



PRAKASH DRILLING MACHINES

Product Catalog

Ver 2024.06

(This catalog can be best viewed as Full Screen)

Prakash Engitech Pvt. Ltd.

Rajkot (Gujarat) **INDIA**

Mo. : 9408700300 / 400 / 500 / 600

 : sales@prakashmachines.in

 : www.prakashmachines.in

Online Presence :



Radial Drill Machines



DC411



R40AA



R40G



R40BA

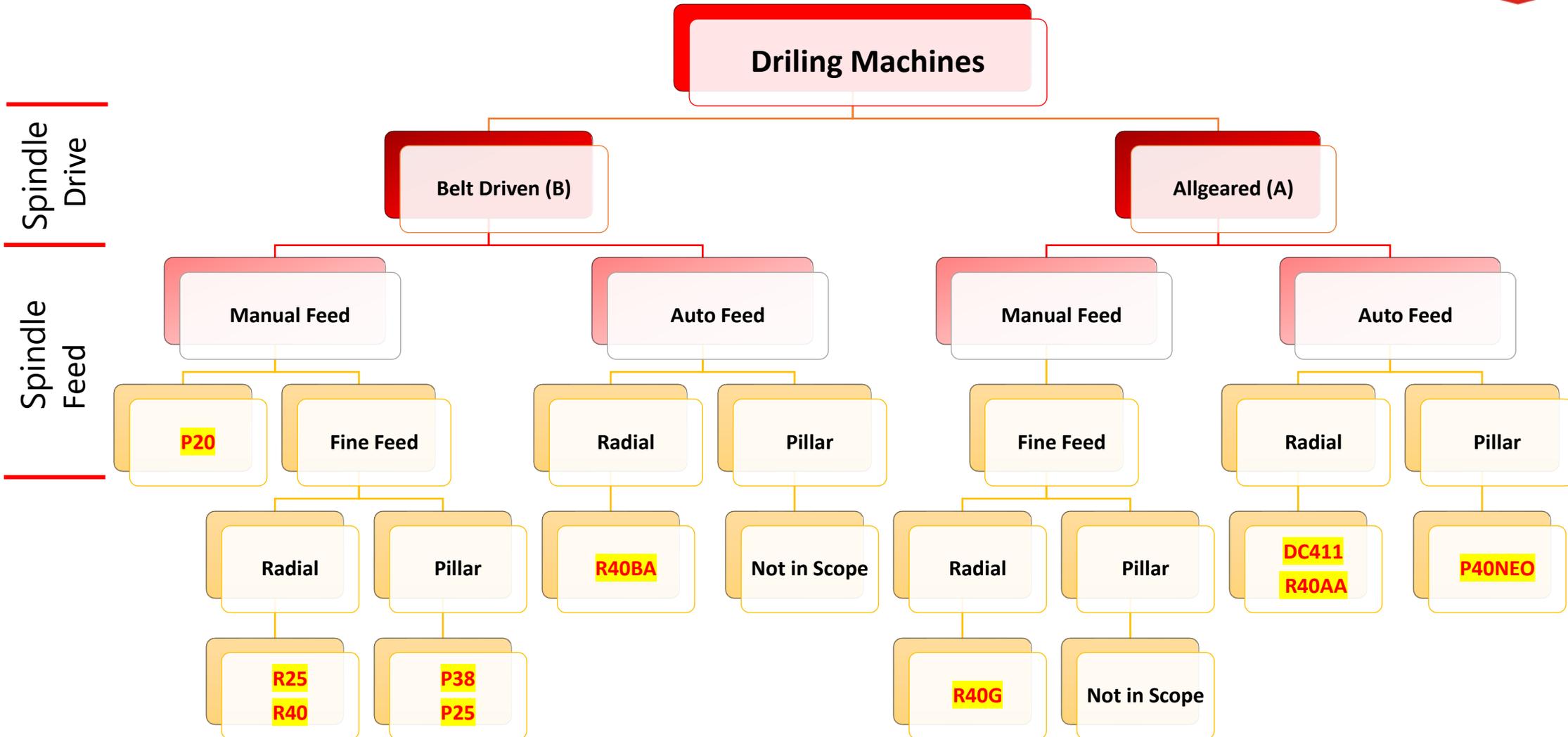


R40



R25

Types and model of machine as per drive and feed mechanisms :



