



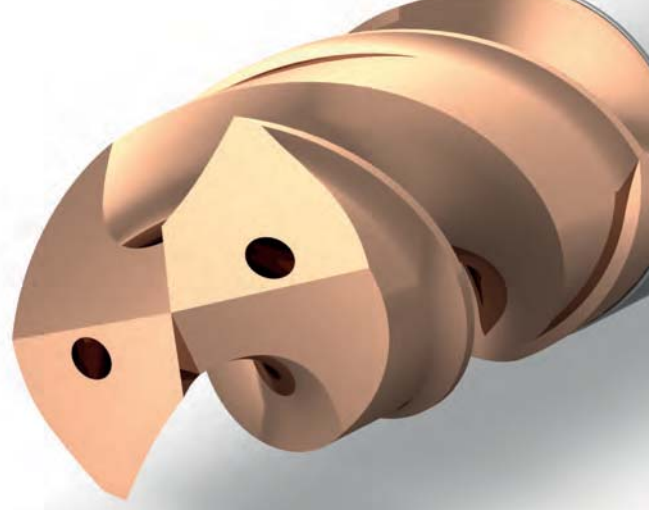
# NCD DRILLS

Premium quality solid carbide drills



• Available range  $\varnothing 3 - \varnothing 20$   
3xD and 5xD  
•  
2 geometries optimized for  
excellent performance on  
ISO **P M K S** materials  
•

**uenme**  
TOOLS and EQUIPMENT  
**nikko** TOOLS



# NCD DRILLS

Premium quality solid carbide drills



## SC - SMOOTH CUT **P M S**

- First choice for difficult to machine materials: stainless steel, sticky free-cutting steel, HRSA and Titanium
- Self-centering geometry for accurate holes
- Back taper geometry to reduce cutting force
- Special micro-honing treatment for edge protection
- AlCrN based multilayer coating with very low friction coefficient to reduce built up edge



## GP - GENERAL PURPOSE **P K**

- First choice for steel and cast iron machining (<45 HRC)
- Self-centering geometry for accurate holes
- Straight cutting edge improves chip ejection
- Special corner protection for reliable operations
- AlTiN-nano based coating for long lasting tool life
- Available both with and without coolant holes



NCD DRILLS					SMOOTH		GENERAL			
NCD3H-SC					NCD5H-SC	NCD3-CP	NCD5-CP	NCD3H-CP	NCD5H-CP	
DC (m7)	DCON (h6)	ULDR	LCF	OAL	STOCK					

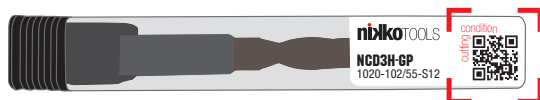
● stock standard

NCD DRILLS					SMOOTH		GENERAL			
NCD3H-SC					NCD5H-SC	NCD3-CP	NCD5-CP	NCD3H-CP	NCD5H-CP	
DC (m7)	DCON (h6)	ULDR	LCF	OAL	STOCK					

