
T265 ND	N100	3	12.400" (315.0mm)	10.430" (264.9mm)	10.715" (272.2mm)	11.875" (301.6mm)	347.0 (157.4Kg)
T292 ND	N100	3	13.810" (350.8mm)	11.398" (289.5mm)	11.560" (293.6mm)	12.750" (323.9mm)	410.0 (186.0Kg)
T302 ND	N100	3	14.250" (362.0mm)	11.890" (302.0mm)	12.125" (308.0mm)	12.750" (323.9mm)	424.0 (192.3Kg)
T385 ND	P125	4	17.680" (449.1mm)	15.125" (384.2mm)	15.375" (390.5mm)	16.000" (406.4mm)	680.0 (308.4Kg)

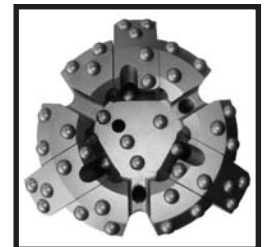
Casing specifications required upon placement of order. All casing sizes are nominal.

* Weights are approximate. Other sizes and shanks may be available upon request.



2 Wing
T105 ND - T165 ND

3 Wing
T190 ND - T302 ND



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