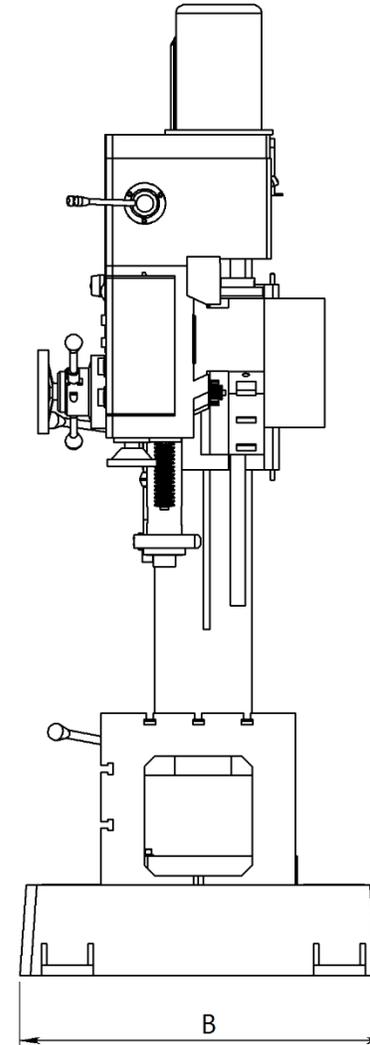
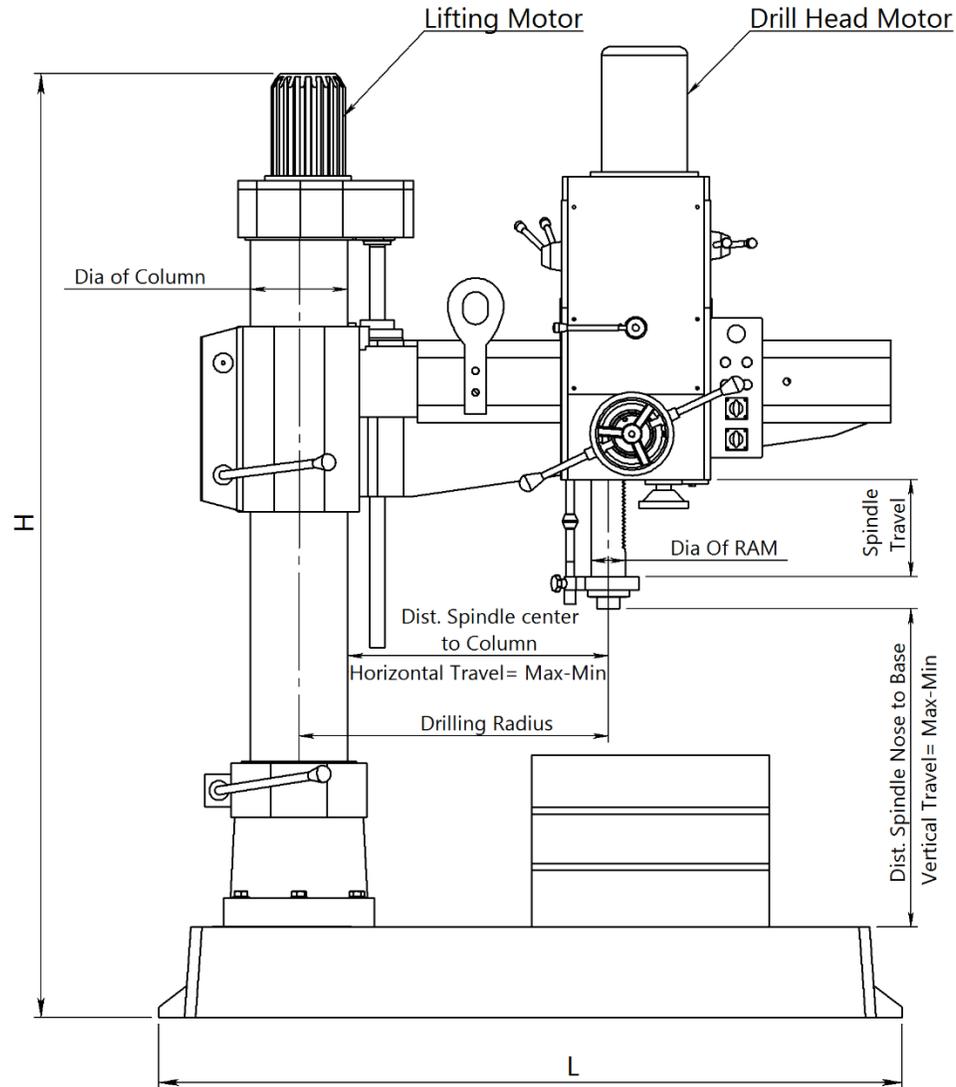
Machine selection chart as per application :