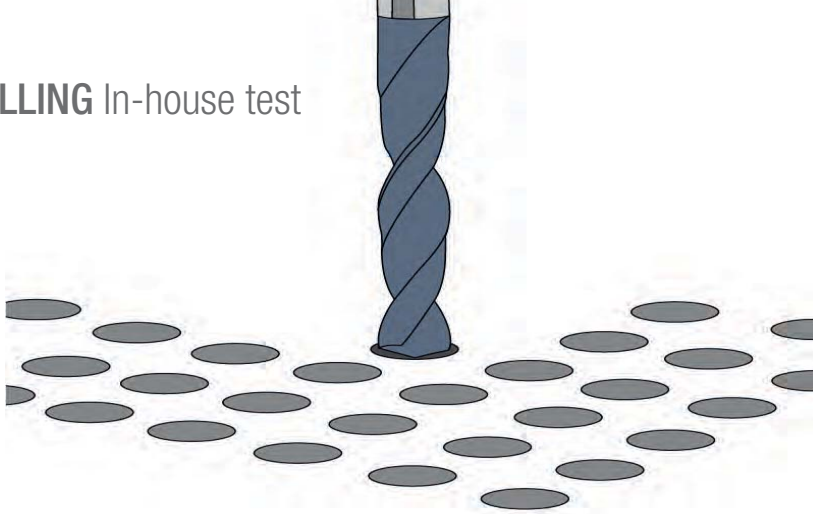
● stock standard

P			M		K		S		
Free cutting steel and structural steel Carbon steel and low alloy steel	Medium alloy steel and heat treated steel High alloy steel	Tool steel High tensile strength steel	Austenitic stainless steel	Duplex stainless steel	Grey cast iron	Nodular cast iron	Heat resistant super alloys	Titanium alloy	
TYPE									
Vc (m/min)									
SC	★ 100 <b>130</b> 160	☆ 80 <b>110</b> 140	-	★ 40 <b>60</b> 80	★ 20 <b>30</b> 40	-	-	☆ 30 <b>40</b> 50	☆ 40 <b>50</b> 60
GP	☆ 100 <b>130</b> 160	★ 80 <b>110</b> 140	★ 60 <b>90</b> 120	-	-	★ 100 <b>120</b> 140	★ 60 <b>90</b> 120	-	-
GP without coolant	☆ 80 <b>100</b> 120	★ 60 <b>80</b> 100	★ 40 <b>60</b> 80	-	-	★ 80 <b>90</b> 100	★ 40 <b>60</b> 80	-	-
fn (mm/rev)									
3÷3.9	0.14 <b>0.16</b> 0.18	0.10 <b>0.12</b> 0.14	0.08 <b>0.10</b> 0.12	0.08 <b>0.10</b> 0.12	0.04 <b>0.06</b> 0.08	0.16 <b>0.18</b> 0.20	0.12 <b>0.14</b> 0.16	0.02 <b>0.04</b> 0.06	0.03 <b>0.05</b> 0.07
4÷4.9	0.15 <b>0.17</b> 0.19	0.11 <b>0.13</b> 0.15	0.09 <b>0.11</b> 0.13	0.09 <b>0.11</b> 0.13	0.05 <b>0.07</b> 0.09	0.17 <b>0.19</b> 0.21	0.13 <b>0.15</b> 0.17	0.03 <b>0.05</b> 0.07	0.04 <b>0.06</b> 0.08
5÷5.9	0.16 <b>0.18</b> 0.20	0.12 <b>0.14</b> 0.16	0.10 <b>0.12</b> 0.14	0.10 <b>0.12</b> 0.14	0.06 <b>0.08</b> 0.10	0.18 <b>0.20</b> 0.22	0.14 <b>0.16</b> 0.18	0.04 <b>0.06</b> 0.08	0.05 <b>0.07</b> 0.09
6÷6.9	0.17 <b>0.19</b> 0.21	0.13 <b>0.15</b> 0.17	0.11 <b>0.13</b> 0.15	0.11 <b>0.13</b> 0.15	0.07 <b>0.09</b> 0.11	0.19 <b>0.21</b> 0.23	0.15 <b>0.17</b> 0.19	0.05 <b>0.07</b> 0.09	0.06 <b>0.08</b> 0.10
7÷7.9	0.18 <b>0.20</b> 0.22	0.14 <b>0.16</b> 0.18	0.12 <b>0.14</b> 0.16	0.12 <b>0.14</b> 0.16	0.08 <b>0.10</b> 0.12	0.20 <b>0.22</b> 0.24	0.16 <b>0.18</b> 0.20	0.06 <b>0.08</b> 0.10	0.07 <b>0.09</b> 0.11
8÷8.9	0.19 <b>0.21</b> 0.23	0.15 <b>0.17</b> 0.19	0.13 <b>0.15</b> 0.17	0.13 <b>0.15</b> 0.17	0.09 <b>0.11</b> 0.13	0.21 <b>0.23</b> 0.25	0.17 <b>0.19</b> 0.21	0.07 <b>0.09</b> 0.11	0.08 <b>0.10</b> 0.12
9÷9.9	0.20 <b>0.22</b> 0.24	0.16 <b>0.18</b> 0.20	0.14 <b>0.16</b> 0.18	0.14 <b>0.16</b> 0.18	0.10 <b>0.12</b> 0.14	0.22 <b>0.24</b> 0.26	0.18 <b>0.20</b> 0.22	0.08 <b>0.10</b> 0.12	0.09 <b>0.11</b> 0.13