		Drilling Capacity	Workpiece Size	Production Batch Size	No. of sizes of Diff Holes in a Workpiece	Drilling	Tapping	Reaming	Boring
Radial	DC411	42	Large	Mass	More	●	●	●	●
	R40AA	40	Big	Mass	More	●	●	●	●
	R40G	40	Big	Mass	More	●	●	●	
	R40BA	40	Big	Medium	Moderate	●	●	●	●
	R40	40	Big	Medium	Moderate	●	●	●	
	R25	25	Small	Small	Moderate	●	●	●	
Pillar	P40NEO	40	Big	Mass	More	●	●	●	●
	P38	38	Big	Mass	Moderate	●	●	●	
	P25	25	Small	Mass	Moderate	●	●	●	
	P20	20	Small	Mass	Moderate	●	●	●	

This illustration is tentative only. Final selection may depend on actual applications. Please contact us for any technical information required.

How to read specifications of Radial and Pillar Drill Machines





Model : **R40G**

40 mm Cap. Single Column Allgeared
Finefeed Radial Drill Machine

R40 Series Features

Model : **R40G**

Model : **R40BA**

Model : **R40**



A Oil Bath lifting assembly.
Steel worm supported through ball bearing at both sides.

Screw supported through taper roller bearings.

D 250 mm long Spindle travel.
78 mm steel RAM with 2.5 module Heavy teeth.



B Wide supports of column, column bracket & arm.

Heavy duty lifting screw of 35 mm dia.

E Greater Support through closed Dovetail guide ways and Wider drilling head.

Better design of arm for higher rigidity and wide support.

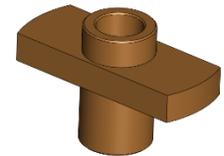
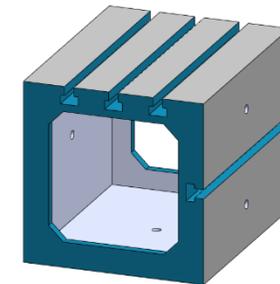


C Long bottom for greater rigidity to reduce vibration.

Heavy duty column with heavily ribbed base plate.

F All four sides useful of boxtable

Longer Gun Metal Nut for long life





Model : **R40G**

40 mm Cap. Allgeared Finefeed
Radial Drill Machine



Key Features

- 905 mm Center Distance
- 9 Spindle speeds with single speed motor
- Hardened Gears
- Hardened & Ground Spindle, RAM, Pinion
- 170 mm Column Diameter
- Longer Gun Metal Nut for Lifting of Arm
- [All other R40 Series Features](#)

Oil bath Gear Box

The all new design of gear box in model PMW-R40AA,R40G and P40AA is having 9 speed with all 9 gear made up of hardened NiCr steel up to HRC 50-55. Oil bath gear box and hardened gears give very long life to the machine. Rotation and easy sliding of gears in bearings gives very high reliability. Gear are internally six splined and shaft are externally splined

All the gears in gearbox are machined on imported WMW Germany make gear shaper.

All the splines in the gear box are machined on imported PFAUTER Germany make spline milling machine.