10÷10.9	0.21 <b>0.23</b> 0.25	0.17 <b>0.19</b> 0.21	0.15 <b>0.17</b> 0.19	0.15 <b>0.17</b> 0.19	0.11 <b>0.13</b> 0.15	0.23 <b>0.25</b> 0.27	0.19 <b>0.21</b> 0.23	0.09 <b>0.11</b> 0.13	0.10 <b>0.12</b> 0.14
11÷11.9	0.22 <b>0.24</b> 0.26	0.18 <b>0.20</b> 0.22	0.16 <b>0.18</b> 0.20	0.16 <b>0.18</b> 0.20	0.12 <b>0.14</b> 0.16	0.24 <b>0.26</b> 0.28	0.20 <b>0.22</b> 0.24	0.10 <b>0.12</b> 0.14	0.11 <b>0.13</b> 0.15
12÷12.9	0.23 <b>0.25</b> 0.27	0.19 <b>0.21</b> 0.23	0.17 <b>0.19</b> 0.21	0.17 <b>0.19</b> 0.21	0.13 <b>0.15</b> 0.17	0.25 <b>0.27</b> 0.29	0.21 <b>0.23</b> 0.25	0.11 <b>0.13</b> 0.15	0.12 <b>0.14</b> 0.16
13÷13.9	0.24 <b>0.26</b> 0.28	0.20 <b>0.22</b> 0.24	0.18 <b>0.20</b> 0.22	0.18 <b>0.20</b> 0.22	0.14 <b>0.16</b> 0.18	0.26 <b>0.28</b> 0.30	0.22 <b>0.24</b> 0.26	0.12 <b>0.14</b> 0.16	0.13 <b>0.15</b> 0.17
14÷14.9	0.25 <b>0.27</b> 0.29	0.21 <b>0.23</b> 0.25	0.19 <b>0.21</b> 0.23	0.19 <b>0.21</b> 0.23	0.15 <b>0.17</b> 0.19	0.27 <b>0.29</b> 0.31	0.23 <b>0.25</b> 0.27	0.13 <b>0.15</b> 0.17	0.14 <b>0.16</b> 0.18
15÷15.9	0.26 <b>0.28</b> 0.30	0.22 <b>0.24</b> 0.26	0.20 <b>0.22</b> 0.24	0.20 <b>0.22</b> 0.24	0.16 <b>0.18</b> 0.20	0.28 <b>0.30</b> 0.32	0.24 <b>0.26</b> 0.28	0.14 <b>0.16</b> 0.18	0.15 <b>0.17</b> 0.19
16÷16.9	0.27 <b>0.29</b> 0.31	0.23 <b>0.25</b> 0.27	0.21 <b>0.23</b> 0.25	0.21 <b>0.23</b> 0.25	0.17 <b>0.19</b> 0.21	0.29 <b>0.31</b> 0.33	0.25 <b>0.27</b> 0.29	0.15 <b>0.17</b> 0.19	0.16 <b>0.18</b> 0.20
17÷17.9	0.28 <b>0.30</b> 0.32	0.24 <b>0.26</b> 0.28	0.22 <b>0.24</b> 0.26	0.22 <b>0.24</b> 0.26	0.18 <b>0.20</b> 0.22	0.30 <b>0.32</b> 0.34	0.26 <b>0.28</b> 0.30	0.16 <b>0.18</b> 0.20	0.17 <b>0.19</b> 0.21
18÷18.9	0.29 <b>0.31</b> 0.33	0.25 <b>0.27</b> 0.29	0.23 <b>0.25</b> 0.27	0.23 <b>0.25</b> 0.27	0.19 <b>0.21</b> 0.23	0.31 <b>0.33</b> 0.35	0.27 <b>0.29</b> 0.31	0.17 <b>0.19</b> 0.21	0.18 <b>0.20</b> 0.22
19÷19.9	0.30 <b>0.32</b> 0.34	0.26 <b>0.28</b> 0.30	0.24 <b>0.26</b> 0.28	0.24 <b>0.26</b> 0.28	0.20 <b>0.22</b> 0.24	0.32 <b>0.34</b> 0.36	0.28 <b>0.30</b> 0.32	0.18 <b>0.20</b> 0.22	0.19 <b>0.21</b> 0.23
20÷20.9	0.31 <b>0.33</b> 0.35	0.27 <b>0.29</b> 0.31	0.25 <b>0.27</b> 0.29	0.25 <b>0.27</b> 0.29	0.21 <b>0.23</b> 0.25	0.33 <b>0.35</b> 0.37	0.29 <b>0.31</b> 0.33	0.19 <b>0.21</b> 0.23	0.20 <b>0.22</b> 0.24