Model : **R40G**

40 mm Cap. Allgeared Finefeed
Radial Drill Machine

	Description	R40G
CAPACITY	Drilling in M.S.	40
	Drilling in C.I.	45
	Tapping in M.S.	20
	Rough Boring in M.S.	----
DRILL HEAD	Spindle Travel	250
	Spindle Hole taper	MT-4
	Spindle Speeds (RPM x steps)	70-1225 x 9
	Diameter of RAM	78
	Spindle Autofeed Ranges	Fine Feed
WORKING RANGE	Max/Min Dist. Spindle nose to base	850/250
	Max/Min Dist. Spindle center to column	905/385
	Max. Drilling Radius	990
	Machine Measurement (LxBxH)	1350x850x1825
	Diameter of Column	170
	Work Table	300x300x385 All for sides useful
POWER	Coolant Tank in-built in Base	Yes
	Working Range (on Base)	900 x 800
	Drill Head Motor	1.5 HP /960 RPM
	Lifting Motor	0.5 HP / 1440 RPM
	Lifting Motor V- belt	B-23/B-24

Extra Accessories

- Drill Chuck & Arbor
- Keyless Drill Chuck & Arbor
- Box Table
- Extra Long Column.
- Tapping Attachment (Mechanical)
- Drill Vice

Standard Accessories

- Switches
- V-Belt
- Electrical Motors
- Coolant Pump & Coolant Assembly

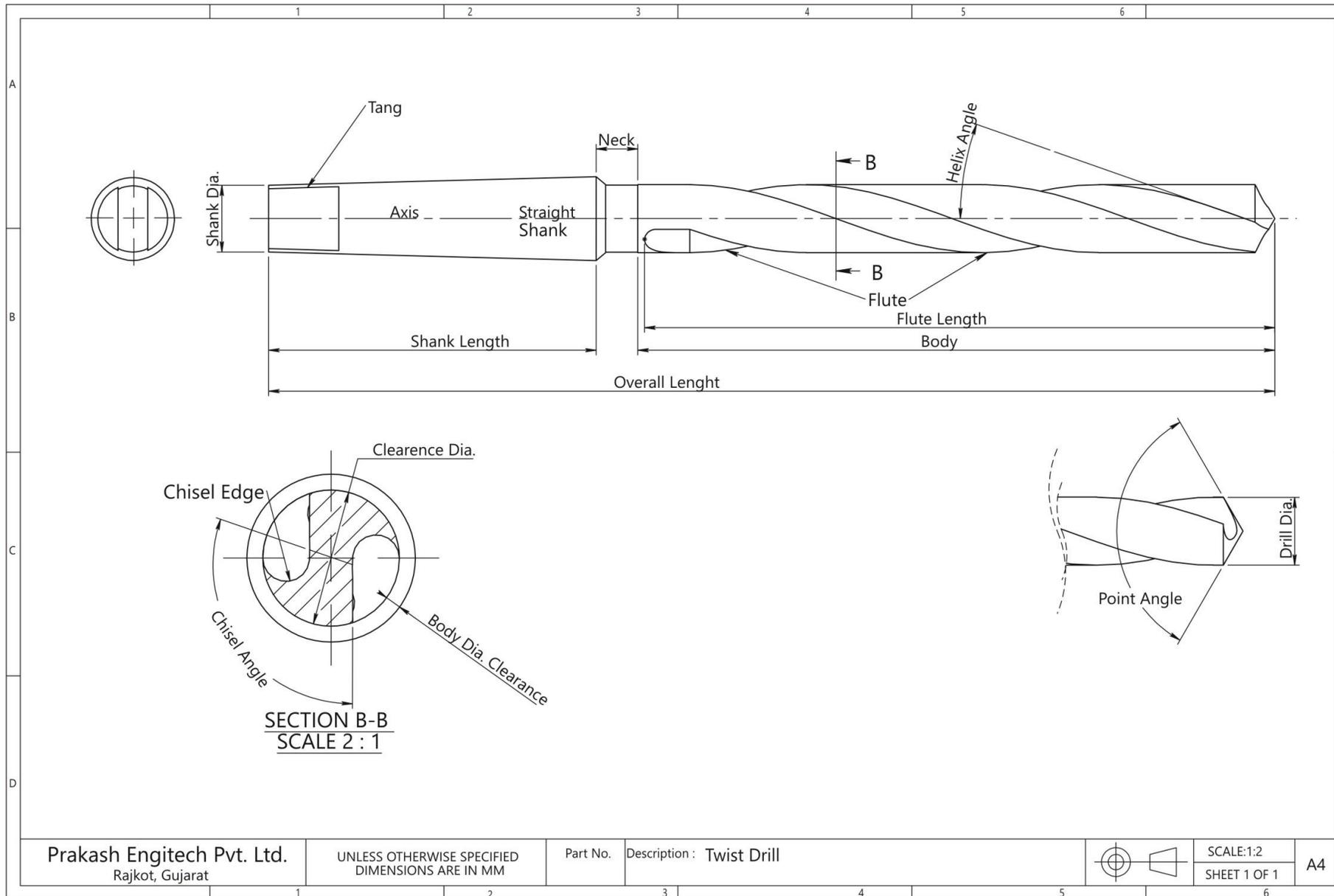


PRAKASH DRILLING MACHINES

General Drilling Data



Twist Drill Nomenclature





Nominal Dia		B.S.W.		B.S.P. & B.S.P.T.		
Fractional	Major Min Dia Inch	TPI	Drill Size	Major Min Dia	TPI	Drill Size
1/16"	0.0635	60	no.55	-	-	-
3/32"	0.095	48	no.48	-	-	-
1/8"	0.1262	40	2.55m	0.383	28	8.75m
5/32"	0.1576	32	3.10m	-	-	-
3/16"	0.1891	24	3.7m	-	-	-
7/32"	0.2204	24	11/64"	-	-	-
1/4"	0.2518	20	5.1m	0.518	19	11.8m
9/32"	0.283	20	no.1	-	-	-
5/16"	0.3143	18	6.5m	-	-	-
3/8"	0.377	16	5/16"	0.656	19	15.25m
7/16"	0.4397	14	9.25m	-	-	-
1/2"	0.5024	12	10.5m	0.825	14	3/4"
9/16"	0.5649	12	12.1m	-	-	-
5/8"	0.6274	11	13.5m	0.902	14	53/64"
11/16"	0.6899	11	19/32"	-	-	-
3/4"	0.7526	10	41/64"	1.041	14	24.5m
13/16"	0.8151	10	18.25m	-	-	-
7/8"	0.8776	9	19.25m	1.189	14	28.25m
15/16"	0.9401	9	21m	-	-	-
1"	1.0028	8	22m	1.309	11	30.75m
1.1/8"	1.128	7	24.75m	-	-	-
1.1/4"	1.253	7	1.3/32"	1.65	11	39.5m
1.3/8"	1.3782	6	1.3/16"	-	-	-
1.1/2"	1.5032	6	33.5m	1.882	11	1.25/32"
1.5/8"	1.6286	5	1.27/64"	-	-	-
1.3/4"	1.7536	5	39m	2.116	11	51.5m
1.7/8"	1.8788	4.5	1.21/32"	-	-	-
2"	1.0038	4.5	44.5m	2.343	11	2.1/4"

Drilling Size For Tapping

British Standard Whitworth
Form Threads 55° Inc.
Angle





Drilling Size For Tapping

Metric Form Threads

Nominal Dia. M.M.	SYSTEM INTERNATIONAL		
	Major Min. Dia.	Pitch	Drill Size
6	0.2378	1	5m
7	0.2772	1	6m
8	0.3168	1.25	17/64"
9	0.3561	1.25	7.7m
10	0.3957	1.5	8.4m
11	0.4351	1.5	9.5m
12	0.4746	1.75	10.25m
13	-	1.75	11.25m
14	0.5534	2	12m
16	0.6321	2	35/64"
18	0.7113	2.5	39/64"
20	0.79	2.5	11/16"
22	0.8687	2.5	49/64"
24	0.9477	3	21m
27	1.0658	3	24m
30	1.1841	3.5	26.5m
33	1.3022	3.5	29.5m
36	1.4205	4	32m
39	1.5386	4	35m
42	1.6566	4.5	37.5m
45	1.775	4.5	40.5m
48	1.8935	5	43m
52	2.0508	5	47m
56	2.2085	5.5	50.5m
60	2.366	5.5	54.5m