★ 1st choice ☆ suitable



Read the QR code with your smartphone and find the right parameters for the NCD drill that you are going to use!

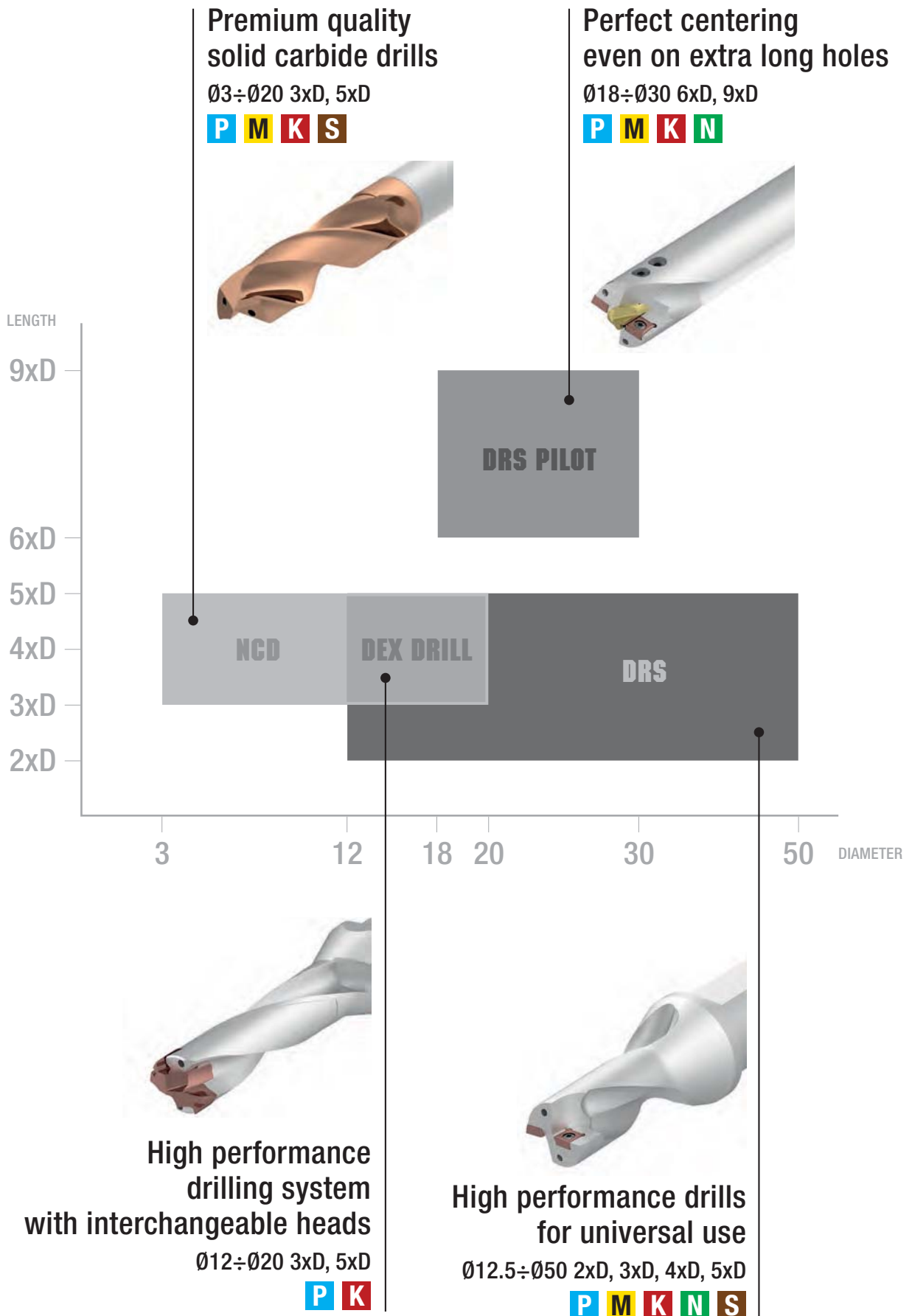


P DIN 36CrNiMo4, W.stoff nr. 1.6511, AISI 9840		Power Consumption	Wear condition (mm)		Chips shape	
<p><b>Drill Ø:</b> 6.8 mm 5xD  <b>Vc:</b> 100 m/min  <b>fn:</b> 0.14 mm/rev  <b>Coolant:</b> emulsion 6%  <b>Pressure:</b> 15 bar</p> <p><b>Tool life target:</b> 45 minutes</p>	<b>NCD5H-GP</b> <sup>TOP</sup> 0680-091/053-S08	8%	0.030			
	Competitor G	9%	0.052			
	Competitor M	11%	too damaged			
	Competitor Y	10%	0.040			

Note: NCD drill shows less power consumption and a better wear condition once reached the fixed target.

M DIN X6CrNi18-10, W.-Nr 1.4301, AISI 304		Power Consumption	Wear condition (mm)		Chips shape	
<p><b>Drill Ø:</b> 6.8 mm 5xD  <b>Vc:</b> 60 m/min  <b>fn:</b> 0.12 mm/rev  <b>Coolant:</b> emulsion 8%  <b>Pressure:</b> 15 bar</p> <p><b>Tool life target:</b> 30 minutes</p>	<b>NCD5H-SC</b> <sup>TOP</sup> 0680-091/053-S08	6%	0.026			
	Competitor G	6%	0.045			
	Competitor M	7%	0.039			
	Competitor Y	8%	0.037			

Note: NCD drill shows less power consumption and a better wear condition once reached the fixed target.



[www.nikkotools.com](http://www.nikkotools.com)



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